

# An Updated Fire Danger Climatology for New Zealand

A final report summarizing research completed under the project: “Fire Danger Climatology Analyses and Tools”

H. Grant Pearce, Samuel Aguilar-Arguello



# REPORT INFORMATION SHEET

<b>REPORT TITLE</b>	An Updated Fire Danger Climatology for New Zealand.
<b>AUTHORS</b>	H. Grant Pearce (FENZ), Samuel Aguilar-Arguello (Scion)
<b>CLIENT</b>	Fire and Emergency New Zealand
<b>CLIENT CONTRACT NUMBER</b>	
<b>PAD OUTPUT NUMBER</b>	54302856
<b>SIGNED OFF BY</b>	Katerina Pihera-Ridge
<b>DATE</b>	June 2023
<b>CONFIDENTIALITY REQUIREMENT</b>	Confidential (for client use only)
<b>INTELLECTUAL PROPERTY</b>	© New Zealand Forest Research Institute Limited. All rights reserved. Unless permitted by contract or law, no part of this work may be reproduced, stored or copied in any form or by any means without the express permission of the New Zealand Forest Research Institute Limited (trading as Scion).
<b>DISCLAIMER</b>	<p>The information and opinions provided in the Report have been prepared for the Client and its specified purposes. Accordingly, any person other than the Client uses the information and opinions in this report entirely at its own risk. The Report has been provided in good faith and on the basis that reasonable endeavours have been made to be accurate and not misleading and to exercise reasonable care, skill and judgment in providing such information and opinions.</p> <p>Neither Scion, nor any of its employees, officers, contractors, agents or other persons acting on its behalf or under its control accepts any responsibility or liability in respect of any information or opinions provided in this Report.</p>

PUBLISHED BY: Scion, Private Bag 3020, Rotorua 3046, New Zealand. [www.scionresearch.com](http://www.scionresearch.com)

## ***Front cover image***

State Highway 80, near Mt Cook Airport. Photo by Samuel Aguilar-Arguello.

## Executive summary

New Zealand experiences around 4,400 vegetation fires each year that burn on average 6000 ha of rural lands. Strong winds, high temperatures, low humidity and seasonal drought can regularly combine to produce dangerous fire weather situations. To effectively manage this risk, New Zealand fire managers require a knowledge of these extremes and their likelihood of occurrence relative to long-term statistics of fire weather and fire danger conditions. This information is essential to support wildfire risk assessment and operational implementation of fire season status and activity control triggers.

Previous analyses, conducted in 1996, 2003 and 2011, developed and extended a database of fire weather and fire danger indices for weather stations across New Zealand, and produced summary tables summarising the fire climate for each location. The fire weather monitoring network has continued to grow over the past decade to now comprise over 300 stations. This study sought to update the fire weather station climatology datasets (to June 2021), and to extend the summaries of long-term averages and extremes of fire weather and fire danger for a greater number of stations.

The study comprised five main steps: 1) compilation or extension of datasets of daily noon fire weather records for each weather station; 2) quality control of each dataset, by checking and replacing missing or erroneous values; 3) recalculation of Fire Weather Index (FWI) System components with an updated version of the FWI equations calibrated for New Zealand's location; 4) calculation of associated fire danger class values based on the New Zealand criteria for Forest, Grassland and Scrubland fuel types, including use of seasonal grass curing trends for grasslands; and 5) statistical analysis of long-term average and extreme (min/max) values for weather and fire danger indices, and fire danger class frequencies, for each weather station.

In total, 158 stations were identified from the wider list of 373 stations with available data that met the requirement of having at least 10 years of daily data (to 30/06/2021). Gap filling and other corrections were performed on these datasets, which included a total of 5,879 years of data. This also included correcting errors identified in the historical data prior to 2011 when the last updates were undertaken. This part of the analysis highlighted a number of data quality problems associated with accuracy and completeness of data contained within FENZ's present fire weather archive that have resulted from station changes and maintenance issues. As a result, completed datasets could only be obtained for 100 stations which were then analysed to produce summary values. [Since the completion of the project, work has continued on completing the datasets for several of the other stations, with the aim of increasing the total number for which fire climatology summaries are available<sup>1</sup>].

The principal output from the analyses is a summary table for each of the 100 stations containing the long-term average and extreme values of each of the noon fire weather and FWI System components summarised by month, fire season and year. In addition, the summary tables include fire danger class frequencies for Forest, Grassland and Scrubland vegetation types, as well as wind roses (a new addition), also by month, fire season and year. These summary statistics for each station were then used to identify the individual weather stations and geographic regions with the most severe fire climates. Stations in Marlborough and the East Coast demonstrated the highest values of the fire climate severity measures contrasted.

---

<sup>1</sup> The summaries and the underlying datasets for each station are available on the FENZ website, <https://www.fireandemergency.nz/research-and-reports/fire-weather-station-climatology-data-by-fire-district/>

The continued updating of the comprehensive database of daily fire weather and fire danger information for the growing network of fire weather stations is the other major output from the project. This database is essential for research on predicting fire season severity and monitoring the onset of climate change. In its own right, it also provides an extremely useful tool for FENZ fire managers and stakeholders in making more informed fire management decisions on wildfire risk reduction, readiness, and prescribed burning activities.

The analytical methodology used during the analysis was automated within an R statistical software routine so that, in future, regular updates of the database and associated statistical analyses can be conducted more easily. It is suggested that this updating be conducted annually or, at the very least every few years, to maintain the accuracy and utility of the database and to minimise the workload required to repeat the analyses.

# An Updated Fire Danger Climatology for New Zealand.

## A final report summarizing research completed under the project: “Fire Danger Climatology Analyses and Tools”

H. Grant Pearce & Samuel Aguilar-Arguello

Scion, Rural Fire Research Group, Christchurch

April 2023

### Table of Contents

Executive summary	i
Introduction	1
Project Scope	<b>1</b>
Pilot Study to Determine Minimum Length of Record	<b>9</b>
Methods	13
1. Weather database compilation	<b>13</b>
<i>Data quality assessment</i>	<i>14</i>
<i>Station selection</i>	<i>14</i>
<i>Data substitution</i>	<i>15</i>
<i>Data accuracy checking</i>	<i>16</i>
2. Fire danger database creation	<b>19</b>
<i>FWI calculation</i>	<i>19</i>
<i>Fire danger class computation</i>	<i>19</i>
<i>Construction of wind roses</i>	<i>29</i>
3. Statistical analysis and output table production	<b>29</b>
Results and Discussion	30
Summary tables	<b>30</b>
Length of record	<b>35</b>
Data quality	<b>35</b>
Statistical analysis	<b>37</b>
Application of the fire climatology - comparison of fire climate severity	<b>37</b>
Other uses of the fire climatology	<b>46</b>
Conclusions and Recommendations	47
Acknowledgments	48
References	49
Appendix 1. Summary of Data Availability for Individual Weather Stations.	55
Appendix 2. Fire Climate Summaries for Individual Weather Stations by Region.	58
Table of contents for Appendix 2	<b>58</b>

# Introduction

---

Although not having one of the worst fire climates in the world, New Zealand has experienced 4,417 vegetation fires along the 2021/2022 season and 4,580 fires during the 2020/2021 season, covering a total area of 4,864 ha and 13,351 ha respectively (Gross *et al. in preparation*). Strong winds, often associated with high temperatures, low humidity and seasonal drought, can combine to produce dangerous fire weather situations. To effectively manage this risk, New Zealand fire managers require a knowledge of these extremes and their frequency of occurrence, in relation to long-term averages of fire weather and fire danger conditions.

A better description of New Zealand's fire climate will enable Fire and Emergency New Zealand<sup>2</sup> (FENZ) and other rural land managers, to increase the focus of fire prevention and mitigation activities. In particular, fire managers will be better able to monitor fire season conditions in advance so that prevention programmes and preparedness systems can be implemented in a timely and effective manner. This information is essential to support wildfire risk assessment and operational implementation of fire season status and activity control triggers. Use of the fire danger climatology and associated analytical tools will also lead to more effective and efficient use of equipment, and ultimately a reduction in the incidence and consequences of rural fires.

Recent studies forecast an increase of global incidence of wildfires due to climate change (e.g., Stocks *et al.* 1998, Hennessey *et al.* 2005, Intergovernmental Panel on Climate Change (IPCC) 2021, Hasson *et al.* 2008). Therefore, building a more efficient and trustworthy system to calculate the probability of wildfires will be paramount to promptly predict and prevent fires.

## Project Scope

The principal objective of the project was to update the New Zealand fire climatology analysis from 2003 to 2021 and incorporate more reliable formulas to calculate fire danger ratings. Previous updates include the initial development of a New Zealand fire climatology database by Pearce in 1996 (from earliest date available to December 1995) and update in 2003 (from 1995 to May 2002, Pearce *et al.* 2003) and 2011 (to September 2010, Pearce *et al.* 2011a). Pearce (1996) was the first to undertake an assessment of fire danger in New Zealand's climate regions, and summarised long-term averages and extremes of fire weather and fire danger rating system components for 20 weather station locations throughout New Zealand (Figure 1). Due to the limited number of analysed weather stations, another study was conducted in 2003 (Pearce *et al.* 2003) resulted in the analysis of 170+ stations that provided greatly improved coverage of New Zealand's complex topography and its large number of regional and micro-climates. The completeness of the 2003 study relied greatly on the installation of remote automatic weather stations as part of FENZ's fire weather system (predominantly since 1995). The caveat of the 2003 update was that from the 170+ surveyed weather stations, 127 had enough data to calculate values of weather and FWI System components, but only 21 of these had record lengths exceeding 20 years, which is the minimum recommended for climatological studies.

---

<sup>2</sup> In 2017, the Rural Fire Authorities and National Rural Fire Authority (NRFA) consolidated with the New Zealand Fire Service, establishing Fire and Emergency New Zealand (FENZ).

The current study encompasses the examination of 158 stations representative of all 17 regions of New Zealand<sup>3</sup>, with a further 18 years of data available since the 2003 study. The surveyed stations chosen had a minimum data record length of 10 years, although we also included four datasets from weather stations in areas of particular interest for other research: Waeranga Raws (3 years), Cape Campbell SYNOP (8 years), Hawea Flat Raws (3 years), and Otematata Raws (4 years). From these 158 selected stations, at the end of this project (April 2023), 100 stations (63.3%) with complete daily datasets up to 1 July 2021 had been analysed. These daily data comprised weather variables, calculated FWI System codes and indices, updated fire danger class frequencies for Forest, Grassland and Scrubland. Of these 100 stations, 86 have completed datasets of 20 years or more.

For the remainder of the surveyed stations (158 – 100 = 58), even though the percent completeness of their daily data was improved, their data presented major gaps or data quality issues which meant they were not able to be included.

## Background

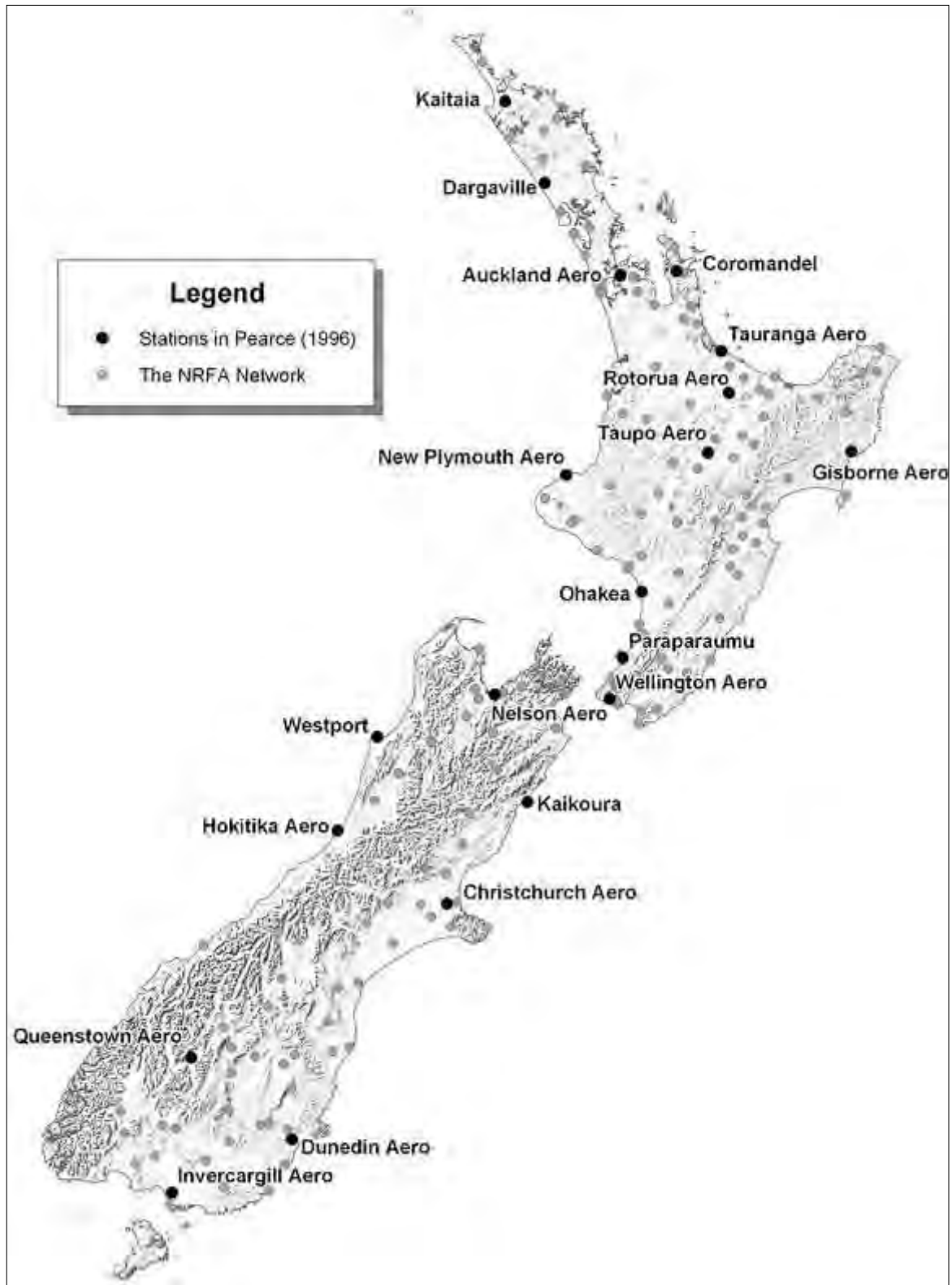
Assessment of the effect of fire weather (and other fire environment factors of fuel and topography) on potential fire occurrence and fire behaviour in New Zealand is assisted by the use of the New Zealand Fire Danger Rating System (NZFDRS) (Figure 2a), which is based on the Canadian Forest Fire Danger Rating System (CFFDRS) (Fogarty *et al.* 1998).

The Fire Weather Index (FWI) subsystem of the CFFDRS was adopted by the New Zealand Forest Service in 1980 (Figure 2a). Subsequently, the New Zealand Fire Danger Rating System was developed, which included more comprehensive determination of fire danger classes based on the FWI System codes and indices (Alexander 1994, Anderson 2005) (Figure 2b). Based solely on weather observations, the FWI System provides numerical ratings of relative ignition and fire behaviour potential which are used to guide fire management activities (Stocks *et al.* 1989), such as:

- prevention planning (e.g., informing the public of pending fire danger, regulating access and risk associated with public and industrial use of forest and rural areas);
- preparedness planning (e.g., level of readiness and prepositioning of suppression resources);
- detection planning (e.g., lookout manning and aerial patrol routing);
- initial attack dispatching;
- suppression tactics and strategies on active wildfires; and prescribed fire planning and execution.

---

<sup>3</sup> The region descriptions have changed over time as, especially due to the transition from NRFA to FENZ. This has led to changes of boundaries, division of regions (e.g. the old Eastern region has now been split into East Coast and Hawkes Bay) or the renaming of some regions (e.g. Central North Island is now called Bay of Plenty).



**Figure 1.** Weather stations ( • ) included in the fire danger climatology analysis of Pearce (1996), and station coverage ( ◦ ) included on the National Rural Fire Authority’s fire weather monitoring network at the time of that study (now Fire and Emergency New Zealand’s fire weather system).





The ISI and BUI components of the FWI System are used to determine Forest fire danger, while the Grassland criteria uses the ISI component, a standard fuel load of 3.5 t/ha and an assessment of the Degree of Curing<sup>4</sup> that has taken place in the grassland fuel complex (Alexander 1994). The Scrubland model (Pearce 2001, Anderson 2009) uses the ISI and a standard fuel loading of 20 t/ha to predict fire danger class. As the ISI and BUI are based solely on weather inputs (see Figure 2b), they can readily be calculated from historical weather data. However, the Degree of Curing must currently be supplied directly by the user, usually based on a visual estimate. There have been alternative methods proposed for determining curing over broad areas (Baxter & Woodward 1999, Baxter 2000, Newnham *et al.* 2015, Clifford *et al.* 2018); nevertheless, these have not yet been implemented. General seasonal trends in curing (as used in this study) or potential relationships with FWI System fuel moisture codes (i.e., DMC, DC and/or BUI) may allow retrospective estimation of Degree of Curing and, thus, determination of the Grassland fire danger class from climatological records.



**Figure 3.** Network of surveyed stations (158) administered by Fire and Emergency New Zealand (FENZ). Stations depicted as blue dots are the ones that were completed in this report (100) those depicted as transparent circles (58) needed major amendments (incomplete stations) and their data were not included in this survey. Station names are indicated by the 3-letter codes (e.g., Le Bons Bay = LBX).

<sup>4</sup> The Degree of Curing represents “the proportion of cured and/or dead material in a grassland fuel complex expressed as a percentage (%) of the total” (Alexander 1994), and is used in recognition of the significant effect grass curing has on fire behaviour and, in particular, potential fire spread.

The remote automatic weather station network is at the heart of the New Zealand fire weather monitoring system run by FENZ. At the commencement of the study this network comprised 373 weather stations, including 300 owned by FENZ or other agencies (e.g., forestry companies, councils) for which data are downloaded and archived by FENZ, together with 74 stations for which data were provided by the Meteorological Service of NZ Ltd (MetService) and the National Institute of Water and Atmospheric Research (NIWA). The weather data provided by this fire weather network are used to calculate the daily and hourly FWI System components and related fire danger ratings, which are then disseminated to FENZ personnel, external partners and the general public via FENZ's Fire Weather Reporting System (FWSYS). Across New Zealand, there is also a more extensive weather observation network maintained by NIWA that includes MetService stations plus a much greater number of NIWA and Regional Council stations monitoring climatic and other environmental conditions. Data from this network is archived within the National Climate Database<sup>5</sup>, administered by NIWA. In some cases, data from these MetService (e.g., AWS and synop) and NIWA (EWS) stations are also suitable for calculation of daily fire dangers.

While production of climatological summaries for the standard weather elements are commonplace (e.g., NZMS 1983a), analyses of fire danger are much less routine (Nikleva 1973, Tapper *et al.* 1993). Despite a clear need being expressed for such analyses (Valentine 1978, p. 35, Alexander 1992b), few New Zealand examples of fire climate studies existed prior to the compilation of the present fire weather database. In trialling the FWI System prior to its introduction, Valentine (1978) compared fire season climatologies for British Columbia and New Zealand, and Cooper and Ashley-Jones (1987) used fire danger class frequencies, determined over several fire seasons, to investigate the economics of fire prevention activities. Pearce (1996) undertook the first comprehensive analysis, producing a fire climatology for 20 weather stations and presenting long term average and extreme values for both weather inputs and fire danger components in a summary table for each station. This database was extended in 1998 to investigate the potential impact of the 1997/98 El Nino event on regional fire dangers (Anon. 1998, Pearce 1998), and in 2001 to further illustrate the use of severity ratings to compare and predict fire season conditions (Majorhazi & Pearce 2001). The data in Pearce (1996) was also used by Pearce and Hawke (1999) to determine the length of data record required for further fire climatology analyses and they found, like others (e.g., Simard 1972, Main *et al.* 1982), that 10 years data was sufficient for fire climatology studies. This diverges significantly from standard climatological practice, where 20 or 30 years of data is typically used to produce climate 'normals', although these longer lengths of record are obviously preferable where they are available.

The high value of fire climatological information for fire management is evidenced by the vast number of studies and wide variety of applications illustrated in the literature. A significant number of these studies have attempted to use fire climatologies to describe fire activity (Cheney 1976, Haines *et al.* 1980, Harrington *et al.* 1983). Moreover, fire danger climatologies have also been used to illustrate seasonal trends in fire danger (McAlpine 1990), to determine length of fire season (Wotton & Flannigan 1993), and to delineate fire climate zones (Simard 1973). They have also been used to define impacts of El Nino-Southern Oscillation events (Williams 1998) and climate change (Wotton *et al.* 1998). Perhaps more importantly, fire climatologies have also been used to develop systems to assist with the full range of fire management activities, including prevention (OMNR 1989, Borger 1997), preparedness (Gray & Janz 1985, Fogarty & Smart 1994), fire suppression (Andrews *et al.* 1998, Fogarty & Slijepcevic 1998), and prescribed fire planning (Furman 1979, Andrews & Bradshaw 1990).

Based on the example of Simard and Valenzuela (1972) from Canada, the emphasis of the initial New Zealand analysis by Pearce (1996) was on describing fire danger in various parts of the country using the climate regions of NZMS (1983b) (Figure 4). As well as indicating seasonal trends in fire danger values, the study also enabled comparison of fire climates in different parts of the country using measures of fire season severity based on FWI (Harvey *et al.* 1986). However, it did not compare the severity of individual fire seasons for particular stations, as has been done using Monthly (MSR) and Seasonal Severity Ratings

---

<sup>5</sup> CliFlo, <https://cliflo.niwa.co.nz/>

(SSR) in Canada (Stocks 1971), and no attempt was made to define fire climate regions using the FWI System as has also been done in Canada (Simard 1973). Both these objectives formed part of the subsequent NZFSC-funded projects undertaken by NIWA (Heydenrych *et al.* 2001, Heydenrych & Salinger 2002, Gosai *et al.* 2003, 2004, Griffiths 2004) and Scion (Pearce *et al.* 2011a). Based on the results of a pilot study (Salinger *et al.* 1999), the NIWA project identified large scale global and regional climate factors influencing fire season severity as a basis for improving fire danger forecasts (Renwick & Salinger 2004, Gosai & Griffiths 2004). As part of another NZFSC-funded project, Landcare Research (Leathwick & Briggs 2001) also used FWI data from the NRFA's fire weather system to produce fire climate layers for input into the NRFA-led New Zealand Wildfire Threat Analysis System project. Later on, an improved and extended version of the fire climatology was produced by Pearce *et al.* (2003), not only including a wider range of stations than the study in 1996 (to 127 stations), but also the calculation of fire danger class frequencies for both the Forest and Scrubland vegetation types by month, fire season and year. The resulting information and more recent updates to the fire climatology database (e.g., Pearce *et al.* 2011a) have proven highly useful for a range of applications, including:

- development of methods for monitoring and prediction of fire seasons severity (Pearce & Moore 2004, Simpson *et al.* 2014, Scion 2021)
  - understanding climate trends and variability (Pearce *et al.* 2007, Pearce & Whitmore 2009, Macara *et al.* 2017, StatsNZ 2020, Dudfield *et al.* 2021)
  - determining potential impacts of climate change (Pearce *et al.* 2005, 2011b)
  - fire risk modelling (Moore *et al.* 2002, Briggs *et al.* 2005, Teeling & Pearce 2021)
- operational uses such setting of fire seasons and high fire risk activity restriction triggers (Pearce *et al.* 2016, FENZ 2018).

This study undertook the analysis of 158 weather stations across New Zealand with a length of record of 10 years or longer. From these 158 stations, 100 were able to be analysed with 100% complete daily fire weather time series. Summary tables with statistics per month, full year<sup>6</sup> and fire season<sup>7</sup> were obtained from the daily dataset for each station. The resulting information is not only paramount from a forest and rural fire standpoint to indicate ease of ignition, rate of spread, difficulty of control and potential fire impacts (Merrill & Alexander 1987), but also is highly useful for related research requiring updated, long-term, reliable and precise data covering the complex topography of the country and widely varying microclimates and fire climate severity that result (Dudfield *et al.* 2021).

---

<sup>6</sup> A full year is the period of time which has complete data spanning the full calendar year from January 1<sup>st</sup> to December 31<sup>st</sup>.

<sup>7</sup> One fire season captures data spanning the Southern Hemisphere fire season months from October 1<sup>st</sup> of a specific year to April 30<sup>th</sup> of the following year, and preferably the full 'fire year' period from July 1<sup>st</sup> to June 30<sup>th</sup> the following year.



**Figure 4.** New Zealand climate regions (after NZMS 1983b) and weather stations included in the fire danger climatology analysis of Pearce (1996).

## Pilot Study to Determine Minimum Length of Record (performed by Pearce, Kerr, Clifford & Wakelin, 2011)

Early in the database compilation phase of the main study it was recognised that data quality and length of available record had the potential to limit the number of stations that could practically be included in the final analyses. The extra work required to complete station datasets because of missing and/or incomplete records meant that the effort expended on this had to be balanced against the time available to undertake the analyses. According to previous studies (Simard 1973, Pearce 1996, Pearce & Hawke 1999), 10 years of data is sufficient for analysis of fire danger ratings, in contrast with standard climatological practice where 20 or 30 years of data is typically used to produce climate ‘normals’.

The last assessment of fire climate severity was conducted in 2003 (Pearce *et al.* 2003), when tabular summaries of fire danger ratings and fire climate severity were produced for 127 mainland New Zealand locations. However, due to only 21 of these weather stations having record lengths exceeding 20 years, they included stations with records longer than 5-years.

At the time this pilot study was performed (2011), a greater length of data was available compared to at the time of the Pearce *et al.* (2003) study: the same 21 stations had fully complete record lengths greater than 20 years, but only 18 of these had data up to the time of that study. A further 74 stations had records of more than 15 years, whereas 106 stations had datasets of greater than 10 years. An additional 8–9 stations with partially incomplete records were potentially also available to be completed, bringing the total to around 114–115 potential stations with record lengths exceeding 10 years.

Due to the characteristics of the available data records, the objective of the pilot study was to determine the maximum number of stations that could be appropriately analysed by identifying the reliability of estimating fire danger ratings from stations with shorter records (i.e., 87 stations with 10-year-long) compared to longer (i.e. 77 stations with 15-year-long) datasets. The effect of using different lengths of data record (i.e. 10 years vs. 15 years) was determined by comparing whether the average (mean) values of fire weather and climate variables from the datasets of different length for each station were statistically significantly different using the Student t-test.

The results of this comparison can be seen in Table 2. This shows the resulting summary values for annual rainfall and the full-year fire climate severity measures (DSR and days of Very High+Extreme (VH+E) fire danger) for a number of selected fire weather stations used in this and previous studies (after Pearce *et al.* 2003). While very small differences observed in annual rainfalls likely result from the use of different observation times (i.e. 24-hour totals to 0800/0900h NZST for climate normals cf. 1200h NZST for the fire weather observations used in the present and previous studies), the differences in values reported from the various sources largely reflect the use of the different periods and lengths of data record indicated. In some cases, values vary relatively little between sources (e.g., annual rainfalls at Kaitaia (KX) and Gisborne (GSA), DSR values at Wellington (WNA) and Hokitika (HKA)), and in others not at all (e.g., VH+E at HKA, where there have been no days of VH or E recorded over any period). However, in other instances, values vary significantly depending on the period and length of record used. For example, the more recent data period used in the present pilot study (both 15-year and 10-year analyses) for Westport (WSA) has experienced days of VH+E fire danger, whereas none were recorded in the earlier studies; similarly, days of VH+E were observed in the period since 1996 at New Plymouth (NPA) in all studies except the Pearce (1996) analysis which only included data to December 1995. Other stations that showed significant differences in values due to the averaging period were Kaikoura (KIX), Taupo (APA) and WNA for rainfall; NPA, Queenstown (QNA) and Dargaville (DAR) for DSR; and QNA, KIX and Tauranga (TGA) for days of VH+E fire danger.

Differences associated with the averaging period are also highlighted when the fire climate severity measures are depicted spatially. For example, Figure 5 illustrates differences in maps of average DSR due to the 15- vs 10-year length of record used (Figures 5a vs 5b, and 5c vs 5d), and also resulting from the averaging of values over only fire season months compared to the full calendar year (Figure 5a vs 5c, and

5b vs 5d). While the general pattern of fire climate severity (depicted by the coloured areas) is very similar for the 15-year and 10-year averages, the values themselves (shown by the numbers next to the station location dots) are different resulting in some subtle differences in some parts of the country. For example, average DSR values in the East Coast region are higher (more dark orange) for the 15-year period (Figure 5a) than for the 10-year period (Figure 5b), resulting in greater distinction of areas east of the ranges from further west into the Bay of Plenty; conversely, 10-year averages in the Far North (Figure 5b) are higher than for the 15-year period (Figure 5a), resulting in the area of higher DSR extending further to the south.

Spatial differences resulting from averaging over the fire season months only (October to April) compared with the full calendar year (January to December) (i.e. Figure 5a vs 5c, and 5b vs 5d) are more marked than those due to length of record (10 vs 15 years of data; Figure 5a vs 5b, and 5c vs 5d). Full-year averages (Figures 5c & 5d) are lower than the corresponding fire season values (Figures 5a & 5b) due to the inclusion of days from the winter period with lesser values. When compared using the same scale range, these lower values result in significantly reduced areas of higher DSR values, as for example in eastern areas of the North Island, inland South Island and Kaikoura coast for the full year (Figures 5c & 5d, with yellow and lighter orange or red) compared with fire season months only (Figures 5a & 5b, with more orange and red colours). However, localised areas of higher values can still occur in some instances in spite of these lower values, due to more marked differences in values affecting the fitted surface, as seen for example in the area of higher values around Blenheim in Figure 5c (more red) compared with Figure 5a (only orange).

These differences resulting from the averaging period reinforce the decision taken to limit the present analysis to stations with a consistent length of record that encompasses the same period of climate, rather than periods of varying length that may have included different cycles or trends of climate such as the El Nino/Southern Oscillation (ENSO) or Interdecadal Pacific Oscillation (Pearce *et al.* 2007, Pearce & Whitmore 2009) or climate change (Pearce *et al.* 2005, Pearce & Whitmore 2009). They also support the preference for use of longer rather than shorter data records for the same reason (to capture full cycles or trends in fluctuating climate).

In conclusion, testing of the assumption of equal variance for the datasets of different length (using the F-test) showed that the variances were often statistically different, so that it was necessary to conduct the t-test comparison of means using unequal variance. The effect of length of record was compared for full-year averages only, and not for the data from just fire season months. Comparisons showed differences between 10 and 15-year record, meaning that 10-year records are less reliable. According to these findings, it is recommended that the 15-year averages produced as part of the study (and associated maps) be used in preference to those for 10-years to describe New Zealand's fire climate. This length of record (15 years) is also recommended as a minimum for future studies, to best capture climate cycles such as the El Nino/Southern Oscillation. The results from this 2011 pilot study were used to inform the methods utilised in the present (2022-23) analyses. This included (see Methods section for more detail):

- only using stations with at least 20 years of data up to June 2021
- using stations that captured full calendar years (1<sup>st</sup> January to 30<sup>th</sup> December) or full fire season periods (1<sup>st</sup> July to 30<sup>th</sup> June)

**Table 2.** Comparison of selected station climate and fire weather summary statistics for the 2011 pilot study, previous analyses and published climate normals, illustrating the effect of length and period of data record on resulting statistics. (from Pearce *et al.* 2011)

Station Code	Station Name	Length of Record (years)					Annual Rainfall (mm)					Daily Severity Rating (DSR)				VH+E FFDC (days)			
		Present study a (15 yr)	Present study a (10 yr)	2003 study b	1996 study c	Climate normals d	Present study (15 yr)	Present study (10 yr)	2003 study	1996 study	Climate normals	Present study (15 yr)	Present study (10 yr)	2003 study	1996 study	Present study (15 yr)	Present study (10 yr)	2003 study	1996 study
KX	Kaitaia	15	10	39	33	32	1368	1359	1361	1356	1418	1.06	1.15	1.10	1.17	5.7	6.4	8.9	10
DAR	Dargaville	15	10	23	17	38	1184	1137	1176	1177	1248	0.88	0.82	0.54	0.51	3.4	2.5	1.9	2.2
AKL	Auckland	15	10	35	29	19	1087	1068	1109	1106	1150	1.32	1.31	1.14	1.13	9.7	9.7	7.6	7.8
TGA	Tauranga	15	10	31	25	68	1223	1239	1214	1233	1349	1.65	1.67	1.09	1.01	13.8	15.7	7.5	6.6
ROA	Rotorua	15	10	37	31	18	1378	1345	1432	1428	1491	0.65	0.65	0.61	0.62	1.3	1.3	2	2.1
APA	Taupo	15	10	25	19	32	939	910	992	1003	1178	0.89	0.88	0.62	0.61	4.5	3.7	3	2.9
GSA	Gisborne	15	10	39	33	44	1014	1030	1012	1009	1058	2.45	2.23	2.82	2.86	27.9	24.2	32.5	33.1
NPA	New Plymouth	15	10	26	20	37	1394	1378	1435	1433	1529	0.62	0.64	0.47	0.24	2.0	2.2	1.4	0
PPA	Paraparaumu	15	10	39	33	36	972	952	1024	1031	1054	0.98	1.04	0.84	0.85	2.9	3.7	3.6	3.9
WNA	Wellington	15	10	41	35	21	969	973	997	1011	1240	2.36	2.38	2.43	2.41	24.7	25.7	18.7	17.6
NSA	Nelson	15	10	39	33	40	950	824	1022	979	986	1.74	1.94	1.42	1.42	14.9	17.7	10.1	10.1
KIX	Kaikoura	15	10	37	31	32	674	646	824	839	888	1.60	1.51	1.17	1.07	10.7	9.4	5.5	4.3
WSA	Westport	15	10	31	26	37	1991	1935	2224	2274	2192	0.17	0.18	0.16	0.17	0.1	0.1	0	0
HKA	Hokitika	15	10	37	31	18	2721	2592	2852	2843	2783	0.12	0.12	0.12	0.12	0	0	0	0
CHA	Christchurch	15	10	41	35	38	629	590	629	620	666	3.93	3.81	3.56	3.51	47.7	46.7	39	39.1
QNA	Queenstown	15	10	23	17	13	749	668	827	783	805	1.30	1.4	0.90	0.80	11.9	13.5	6	4.6
DNA	Dunedin	15	10	38	32	19	686	618	700	683	659	1.44	1.53	1.33	1.36	13.1	14.4	7.3	7.6
NVA	Invercargill	15	10	41	35	42	1109	1112	1093	1093	1037	0.38	0.33	0.43	0.44	0.7	0.4	0.5	0.3

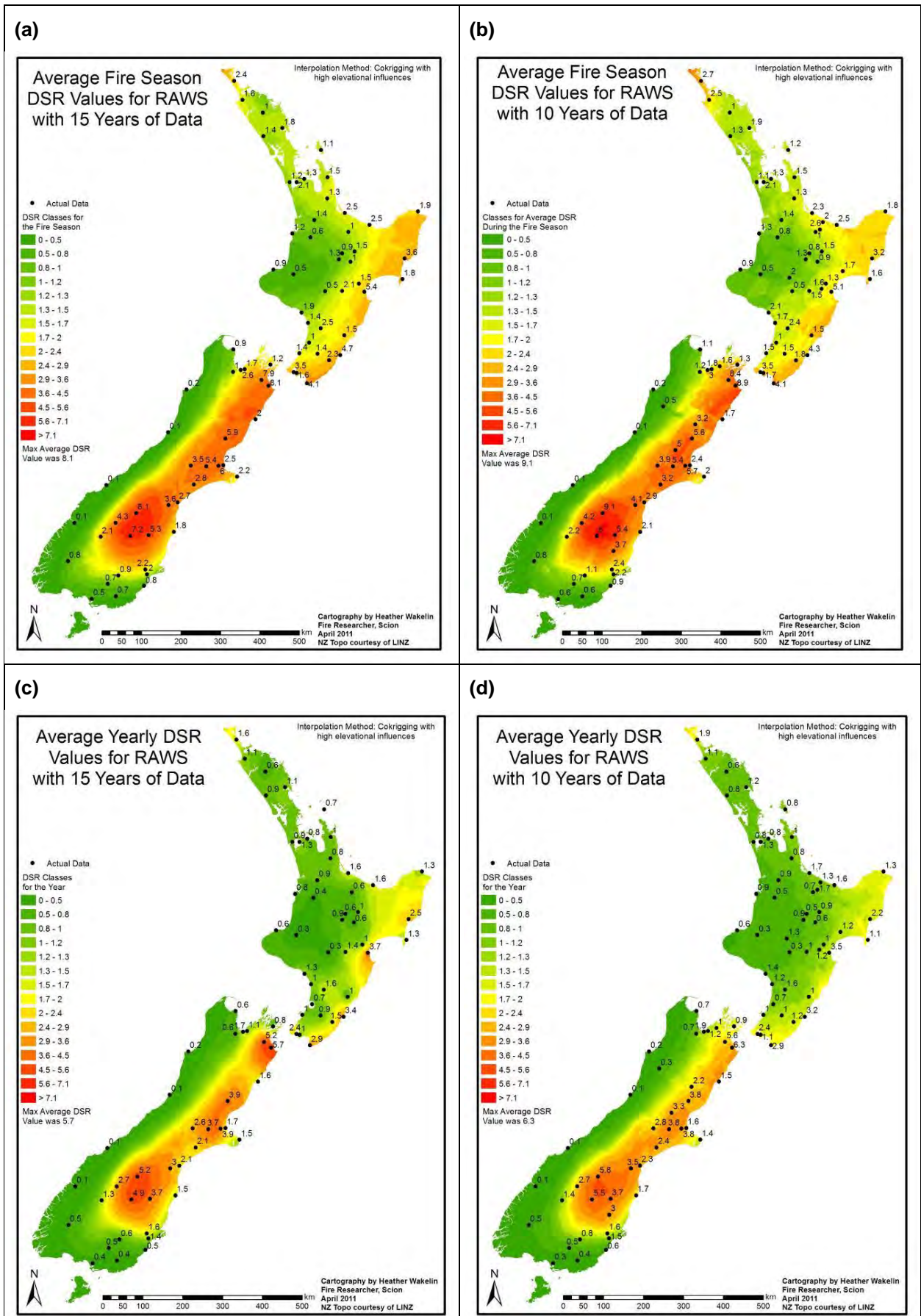
<sup>a</sup> Here “Present Study” refers to the pilot study (Pearce *et al.* 2011); for stations with consistent lengths of data record of either 15 years (covering the period 1<sup>st</sup> October 1995 to 30<sup>th</sup> September 2010) or 10 years (1<sup>st</sup> October 2000 to 30<sup>th</sup> September 2010), derived from 1200h NZST fire weather observations.

<sup>b</sup> from Pearce *et al.* (2003); for stations with variable lengths of data record covering the period to 31<sup>st</sup> May 2002, derived from 1200h NZST fire weather observations.

<sup>c</sup> from Pearce (1996); for stations with variable lengths of data record to 31<sup>st</sup> December 1995, derived from 1200h NZST fire weather observations.

<sup>d</sup> after NZMS (1983a); climate normals derived from 0800/0900h NZST climate observations.





**Figure 5:** Spatial variability of average Daily Severity Rating (DSR) across New Zealand, based on averages derived from 15-year (a & c) versus 10-year lengths of data record (b & d), and fire season months (October – April) only (a & b) compared with the full calendar year (c & d), latest data being September 2010 in this pilot 2011 study. (from Pearce et al. 2011)

## Methods

Calculation of Fire Weather Index (FWI) System codes and indices and subsequent fire danger ratings requires a continuous daily record for each of the input weather elements. These comprise 1200 noon NZST observations of temperature, relative humidity, wind speed, and 24-hour accumulated rainfall to 1200 NZST (see Figure 2b). This fire weather information is recorded (daily, hourly, and sometimes even every 10 minutes) by the network of fire weather monitoring stations around the country which are downloaded daily and archived by NIWA for FENZ. This information was accessed through the fire weather system (FWSYS) software, and was combined with other datasets developed by Pearce *et al.* (2003, 2011) to provide an updated database of daily fire danger information for subsequent statistical analysis. The principal steps involved in the study were:

1. Weather database compilation – data quality assessment, station selection, data accuracy checking and data substitution;
2. Fire danger dataset creation – calculation of FWI System components and fire danger classes for each station;
3. Statistical analysis and output summary table production.

### 1. Weather database compilation

The database obtained through combining data from the various sources included weather datasets for a total of 373 stations (Table 3). However, some stations had to either be combined due to their replication of location with other weather stations which had been added, or removed because they only had short record lengths due to being discontinued or relocated. Based on the results from the 2011 pilot study analysis, there was a requirement for stations being selected for analysis to have at least 10 years of daily data with few gaps or missing observations (i.e. a high completeness percentage). As a result, 158 stations fulfilled these characteristics (hereafter the ‘surveyed stations’, see **Appendix 1**).

**Table 3.** Summary of data availability (reliability and length of record) for all fire weather stations available.

Length of Record (years)	Stations status				
	Discontinued only	Replicated only	Discontinued and Replicated	Relevant*	Total
>50	0	1	0	12	13
26 - 50	0	4	0	66	70
16 - 25	7	8	2	69	86
10 - 15	18	8	3	22	51
<10	18	29	13	93	153
<b>Total</b>	<b>43</b>	<b>50</b>	<b>18</b>	<b>262</b>	<b>373</b>

\* a station was labelled as ‘relevant’ if it was still active and provided the most complete and representative dataset out of the other replicated stations from the same/similar location.

In particular, the FENZ fire weather system comprises a list of 300 stations (including replications) from the date of installation of each station up to July 2021 or, in a few cases (15 stations), to the date of decommissioning of the station. In addition to stations owned by FENZ or its partners (forestry companies and councils), this includes a number of NIWA Environmental Weather Stations (EWS) and MetService Automatic Weather Stations (AWS) and synoptic (synop) stations, which are predominantly located in major population centres or airports. The FENZ fire weather stations, in general, have lower data quality (completeness %) than NIWA’s and MetService’s stations, but the records often extend back further in time (in most cases, to the mid-1990s) and newer data is recorded hourly, or sometimes every 10 minutes.

The main starting points for the datasets used in this study were those produced for the Pearce *et al.* (2003) study and updated by Pearce *et al.* (2011), which in turn had been developed from Pearce (1996) and Moore *et al.* (2002). This information comprised daily records of weather data for 127 stations having at least 5 full years of data (and in the case of the Pearce *et al.* (2011) stations, 10 or 15 years) that, when updated to July 2021 with data from FWSYS, also had >90% completeness in most instances).

To enable extension of the datasets for longer-term stations originally used by Pearce *et al.* (1996), data was also acquired from MetService, from which we obtained weather inputs for 61 stations. Of these, 18 stations have outdated records (due to decommissioning), while 43 had data at least up to July 2021. In addition, 35 of these stations represent replications with FWSYS station (either FENZ or NIWA) locations. Datasets from MetService usually have 3-hour synoptic observations for which the percentage of completeness is very high. Wind speed is recorded in knots, thus, this variable was transformed to km/h (multiplying the value in knots by 1.852).

Finally, a small amount of data was retrieved from the National Climate Database through the CliFlo platform to aid in filling data gaps and checking data accuracy. These particular stations are only available through the CliFlo database, thus, there were not replications with FWSYS, but could very close to the equivalent FWSYS stations.

## Data quality assessment

Although many gaps in station datasets were filled during the Pearce *et al.* (2003) and Pearce *et al.* (2011) analyses, this time we aimed to obtain the highest data quality for the selected stations, meaning the total completion (100%) and quality checking of daily data from the time of installation of the station up until 1 July 2021. Achieving this objective meant not only checking and fixing issues with the extra 11-18 years of data (up to July 2021), but also re-checking and correcting any issues left from the previous 2003 (to May 2002) and 2011 (to September 2010) updates. Each station was reviewed over its entire data record in order to define its length of record in full years and fire seasons (October to April), amount of missing data (% completeness), and check for possible outliers or other data quality issues.

The quality of data was determined by producing simple summary statistics for each individual station dataset. These statistics included data counts, and mean, maximum and minimum values for each of the weather elements of temperature, relative humidity, wind speed and rainfall. Wind direction is not used in FWI calculations, but it was captured when it was available, to build wind roses. Data counts were used to determine the length of record available and general completeness of each station dataset. Time-series plots for each weather element (see Figure 6) were also used to identify outliers, data source amalgamation or other possible data quality issues.

## Station selection

Using the methodology employed in the pilot study to determine minimum length of record (Pearce *et al.* 2011), the stations were ranked on the basis of their length of record available and completeness (quality) of this record. This was used to determine the order in which station datasets were processed. A length of record/data quality matrix was also prepared (Table 3) to identify the minimum length of record to be used and likely number of stations to be included in the subsequent analyses. In total, the database comprised of 373 stations from the various sources, of which 111 stations were either replicated and/or discontinued, and the other 262 stations were active and labelled as relevant stations (either by their completeness or reliability). Datasets for stations with the greatest length of record (more than 50 years) and highest data quality (>98%) were completed first. Subsequently, datasets for all stations with greater than 18 full calendar years of record were selected to be analysed regardless of their data quality to provide an adequate number of stations. This selection criteria reduced the selected stations from 262 to

144 stations. Subsequently, a further 14 stations (predominantly with shorter records) were added due to being analysed for other work, giving a total of 158 surveyed stations.

## Data substitution

At the completion of the data checking phase, a list of dates for which data were missing was compiled for each weather station. The availability of data from a wide variety of sources, including appropriate<sup>8</sup> alternate stations from MetService, the FENZ fire weather system, and NIWA's National Climate Database (through CliFlo), meant there were several options for completing these missing station records. These included, in order of preference (after Pearce 1996), substitution with values from:

For MetService stations with 3-hourly observations<sup>9</sup>:

- Existing 1200h values for the selected station from MetService records;
- When 0900h and 1500h records were available from the MetService for the selected station, the missing value was substituted with the average of these values for each of the weather variables;
- In the case where one of the adjacent values was missing (i.e., 0900h or 1500h), we calculated the change ratio between 1200 and 1500, or 0900 and 1200, in the six adjacent days (three days before the missing noon value and 3 days after) and estimated the average of these six values. Then, this ratio was used to convert the adjacent value into the noon missing value;
- Where neither of the adjacent values (0900h and 1500h) were available in the MetService data, noon values of an appropriate overlapping weather station in FWSYS or CliFlo were retrieved and used as substitute values.

For stations with hourly or sub-hourly (e.g., 10- or 30-min) data<sup>10</sup>:

- Where sub-hourly (e.g., 1150 and 1210, or 1130 and 1230) or hourly (1100h and 1300h) records were available for the selected station, these values were averaged values as above;
- Where only one of either the sub-hourly (10- or 30-min) or hourly (1100h or 1300h) records for the selected station were available, the value from the time closest was used;
- For instances in which there was no information available for the exact station, for up to three days, substitution of values was done with records from an appropriate neighbouring station contained in either of the different sources available (MetService, FWSYS, and CliFlo). The procedure was based on the substitution criteria outlined in the steps above.

Similarly, rainfall records available for many of the stations included in the analysis were also incomplete. Missing or incomplete data on rainfall was more common than the rest of the variables. Due to the rainfall values used in the FWI System calculations utilising the accumulated rainfall during a period of 24hrs to 1200h NZST, any missing value within the hourly or sub-hourly data for that period of time translates into incomplete rainfall data. Additionally, a few stations were encountered with missing rainfall values for long periods of time (months or even entire years). Fewer options for completing missing rainfall records are available, as despite there being many more rainfall stations in NIWA's Climate Database, few of these have hourly data and the majority of those archived only have 0800h or 0900h synoptic daily rainfall data available.

Nevertheless, the high rates of rainfall data completeness from MetService and the majority of stations in the FENZ fire weather system did allow the substitution of missing or incomplete rainfall values

---

<sup>8</sup> The "appropriateness" of adjacent stations was determined from a combination of proximity, elevation, assessment of microclimates based on the climate regions identified by NZMS (1983b) and fire climate zones described by NIWA (Heydenrych and Salinger 2002), and identified alternates for stations contained in the FENZ fire weather system.

<sup>9</sup> MetService databases usually contain 3-hour record; this source was used as the main source due to its high data quality.

<sup>10</sup> FENZ and NIWA stations from the Fire Weather System typically contain hourly records or, in some cases, 10- or 30-min records; although often having more missing data, this higher observation frequency makes data substitution much more straightforward.

where these occurred. Rainfall substitution criteria was based on (after Pearce 1996), again giving priority to MetService data:

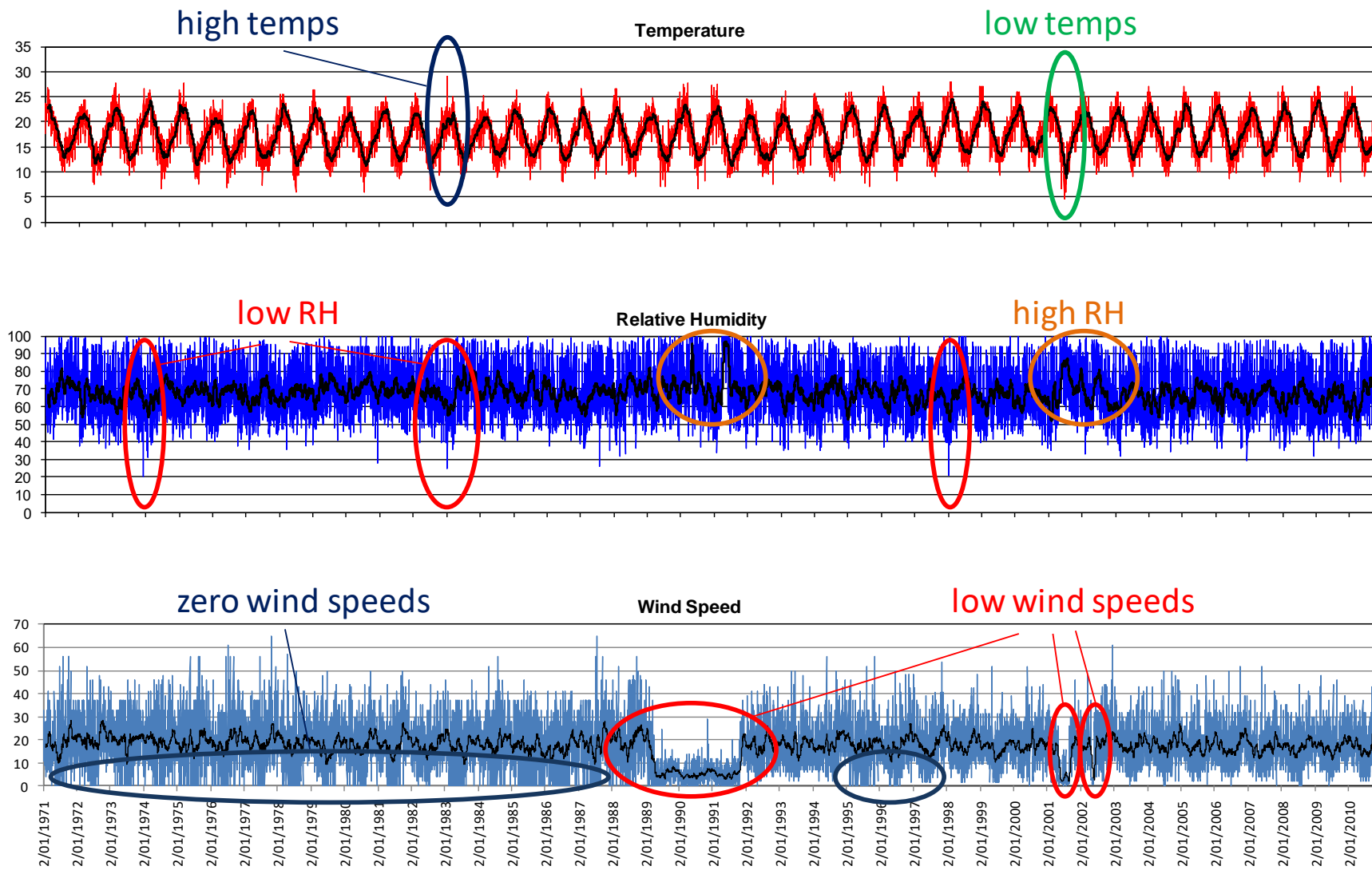
- Replacement of the original data with data for the selected station from the MetService records, with apportionment across 24-hour periods to 1200h if possible based on preceding and subsequent days; or
- Use of NIWA's 24-hr accumulated rainfall product (Observed daily precipitation amount) values for 1200h NZST;
- Substitution with records from the closest appropriate neighbouring station contained in either the MetService, FENZ Fire Weather System or NIWA Climate Database sources;
- Where suitable replacement data over a long period of time (months) could not be located for a particular station, the station was not included in the study.

## Data accuracy checking

In addition to using data counts of each of the weather elements to identify the number of individual weather values or entire daily records missing within each station dataset, station summary statistics and graphs (e.g., Figure 6) were used to verify data accuracy. Maximum and minimum values were used to identify obvious data errors and, together with mean values, were also compared against climate normals contained within the National Climate Database and monthly summaries produced by NIWA and MetService (e.g., NIWA 2023, MetSocNZ 2023). Clearly erroneous values (outliers) were deleted for replacing with appropriate substitute data.

Several errors were identified and corrected in this process including, for example, the addition of substitute wind speed values for several stations using incorrect units (m/s instead of km/h) during a previous gap-filling update. Clearly erroneous data identified during either of these data quality checking procedures were deleted and replaced by substitute data. Questionable values that could not be verified from published data were subjectively compared with data from nearby stations and retained if deemed to be reasonable or deleted if still considered dubious. Similarly, periods of repeated values (e.g., multiple consecutive days of 100% humidity, or zero wind speed) present within some datasets were also deleted for substitution.

The stations that already went through the data substitution process were then checked through to identify any further issues with the weather values (outliers, replications, odd trends, hidden missing values, etc.). From this assessment, each station was rated depending on the complexity of and number of data quality issues presented, based on values from 0 'no issues at all' through to 6 'very difficult to fix' (Table 4). Due to limited time, we focused our efforts on repairing the stations giving priority to those starting from rating 1 with the aim of, at least, transforming stations rated 1, 2 and 3 to rating 0 (100% complete and no issues). After fixing the datasets, 100 stations were brought to 100% completion and had no issues (level 0, see Table 5).



**Figure 6.** Graphs of weather input values being used to determine fire danger ratings, illustrating the visual data quality checking process used to identify errors in the time series.

**Table 4.** Station data quality rating depending on data reliability and difficulty to repair. Numbers were obtained during the data quality checking after the substitution process but before fixing the data.

<b>Data rating</b>	<b>Description</b>	<b>Number of surveyed stations</b>
0	No gaps, no outliers, no apparent trends in graphs	63
1	Up to four daily outliers or missing values	20
2	Up to four small groups of outliers	27
3	A block (up to a month) of outliers or one short odd trend (days) in graphs	13
4	Up to four blocks of outliers in different variables and in different years, or a long odd trend (months) in graphs	5
5	Blocks of missing data before 2013* and/or big issues in graph trends	22
6	Blocks of missing data before AND after 2013	8
	<b>Total</b>	<b>158</b>

\* when the dataset was last updated

**Table 5.** Summary of data availability (quality and length of record) for all fire weather stations for which data was available. Numbers were obtained after the fixing process and before the calculation of FWI.

<b>Length of record (years)</b>	<b>Dataset quality ratings</b>							<b>Total</b>
	<b>Rating 0</b>	<b>Rating 1</b>	<b>Rating 2</b>	<b>Rating 3</b>	<b>Rating 4</b>	<b>Rating 5</b>	<b>Rating 6</b>	
<b>&gt;50</b>	12	1	0	0	0	0	0	<b>13</b>
<b>26 - 50</b>	48	3	3	4	0	7	4	<b>69</b>
<b>16 - 25</b>	29	5	8	6	2	10	4	<b>64</b>
<b>10 - 15</b>	7	0	0	0	1	0	0	<b>8</b>
<b>&lt;10</b>	4	0	0	0	0	0	0	<b>4</b>
<b>Total</b>	<b>100</b>	<b>9</b>	<b>11</b>	<b>10</b>	<b>3</b>	<b>17</b>	<b>8</b>	<b>158</b>

## 2. Fire danger database creation

The completion of the data quality checking, substitution phase, and data accuracy checking resulted in production of a highly reliable fire weather input dataset (with a data quality rating of 0; Table 5) for each weather station.

### FWI calculation

Calculation of FWI System components for each station, using a modification of the equations of Van Wagner and Pickett (1985), was possible once this continuous record of weather inputs had been established. Where available, start-up values obtained from the original FENZ datasets were used to commence calculations. In other cases, start-up values were obtained from the most appropriate alternate station that included data for the start-up period. In many cases, it was recognised that a period of 'spin-up data' prior to the start of the first full calendar year of record would be discarded from the subsequent statistical analysis. The effect of the start-up values would also be reduced by the averaging of the resulting fire danger data over many years, so that while important, these start-up values were not critical to the final analysis.

Often included with commercial FWI calculation software, the Daily Severity Rating (DSR) is a numerical measure which rates the daily fire severity at a particular station based on the FWI value<sup>11</sup>. Severity ratings can be calculated for any desired period by simply summing the individual DSRs and then dividing by the number of days in the chosen time period; e.g., to produce Weekly (WSR), Monthly (MSR) or Seasonal Severity Ratings (SSR) (Harvey *et al.* 1986). In this study, as in previous analyses (Pearce 1996, Pearce *et al.* 2003), the Cumulative Daily Severity Rating (CDSR) was determined by summing the individual daily DSR values for each year of record, and these were then averaged over that period to provide an objective measure by which the severity of fire dangers at individual stations could be compared. [In reality, the cumulative DSR represents the average DSR value multiplied by the number of days in the accumulation period in question, i.e. the full year (365.25 days) or fire season (212.25 days)].

### Fire danger class computation

Using the derived FWI codes and indices for each station, the fire danger classes for each day of record were determined by calculating the potential head fire intensity and allocation of a descriptive term to values using the fuel type criteria and intensity ranges specified by Alexander (1994). But for this analysis, a new Very Extreme (VE) category was added to differentiate the highest intensity values. While this class was not included in Alexander's (1994) original fire danger class criteria developed for New Zealand, it is used in Canada as part of a 6-class fire intensity rank scale that includes a 4000-10,000 kW/m category ('Extreme' fire danger class) and a 'Very Extreme' class for values beyond 10,000 kW/m (Taylor *et al.* 1997, Beck *et al.* 2002). This additional class has been recommended for use in New Zealand by Pearce *et al.* (2016) in recognition that fires can be controlled using large air tankers and back-burning up to higher fire intensities closer to 10,000 kW/m (Table 6). In the revised Extreme class, the peak fire intensities are usually also limited to the head of a fire where it is spreading the fastest, and the lower intensities around the flanks and back of the fire would be within more easily controlled ranges; whereas in the Very Extreme class, fire intensities around the entire fire perimeter are likely to be higher and therefore uncontrollable.

---

<sup>11</sup> Not to be confused with Days Since (Significant) Rain, the Daily Severity Rating (DSR) is determined directly from FWI and therefore relates to fire intensity. It is designed so that the impact of the FWI is reduced at low values but rises sharply as FWI increases, thus better reflecting control difficulty and the amount of work required to suppress a fire as fire intensity increases (Van Wagner 1987).



**Table 6.** Fire danger classes, and associated fire intensity ranges and fire control requirements (adapted from Alexander 1994).

Fire Danger Class	Fire Intensity (kW/m)	Control Requirements
L	< 10	Ground crews with hand tools
M	10-500	Ground crews with back-pack pumps
H	500-2000	Water under pressure and/or heavy machinery
VH	2000-4000	Aircraft using chemical fire suppressants/retardants
E	4000-10,000	Difficult to contain head, can suppress flanks and back of fire
VE	>10,000	Difficult if not impossible to control around most of fire perimeter

In the case of the Forest fuel type, the fire danger class was calculated by inputting the calculated Initial Spread Index (ISI) and Buildup Index (BUI) components of the FWI System into the appropriate equations for fire intensity using the conifer plantation fuel model (C-6) from the Canadian Fire Behaviour Prediction (FBP) System (Forestry Canada Fire Danger Group 1992). Since the seminal work by Alexander (1994), a fire danger class criteria for Scrubland fuels has been produced (Anon 2000, NZ Fire Research 2000) and subsequently refined based on the results of experimental burning trials (Pearce 2001). In this Scrubland criteria, the fire danger class is determined from the ISI component (which is itself based on Fine Fuel Moisture Code (FFMC) and wind speed) and a standard fuel load<sup>12</sup>.

For the Grassland fuel type, fire intensity and the resultant fire danger class are determined from the ISI component, a standard fuel load<sup>13</sup>, and an assessment of the Degree of Curing (% dead) of grassland fuels, using the natural/standing grass (O-1b) fuel type from the FBP System (Forestry Canada Fire Danger Group 1992). The critical Degree of Curing input was obtained by soliciting expert opinion from fire managers with local knowledge of the seasonal trends in grass curing in different parts of the country, based on experience and established methodologies by FENZ (Table 7).

Visual observations of grass curing have only routinely been included within the Fire Weather archive since mid-1996 (and then not for all stations), and no curing information is available prior to this. Visual observations are also known to be highly subjective, and prone to not being regularly updated (Anderson & Pearce 2003), so for these reasons the curing data that is currently captured in FENZ's Fire Weather System could not be used. Alternative methods for assessing the effect of weather and seasonal conditions on the curing of grassland areas are being investigated as part of Scion's (Pairman *et al.* 1995, Baxter & Woodward 1999, Baxter 2000, Anderson & Pearce 2003, Newnham *et al.* 2015) and FENZ's (Clifford *et al.* 2018) grassland curing research, and in the future it is hoped that these will enable improved retrospective estimation of the daily or monthly Degree of Curing values needed for determination of the Grassland fire danger class for these climatological records that better accounts for seasonal changes and year-to-year variation.

<sup>12</sup> Assumed to be 20 t/ha for Scrubland (Pearce 2001).

<sup>13</sup> Assumed to be 3.5 t/ha for Grassland (Alexander 1994).

The daily FWI and fire danger class values for each station were automatically calculated using the software R (R core Team 2021) along with the packages 'readxl' (Wickham & Bryan 2019) and 'dplyr' (Wickham *et al.* 2021). This process involved the reproduction of the equations to calculate the FWI indices in a script, while a second script retrieved information from the equations as functions. Thus, the second R script took as input for the code a folder with station databases in Excel files and the first R script with the equations. The output for the second script was a csv file of daily data per station. The script considered the initial FFMC, DMC and DC values of each database (individual weather station) and the specific curing values by subregion to calculate the Grassland fire danger class (Table 8).

**Table 7.** Seasonal curing values for each region and subzone of New Zealand, obtained from fire manager expert opinion.

Curing region	Curing subregion	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Northland	Zone 1 Far North <sup>5</sup>	45	45	50	55	70	75	80	80	75	50	40	40
	Zone 2 Far North <sup>5</sup>	40	40	45	50	65	70	75	80	70	50	40	40
	Whangarei <sup>5</sup>	40	40	45	50	60	65	70	80	70	50	40	40
	Kaipara <sup>5</sup>	40	40	50	50	60	65	70	80	75	65	50	40
Auckland	Mainland <sup>4</sup>	30	40	45	50	65	70	75	80	80	60	40	40
	Coastal <sup>4</sup>	30	45	55	60	70	75	80	90	80	60	50	40
Waikato	Thames / Coromandel <sup>6</sup>	40	40	40	40	40	60	80	80	60	40	40	40
	Hauraki/Matamata Piako/Waikato <sup>7</sup>	40	40	40	40	40	60	70	70	60	40	40	40
	Waipa/Otorohanga/Waitomo/ South Waikato <sup>7</sup>	40	40	40	40	40	60	70	70	60	40	40	40
Central North Island	Bay of Plenty coastal <sup>8</sup>	50	65	70	75	85	85	70	75	80	75	70	60
	Central NI inland <sup>8</sup>	40	40	40	40	40	60	70	70	60	40	40	40
Taranaki	Taranaki <sup>9</sup>	25	25	35	40	40	50	55	75	75	50	40	30
	Whanganui <sup>9</sup>	25	25	35	40	40	50	65	80	80	60	40	30
	Ruapehu <sup>9</sup>	25	25	30	35	40	45	60	70	60	40	30	25
Wanganui/Manawatu	Rangitikei <sup>10</sup>	40	40	40	60	70	80	90	95	90	80	60	40
	Manawatu <sup>10</sup>	40	40	40	50	60	70	85	90	80	60	40	40
	Palmerston North <sup>10</sup>	40	40	40	40	50	60	80	90	70	50	40	40
	Horowhenua <sup>10</sup>	40	40	40	40	50	60	80	90	70	50	40	40
Eastern	Tairāwhiti (Gisborne) <sup>11</sup>	50	65	70	75	85	85	70	75	80	75	70	60
	Wairoa <sup>12</sup>	30	30	30	40	50	60	70	70	60	50	30	30
	Coastal Wairoa / Mahia <sup>12</sup>	50	50	50	50	60	70	90	90	80	70	60	50
	Hastings / Napier <sup>12</sup>	40	40	40	50	60	70	90	95	80	70	50	40
	Central Hawkes Bay <sup>12</sup>	40	40	40	60	70	80	95	95	80	70	50	40
Wairarapa	Tararua (ex Wairarapa) <sup>13</sup>	40	40	40	50	55	60	70	75	75	70	50	45
	Wairarapa <sup>13</sup>	45	45	50	65	70	80	90	95	95	80	60	50
Wellington	Wellington East <sup>14</sup>	20	20	30	40	50	60	60	70	50	30	20	20
	Wellington West <sup>14</sup>	20	20	30	40	40	50	60	70	60	40	20	20
Chathams	East/West <sup>14</sup>	20	20	20	20	30	40	50	60	50	30	20	20

**Table 7. (cont.)**

<b>Curing region</b>	<b>Curing subregion</b>	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Nelson	Nelson/Tasman	40	40	50	65	70	80	80	90	95	80	60	50
Marlborough	Marlborough/Kaikoura	45	55	65	70	80	85	90	95	80	65	55	50
West Coast	Buller	10	10	20	20	30	30	40	40	40	30	20	20
	Grey	10	10	20	20	30	30	30	30	30	20	10	10
	Westland	10	10	20	20	30	30	30	30	30	20	10	10
Southland	Northern Southland <sup>3</sup>	50	40	40	45	50	60	70	70	60	60	55	50
	Coastal Southland <sup>3</sup>	40	30	30	35	40	50	60	60	50	50	45	40
Otago	Inland Otago <sup>2</sup>	60	70	60	40	40	70	80	90	80	60	50	50
	Coastal Otago <sup>2</sup>	30	40	50	50	40	60	60	70	60	60	30	30
Canterbury	Hill & high Country <sup>1</sup>	60	60	70	70	70	80	80	80	70	60	60	50
	Port Hills	30	35	40	55	65	80	85	90	80	65	50	30
	Foothills (N of Rakaia) <sup>1</sup>	15	25	35	40	65	75	80	90	90	70	55	25
	Foothills (S of Rakaia) <sup>1</sup>	15	15	25	25	40	50	60	80	80	55	40	15
	Plains <sup>1</sup>	10	10	15	25	25	40	40	50	40	30	20	10
	Coastal <sup>1</sup>	10	10	20	30	40	50	60	60	60	50	40	30

Sources:

<sup>1</sup>B. Jaines & R. Hands (based on tussock); <sup>2</sup>M. Mawhinney; <sup>3</sup>T. Bierlin; <sup>4</sup>T. Harre; <sup>5</sup>M. Taylor; <sup>6</sup>I. Wellings; <sup>7</sup>P. Shaw & M. Cook; <sup>8</sup>G. Pearce; <sup>9</sup>N. Dravitzki;

<sup>10</sup>B. Shanks; <sup>11</sup>R. Dever; <sup>12</sup>T. Mitchell; <sup>13</sup>P. Wishnowsky; <sup>14</sup>G. Thompson

**Table 8.** List of stations and corresponding regions/subregions that have a determined Degree of Curing. Note that not all of these were analysed on this study.

Station ID	Station full name	Curing region	Curing Subregion
AKL	Auckland Aero	Auckland	Mainland
Albury	Albury Raws	Canterbury	Foothills (S of Rakaia)
APA	Taupo Aero	Central North Island	Central NI inland
APP	Aupouri Peninsula Raws	Northland	Zone 1 Far North
ATH	Athol Raws	Waikato	Waipa/Otorohanga/Waitomo/ South Waikato
ASH	Ashburton Plains Raws	Canterbury	Plains
Ashburton_Aero	Ashburton Aero Raws	Canterbury	Coastal
ASY	Ashley Raws	Canterbury	Foothills (N of Rakaia)
AWV	Awatere Valley, Dashwood Raws	Marlborough	Marlborough/Kaikoura
Baring_Head	Baring Head	Wairarapa	Wairarapa
BEL	Belmont Raws	Wellington	Wellington West
BML	Balmoral Raws	Canterbury	Foothills (N of Rakaia)
BMT	Blackmount Raws	Southland	Western
BPO	Big Pokororo Raws	Nelson	Nelson/Tasman
BRP	Bridge Pa Raws	Eastern	Hastings/Napier
BTL	Bottle Lake Forest Raws	Canterbury	Coastal
Bucklands	Bucklands Raws	Otago	Coastal Otago
BUR	Burnham Raws	Canterbury	Plains
Butchers_Dam	Butchers Dam Raws	Otago	Inland Otago
CAN	Cannington Raws	Canterbury	Foothills (S of Rakaia)
Cape_Campbell	Cape Campbell SYNOP	Marlborough	Marlborough/Kaikoura
Cass	Cass Raws	Canterbury	Hill & High Country
Cattle_Creek	Cattle Creek Raws	Canterbury	Foothills (S of Rakaia)
CDT	Cornwallis Depot Raws	Auckland	Mainland
CHA	Christchurch Aero SYNOP	Canterbury	Plains
Cheviot	Cheviot Raws	Canterbury	Coastal
Clayton	Clayton Raws	Canterbury	Foothills (S of Rakaia)
CLV	Clevedon Coast Raws	Auckland	Coastal
CLY	Clyde 2 Ews	Otago	Inland Otago
CPX	Castlepoint SYNOP	Wairarapa	Wairarapa
CRK	Cricklewood Raws	Eastern	Wairoa
CRM	Cromwell	Otago	Inland Otago
CRT	Crownthorpe Raws	Eastern	Hastings/Napier
CYB	Glenledi Raws	Otago	Coastal Otago
DAR	Dargaville Raws	Northland	Kaipara
DNA	Dunedin Aero SYNOP	Otago	Coastal Otago
DNP	Dansey Pass Raws	Otago	Inland Otago
DOV	Dovedale Raws	Nelson	Nelson/Tasman
Edendale	Edendale Raws	Southland	Coastal Southland
ELT	Eltham Raws	Taranaki	Taranaki
FPL	Forest Plains Raws/Darfield	Canterbury	Plains

**Table 8.** (cont.)

<b>Station ID</b>	<b>Station full name</b>	<b>Curing region</b>	<b>Curing Subregion</b>
GAL	Galatea Raws	Central North Island	Bay of Plenty coastal
GAR	Garston Raws	Southland	Northern Southland
GBI	Great Barrier Island Raws	Auckland	Coastal
GCE	Gore Aws	Southland	Northern Southland
GDE	Goudies 2 Raws	Central North Island	Central NI inland
Geraldine_Forest	Geraldine Forest Raws	Canterbury	Foothills (S of Rakaia)
GLD	Glendhu Raws	Otago	Coastal Otago
Glenaan_Station	Glenaan Station Raws	Canterbury	Hill & High Country
Glentanner	Glentanner Raws	Canterbury	Hill & High Country
GSA	Gisborne Aero	Eastern	Tairāwhiti (Gisborne)
GWA	Gwavas Raws	Eastern	Central Hawkes Bay
HAK	Hakatere Raws	Canterbury	Hill & High Country
HAN	Hanmer Forest Ews	Canterbury	Foothills (N of Rakaia)
HAU	Haurangi Raws	Wairarapa	Wairarapa
HAW	Hawera Aws	Taranaki	Taranaki
Hawea_Flat	Hawea Flat Raws	Otago	Inland Otago
HIR	Hira Raws	Nelson	Nelson/Tasman
HIX	Hicks Bay	Eastern	Tairāwhiti (Gisborne)
HKA	Hokitika SYNOP	West Coast	Westland
HNA	Hamilton Aero	Waikato	Hauraki/Matamata Piako/ Waikato
HOK	Hokianga Raws	Northland	Zone 2 Far North
HRB	Herbert Raws	Otago	Coastal Otago
HTX	Haast SYNOP	West Coast	Westland
HWT	Holdsworth Station Raws	Wairarapa	Wairarapa
KAI	Kaipara Raws	Auckland	Coastal
KAW	Kawerau Raws	Central North Island	Bay of Plenty coastal
KHD	Kenepuru Head Raws	Marlborough	Marlborough/Kaikoura
KIX	Kaikoura SYNOP	Marlborough	Marlborough/Kaikoura
KOE	Kaikohe Raws	Northland	Zone 2 Far North
KX	Kaitaia Observatory	Northland	Zone 1 Far North
KWK	Kaiwaka Raws	Eastern	Hastings/Napier
LAE	Lauder Ews	Otago	Inland Otago
Lake_Tekapo_Ews	Lake Tekapo Ews	Canterbury	Hill & High Country
LBX	Le Bons Bay Aws	Canterbury	Coastal
LES/LEE	Leeston Raws	Canterbury	Coastal
LEV	Lees Valley Raws	Canterbury	Foothills (N of Rakaia)
LNK	Levin Aws	Wanganui/Manawatu	Horowhenua
LUX	Lumsden Aws	Southland	Northern Southland
MAH	Mahurangi Forest Raws	Auckland	Mainland
Mcleans	Mcleans Raws	Canterbury	Plains
MCR	Macrae's Raws	Otago	Coastal Otago
MHX	Mahia	Eastern	Coastal Wairoa/Mahia
MIN	Minginui Raws	Central North Island	Central NI inland

**Table 8.** (cont.)

<b>Station ID</b>	<b>Station full name</b>	<b>Curing region</b>	<b>Curing Subregion</b>
MKA	Mangakahia Raws	Northland	Whangarei
MLX	Molesworth Raws	Marlborough	Marlborough/Kaikoura
MOA	Manapouri Aero Aws	Southland	Western
MOS	Barnhill Raws	Southland	Northern Southland
MSD	Milford Sound Raws	Southland	Western
MSX	Masterton Aero Aws	Wairarapa	Wairarapa
MTC	Mount Cook	Canterbury	Hill & High Country
MTE	Matea Raws	Central North Island	Central NI inland
MTK	Motukarara Raws	Canterbury	Coastal
MTS	Mount Somers Raws	Canterbury	Foothills (S of Rakaia)
MUR	Murchison Raws	Nelson	Nelson/Tasman
NAT	National Park Raws	Central North Island	Central NI inland
NCR	Nelson Creek Raws	West Coast	Grey
NGX	Nugget Point Aws	Otago	Coastal Otago
NMU	Ngaumu	Wairarapa	Wairarapa
NPA	New Plymouth SYNOP	Taranaki	Taranaki
NRA	Napier Aero SYNOP	Eastern	Hastings/Napier
NRB	Naseby Forest Raws	Otago	Inland Otago
NSA	Nelson Aero	Nelson	Nelson/Tasman
NTA	Ngamatea Raws	Wanganui/Manawatu	Rangitikei
NVA	Invercargill Aero SYNOP	Southland	Coastal Southland
NWX	Ngawihi	Wairarapa	Wairarapa
Oamaru_North	Oamaru North Raws	Otago	Coastal Otago
Omihi	Omihi Raws	Canterbury	Coastal
ONG	Ongaonga Raws	Eastern	Central Hawkes Bay
OKT	Okato Raws	Taranaki	Taranaki
OPO	Opouteke Raws	Northland	Kaipara
OSN	Opua Bay Raws	Marlborough	Marlborough/Kaikoura
Otama	Otama Raws	Southland	Northern Southland
Otematata	Otematata Raws	Otago	Inland Otago
OUA	Oamaru Aero	Otago	Coastal Otago
Oxford2	Oxford 2 Raws	Canterbury	Plains
Patumahoe	Patumahoe Raws	Auckland	Mainland
PAX	Paeroa	Waikato	Hauraki/Matamata Piako/ Waikato
PEX	Purerua	Northland	Zone 2 Far North
PKA	Pukaki Aero Raws	Canterbury	Hill & High Country
Pukaki_SFWX2	Pukaki SFWx2 - Scion	Canterbury	Hill & High Country
PMA	Palmerston North SYNOP	Wanganui/Manawatu	Palmerston North
PPA	Paraparaumu Aero SYNOP	Wellington	Wellington West
PTU	Pouto Raws	Northland	Kaipara
PYP	Puysegur Point Aws	Southland	Western
QNA	Queenstown Aero	Otago	Inland Otago
RAI	Rai Valley Raws	Nelson	Nelson/Tasman
RAU	Raumi Raws	Wanganui/Manawatu	Rangitikei

**Table 8.** (cont.)

<b>Station ID</b>	<b>Station full name</b>	<b>Curing region</b>	<b>Curing Subregion</b>
REF	Reefton Ews	West Coast	Buller
RFP	Remutaka Forest Park Raws	Wellington	Wellington East
RHU	Rotoehu Raws	Central North Island	Bay of Plenty coastal
RLY	Ranfurly Ews	Otago	Inland Otago
RNP	Rock And Pillar Raws	Otago	Inland Otago
ROA	Rotorua Aero Aws	Central North Island	Bay of Plenty coastal
ROT	Rotoaira Raws	Central North Island	Central NI inland
RUX	Waiouru Airstrip Aws	Taranaki	Ruapehu
Salt_Water	Salt Water Creek Raws	Canterbury	Coastal
SCI	Secretary Island Aws	Southland	Western
SDN	Snowdon Raws	Canterbury	Foothills (N of Rakaia)
SLP	Slopedown Raws	Southland	Coastal Southland
Southbridge	Southbridge Raws	Canterbury	Coastal
Stewart_Island	Stewart Island Raws	Southland	Coastal Southland
STO	Stony Creek Raws	Wairarapa	Wairarapa
SWC	South West Cape Aws	Southland	Coastal Southland
TAH	Tahorakuri Raws	Central North Island	Central NI inland
Tanner_Road	Tanner Road Raws	Southland	Coastal Southland
TEH	Te Horo Raws	Wellington	Wellington West
TEK	Tekapo Raws	Canterbury	Hill & High Country
Tekapo_Ews	Tekapo Ews	Canterbury	Hill & High Country
TEP	Te Pohue Raws	Eastern	Hastings/Napier
TGA	Tauranga Aero SYNOP	Central North Island	Bay of Plenty coastal
THA	Te Haroto Raws	Eastern	Hastings/Napier
THE	Tara Hills Aws	Canterbury	Hill & High Country
Tisbury	Tisbury Raws	Southland	Coastal Southland
Toko_Mouth	Toko Mouth Raws	Otago	Coastal Otago
TPE	Te Puke Ews	Central North Island	Bay of Plenty coastal
TPN	Tapanui Raws	Otago	Inland Otago
TPU	Tapuae Raws	Wanganui/Manawatu	Manawatu
TRQ	Traquair Raws	Otago	Coastal Otago
TRX	Port Taharoa Aws	Waikato	Hauraki/Matamata Piako/ Waikato
TTB	Titahi Bay Raws	Wellington	Wellington West
TUA	Timaru Aero SYNOP	Canterbury	Coastal
TUT	Tuatapere Raws	Southland	Coastal Southland
Waeranga_Raws	Waeranga Raws	Waikato	Hauraki/Matamata Piako/ Waikato
Waimate_Coastal	Waimate Coastal Raws	Canterbury	Coastal
Waimate_Forest	Waimate Forest Raws	Canterbury	Foothills (S of Rakaia)
Waitomo	Waitomo Raws	Waikato	Waipa/Otorohanga/Waitomo/ South Waikato
WAF	Waimarino Forest Raws	Taranaki	Ruapehu
WAH	Waihau Raws	Eastern	Hastings/Napier
Waipahi	Waipahi Raws	Otago	Coastal Otago
Waharau	Waharau Raws	Auckland	Mainland



<b>Table 8.</b> <i>(cont.)</i> Station ID	<b>Station full name</b>	<b>Curing region</b>	<b>Curing Subregion</b>
Wanganui	Wanganui, Spriggens Park Ews	Taranaki	Whanganui
WAO	Waione	Wairarapa	Tararua (ex Wairarapa)
WAV	Waverly Raws	Taranaki	Taranaki
WBA	Blenheim Aero Aws	Marlborough	Marlborough/Kaikoura
WBD	Western Boundary Raws	Nelson	Nelson/Tasman
WDH	Woodhill Raws	Auckland	Mainland
West_Melton	West Melton Raws	Canterbury	Plains
WFA	Wanaka Aero Raws	Otago	Inland Otago
Wanaka_Aero_Aws	Wanaka Aero Aws	Otago	Inland Otago
WGF	Waitangi Forest Raws	Northland	Zone 2 Far North
WGM	Whangamata Raws	Waikato	Thames/Coromandel
WGO	Waihi Gold Raws	Central North Island	Bay of Plenty coastal
WHB	Waihau Bay Raws	Central North Island	Bay of Plenty coastal
WHG	Marco Raws	Taranaki	Taranaki
WHR	Waihaorunga Raws	Canterbury	Foothills (S of Rakaia)
Wilderness	Wilderness Raws	Southland	Western
WKA	Whakatane Aero Aws	Central North Island	Bay of Plenty coastal
WKB	Waikawau Bay Raws	Waikato	Thames/Coromandel
WNA	Wellington Aero SYNOP	Wellington	Wellington West
WND	Windsor Ews	Otago	Coastal Otago
WPK	WPK	Eastern	Central Hawkes Bay
WRA	Whangarei Aero Aws	Northland	Whangarei
WRY	Wreys Bush Raws	Southland	Coastal Southland
WSA	Westport Aero Aws	West Coast	Buller
WTA	Whitianga Aero	Waikato	Thames/Coromandel
WTF	Waitarere Forest Raws	Wanganui/Manawatu	Horowhenua
WUA	Wanganui Aero	Taranaki	Whanganui

## Construction of wind roses

New to previous fire danger climatology studies, wind roses were built by summarising both wind direction and wind speeds. Wind roses are a very useful way of summarising wind data, particularly to visualize seasonal variations in wind speed and wind direction.

In order to build the wind roses, a separate R code was written using the package ‘openair’ (Carslaw & Ropkins 2012) with the function ‘windRose’ as part of the package. The result was the plotting of three wind roses, summarising the daily (1200 NZST) wind speed and wind direction data for each station per

- 1) full year,
- 2) fire season, and
- 3) month.

The specifications for the wind roses were: the division of wind values in 16 direction sectors (intervals of 22.5° each); and seven different wind speed categories: 0 to 5, 5 to 10, 10 to 20, 20 to 30, 30 to 40, 40 to 50, and >50 km/h. The plots show the proportion (here represented as a percentage) of time that the wind is from a certain angle and wind speed range, also known as ‘frequencies’. Additionally, each plot shows the mean overall value and the percentage of calm days (when wind speed is 0) relative to the total of values.

Finally, each plot also depicts the initial and final dates in which data were available. This is important, as wind direction observations were not always available in comparison with the other weather values. As a consequence, the timeframe of the wind roses often was shorter than the rest of the daily weather data.

### 3. Statistical analysis and output table production

On completion of a database of weather inputs and FWI System codes and indices for each station, an analysis of long-term descriptive statistics was carried out using a third R script and the packages ‘readxl’, ‘dplyr’, and ‘lubridate’ (Grolemund & Wickham 2011). Statistical analysis involved calculation of monthly, seasonal and annual mean, median and extreme (maximum and minimum) values for each of the weather and fire danger components for each weather station. Computation of fire danger class frequencies for Forest, Scrubland and Grassland was achieved by counting and averaging the data for each period of analysis by fire danger class. These statistics were then output as a summary table in a csv file for each weather station.

Finally, the summary table for each station was converted into a pdf file, with the formatting standardised similar to that used by Pearce *et al.* (2003) and the wind roses added, by using Rmarkdown (Allaire *et al.* 2021) with the packages ‘dplyr’, ‘knitr’ (Xie 2021), ‘flextable’ (Gohel 2021a), and ‘officer’ (Gohel 2021b) (see **Appendix 2**).

# Results and Discussion

---

## Summary tables

Tabular summaries were produced for 100 of the 158 stations for which data was available, and these are contained as Appendix 2. The tabular summaries for each station follow the same general format as that used by Pearce (1996), with long-term average and extreme values for each of the weather and FWI System components summarised for each month, the fire season months (Oct-Apr) and year as a whole (see Figure 7a). The summary tables also include fire danger class frequencies for both the Forest and Scrubland vegetation types, also by month, fire season and year (see Figure 7b). In addition, we obtained the first comprehensive seasonal Degree of Curing information for each station and hence, were also able to calculate Grassland fire danger class frequencies.

As in previous analyses (Pearce 1996, Pearce *et al.* 2003), in the summary tables there has been included values for the ‘fire season’ treated as a distinct analysis period (*cf.* individual months and the year as a whole). Defined as the seven-month period from October 1<sup>st</sup> to April 30<sup>th</sup>, the ‘fire season’ can often provide a more meaningful indicator of the general fire climate of a region for the period when fires most commonly occur than either the annual or individual monthly values. However, in many parts of the country, fires can occur in any month of the year, and there is a danger in only considering a calendar-based ‘fire season’. The production of a comprehensive fire danger database provides an opportunity to test the validity of current fire season start and end dates, and to better redefine a more appropriate period where necessary.

Again, similarly to Pearce *et al.* (2003), the long-term average values presented for each of the weather elements and FWI System components within the summary tables are expressed as both a *median* value as well as the more common *mean* (average) value. The arithmetic mean is the average obtained by summing the individual values and dividing by the number of values, whereas the median is the middle value when data are arranged in order of magnitude. At the time the first station fire climate summaries were produced, Pearce (1996) questioned the validity of using the mean as a long-term averaging measure, noting that the mean can be strongly influenced by extreme values. For this reason, 20- or 30-year periods are commonly used for the determination of climatological ‘normals’ (e.g., for temperature or rainfall). In addition, Van Wagner and Pickett (1985) have commented that the FWI System components (and the FWI itself, in particular) “are not considered suitable for averaging” and “the DSR is the function of FWI specifically designed for averaging”. For wind speed, rainfall, and FWI System components such as the ISI and FWI, there is a much greater occurrence of low values than higher ones, so that their frequency distributions are skewed to the left; similarly, the distribution of FFMC values is skewed to the right towards higher values<sup>14</sup>. In these cases, the median is a more robust measure of central tendency than the mean, and this is likely to improve as the number of values (i.e., length of record) decreases. In contrast to the last Fire Danger Climatology (Pearce *et al.* 2003) where the majority of station datasets comprised less than 10 years of record, here more than half of the stations contain more than 26 years of record (see Table 5), which allows for useful estimates of long-term tendencies.

By contrasting results for 16 key stations with previous studies we found that, overall, only four of these (AKL, NSA, ROA and KX) have values similar to those obtained in the 1996 study (Pearce 1996), the 2003 study (Pearce *et al.* 2003), and also with long-term averages for the weather elements published elsewhere (NZMS 1983a, 1986) (Tables 9 & 10).

---

<sup>14</sup> Where a frequency distribution is more normally distributed (i.e., bell-shaped), as in the case of temperature or relative humidity, there is likely to be little difference between the calculated mean and median values.

													North Canterbury	
Station name and code		Period of records (in full calendar years)						Length of record (in whole years)						
Station Name: Christchurch Aero SYNOP (CHA)		Period: 1961-01-01 - 2021-07-01						Length of record: 60 years						
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, °C</b>														
mean	10.5	12.8	15.1	17.0	18.9	14.9	17.8						14.9	17.8
median	10.0	12.2	15.0	16.3	18.1	15.0	17.2						15.0	17.2
max	21.6	25.5	29.0	30.3	34.0	39.0	39.0						39.0	39.0
min	7.7	9.0	8.0	4.0	2.0	0.0	1.0	0.4	1.0	2.7	5.0	9.0	7.0	2.7
<b>Relative Humidity, %</b>														
mean	56.6	58.8	61.6	65.2	69.8	73.8	73.3						69.8	73.3
median	58	60	63	66	70	74	74						70	74
max	100	100	100	100	100	100	100						100	100
min	7.0	12.0	13.0	19.0	22.0	21.0	28.0						7.0	28.0
<b>Wind Speed, km/h</b>														
mean	21.6	20.5	19.2	16.9	15.1	13.2	13.7						16.9	13.7
median	20.4	20.0	18.5	15.0	13.0	11.1	11.1						18.5	11.1
max	57.4	61.0	61.1	70.4	55.6	59.0	63.0	63.0	66.7	61.1	64.8	55.6	70.4	70.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimetres</b>														
mean	2.3	1.9	1.4	1.5	1.6	1.5	1.6						1.7	1.6
median	0	0	0	0	0	0	0						0	0
max	77.0	76.8	41.0	48.0	56.5	79.5	110.4	110.4	79.5	56.5	48.0	41.0	76.8	77.0
min	0	0	0	0	0	0	0						0	0
<b>Monthly Rainfall, millimetres</b>														
mean	43.6	40.1	52.3	56.2	60.2	64.8	66.5	66.5	62.0	48.8	46.5	52.2	47.5	47.5
median	138.9	121.4	185.0	198.1	198.1	198.1	198.1	198.1	198.1	117.5	148.7	399.8	196.1	196.1
max	3.2	4.9	3.4	6.8	6.8	6.8	6.8	6.8	6.8	1.4	1.0	1.0	1.0	1.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Seasonal Rainfall, millimetres</b>														
mean													625.5	331.1
max													953.4	615.8
min													306.0	200.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	81.3	80.9	78.0	75.0	69.8	64.3	64.3						75.0	64.3
median	85.7	85.3	84.2	82.5	78.9	72.9	72.9						82.0	84.5
max	98.0	98.0	95.1	93.4	92.4	91.3	90.4	91.6	91.6	92.1	95.0	95.8	97.0	98.0
min	11.0	5.6	1.4	1.4	0.7	0.8	0.8	0.8	1.0	0.2	7.2	2.3	9.9	0.2
<b>Duff Moisture Code, DMC</b>														
mean	35.4	39.6	29.7	21.2	11.4	5.0	3.3	5.9	11.7	18.8	25.3	30.6	19.8	28.6
median	29.8	34.1	23.7	16.7	8.2	3.1	2.5	5.1	10.5	14.7	22.0	26.7	13.6	23.3
max	162.4	163.4	104.7	93.7	86.5	39.8	25.0	27.3	55.2	94.8	100.6	115.5	163.4	163.4
min	0.5	2.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	0.0	0.0
<b>Drought Code, DC</b>														
mean	373.6	453.7	450.2	416.4	326.2	221.2	151.1	114.3	106.1	127.4	188.9	282.6	267.5	327.1
median	373.4	449.2	452.6	419.5	322.6	217.7	120.4	91.3	80.9	103.8	179.4	277.3	246.7	317.1
max	741.6	795.2	804.1	785.4	752.6	604.5	533.5	382.7	407.2	508.5	544.0	731.8	804.1	804.1
min	6.0	134.5	36.4	12.6	1.5	0.3	0.1	0.0	0.7	2.2	5.8	25.5	0.0	2.2
<b>Initial Spread Index, ISI</b>														
mean	9.1	7.6	6.4	4.5	3.0	1.9	1.9	3.0	4.9	6.6	8.1	8.8	5.5	7.3
median	6.3	5.8	4.5	3.1	1.9	1.2	1.3	2.0	3.3	4.4	5.4	5.5	3.2	4.9
max	95.3	68.5	69.1	51.2	39.4	55.3	41.0	42.5	60.3	71.3	74.2	94.6	95.3	95.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	55.0	62.7	49.5	36.4	20.1	9.0	5.9	9.3	16.3	25.5	36.0	45.9	30.9	44.3
median	48.5	56.8	41.8	30.0	14.9	5.8	4.5	8.2	15.1	20.8	32.9	42.5	22.3	37.6
max	208.6	211.1	148.1	132.2	134.5	51.6	42.9	37.0	58.0	129.2	131.9	145.5	211.1	211.1
min	0.9	5.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
median	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
max	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
min	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
<b>Daily Severity Rating, DSR</b>														
mean	7.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
median	3.9	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
max	120.8	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	237.5	192.4	148.8	71.9	27.1	11.1	5.5	11.1	21.1	31.1	41.1	51.1	31.1	41.1
median	726.7	748.7	511.5	308.4	110.1	41.1	21.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
max	39.5	45.0	10.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1195.5	1106.8
max													2654.8	2637.3
min													550.6	382.8

Figure 7a. Example of summary output table containing summary statistics for weather elements and FWI System components, with descriptive comments on statistics and format.

Station Name: Christchurch Aero SYNOP      Period: 1961-01-01 - 2021-07-01      Length of record: 60 years  
(CHA)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	5.0			12.2	21.2	26.7	29.8	25.7	17.5	12.6	7.7	7.0	178.4	57.1
max										30	20	26	233	104
min										0	0	0	121	24
<b>Moderate</b>														
mean	10.0	9.6	11.3	12.8	8.6	3.0	1.2	3.1	10.5	12.6	12.7	10.3	107.4	75.0
max	18	17	20	23	25					23	23	23	157	106
min	2	2	1	1	0					0	0	0	67	49
<b>High</b>														
mean	7.3	7.0	5.6	3.3	0.8								41.6	39.0
max	15	14	14	13	6	4	1	3	10	11	14	13	70	62
min	1	1	0	0	0	0							0	23
<b>Very High</b>														
mean	3.4	3.3	2.2	1.0	0.2	0.0							16.2	16.2
max	9	9	9	5	2	0							31	31
min	0	0	0	0	0	0	0	0	0	0	0	0	5	3
<b>Extreme</b>														
mean	3.4	2.5	2.3	0.8	0.2	0.0	0.0	0.0	0.1	0.8	1.8	3.0	14.9	14.7
max	11	12	8	6	4	0	0	0	4	7	10	10	31	39
min	0									0	0	0	2	0
<b>Very Extreme</b>														
mean	1.9											1.4	1.3	6.2
max	13											7	10	32
min	0	0	0									0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Canterbury (Plains)														
Curing%	40	50	40	30	20	10	10	10	15	25	25	40		
<b>Low</b>														
mean													0.8	22.1
max													22	39
min													0	9
<b>Moderate</b>														
mean	17.2	14.7	20.1	22.1	20.4	11.2	11.4	17.4	21.9	22.1	20.7	16.9	216.1	133.7
max	25	23	26	28	27	26	22	27	28	28	28	25	245	153
min	6	7	11	12	10	1	1	8	14	9	13	9	180	103
<b>High</b>														
mean	9.5	10.1	6.3	2.6	0.5	0.1	0.0	0.1	1.2	4.4	5.1	9.4	49.5	47.5
max	17	18	12	8	4	1	2	2	4	19	10	16	78	69
min	1	2	1	0	0	0	0	0	0	0	1	0	29	28
<b>Very High</b>														
mean	2.0	1.4	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.8	2.0	7.6	7.7
max	9	6	6	2	0	0	0	0	0	3	6	6	22	23
min	0	0	0	0	0	0	0	0	0	0	0	0	2	1
<b>Extreme</b>														
mean	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	1.2
max	3	2	2	0	0	0	0	0	0	0	0	1	7	6
min	0												0	0
<b>Very Extreme</b>														
mean	0												0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	2.6	2.5	3.9	4.9	7.4	9.8	10.0	7.5	5.0	4.2	3.6	3.3	64.5	24.7
max	10	7	12	15	18	25	20	18	17	10	12	8	91	42
min	0	0	0	0	0	0	0	0	0	0	0	0	40	12
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.5	0.0
max	0	0	0	2	1	1	2	1	0	0	0	0	4	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.8	0.8	1.7	2.2	3.7	5.7	5.7	3.7	2.0	1.4	1.2	1.2	30.0	9.2
max	4	3	7	8	10	12	12	8	6	5	5	6	50	19
min	0	0	0	0	0	0	1	0	0	0	0	0	14	3
<b>Very High</b>														
mean	1.9	1.4	2.5	3.5	5.5	5.0	6.3	4.8	3.4	2.7	2.1	1.9	41.2	16.0
max	6	4	7	10	11	12	13	13	7	7	7	6	55	24
min	0	0	0	0	1	1	1	0	0	0	0	0	28	8
<b>Extreme</b>														
mean	5.3	5.5	6.8	8.3	8.2	6.1	6.2	8.4	7.9	6.8	5.0	5.4	79.8	42.7
max	11	14	13	17	19	17	14	15	13	15	12	14	106	58
min	2	1	2	2	3	0	0	2	3	1	0	1	51	23
<b>Very Extreme</b>														
mean	20.4	18.0	16.2	11.0	6.0	3.3	2.8	6.5	11.8	16.0	18.0	19.2	149.3	115.6

Figure 7b. Example of summary output table containing summary statistics for Forest and Scrubland fire danger class frequencies, with descriptive comments on statistics and format.

The addition of extra years to the lengths of record analysed in the present study has resulted in changes to the CDSR values and combined number of days of Very High, Extreme and Very Extreme Forest fire danger (VH+E+VE FFDC) over those produced in the previous studies. It is worth reiterating that this time, an extra 'Very Extreme' category has been added for fire danger as suggested in Pearce *et al.* (2016). However, values are still comparable with previous studies as the combination of values for VH (2,000-4,000 kW/m) plus E (>4,000 kW/m) in Pearce (1996) and Pearce *et al.* (2003) is equivalent to the combination of values for VH (2,000-4,000 kW/m) plus E (4,000-10,000 kW/m) plus VE (>10,000 kW/m) in this study.

In this comparison, five stations showed an increase in their annual average CDSR and seven exhibited a decrease for this variable (Table 10). For relevant days of FFDC per year, there was an increase in average values for five stations, and a decrease at just two stations (Table 10). On the other hand, the average annual rainfall has slightly decreased overall across the 16 stations (Table 9), although for the most part the changes are only minimal compared to previous studies. Maximum temperature values were unchanged, except for Dargaville Raws (DAR) and Queenstown Aero (QNA) which have experienced increases on previous maximum values (Table 10).

**Table 9.** Comparison of length of record and average annual rainfall for a selection of stations included in the present study, the 2003 analysis (Pearce *et al.* 2003), the 1996 analysis (Pearce 1996) and published climate normals (NZMS 1983a, 1986).

Station	Name	Length of Record (years)				Annual Rainfall (mm)			
		Present Study	2003 Study	1996 Study	Climate Normals	Present Study	2003 Study	1996 Study	Climate Normals
KX	Kaitaia	58	39	33	32	1338	1361	1356	1418
DAR	Dargaville	26	23	17	38	1138	1176	1177	1248
AKL	Auckland	54	35	29	19	1097	1109	1106	1150
COR	Coromandel	NA	21	17	19	NA	1916	1860	1904
ROA	Rotorua	56	37	31	18	1399	1432	1428	1491
NPA	New Plymouth	58	26	20	37	1105	1435	1433	1529
TGA	Tauranga	50	31	25	68	1210	1214	1233	1349
NSA	Nelson	58	39	33	40	988	1022	979	986
APA	Taupo	NA	25	19	32	NA	992	1003	1178
GSA	Gisborne	58	39	33	44	1017	1012	1009	1058
KIX	Kaikoura	NA	37	31	32	NA	824	839	888
OHA	Ohakea	NA	32	32	41	NA	912	912	916
PPA	Paraparaumu	57	39	33	36	1010	1024	1031	1054
WNA	Wellington	59	41	35	21	989	997	1011	1240
WSA	Westport	50	31	26	37	2151	2224	2274	2192
HKA	Hokitika	56	37	31	18	2809	2852	2843	2783
CHA	Christchurch	60	41	35	38	625	629	620	666
QNA	Queenstown	42	23	17	13	743	827	783	805
DNA	Dunedin	57	38	32	19	665	700	683	659
NVA	Invercargill	61	41	35	42	1088	1093	1093	1037

1. The 1996 and present studies use 1200h NZST observations cf. climate normals based on 0800/0900h NZST synoptic observations.
2. Stations in grey were not considered in this study due to being discontinued (e.g., COR, OHA) or presenting dataset completion issues.

**Table 10.** Comparison of selected statistics for selected stations from the present study, the 2003 analysis (Pearce et al. 2003), the 1996 analysis (Pearce 1996) and published climate normals (NZMS 1983a, 1986).

Station	Max Temp. (°C)			CDSR			FFDC (days)		
	Present Study	2003 Study	1996 Study	Present Study	2003 Study	1996 Study	Present Study VH+E+VE	2003 Study VH+E	1996 Study VH+E
KX	29.1	29.0	29.0	454	403	428	31.6	8.9	10.0
DAR	30.9	27.8	27.8	354	199	188	6.7	1.9	2.2
AKL	28.0	28.0	28.0	411	418	413	8.3	7.6	7.8
COR	NA	29.0	29.0	NA	212	204	NA	1.5	1.1
ROA	29.3	29.0	29.0	220	223	226	2.1	2.0	2.1
NPA	28.0	26.0	26.0	731	172	89	24.6	1.4	0.0
TGA	29.9	29.0	29.0	456	398	369	10.1	7.5	6.6
NSA	33.0	33.0	33.0	511	520	519	12.4	10.1	10.1
APA	NA	30.0	30.0	NA	228	224	NA	3.0	2.9
GSA	37.0	37.0	37.0	857	1029	1046	26.6	32.5	33.1
KIX	NA	31.0	31.0	NA	429	392	NA	5.5	4.3
OHA	NA	30.0	30.0	NA	592	601	NA	13.3	13.7
PPA	28.8	28.0	28.0	296	307	310	3.3	3.6	3.9
WNA	29.0	29.0	29.0	715	888	881	16.9	18.7	17.6
WSA	26.5	26.0	26.0	65	58	61	0.2	0.0	0.0
HKA	29.0	29.0	29.0	38	43	43	0.0	0.0	0.0
CHA	39.0	39.0	39.0	1195	1300	1282	37.7	39.0	39.1
QNA	29.2	27.0	27.0	393	328	293	8.5	6.0	4.6
DNA	33.0	33.0	33.0	437	485	495	7.4	7.3	7.6
NVA	29.3	29.0	29.0	130	157	159	0.4	0.5	0.3

1. Max Temp = maximum recorded daily temperature; CDSR = average annual Cumulative Daily Severity Rating through a full year;
2. VH + E = combined average number of days of VERY HIGH and EXTREME Forest fire danger per year; VH + E +VE = combined average number of days of VERY HIGH, EXTREME and VERY EXTREME Forest fire danger per year. As mentioned in the text, these values are equivalent and comparable as in the 'Present Study' the addition of VE category only splits E (>4000 kW/m) from previous studies into E (4000 to 10,000 kW/m) and VE (>10,000 kW/m) in the current study.
3. Stations in grey were not considered in this study due to being discontinued (e.g., COR, OHA) or presenting many issues difficult to amend.
4. Values in red show evident increase of values compared to previous recorded data
5. Values in blue depict evident decrease of values compared to previous recorded data

## Length of record

Overall, for the surveyed stations in this study (158) the average length of record was 26.9 years, which is ten years longer than the average length of record of all available stations (15.7 years for the 373 stations). For the surveyed stations, the length of record varies widely, ranging from 3 to 60 years (**Appendix 1**). However, 92.4% of all surveyed stations had a data record greater than 16 years, 46.8% of stations longer than 26 years, and 8.2% represent stations with more than 50 years of data (Table 11).

Compared to the last major study on fire climatology (Pearce et al. 2003), the number of surveyed stations is slightly lower (158 compared to 179), but the number of stations above 98% completeness is significantly greater in this study (145 compared to 106, Table 11) despite the addition of extra data and a number of discontinued stations. From these, 133 stations could be completed to 100% with no missing data. However, it is worth noting that due to the longer data records more issues have been encountered, including unusual high or low values for long periods, and outliers or zeros registered by potential equipment malfunctions. These issues could be rectified where there was data available from suitable nearby stations, but this was not always the case.

As a result, the number of stations with 100% completeness and reliable data was reduced from 133 to 100. The 100 stations for which datasets were summarised included three stations with 60-year records (CHA, NVA, WNA), 11 stations with 50 years or more (but less than 60), three stations between 40 and 49 years, 69 stations with databases of 20 and 29 years, ten stations between 10 to 19 years of record, and four with less than 10 years of record. [The stations with shorter record lengths were typically extra stations added into the analyses to support other work].

**Table 11.** Summary of data availability (quality and length of record) for surveyed weather stations.

Length of Record (years)	Dataset Quality after the survey (% complete)					Total
	100%	>98%	95-98%	90-94.9%	<90%	
>50	12	1	0	0	0	13
26 - 50	55	2	0	1	3	61
16 - 25	54	9	1	4	4	72
10 - 15	8	0	0	0	0	8
<10	4	0	0	0	0	4
<b>Total</b>	133*	12	1	5	7	<b>158</b>

\* despite having 133 datasets completed to 100% with no missing observations, some had issues that could not be fixed (outliers, zero values, etc.) resulting in 100 stations with reliable data for which summary tables were produced.

## Data quality

Significant problems were encountered during the study with incomplete and/or erroneous data, however, issues for most of the important long-record stations could be resolved. Thus, from the surveyed stations, only one station out of 13 with datasets longer than 50 years could not be resolved: being KIX reaching a 99.9% completion. For stations with lengths of record of 26 to 50 years, only 6 out of 61 stations were not completed to 100%, and from the 84 resultant stations (<25 years), 18 could not be resolved due to having significant issues. Overall, the average of completeness, taking into account all surveyed stations (158), was 98.9%, ranging from 71.9% (for MSD) to 100% (Appendix 1).



Particular data quality issues found within the FENZ's Fire Weather System included missing data, incomplete records and erroneous values for both weather input data and derived fire danger ratings. These data quality issues could not be attributed to a single problem but occurred as a result of a variety of factors including faulty sensors and/or dataloggers, communication problems associated with data downloading, and database management and archiving. In most cases, problems with missing weather data could be relatively easily rectified through substitution from alternative stations; however, this is time consuming and not always practicable due to station availability, proximity, elevation and microclimate differences between stations, and prolonged periods of missing data. Particularly difficult were isolated stations (e.g., HTX) in which data was impossible to replace or compare with other stations.

In the case of erroneous weather values, the data recorded was typically inaccurate either as a result of the recording of an incorrect value (unreasonably high/low values, e.g., temperatures of +60°C or -20°C, or -2°C at 1200 noon in midsummer) or an error flag (e.g., -6999) or, in some cases, recording of data in the incorrect column (e.g., swapping of wind speed and direction, or FWI values being transposed into weather data columns). Often problems with the sensors could be easily flagged, such as for relative humidity data, in which 0% or 100% values were recorded for several days. Another issue found was with wind speed values, which have been recorded in different units (e.g. knots or m/s) but were entered as being km/h. Sometimes the unit transformation was very evident, whereas in other cases it was difficult to tell if the cause of the issue was actually a change of the sensor's height that could be affecting the consistency of the data.

In regards to wind data, the construction of wind roses included shorter and less complete databases as it relies on daily wind direction values as well as the corresponding wind speed. The data for this wind direction variable was found to be less reliable and had the most issues with missing data compared to the rest of the weather variables (temperature, rainfall, relative humidity, and wind speed), often because it was not included as part of the older historical datasets due to not being needed in the FWI calculations. In addition, several stations had insufficient length of record (i.e., less than 5 years) to allow accurate statistical analysis, either as a result of only recently being installed or due to prolonged periods of missing weather data.

In many cases, it also appeared that starting FWI values (for FFMC, DMC and DC, and therefore subsequent indices) for the first day of operation of a station had been extended through the FWI dataset for a prolonged period for whatever reason<sup>15</sup>, so that in some cases the data record showed in excess of 6 months of repeated values. This particular problem seemed to affect a large number of stations in the Fire Weather archive but has been less common in recent years. When it was rectified, the actual period of record for which accurate data was available was often significantly shorter than first thought. Derived FWI values also contained similar problems with repeated records, significant periods of non-calculation (recorded as zeros or left blank), and subsequent restarting of calculations using new start-up values. For these reasons, the decision was made to recalculate FWI codes and indices and from the first day with reliable start-up values.

It is worth mentioning that data issues are rather rare in FENZ stations since 2018 data, and the authors recognize the efforts made to improve data reliability for FENZ's stations, especially in recent years. Nevertheless, the need to more closely scrutinise the Fire Weather System datasets as a result of these data quality issues added significantly to the workload associated with this database compilation phase. This issue of data quality within the FENZ archive also needs to be carefully considered in any current or future applications that utilise this database, such as the

---

<sup>15</sup> This could be the result of a delay with the station being added to the system and FWI calculations for it commencing, or a "spin-up" period being included for the FWI calculations to allow them to "acclimatise" (e.g., following the use of the standard FWI start-up values (FFMC 85, DMC 6, DC 15) or potentially unrepresentative values from a nearby station).

climatology products being produced within the Ecoconnect FWSYS, or risk modelling work such as the NZ Wildfire Threat Analysis System (WTAS). Improved methods of error flagging, alternate data substitution, and recalculation of FWI values once station communication issues are rectified and actual or substitute observations become available are therefore required within the FWSYS to reduce these problems in future. In this regard, FENZ will benefit from this study as it has not only solved a great amount of the database quality issues, but also highlights patterns, causes and constraints associated with data collection issues within the Fire Weather System.

## Statistical analysis

Once the data quality and substitution issues were overcome, the creation of the fire danger database from the resulting weather datasets and subsequent statistical analysis phases of the study were followed by the use of statistical software to automate FWI calculations and the creation of summary tables and wind roses. Even though previous tools generated for fire danger climatology in New Zealand were available to the authors (e.g., Excel files, Python and S-plus scripts for calculating FWI values), the generation of tools to automate the current analyses required significant time and effort as the new scripts were written in a different programming language (R Core Team 2021) with the aim of making the codes more accessible. In summary, six scripts were produced in order to create summarised data per month, per year and per fire season and the respective wind roses. These scripts include the following:

- 1) An R script to convert hourly (or 10-min or 3-hr intervals) to daily values and create a daily database of weather input variables
- 2) A transcription of equations to calculate FWI indices in R software
- 3) An R script calculating daily FWI values and fire danger classes (for forest, grassland and scrubland) per station
- 4) An R script that builds summary tables per station with relevant statistics
- 5) An R script to create wind roses per month, per full year and per fire season
- 6) An Rmarkdown script to create a PDF document with standard formatting, showing summary values and wind roses for each station.

The analytical methodology used during the statistical analysis was automated using R software (R Core Team 2021) so that regular updates of the database and associated statistical analyses could be conducted more easily in future. It is suggested that this updating be conducted annually or, at the very least every 5 years, to maintain the accuracy and utility of the database, and to minimise the workload required to repeat the analyses, especially the data quality checking. The increasing data availability, combined with new stations being added to the network each year, provides further incentive for regularly updating the database and repeating this analysis.

## Application of the fire climatology - comparison of fire climate severity

The study by Pearce (1996) included a comparison of the relative severity of fire climates in different parts of the country, based on two measures of severity determined from station summary statistics – the Cumulative Daily Severity Rating (CDSR) (Harvey *et al.* 1986) and combined frequency of days falling into the VERY HIGH and EXTREME fire danger classes for Forest (VH+E FFDC) (after Alexander 1994). Although limited to 20 stations, this comparison provided significant insight into the extremes of fire danger experienced at these locations.

The 2003 study (Pearce *et al.* 2003) compared fire climate severity in different geographic regions of the country based on the summary statistics for 127 stations. In addition to using the CDSR and VH+E FFDC severity measures, that study also included the combined frequency of days

of VERY HIGH and EXTREME fire danger for Scrubland (VH+E SFDC) as a third measure of fire severity. Each station was ranked using each of these three measures separately, and then the rankings for each station were averaged to determine an overall measure of fire climate severity.

Therefore, in the present study, the same ranking methodology has been applied to the completed stations but adding the values for Grassland fire danger class. Table 12 contains the severity rankings for individual stations, and lists Butchers Dam Raws as the station with the most severe fire climate. Awatere Valley (AWV) and Woodbourne Aero (Blenheim) (WBA) in Marlborough rank second and third highest. Lake Tekapo Ews from Mid-South Canterbury and Bridge Pa Raws (BRP) from Hawkes Bay ranking in fourth and fifth place, respectively.

Comparing these rankings with those from the 2003 study (Pearce *et al.* 2003), AWV and WBA also appeared in the top 5 stations, but also Christchurch Aero (CHA) from Canterbury and Castle Point (CPX) from Wairarapa (now in 6<sup>th</sup> and 11<sup>th</sup> place), with the authors attributing the high ranking for CPX to the windiness of the site compared to seasonal dryness<sup>16</sup>. Also registered in the top 5 was Molesworth (MLX) from Marlborough (Pearce *et al.* 2003), but due to a number of issues this station was not able to be completed in the current study.

At the other end of the scale, the 5 stations with the least severe fire climates were found here to be Opouteke Raws (OPO) in Northland, Marco Raws (WHG) in Taranaki, Athol Raws (ATH) in the Waikato, and Hokitika SYNOP (HKA) and Reefton Ews (REF), both from the South Island's West Coast. Similarly, the results of the 2003 study show OPO, WHG and REF ranking lowest, along with Waimarino Forest Raws (WAF) in Wanganui/Manawatu and Haast Raws (HTX) from the West Coast. These latter two stations were surveyed here but their datasets were not able to be completed. As pointed out previously (Pearce *et al.* 2003), the main cause for these stations having the lowest fire danger values likely being that they are in locations with the highest rainfalls.

As was done in the 2003 study, Table 13 contains the severity ratings for individual stations grouped on a regional basis. This again illustrates the wide range in fire climate severity that exists among stations from the same geographic regions. This demonstrates the significant microclimatic variability that exists within each region of the country, and across New Zealand as a whole, and reinforces the need to break regions into subzones for fire management purposes such as the setting of fire seasons, issuing of fire permits and locating firefighting resources.

At regional level, Marlborough is depicted as the region with the most severe fire climate, with an average of 295 days/year of Very High (VH) to Very Extreme (VE) SFDC and 41.5 days/year of VH to VE FFDC; followed by the East Coast, Mid-South Canterbury and North Canterbury (Table 14). On the other hand, the region with the least severe fire climate is the West Coast (141 days/year of VH to VE SFDC and 0.1 days/year of VH to VE FFDC), followed by Waikato, Southland and Auckland. However, these regional averages are affected significantly by the number of stations for each region (which ranges from 2 to 21), so should be compared with this in mind.

When comparing both islands, on average across all stations, the South Island is exposed to 9 more days per year of VH to VE FFDC compared to the North Island. Likewise, it averages 8 more days/year of VH to VE GFDC in the South Island. Interestingly, the North Island showed on average, 10 more days of VH to VE SFDC compared to the South Island. The validity of comparing these rough numbers is reasonable as the total numbers of stations per island (49 vs 51) and the average lengths of the databases (31.7 vs 30.2 years) are somewhat equivalent.

---

<sup>16</sup> High DSR values, and hence high CDSR, can result from high temperature, low relative humidity, strong winds and/or seasonal dryness, as represented by the individual and combined influences of these weather elements on the FWI System fuel moisture codes and fire behaviour indexes (Majorhazy & Pearce 2001).

**Table 12.** Ranking of fire climate severity for individual stations included in the fire climatology analysis, based on the average of rankings for long-term average Cumulative Daily Severity Rating (CDSR), and days of VERY HIGH, EXTREME and VERY EXTREME (VH+E+VE) fire danger class for Forest (FFDC), Grassland (GFDC) Scrubland (SFDC). Canty = Canterbury, Wang/Man = Wanganui-Manawatu. The length of record (years) and annual rainfall (mm) for each station are also included for comparative purposes.

No.	Station	Region	Record Length (years)	CDSR	VH+E+VE FFDC (days)	VH+E+VE GFDC (days)	VH+E+VE SFDC (days)	Annual Rainfall (mm)	Rank CDSR	Rank FFDC	Rank GFDC	Rank SFDC	Average Rank
1	Butchers Dam Raws	Otago	11	1980	68.2	46.1	286.9	376	1	1	7	3	3
2	AWV	Marlborough	26	1492	51.6	56.3	298.1	586	3	4	4	2	3.25
3	WBA	Marlborough	29	1420	47.4	59.5	280.3	740	4	5	3	6	4.5
4	Lake Tekapo Ews	Mid-South Canty	17	1728	54.4	47.2	262.4	538	2	3	6	20	7.75
5	BRP	Hawkes Bay	23	1164	44.5	29.5	283.5	670	10	7	20	4	10.25
6	CHA	North -Canty	60	1195	37.7	40.9	270.3	626	9	13	10	11	10.75
7	CRM	Otago	11	1415	57.9	26.8	265.7	399	5	2	21	15	10.75
8	NRA	Hawkes Bay	29	1119	33.9	34.2	280.5	844	11	16	14	5	11.5
9	Cape Campbell SYNOP	Marlborough	8	797	25.4	61.0	307.0	585	24	22	2	1	12.25
10	Otematata Raws	Otago	4	1088	42.2	26.2	275.3	481	15	9	22	7	13.25
11	CPX	Wairarapa	29	1004	23.0	70.9	268.7	949	18	25	1	12	14
12	MTK	North -Canty	21	1415	45.5	13.8	271.3	593	5	6	36	10	14.25
13	TEK	Mid-South Canty	24	1309	33.7	42.0	254.5	589	7	17	8	29	15.25
14	THE	Mid-South Canty	24	1389	43.9	40.1	244.5	518	6	8	11	42	16.75
15	NWX	Wairarapa	26	885	25.3	49.8	259.3	972	20	23	5	23	17.75
16	LAE	Otago	29	1288	40.0	31.5	248.4	444	8	10	16	37	17.75
17	GSA	East Coast	58	857	26.6	35.7	263.8	1017	22	21	13	16	18
18	DNP	Otago	26	1050	32.2	30.1	255.1	568	16	18	19	27	20
19	WFA	Otago	26	1106	38.4	32.2	244.9	631	13	12	15	41	20.25
20	LEV	North -Canty	23	1116	35.3	45.2	238.3	915	12	14	8	50	21
21	BML	North -Canty	26	1091	39.0	30.5	244.0	599	14	11	18	43	21.5
22	NRB	Otago	14	894	18.8	42.0	240.6	730	19	28	9	46	25.5
23	PKA	Mid-South Canty	20	1032	34.9	30.6	229.6	520.4	17	15	17	59	27
24	MCR	Otago	14	753	14.9	17.5	261.4	678	25	33	30	21	27.25
25	RLY	Otago	19	868	29.3	20.0	243.6	437	21	20	27	44	28
26	KX	Northland	58	454	30.6	14.0	262.8	1338	43	19	35	19	29
27	WND	Otago	20	719	16.6	7.5	274.1	512	30	32	50	8	30
28	WHR	Mid-South Canty	20	741	18.1	11.1	254.8	572	26	29	41	28	31
29	HIX	East Coast	26	437	6.4	31.5	266.8	1409	45	50	16	14	31.25
30	TGA	Bay of Plenty	50	456	10.1	16.9	267.4	1210	42	41	31	13	31.75
31	NSA	Nelson	58	511	12.4	22.8	252.1	988	37	35	25	31	32
32	PMA	Wang/Man	25	496	13.3	16.6	256.2	964	39	34	32	25	32.5
33	NPA	Taranaki	58	731	24.6	4.2	256.3	1105	29	24	55	24	33
34	MSX	Wairarapa	29	618	20.2	30.6	232.4	985	33	27	17	55	33
35	CAN	Mid-South Canty	26	734	16.6	12.6	247.7	565	28	32	39	38	34.25

Table 12. (cont)

No.	CODE	Region	Record Length (years)	CDSR	VH+E+VE FFDC (days)	VH+E+VE GFDC (days)	VH+E+VE SFDC (days)	Annual Rainfall (mm)	Rank CDSR	Rank FFDC	Rank GFDC	Rank SFDC	Average Rank
36	Hawea Flat Raws	Otago	3	806	25.3	24.3	221.0	749	23	23	24	68	34.5
37	WNA	Wellington	60	715	16.9	0.9	274.0	989	31	31	69	9	35
38	WKA	Bay of Plenty	29	456	10.8	13.8	260.8	1231	42	40	36	22	35
39	SDN	North -Canty	27	656	11.2	37.4	220.3	1040	32	39	12	69	38
40	APP	Northland	26	408	9.1	7.9	263.2	1100	48	42	48	17	38.75
41	LBX	North -Canty	26	578	11.3	10.6	245.0	716	35	38	42	40	38.75
42	CLY	Otago	23	735	22.6	9.3	228.4	376	27	26	44	60	39.25
43	TUA	Mid-South Canty	29	548	11.6	4.1	252.0	622	36	37	56	32	40.25
44	AKL	Auckland	54	411	8.3	10.3	251.7	1097	46	44	43	33	41.5
45	THA	Hawkes Bay	24	457	12.2	17.8	224.1	1017	41	36	29	64	42.5
46	HAN	North -Canty	24	600	18.0	20.2	209.6	951	34	30	26	81	42.75
47	NMU	Wairarapa	27	468	13.3	17.8	219.8	1036	40	34	29	70	43.25
48	TRQ	Otago	27	468	4.0	12.6	240.2	697	40	59	39	47	46.25
49	WUA	Taranaki	42	362	5.4	7.6	254.3	994	54	54	49	30	46.75
50	MHX	Hawkes Bay	26	360	6.3	10.6	245.4	1087	55	51	42	39	46.75
51	RAU	Wang/Man	25	314	4.0	12.8	250.5	859	59	59	38	34	47.5
52	OUA	Otago	29	363	4.8	3.9	255.9	639.6	53	55	57	26	47.75
53	DNA	Otago	57	437	7.4	5.1	239.7	666	45	46	52	48	47.75
54	QNA	Otago	42	393	8.5	11.6	230.9	743	50	43	40	58	47.75
55	MOS	Southland	24	468	8.2	19.7	209.9	891	40	45	28	80	48.25
56	HOK	Northland	24	449	11.2	5.1	228.1	1163	44	39	52	61	49
57	BTL	North -Canty	27	501	10.8	0.1	242.5	526	38	40	75	45	49.5
58	WRA	Northland	29	375	7.2	1.5	249.4	1284	51	47	66	36	50
59	NTA	Wang/Man	27	352	6.6	25.5	208.5	1023	57	49	23	82	52.75
60	PPA	Wellington	58	296	3.3	0.6	263.0	1010	64	60	72	18	53.5
61	CRK	Hawkes Bay	24	395	9.1	3.8	222.6	1201	49	42	58	65	53.5
62	TTB	Wellington	22	331	4.5	1.1	250.1	962	58	56	68	35	54.25
63	BMT	Southland	27	409	5.7	14.1	203.4	1256	47	52	34	86	54.75
64	DAR	Northland	42	354	6.7	1.7	235.8	1138	56	48	64	53	55.25
65	GBI	Auckland	26	276	3.2	6.6	239.2	1489	68	61	51	49	57.25
66	Buckland's Raws	Otago	13	300	4.2	3.0	236.1	662	63	58	61	52	58.5
67	LNK	Wang/Man	29	196	1.8	37.4	216.6	1068	82	66	12	74	58.5
68	MTS	Mid-South Canty	22	373	4.3	13.7	194.8	1192	52	57	37	88	58.5
69	HWT	Wairarapa	26	277	5.5	14.5	189.9	1382	67	53	33	90	60.75
70	CLV	Auckland	26	308	4.8	3.8	219.4	1202	60	55	58	71	61

Table 12. (cont)

No.	CODE	Region	Record Length (years)	CDSR	VH+E+VE FFDC (days)	VH+E+VE GFDC (days)	VH+E+VE SFDC (days)	Annual Rainfall (mm)	Rank CDSR	Rank FFDC	Rank GFDC	Rank SFDC	Average Rank
71	ROA	Bay of Plenty	56	220	3.0	4.9	232.3	1399	78	62	53	56	62.25
72	Waeranga Raws	Waikato	3	306	6.7	0	222.0	1094	61	48	76	66	62.75
73	PAX	Waikato	29	293	5.5	0.3	225.7	1207	65	53	73	62	63.25
74	TRX	Waikato	26	263	3.3	1.3	233.7	1210	73	60	67	54	63.5
75	TEP	Hawkes Bay	25	272	4.5	9.1	207.2	1445	70	56	45	83	63.5
76	WGO	Bay of Plenty	22	247	2.7	4.9	221.2	1855	75	63	53	67	64.5
77	HAW	Taranaki	16	208	2.4	3.1	231.9	1146	80	64	60	57	65.25
78	HIR	Nelson	27	274	4.2	8.5	197.0	1136	69	58	47	87	65.25
79	HNA	Waikato	29	289	5.4	0.8	217.9	1265	66	54	70	72	65.5
80	LUX	Southland	29	268	4.2	8.6	173.4	1012	71	58	46	94	67.25
81	RFP	Wellington	26	302	5.5	0	210.0	1444	62	53	76	79	67.5
82	WHB	Bay of Plenty	14	203	1.4	0.7	236.3	1236	81	69	71	51	68
83	HRB	Otago	14	189	1.6	1.6	225.2	884	83	67	65	63	69.5
84	WRY	Southland	26	256	4.0	3.9	190.9	838	74	59	57	89	69.75
85	WDH	Auckland	24	221	2.2	1.5	217.8	1182	77	65	66	73	70.25
86	Waharau Raws	Auckland	24	265	1.5	0.6	214.6	1202	72	68	72	75	71.75
87	MTE	Bay of Plenty	27	220	3.0	1.7	203.9	1261	78	62	64	85	72.25
88	CYB	Otago	26	178	0.9	2.4	210.9	852	84	72	62	78	74
89	TUT	Southland	26	209	2.2	3.6	176.9	1137	79	65	59	93	74
90	KOE	Northland	26	189	1.3	1.3	211.2	1578	83	70	67	77	74.25
91	CDT	Auckland	27	229	1.8	0.7	204.2	1397	76	66	71	84	74.25
92	NGX	Otago	21	146	0.4	2.1	212.4	764	86	73	63	76	74.5
93	GLD	Otago	20	178	1.0	3.6	177.4	1251	84	71	59	92	76.5
94	WSA	West Coast	50	65	0.2	4.5	162.3	2151	91	74	54	96	78.75
95	NVA	Southland	60	130	0.4	1.7	185.0	1088	88	73	64	91	79
96	OPO	Northland	25	164	1.8	0.2	152.1	1704	85	66	74	97	80.5
97	ATH	Waikato	28	132	1.4	0	165.6	1520	87	69	76	95	81.75
98	REF	West Coast	21	102	0.2	0.6	118.8	1771	89	74	72	100	83.75
99	WHG	Taranaki	26	92	0.1	0	144.1	1829	90	75	76	98	84.75
100	HKA	West Coast	56	38	0	0	141.8	2809	92	76	76	99	85.75

**Table 13.** Fire climate severity statistics for individual weather stations summarised by region and island. Severity measures include the Cumulative Daily Severity Rating (CDSR), and number of days of VERY HIGH, EXTREME and VERY EXTREME (VH+E+VE) fire danger class for Forest (FFDC), Grassland (GFDC) and Scrubland (SFDC). Cnty = Canterbury, Wang/Man = Wanganui-Manawatu. The length of record (years) and annual rainfall (mm) for each station are also included for comparative purposes.

Station/Region (no. stations)	Length of Record (years)	CDSR	VH+E+VE FFDC (days)	VH+E+VE GFDC (days)	VH+E+VE SFDC (days)	Annual Rainfall (mm)
KX	58	454	30.6	14.0	262.8	1338
APP	26	408	9.1	7.9	263.2	1100
HOK	24	449	11.2	5.1	228.1	1163
WRA	29	375	7.2	1.5	249.4	1284
DAR	42	354	6.7	1.7	235.8	1138
KOE	26	189	1.3	1.3	211.2	1578
OPO	25	164	1.8	0.2	152.1	1704
<b>Northland (7)</b>	<b>32.9</b>	<b>341.9</b>	<b>9.7</b>	<b>4.5</b>	<b>228.9</b>	<b>1329.3</b>
AKL	54	411	8.3	10.3	251.7	1097
GBI	26	276	3.2	6.6	239.2	1489
CLV	26	308	4.8	3.8	219.4	1202
WDH	24	221	2.2	1.5	217.8	1182
Waharau Raws	24	265	1.5	0.6	214.6	1202
CDT	27	229	1.8	0.7	204.2	1397
<b>Auckland (6)</b>	<b>30.2</b>	<b>285.0</b>	<b>3.6</b>	<b>3.9</b>	<b>224.5</b>	<b>1261.5</b>
Waeranga Raws	3	306	6.7	0	222.0	1094
PAX	29	293	5.5	0.3	225.7	1207
TRX	26	263	3.3	1.3	233.7	1210
HNA	29	289	5.4	0.8	217.9	1265
ATH	28	132	1.4	0	165.6	1520
<b>Waikato (5)</b>	<b>23.0</b>	<b>256.6</b>	<b>4.5</b>	<b>0.5</b>	<b>213.0</b>	<b>1259.2</b>
TGA	50	456	10.1	16.9	267.4	1210
WKA	29	456	10.8	13.8	260.8	1231
ROA	56	220	3.0	4.9	232.3	1399
WGO	22	247	2.7	4.9	221.2	1855
WHB	14	203	1.4	0.7	236.3	1236
MTE	27	220	3.0	1.7	203.9	1261
<b>Bay of Plenty (6)</b>	<b>33.0</b>	<b>300.3</b>	<b>5.2</b>	<b>7.2</b>	<b>237.0</b>	<b>1365.3</b>
GSA	58	857	26.6	35.7	263.8	1017
HIX	26	437	6.4	31.5	266.8	1409
<b>East Coast (2)</b>	<b>42.0</b>	<b>647.0</b>	<b>16.5</b>	<b>33.6</b>	<b>265.3</b>	<b>1213.0</b>
BRP	23	1164	44.5	29.5	283.5	670
NRA	29	1119	33.9	34.2	280.5	844
THA	24	457	12.2	17.8	224.1	1017
MHX	26	360	6.3	10.6	245.4	1087
CRK	24	395	9.1	3.8	222.6	1201
TEP	25	272	4.5	9.1	207.2	1445
<b>Hawkes Bay (6)</b>	<b>25.2</b>	<b>627.8</b>	<b>18.4</b>	<b>17.5</b>	<b>243.9</b>	<b>1044.0</b>
NPA	58	731	24.6	4.2	256.3	1105
WUA	42	362	5.4	7.6	254.3	994
HAW	16	208	2.4	3.1	231.9	1146
WHG	26	92	0.1	0	144.1	1829
<b>Taranaki (4)</b>	<b>35.5</b>	<b>348.3</b>	<b>8.1</b>	<b>3.7</b>	<b>221.7</b>	<b>1268.5</b>
PMA	25	496	13.3	16.6	256.2	964
RAU	25	314	4.0	12.8	250.5	859
NTA	27	352	6.6	25.5	208.5	1023
LNX	29	196	1.8	37.4	216.6	1068
<b>Wang/Man (4)</b>	<b>26.5</b>	<b>339.5</b>	<b>6.4</b>	<b>23.1</b>	<b>233.0</b>	<b>978.5</b>

Table 13. (cont)

Station/Region (no. stations)	Length of Record (years)	CDSR	VH+E+VE FFDC (days)	VH+E+VE GFDC (days)	VH+E+VE SFDC (days)	Annual Rainfall (mm)
CPX	29	1004	23.0	70.9	268.7	949
NWX	26	885	25.3	49.8	259.3	972
MSX	29	618	20.2	30.6	232.4	985
NMU	27	468	13.3	17.8	219.8	1036
HWT	26	277	5.5	14.5	189.9	1382
<b>Wairarapa (5)</b>	<b>27.4</b>	<b>650.4</b>	<b>17.5</b>	<b>36.7</b>	<b>234.0</b>	<b>1064.8</b>
WNA	60	715	16.9	0.9	274.0	989
PPA	58	296	3.3	0.6	263.0	1010
TTB	22	331	4.5	1.1	250.1	962
RFP	26	302	5.5	0	210.0	1444
<b>Wellington (4)</b>	<b>41.5</b>	<b>411.0</b>	<b>7.6</b>	<b>0.7</b>	<b>249.3</b>	<b>1101.3</b>
<b>North Island (49)</b>	<b>31.7</b>	<b>420.8</b>	<b>9.7</b>	<b>13.1</b>	<b>235.0</b>	<b>1188.5</b>
NSA	58	511	12.4	22.8	252.1	988
HIR	27	274	4.2	8.5	197.0	1136
<b>Nelson (2)</b>	<b>42.5</b>	<b>392.5</b>	<b>8.3</b>	<b>15.65</b>	<b>224.6</b>	<b>1062</b>
AWV	26	1492	51.6	56.3	298.1	586
WBA	29	1420	47.4	59.5	280.3	740
Cape Campbell SYNOP	8	797	25.4	61.0	307.0	585
<b>Marlborough (3)</b>	<b>21</b>	<b>1236.3</b>	<b>41.5</b>	<b>58.9</b>	<b>295.1</b>	<b>637</b>
WSA	50	65	0.2	4.5	162.3	2151
REF	21	102	0.2	0.6	118.8	1771
HKA	56	38	0	0	141.8	2809
<b>West Coast (3)</b>	<b>42.3</b>	<b>68.3</b>	<b>0.1</b>	<b>1.7</b>	<b>141.0</b>	<b>2243.7</b>
CHA	60	1195	37.7	40.9	270.3	626
MTK	21	1415	45.5	13.8	271.3	593
LEV	23	1116	35.3	45.2	238.3	915
BML	26	1091	39.0	30.5	244.0	599
SDN	27	656	11.2	37.4	220.3	1040
LBX	26	578	11.3	10.6	245.0	716
HAN	24	600	18.0	20.2	209.6	951
BTL	27	501	10.8	0.1	242.5	526
<b>North -Canty (8)</b>	<b>29.3</b>	<b>894.0</b>	<b>26.1</b>	<b>24.8</b>	<b>242.7</b>	<b>745.8</b>
Lake Tekapo Ews	17	1728	54.4	47.2	262.4	538
TEK	24	1309	33.7	42.0	254.5	589
THE	24	1389	43.9	40.1	244.5	518
PKA	20	1032	34.9	30.6	229.6	520.4
WHR	20	741	18.1	11.1	254.8	572
CAN	26	734	16.6	12.6	247.7	565
TUA	29	548	11.6	4.1	252.0	622
MTS	22	373	4.3	13.7	194.8	1192
<b>Mid-South Canty (8)</b>	<b>22.8</b>	<b>981.8</b>	<b>27.2</b>	<b>25.2</b>	<b>242.5</b>	<b>639.6</b>
Butchers Dam Raws	11	1980	68.2	46.1	286.9	376
CRM	11	1415	57.9	26.8	265.7	399
Otematata Raws	4	1088	42.2	26.2	275.3	481
LAE	29	1288	40.0	31.5	248.4	444
DNP	26	1050	32.2	30.1	255.1	568
WFA	26	1106	38.4	32.2	244.9	631
NRB	14	894	18.8	42.0	240.6	730
MCR	14	753	14.9	17.5	261.4	678
RLY	19	868	29.3	20.0	243.6	437
WND	20	719	16.6	7.5	274.1	512
Hawea Flat Raws	3	806	25.3	24.3	221.0	749
CLY	23	735	22.6	9.3	228.4	376
TRQ	27	468	4.0	12.6	240.2	697
OUA	29	363	4.8	3.9	255.9	639.6



Table 13. (cont)

Station/Region (no. stations)	Length of Record (years)	CDSR	VH+E+VE FFDC (days)	VH+E+VE GFDC (days)	VH+E+VE SFDC (days)	Annual Rainfall (mm)
DNA	57	437	7.4	5.1	239.7	666
QNA	42	393	8.5	11.6	230.9	743
Buckland's Raws	13	300	4.2	3.0	236.1	662
HRB	14	189	1.6	1.6	225.2	884
CYB	26	178	0.9	2.4	210.9	852
NGX	21	146	0.4	2.1	212.4	764
GLD	20	178	1.0	3.6	177.4	1251
<b>Otago (21)</b>	<b>21.4</b>	<b>731.1</b>	<b>20.9</b>	<b>17.1</b>	<b>241.6</b>	<b>644.7</b>
MOS	24	468	8.2	19.7	209.9	891
BMT	27	409	5.7	14.1	203.4	1256
LUX	29	268	4.2	8.6	173.4	1012
WRY	26	256	4.0	3.9	190.9	838
TUT	26	209	2.2	3.6	176.9	1137
NVA	60	130	0.4	1.7	185.0	1088
<b>Southland (6)</b>	<b>32.0</b>	<b>290.0</b>	<b>4.1</b>	<b>8.6</b>	<b>189.9</b>	<b>1037.0</b>
<b>South Island (51)</b>	<b>30.2</b>	<b>656.3</b>	<b>18.3</b>	<b>21.7</b>	<b>225.3</b>	<b>1001.4</b>

**Table 14.** Ranking of regional fire climate severity based on stations included in the fire climatology analysis, using the average of rankings for long-term mean Cumulative Daily Severity Rating (CDSR) and number of days of Very High, Extreme and VERY EXTREME (VH+E+VE) fire danger class for Forest (FFDC), Grassland (GFDC) and Scrubland (SFDC). Canty = Canterbury, Wang/Man = Wanganui-Manawatu. The average length of record (years) and annual rainfall (mm) for each region are also included for comparative purposes.

No.	Region	No. Stations	Length of Record (years)	CDSR	VH+E+VE FFDC (days)	VH+E+VE GFDC (days)	VH+E+VE SFDC (days)	Annual Rainfall (mm)	Rank CDSR	Rank FFDC	Rank GFDC	Rank SFDC	Average Rank
1	Marlborough	3	21.0	1236.3	41.5	58.9	295.1	637.0	10.3	10.3	3.0	3.0	6.7
2	East Coast	2	42.0	647.0	16.5	33.6	265.3	1213.0	33.5	35.5	14.5	15.0	24.6
3	Mid-South Canty	8	22.8	981.8	27.2	25.2	242.5	639.6	21.8	24.8	26.9	42.0	28.8
4	North -Canty	8	29.3	894.0	26.1	24.8	242.7	745.8	22.4	23.9	28.4	43.6	29.6
5	Wairarapa	5	27.4	650.4	17.5	36.7	234.0	1064.8	35.6	32.4	17.0	50.0	33.8
6	Hawkes Bay	6	25.2	627.8	18.4	17.5	243.9	1044.0	39.3	34.7	34.7	43.3	38.0
7	Otago	21	21.4	731.1	20.9	17.1	241.6	644.7	37.7	36.1	37.2	43.7	38.7
8	Wang/Man	4	26.5	339.5	6.4	23.1	233.0	978.5	59.3	52.0	26.3	53.8	47.8
9	Nelson	2	42.5	392.5	8.3	15.7	224.6	1062.0	53.0	46.5	36.0	59.0	48.6
10	Wellington	4	41.5	411.0	7.6	0.7	249.3	1101.3	53.8	50.0	71.3	35.3	52.6
11	Northland	7	32.9	341.9	9.7	4.5	228.9	1329.3	58.6	47.3	58.0	51.4	53.8
12	Bay of Plenty	6	33.0	300.3	5.2	7.2	237.0	1365.3	66.0	56.2	51.3	49.0	55.6
13	Taranaki	4	35.5	348.3	8.1	3.7	221.7	1268.5	63.3	54.3	60.0	52.3	57.4
14	Auckland	6	30.2	285.0	3.6	3.9	224.5	1261.5	66.5	59.8	60.2	64.2	62.7
15	Southland	6	32.0	290.0	4.1	8.6	189.9	1037.0	66.5	58.7	48.0	88.8	65.5
16	Waikato	5	23.0	256.6	4.5	0.5	213.0	1259.2	70.4	56.8	72.4	69.8	67.4
17	West Coast	3	42.3	68.3	0.1	1.7	141.0	2243.7	90.7	74.7	67.3	98.3	82.8
	<b>North Island</b>	<b>49</b>	<b>31.7</b>	<b>420.8</b>	<b>9.7</b>	<b>13.1</b>	<b>235.0</b>	<b>1188.5</b>	<b>54.6</b>	<b>47.9</b>	<b>46.6</b>	<b>48.4</b>	<b>49.4</b>
	<b>South Island</b>	<b>51</b>	<b>30.2</b>	<b>656.3</b>	<b>18.3</b>	<b>21.7</b>	<b>225.3</b>	<b>1001.4</b>	<b>43.2</b>	<b>39.3</b>	<b>35.3</b>	<b>54.1</b>	<b>42.9</b>
	<b>National</b>	<b>100</b>	<b>30.9</b>	<b>538.5</b>	<b>14.0</b>	<b>17.4</b>	<b>230.2</b>	<b>1095.0</b>	<b>48.9</b>	<b>43.6</b>	<b>40.9</b>	<b>51.2</b>	<b>46.2</b>

## Other uses of the fire climatology

Analysis of historical weather and fire danger data from the network of remote automatic weather stations provides a better description of New Zealand's fire climate, and will enable fire managers from Fire and Emergency New Zealand and other agencies (e.g., Department of Conservation, forestry) to make more informed fire management decisions on prevention, preparedness, and prescribed burning activities. This will lead to improved fire risk management, more effective and efficient use of equipment and resources, and ultimately a reduction in the incidence and consequences of rural fires.

In addition to these general outcomes, the development of a comprehensive fire danger climatology and associated tools will also result in a number of more specific outcomes, many of which have been highlighted in previous sections. These include improved awareness among fire managers of the fire climate component of their fire environments, and an ability for fire managers and scientists alike to test and improve fire mitigation measures by:

- highlighting extremes of fire weather
- comparing fire climates at different locations
- defining fire climate regions
- indicating seasonal trends in fire danger
- allowing fire season comparisons
- validating and providing FWI station start-up values
- testing and validation of fire danger rating system basis (e.g., fire danger class criteria)
- defining length of fire season
- describing potential impacts of ENSO events and climate change
- improving firefighter safety
- improving fire danger forecasting and prediction of fire season severity
- improving timing of prevention activities
- imposition of fire season status and restrictions (e.g., permit issue, forest closures)
- risk assessment, and prioritisation of risk mitigation activities
- community risk planning
- predicting resource requirements and fire suppression budgets
- providing input for economic analyses of prevention and preparedness systems (e.g., initial attack guides)
- highlighting of resource effectiveness issues (e.g., effect of wind on aircraft)
- defining weather "windows" for prescribed burning

The production of the updated fire climatology also provides a better understanding of rural climates in general, and there are several potential non-fire uses for the data, for example, in agriculture, horticulture and forestry (e.g., windthrow).

To maximise the utility of the updated and extended fire climatology database, it is also proposed to develop and improve analytical tools that utilise this fire climate data, including methods for tracking and comparing fire season severity and determining the likelihood of specific fire weather conditions occurring for individual weather stations. The database is an essential component of associated research being conducted by both Scion and NIWA on prediction of fire season severity, and updating of the first of these analytical tools, a method for tracking fire season severity and comparison with past seasons<sup>17</sup>. The datasets are also being used by FENZ to support operational uses such setting of fire seasons and high fire risk activity restriction triggers (Pearce et al. 2016, FENZ 2018), as well as community fire risk modelling (e.g., Teeling & Pearce 2021).

---

<sup>17</sup> <https://www.ruralfireresearch.co.nz/tools/trends>

## Conclusions and Recommendations

---

This study has significantly contributed to the knowledge and understanding of New Zealand's fire climate by providing summaries of fire weather and fire danger ratings for 100 rural weather station locations from the 17 regions. These summaries provide detailed descriptions of the long-term average and extreme conditions experienced at each location for individual months, the fire season and year as a whole. As such, they provide a wealth of information that can be used by fire managers in developing and improving their fire management decision making.

Previous analyses (conducted in 1996, 2003 and 2011) developed and extended a database of fire weather and fire danger indices for weather stations across New Zealand, and produced summary tables describing the fire climate for a number of locations. The fire weather monitoring network has continued to grow over the past decade to now comprise over 300 stations. This study updated the fire weather station climatology datasets (to June 2021), and extended the individual station summaries to include fire danger class frequencies for Grassland (and for Forest and Scrubland included previously) as well as wind roses (a new addition). The summary statistics for each station were also used to identify the individual weather stations and geographic regions with the most severe fire climates, with stations in Marlborough, the East Coast and Canterbury again demonstrating the highest values of the fire climate severity measures contrasted.

The compilation and data quality checking of the comprehensive database of daily fire weather and fire danger information for 100 out of the 158 surveyed weather stations for which reliable long-term data was available represents the other major output from the analysis. This database is an essential component of associated research being conducted by both Scion and NIWA on prediction of fire season severity. In its own right, it also provides an extremely useful tool for FENZ and fire managers in making more informed fire management decisions on risk reduction and mitigation, preparedness, and prescribed burning activities. It is therefore essential that this data be incorporated within FENZ's FWSYS database, and then regularly updated and maintained via improved data management and quality control.

The methodology used during the statistical analysis has been automated so that regular updates of this study can be conducted more easily in future. It is suggested that this updating be conducted annually or, at the very least every 5 years, to maintain the accuracy and utility of the database and to minimise the workload required to quality check the data and repeat the analyses. Significant potential already exists to further expand the number of stations that could be included in future analyses by simply bringing the existing datasets up to date. This increasing data availability provides incentive for regularly updating the database and repeating the analyses, which will ultimately result in an even better description of New Zealand's fire climate.

## Acknowledgments

---

Appreciation is extended to Kate Melnik who helped out with the writing of some R scripts and provided guidance on database automatization, and Wayne Schou for guidance and access to Scion's fire weather station database. Thanks also go to the National Institute of Water and Atmospheric Research (NIWA) for provision of access to the National Climate Database and, together with Fire and Emergency New Zealand, access to the fire weather data contained in the Ecoconnect Fire Weather System. Finally, appreciation is also extended to members of the Scion Rural Fire Research team: Veronica Clifford and Jiawei Zhang for their valuable comments and reviewing drafts of this report.

## References

---

---

- Allaire J.; Xie Y.; McPherson J.; Luraschi J.; Ushey K.; Atkins A.; Wickham H.; Cheng J.; Chang W.; Iannone R. 2021. rmarkdown: Dynamic Documents for R. R package version 2.7, <https://github.com/rstudio/rmarkdown>.
- Alexander M.E. 1992a. Standard specifications for Fire Weather Index System computer calculations. Paper prepared for the 3rd Advisory Committee on Forest and Rural Fire Research held at the N.Z. Fire Service National Headquarters, Wellington, 21 October 1992.
- Alexander M.E. 1992b. Wildfires and fire danger rating. Seminar to NZ Meteorological Service Head Office staff, May 27, 1992, Wellington. (Abstract only).
- Alexander M.E. 1994. Proposed revision of fire danger class criteria for forest and rural fire areas in New Zealand. National Rural Fire Authority, Wellington, in association with the New Zealand Forest Research Institute, Rotorua. 73 p. [Reprinted with corrections as: Alexander M.E. 2008. Proposed revision of fire danger class criteria for forest and rural areas in New Zealand. 2nd Edition. National Rural Fire Authority, Wellington, in association with the Scion Rural Fire Research Group, Christchurch. 62 p. (Scion Contract Report No. 13054)]
- Anderson S. 2005. Forest and rural fire danger rating in New Zealand. In: Colley, M. (ed). Forestry Handbook. New Zealand Institute of Forestry, Christchurch. 241-244 p.
- Anderson S.A.J.; Pearce H.G. 2003. Improved methods for the assessment of grassland curing. Conference Proceedings, 3rd International Wildland Conference, 3-6 October 2003, Sydney, Australia. 10 p.
- Andrews P.L.; Bradshaw L.S. 1990. RXWINDOW: defining windows of acceptable burning conditions based on desired fire behaviour. USDA Forest Service, Intermountain Research Station, Ogden, Utah. General Technical Report INT-GTR-273. 54 p.
- Andrews P.L.; Bradshaw L.S.; Bunnell D.L.; Curcio G.M. 1998. Fire danger rating pocket card for firefighter safety. In Proceedings of the Second Conference on Fire and Forest Meteorology, 11-16 January 1998, Phoenix, Arizona. pp 67-70.
- Anon. 1993. Fire Weather Index System Tables for New Zealand. National Rural Fire Authority in association with the New Zealand Forest Research Institute. Wellington, N.Z. 48 p.
- Anon. 1998. Rural alert for El-Nino. New Zealand Fire Service. Star Magazine 20 (January 1998): 16.
- Anon. 2000. Summer scrub danger added to reports. New Zealand Fire Service and United Fire Brigades Association. Star 50 (September/October 2000): 21.
- Baxter G. 2000. Interim progress report on the assessment of grassland curing study, July 2000. Forest Research Unpublished Report No. 31313.
- Baxter G.J.; Woodward, S.J.R. 1999. Estimating grassland curing using soil moisture indicators and a pasture quality model. In Proceedings, Australian Bushfire 99 Conference, Albury, NSW, 7-9 July, 1999. pp 33-38.
- Beck J.A.; Alexander M.E.; Harvey S.D.; Beaver A.K. 2002. Forecasting diurnal variation in fire intensity to enhance wildland firefighter safety. International Journal of Wildland Fire 11: 173-182.
- Borger B.H. 1997. Closure of Conservation Lands for Public Safety Reasons: Fire Danger on Somes Island, Wellington, New Zealand. Department of Conservation, Wellington. Unpublished Report. 22 p.

- Briggs C.; Price R.; Pearce G. 2005. Spatial prediction of wildfire hazard across New Zealand - a significant upgrade. New Zealand Fire Service Commission, Wellington. New Zealand Fire Service Commission Research Report No. 55. 29 p. + Appendix.
- Carslaw D.C.; Ropkins K. 2012. 'openair' --- an R package for air quality data analysis. *Environmental Modelling & Software* 27-28: 52-61.
- Cheney N.P. 1976. Bushfire disasters in Australia, 1945-1975. *Australian Forestry* 39(4): 245-268.
- Clifford V.; Wallace H.; Pearce G.; Steel D.; Moller D. 2018. Evaluation of grass curing assessment methods for application in New Zealand - final report. Fire and Emergency New Zealand, Wellington. FENZ Research Report Number 165. 55 p.
- Cooper A.N.; Ashley-Jones C. 1987. Economics of fire prevention in New Zealand plantations. *New Zealand Forestry* 31(4): 14-18.
- Dudfield M.; Pearce H.G.; Cameron G. 2021. The impact of recent climate on fire danger levels in New Zealand. *New Zealand Journal of Forestry* 65(4):12-18.
- FENZ. 2018. Fire weather website. Fire and Emergency New Zealand & National Institute of Water and Atmospheric Research Limited (NIWA). <https://fireweather.niwa.co.nz/>
- Fogarty L.G.; Pearce H.G.; Catchpole W.R.; Alexander M.E. 1998. Adoption vs. adaptation: lessons from applying the Canadian Forest Fire Danger Rating System in New Zealand. In Proceedings, 3<sup>rd</sup> International Conference on Forest Fire Research and 14<sup>th</sup> Fire and Forest Meteorology Conference, Luso, Coimbra, Portugal, 16-20 November, 1998. Pp 1011-1028.
- Fogarty L.; Slijepcevic A. 1998. The influence of wind speed on the effectiveness of aerial fire suppression. New Zealand Forest Research Institute, Forest and Rural Fire Research Programme. Fire Technology Transfer Note 17 (February 1998). 8 p.
- Fogarty L.G.; Smart P.N. 1994. The development of initial attack guides and incident management structures. Paper presented to the Central North Island Forest Companies Fire Cooperative, July 1994, Waiotapu.
- Forestry Canada Fire Danger Group. 1992. Development and structure of the Canadian Forest Fire Behavior Prediction System. Forestry Canada, Science and Sustainable Development Directorate, Ottawa, Ontario. Information Report ST-X-3. 63 p.
- Furman R.W. 1979. Using fire weather data in prescribed fire planning: two computer programs. USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, Fort Collins, Colorado. General Technical Report RM-63. 11 p.
- Gohel D. 2021a. flextable: Functions for Tabular Reporting. R package version 0.6.5. <https://CRAN.R-project.org/package=flextable>
- Gohel D. 2021b. officer: Manipulation of Microsoft Word and PowerPoint Documents. R package version 0.3.18. <https://CRAN.R-project.org/package=officer>
- Gosai A.; Griffiths G. 2004. An updated validation of seasonal fire weather climate outlooks. New Zealand Fire Service Commission, Wellington. New Zealand Fire Service Commission Research Report No. 77. 9 p.
- Gosai A.; Griffiths G.; Salinger J. 2004. Climate and severe fire seasons: Part IV – Daily weather sequences and high fire severity in Auckland, West/Waikato, North Canterbury, McKenzie Basin and Central Otago/Inland Southland. New Zealand Fire Service Commission, Wellington. New Zealand Fire Service Commission Research Report No. 76. 32 p.
- Gosai A.; Heydenrych C.; Salinger J. 2003. Climate and severe fire seasons: Part III – Climate patterns and high fire severity in Northland and Canterbury. New Zealand Fire Service Commission, Wellington. New Zealand Fire Service Commission Research Report No. 75. 19 p. + Appendices.

- Gray H.W.; Janz B. 1985. Initial-attack initiatives in Alberta: a response to the 1980s. In Proceedings of the Intermountain Fire Council 1983 Fire Management Workshop, October 25-27, 1983, Banff, Alberta. Canadian Forestry Service, Northern Forestry Research Centre, Edmonton, Alberta. Information Report NOR-X-271. pp 25-36.
- Griffiths G. 2004. Climate and severe fire seasons: Part V – Daily weather sequences and high fire severity in Auckland East/Coromandel, Bay of Plenty, Gisborne/Hawke's Bay, Manawatu/Wairarapa, Wellington/Nelson/Marlborough and coastal Otago. National Institute of Water and Atmospheric Research, Auckland. NIWA Client Report AKL2004-135. 54 p.
- Grolemund G.; Wickham H. 2011. Dates and Times Made Easy with lubridate. *Journal of Statistical Software*, 40(3): 1-25. URL <https://www.jstatsoft.org/v40/i03/>.
- Gross S.; Aguilar-Arguello S. *In preparation*. New Zealand Wildfire Season Summary. Scion.
- Haines D.A.; Main W.A.; Frost J.S.; Simard A.J. 1980. Fire danger rating and wildfire occurrence in the north-eastern United States. *Forest Science* 29(4): 679-696.
- Harrington J.B.; Flannigan M.D.; Van Wagner C.E. 1983. A study of the relation of components of the Fire Weather Index to monthly provincial area burned by wildfire in Canada 1953-80. Canadian Forest Service, Chalk River, Ontario. Information Report PI-X-25.
- Harvey D.A.; Alexander M.E.; Janz B. 1986. A comparison of fire-weather severity in northern Alberta during the 1980 and 1981 fire seasons. *Forestry Chronicle* 62(6): 507-513.
- Hasson A.E.A.; Mills G.A.; Timbal B.; Walsh K. 2008. Assessing the impact of climate change on extreme fire weather in southeast Australia. Centre for Australian Weather and Climate Research, Melbourne. CAWCR Technical Report No. 7. 81 p.
- Hennessy K.; Lucas C.; Nicholls N.; Bathols J.; Suppiah R.; Ricketts J. 2005. Climate change impacts on fire weather in south-east Australia. Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia. December 2005. 34 p. + Appendices.
- Heydenrych C.; Salinger J. 2002. Climate and severe fire seasons: Part II – New Zealand fire regions. New Zealand Fire Service Commission, Wellington. New Zealand Fire Service Commission Research Report No. 73. 46 p.
- Heydenrych C.; Salinger J.; Renwick J. 2001. Climate and severe fire seasons: a report on climatic factors contributing to severe fire seasons in New Zealand. New Zealand Fire Service Commission, Wellington. New Zealand Fire Service Commission Research Report No. 11. 117 p.
- IPCC, 2021. Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Delmotte, V., P. Zhai, A. Pirani, S.L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M.I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J.B.R. Matthews, T.K. Maycock, T. Waterfield, O. Yelekçi, R. Yu, and B. Zhou (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, In press, doi:10.1017/9781009157896.
- Leathwick J.R.; Briggs C.M. 2001. Spatial prediction of wildfire hazard across New Zealand. New Zealand Fire Service Commission, Wellington. New Zealand Fire Service Commission Research Report No. 22. 13 p.
- Macara G.; Sutherland D. 2017. Fire risk assessment: A measure to quantify fire risk for New Zealand locations. NIWA Client Report Number 2017187WN. 13 p.
- Main W.A.; Straub R.J.; Paananen D.M. 1982. FIREFAMILY: fire planning with historic weather data. USDA Forest Service, North Central Forest Experiment Station, St Paul, Minnesota. General Technical Report NC-73. 31 p.
- Majorhazi K.; Pearce G. 2001. Tracking fire season severity: a convenient method of tracking the fire season severity using the Daily Severity Rating. Online. National Rural Fire Authority website, <http://nrfa.fire.org.nz/publications/articles/fireworm/index.htm> (28/2/01).



- McAlpine R.S. 1990. Seasonal trends in the Drought Code component of the Canadian Forest Fire Weather Index System. Forestry Canada, Petawawa National Forestry Institute, Chalk River, Ontario. Information Report PI-X-97E/F. 36 p.
- Merrill D.F.; Alexander M.E. (Eds.). 1987. Glossary of Forest Fire Management Terms (4<sup>th</sup> Ed.). National Research Council of Canada, Canadian Committee on Forest Fire Management, Ottawa, Ontario. Publication NRCC No. 26516.
- MetSocNZ. 2023. Meteorological Society of New Zealand (Inc.). Newsletter 171, Summer 2022/23.
- Moore J.R.; Pearce H.G.; Anderson S.A.J.; Bulman L.S.; Hock B.K. 2002. Assessment of selected biotic and abiotic risks to the estate of Fletcher Challenge Forests Limited. Forest Research Contract Report No. 9574, prepared for Fletcher Challenge Forests Limited, July 2002. (Confidential).
- Newnham G.; Clifford V.; Pearce G.; Grant I.; Wood S.; Uddstrom M. 2015. New Zealand grassland curing satellite algorithms development and mapping system implementation. Scion Client Report No. 22828. 55 p.
- Nikleva S. 1973. Fire Weather Index climatology for Prince George, B.C. Environment Canada, Atmospheric Environment Service, Pacific Region, Vancouver, B.C. 16 p.
- NIWA. 2023. Climate summaries. National Institute of Water and Atmospheric Research, Wellington. <https://niwa.co.nz/climate/summaries>
- NZ Fire Research. 2000. Fire Research Update. Newsletter of the Forest and Rural Fire Research Programme, New Zealand Forest Research Institute, Christchurch. October 2000. 2 p.
- NZMS. 1983a. Summaries of climatological observations to 1980. New Zealand Meteorological Service, Wellington. NZMS Miscellaneous Publication 177. 172 p.
- NZMS. 1983b. Climatic map series (1:2 000 000). Part 2: Climate regions. New Zealand Meteorological Service, Wellington. NZMS Miscellaneous Publication 175.
- NZMS. 1986. Climate of New Zealand. New Zealand Meteorological Service, Wellington. NZMS Information Publication 15. 8 p.
- OMNR. 1989. Guidelines for modifying forest operations in response to fire danger. Ontario Ministry of Natural Resources, Aviation Fire Management Centre, Sault Ste. Marie, Ontario. 13 p.
- Pairman D.; Barnes E.J.; Fogarty L.G. 1995. Initial evaluation of satellite derived NDVI to estimate the degree of curing and composite fuel moisture content in grasslands. NZ FRI Project Record No. 4805.
- Pearce H.G. 1996. An initial assessment of fire danger in New Zealand's climatic regions. New Zealand Forest Research Institute, Forest and Rural Fire Research Programme. Fire Technology Transfer Note 10 (October 1996). 28 p.
- Pearce H.G. 1998. Fire research update. In Proceedings, Forest and Rural Fire Association of New Zealand (FRFANZ) 8th Annual Conference, 5-7 August, 1998, Palmerston North.
- Pearce H.G. 2001. A New Zealand scrubland fire danger model: scientific rigour versus operational need. In Proceedings, Bushfire 2001 Conference, 3-6 July 2001, Christchurch, New Zealand. pp 53. (Abstract only).
- Pearce G. 2020. Management of Fire Seasons and Activities Project – Triggers for High Fire Risk Activities. Fire and Emergency New Zealand, Wellington. September 2020. 18 p.
- Pearce H.G.; Douglas K.L.; Moore J.R. 2003. A fire danger climatology for New Zealand. New Zealand Fire Service Commission, Wellington. New Zealand Fire Service Commission Research Report No. 39. 289 p.

- Pearce H.G.; Hawke A.E. 1999. An investigation into the length of record required for analysis of fire climate data in New Zealand. Forest Research Unpublished Report No. 7525.
- Pearce H.G.; Moore J.R. 2004. Use of long-term fire danger data sets to predict fire season severity. Forest Research Client Report No. 11512. 22 p. + Appendices.
- Pearce H.G.; Whitmore M.A. 2009. Analysis of seasonal trends in the Drought Code in New Zealand. Scion Client Report No. 12788. 59 p.
- Pearce H.G.; Clifford V.R.; Teeling T. 2016. Nelson/Marlborough STFMP Activity Triggers – technical paper. Final Report (September 2016). Scion and Integrated Consultancy Ltd, Christchurch. 54 p. + appendices.
- Pearce H.G.; Kerr J.; Clark A.; Mullan B.; Ackerley D.; Carey-Smith T.; Yang E. 2011b. Improved estimates of the effect of climate change on NZ fire danger. Ministry of Agriculture & Forestry, Wellington. MAF Technical Paper No. 2011/13. 84 p.
- Pearce H.G.; Kerr J.L.; Clifford V.R.; Wakelin H.M. 2011a. Fire climate severity across New Zealand. New Zealand Fire Service Commission, Wellington. New Zealand Fire Service Commission Research Report No. 116. 78 p.
- Pearce H.G.; Mullan A.B.; Salinger M.J.; Opperman T.W.; Woods D.; Moore J.R. 2005. Impact of climate change on long-term fire danger. New Zealand Fire Service Commission, Wellington. New Zealand Fire Service Commission Research Report 50. 70 p.
- Pearce H.G.; Salinger J.; Renwick J. 2007. Impact of climate variability on fire danger. New Zealand Fire Service Commission, Wellington. New Zealand Fire Service Commission Research Report No. 72. 117 p.
- R Core Team. 2021. R: A language and environment for statistical computing. Foundation for Statistical Computing, Vienna, Austria. <https://www.R-project.org/>
- Renwick J. A.; Salinger M.J. 2004. Validation of seasonal fire climate outlooks. National Institute of Water and Atmospheric Research, Auckland. NIWA Client Report (National Rural Fire Authority) AKL2003-34. 6 p.
- Salinger J.; Zheng X.; Thompson C. 1999. Climate and severe fire seasons. National Institute of Water and Atmospheric Research Ltd., Auckland. Report prepared for the National Rural Fire Authority. 22 p.
- Scion. 2021. Tracking of trends in BUI, DC, CDSR. Fire danger trends graphing tool (v1.0). Scion, Rotorua. <https://www.scionresearch.com/rural-fire-research/tools/trends>
- Simard A.J. 1972. Forest Fire Weather Index data - Reference manual and station catalogue. Environment Canada, Canadian Forestry Service, Forest Fire Research Institute, Ottawa, Ontario. Information Report FF-X-32. 28 p.
- Simard A.J. 1973. Forest fire weather zones of Canada. Environment Canada, Canadian Forestry Service. (Poster with text).
- Simard A.J.; Valenzuela J. 1972. A climatological summary of the Canadian Forest Fire Weather Index. Canadian Forestry Service, Forest Fire Research Institute, Ottawa. Information Report FF-X-34. 425 p.
- Simpson C.C.; Pearce H.G.; Sturman A.P.; Zawar-Reza P. 2014. Verification of WRF modelled fire weather in the 2009-10 New Zealand fire season. International Journal of Wildland Fire 23(1): 34-45.
- StatsNZ. 2020. Wildfire risk. Statistics New Zealand, Tauranga Aotearoa. Wellbeing Indicators, Environment, Atmosphere and Climate. <https://www.stats.govt.nz/indicators/wildfire-risk/>
- Stocks B.J. 1971. Fire severity index distribution in Ontario 1963 to 1968. Canadian Forestry Service, Great Lakes Forestry Research Centre, Sault Ste. Marie, Ontario. Information Report O-X-151. 18 p.

- Stocks B.J.; Alexander M.E.; Van Wagner C.E.; McAlpine R.S.; Lynham T.J.; Dube D.E., 1989. The Canadian Forest Fire Danger Rating System: an overview. *Forestry Chronicle* 65: 258-265.
- Stocks B.J.; Fosberg M.A.; Lynham T.J.; Mearns L.; Wotton B.M.; Yang Q.; Jin J-Z.; Lawrence, K.; Hartley G.R.; Mason J.A.; McKenney D.W. 1998. Climate change and forest fire potential in Russian and Canadian boreal forests. *Climatic Change* 38: 1-13.
- Tapper N.J.; Garden G.; Gill J.; Fernon J. 1993. The climatology and meteorology of high fire danger in the Northern Territory. *Rangeland Journal* 15(2): 339-351.
- Taylor S.W.; Pike R.G.; Alexander M.E. 1997. Field Guide to the Canadian Forest Fire Behavior Prediction (FBP) System. Natural Resources Canada, Canadian Forest Service, Northern Forestry Centre, Edmonton, Alberta. Special Report 11. 60 p. + appendices.
- Teeling T.; Pearce G. 2021. Lake Tekapo wildfire risk management analysis. Report prepared for Fire and Emergency New Zealand, Mid-South Canterbury District. Integrated Consultancy Ltd & Scion. 82 p. (Draft Operable version)
- Valentine J.M. 1978. Fire danger rating in New Zealand: review and evaluation. New Zealand Forest Service, Forest Research Institute, Production Forestry Division, Rotorua. Forest Establishment Report No. 123. 53 p.
- Van Wagner C.E. 1987. Development and structure of the Canadian Forest Fire Weather Index System. Government of Canada, Canadian Forestry Service, Ottawa, Ontario. Forestry Technical Report 35. 37 p.
- Van Wagner C.E.; Pickett T.L. 1985. Equations and FORTRAN program for the Canadian Forest Fire Weather Index System. Government of Canada, Canadian Forestry Service, Ottawa, Ontario. Forestry Technical Report 33. 18 p.
- Wickham H.; Bryan J. 2019. readxl: Read Excel Files. R package version 1.3.1. <https://CRAN.R-project.org/package=readxl>
- Wickham H.; François R.; Henry L.; Müller K. 2021. dplyr: A Grammar of Data Manipulation. R package version 1.0.5. <https://CRAN.R-project.org/package=dplyr>
- Williams A.A.J. 1998. Observed extreme fire weather in Australia and the impact of ENSO. In Proceedings, 13th Conference on Fire and Forest Meteorology, 27-31 October 1996, Lorne, Australia. International Association of Wildland Fire. pp. 279-285.
- Wotton B.M.; Flannigan, M.D. 1993. Length of fire season in a changing climate. *Forestry Chronicle* 69(2): 187-192.
- Wotton B.M.; Stocks B.J.; Flannigan M.D.; Laprise R.; Blanchet J-P. 1998. Estimating future 2xCO<sub>2</sub> fire climates in the boreal forest of Canada using a regional climate model. In Proceedings, 3rd International Conference on Forest Fire Research and 14th Fire and Forest Meteorology Conference, Luso, Coimbra, Portugal, 16-20 November, 1998. pp 1207-1221.
- Xie Y. 2021. knitr: A General-Purpose Package for Dynamic Report Generation in R. R package version 1.32.

## Appendix 1. Summary of Data Availability for Individual Weather Stations.

Station Code <sup>a</sup>	Station Name	Region	Start Date	End Date	Length of Record <sup>b</sup> (years)	Dataset Quality <sup>c</sup> (%complete)
<b>APP</b>	Aupouri Peninsula Raws	Northland	21/11/1994	1/07/2021	26	100
<b>DAR</b>	Dargaville Raws	Northland	1/01/1979	1/07/2021	42	100
<b>HOK</b>	Hokianga Raws	Northland	29/11/1996	1/07/2021	24	100
<b>KOE</b>	Kaikohe Raws	Northland	30/11/1994	1/07/2021	26	100
<b>KX</b>	Kaitia Observatory	Northland	1/01/1963	1/07/2021	58	100
MKA	Mangakahia Raws	Northland	8/01/2007	1/07/2020	12	100
<b>OPO</b>	Opouteke Raws	Northland	13/10/1995	1/07/2021	25	100
PTU	Pouto Raws	Northland	1/12/1993	1/07/2020	26	100
PEX	Purerua	Northland	9/01/1995	1/07/2020	24	73.5
WGF	Waitangi Forest Raws	Northland	13/12/1994	1/07/2020	25	93.7
<b>WRA</b>	Whangarei Aero Aws	Northland	1/01/1992	1/07/2021	29	100
<b>AKL</b>	Auckland Aero	Auckland	1/01/1967	1/07/2021	54	100
<b>CDT</b>	Cornwallis Depot Raws	Auckland	18/11/1993	1/07/2021	27	100
<b>CLV</b>	Clevedon Coast Raws	Auckland	5/10/1994	1/07/2021	26	100
<b>GBI</b>	Great Barrier Island Raws	Auckland	6/07/1994	1/07/2021	26	100
KAI	Kaipara Raws	Auckland	9/11/1997	1/07/2020	22	89.4
MAH	Mahurangi Forest Raws	Auckland	23/10/1995	1/07/2020	24	90.6
	Patumahoe Raws	Auckland	19/10/1996	1/07/2020	23	92.2
	Waharau Raws	Auckland	16/07/1996	1/07/2021	24	100
<b>WDH</b>	Woodhill Raws	Auckland	16/07/1996	1/07/2021	24	100
<b>ATH</b>	Athol Raws	Waikato	3/11/1992	1/07/2021	28	100
<b>COR<sup>o</sup></b>	Coromandel	Waikato	1/01/1979	1/05/2000	21	100.0
<b>HNA</b>	Hamilton Aero	Waikato	1/10/1991	1/07/2021	29	100
<b>PAX</b>	Paeroa	Waikato	1/10/1991	1/07/2021	29	100
<b>TRX</b>	Port Taharoa Aws	Waikato	1/01/1995	1/07/2021	26	100
	Waeranga Raws	Waikato	27/10/2017	1/07/2021	3	100
WKB	Waikawau Bay Raws	Waikato	16/07/1997	1/07/2020	22	94.5
	Waitomo Raws	Waikato	12/06/1998	1/07/2020	21	97.1
WGM	Whangamata Raws	Waikato	22/03/1996	1/07/2020	23	100
WTA	Whitianga Aero	Waikato	1/01/1992	1/07/2020	28	93.1
APA	Taupo Aero	Bay of Plenty	1/01/1979	1/07/2020	41	89.7
GAL	Galatea Raws	Bay of Plenty	7/03/1996	1/07/2020	23	100
GDE	Goudies	Bay of Plenty	18/10/1993	1/07/2020	26	100
KAW	Kawerau Raws	Bay of Plenty	26/08/1996	1/07/2020	23	100
MIN	Minginui Raws	Bay of Plenty	2/07/1998	1/07/2020	21	99.9
<b>MTE</b>	Matea Raws	Bay of Plenty	18/10/1993	1/07/2021	27	100
RHU	Rotoehu Raws	Bay of Plenty	6/03/1996	1/07/2020	23	100
<b>ROA</b>	Rotorua Aero Aws	Bay of Plenty	1/01/1965	1/07/2021	56	100
ROT	Rotoaira Raws	Bay of Plenty	31/07/1998	1/07/2020	21	73.9
TAH	Tahorakuri Raws	Bay of Plenty	1/01/1995	1/07/2020	25	100
<b>TGA</b>	Tauranga Aero SYNOP	Bay of Plenty	1/01/1971	1/07/2021	50	100
TPE	Te Puke Ews	Bay of Plenty	1/10/1991	1/07/2020	28	100
<b>WGO</b>	Waihi Gold Raws	Bay of Plenty	30/05/1998	1/07/2021	22	100
<b>WHB</b>	Waihau Bay Raws	Bay of Plenty	1/01/2007	1/07/2021	14	100
<b>WKA</b>	Whakatane Aero Aws	Bay of Plenty	1/01/1992	1/07/2021	29	100
<b>BRP</b>	Bridge Pa Raws	Hawkes Bay	25/02/1997	1/07/2021	23	100
<b>CRK</b>	Cricklewood Raws	Hawkes Bay	26/08/1996	1/07/2021	24	100
CRT	Crownthorpe Raws	Hawkes Bay	19/03/1999	1/07/2020	21	100
GWA	Gwavas Raws	Hawkes Bay	14/10/1997	1/07/2020	22	99.2
KWK	Kaiwaka Raws	Hawkes Bay	11/08/1994	1/07/2020	25	99.0
<b>MHX</b>	Mahia	Hawkes Bay	14/10/1994	1/07/2021	26	100
<b>NRA</b>	Napier Aero SYNOP	Hawkes Bay	30/09/1991	1/07/2021	29	100
ONG	Ongaonga Raws	Hawkes Bay	22/10/1997	1/07/2020	22	100
<b>THA</b>	Te Haroto Raws	Hawkes Bay	27/08/1996	1/07/2021	24	100
<b>TEP</b>	Te Pohue Raws	Hawkes Bay	23/09/1995	1/07/2021	25	100
WAH	Waihau Raws	Hawkes Bay	2/11/1995	1/07/2020	24	100
WPK	Waipukurau Raws	Hawkes Bay	17/08/1994	1/07/2020	25	100

Station Code	Station Name	Region	Start Date	End Date	Length of Record (years)	Dataset Quality (%complete)
<b>GSA</b>	<i>Gisborne Aero</i>	<i>East Coast</i>	<i>1/01/1963</i>	<i>1/07/2021</i>	<i>58</i>	<i>100</i>
<b>HIX</b>	Hicks Bay	East Coast	18/09/1994	1/07/2021	26	100
ELT	Eltham Raws	Taranaki	10/10/2000	1/07/2020	19	99.6
<b>HAW</b>	Hawera Aws	Taranaki	29/01/2004	1/07/2021	16	100
<b>WHG</b>	Marco Raws	Taranaki	31/07/1994	1/07/2021	26	100
<b>NPA</b>	<i>New Plymouth SYNOP</i>	<i>Taranaki</i>	<i>1/01/1963</i>	<i>1/07/2021</i>	<i>58</i>	<i>100</i>
OKT	Okato Raws	Taranaki	15/12/1996	1/07/2020	23	99.1
WAV	Waverly Raws	Taranaki	30/10/1995	1/07/2020	24	100
<b>WUA</b>	Wanganui Aero	Taranaki	1/01/1979	1/07/2021	42	100
-	Wanganui, Spriggens Park Ews	Taranaki	16/07/1996	1/07/2020	23	100
<b>LNX</b>	Levin Aws	Wang/Man	1/10/1991	1/07/2021	29	100
NAT	National Park Raws	Wang/Man	28/04/1996	1/07/2020	23	100
<b>NTA</b>	Ngamatea Raws	Wang/Man	22/10/1993	1/07/2021	27	100
<i>OHAA</i>	<i>Ohakea</i>	<i>Wang/Man</i>	<i>1/01/1961</i>	<i>23/06/1996</i>	<i>32</i>	<i>75.9</i>
<b>PMA</b>	Palmerston North SYNOP	Wang/Man	30/09/1995	1/07/2021	25	100
<b>RAU</b>	Raumai Raws	Wang/Man	30/09/1995	1/07/2021	25	100
RUX	Waiouru Airstrip Aws	Wang/Man	1/10/1991	1/07/2020	28	100
TPU	Tapuae Raws	Wang/Man	6/09/1996	1/07/2020	23	100
WAF	Waimarino Forest Raws	Wang/Man	27/04/1996	1/07/2020	23	100
WAO	Waione	Wang/Man	9/10/1995	1/07/2020	24	100
WTF	Waitarere Forest Raws	Wang/Man	28/07/1994	1/07/2020	25	100
<b>CPX</b>	Castlepoint SYNOP	Wairarapa	1/10/1991	1/07/2021	29	100
HAU	Haurangi Raws	Wairarapa	1/10/1995	1/07/2020	24	100
<b>HWT</b>	Holdsworth Station Raws	Wairarapa	22/08/1994	1/07/2021	26	100
<b>MSX</b>	Masterton Aero Aws	Wairarapa	1/10/1991	1/07/2021	29	100
<b>NMU</b>	Ngamu	Wairarapa	4/11/1993	1/07/2021	27	100
<b>NWX</b>	Ngawihi	Wairarapa	16/11/1994	1/07/2021	26	100
STO	Stony Creek Raws	Wairarapa	19/09/1995	1/07/2020	24	100
BEL	Belmont Raws	Wellington	24/11/1997	1/07/2020	22	100
<b>PPA</b>	<i>Paraparaumu Aero SYNOP</i>	<i>Wellington</i>	<i>1/01/1963</i>	<i>1/07/2021</i>	<i>58</i>	<i>100</i>
<b>RFP</b>	Remutaka Forest Park Raws	Wellington	3/08/1994	1/07/2021	26	100
TEH	Te Horo Raws	Wellington	5/09/1992	1/07/2021	28	100
<b>TTB</b>	Titahi Bay Raws	Wellington	2/05/1998	1/07/2021	22	100
<b>WNA</b>	<i>Wellington Aero SYNOP</i>	<i>Wellington</i>	<i>1/01/1961</i>	<i>1/07/2021</i>	<i>60</i>	<i>100</i>
BPO	Big Pokororo Raws	Nelson	7/12/1998	1/07/2020	21	100
DOV	Dovedale Raws	Nelson	29/12/1993	1/07/2020	26	100
<b>HIR</b>	Hira Raws	Nelson	7/12/1993	1/07/2021	27	100
MUR	Murchison Raws	Nelson	30/03/1998	1/07/2020	21	100
<b>NSA</b>	<i>Nelson Aero</i>	<i>Nelson</i>	<i>1/01/1963</i>	<i>1/07/2021</i>	<i>58</i>	<i>100</i>
WBD	Western Boundary Raws	Nelson	6/10/1999	1/07/2020	21	98.8
<b>AWV</b>	Awatere Valley, Dashwood Raws	Marlborough	2/09/1994	1/07/2021	26	100
-	Cape Campbell SYNOP	Marlborough	5/11/2012	1/07/2021	8	100
KHD	Kenepuru Head Raws	Marlborough	25/10/1993	1/07/2020	26	100
<i>KIX</i>	<i>Kaikoura SYNOP</i>	<i>Marlborough</i>	<i>1/01/1965</i>	<i>1/07/2021</i>	<i>56</i>	<i>99.9</i>
MLX	Molesworth Raws	Marlborough	1/10/1992	1/07/2020	28	89.9
OSN	Opua Bay Raws	Marlborough	10/12/1993	1/07/2020	23	83.8
RAI	Rai Valley Raws	Marlborough	10/10/1996	1/07/2020	23	100
<b>WBA</b>	Blenheim Aero Aws	Marlborough	1/01/1992	1/07/2021	29	100
<b>HKA</b>	<i>Hokitika SYNOP</i>	<i>West Coast</i>	<i>1/01/1965</i>	<i>1/07/2021</i>	<i>56</i>	<i>100</i>
HTX	Haast SYNOP	West Coast	9/04/1993	1/07/2020	26	99.9
NCR	Nelson Creek Raws	West Coast	1/12/1999	1/07/2020	20	99.0
<b>REF</b>	Reefton Ews	West Coast	25/07/1999	1/07/2021	21	100
<b>WSA</b>	<i>Westport Aero Aws</i>	<i>West Coast</i>	<i>1/01/1971</i>	<i>1/07/2021</i>	<i>50</i>	<i>100</i>
ASY	Ashley Raws	North-Canty	19/12/1993	1/07/2020	26	98.0
<b>BML</b>	Balmoral Raws	North-Canty	6/11/1994	1/07/2021	26	100
<b>BTL</b>	Bottle Lake Forest Raws	North-Canty	28/10/1993	1/07/2021	27	100
BUR	Burnham Raws	North-Canty	6/09/1996	1/07/2020	23	98.2

Station Code <sup>a</sup>	Station Name	Region	Start Date	End Date	Length of Record <sup>b</sup> (years)	Dataset Quality <sup>c</sup> (%complete)
<b>CHA</b>	<i>Christchurch Aero SYNOP</i>	<i>North-Canty</i>	<i>1/01/1961</i>	<i>1/07/2021</i>	<i>60</i>	<i>100</i>
<b>HAN</b>	Hanmer Forest Ews	North-Canty	16/07/1996	1/07/2021	24	100
<b>LBX</b>	Le Bons Bay Aws	North-Canty	16/11/1994	1/07/2021	26	100
<b>LEV</b>	Lees Valley Raws	North-Canty	8/11/1997	1/07/2021	23	100
<b>MTK</b>	Motukarara Raws	North-Canty	15/08/1999	1/07/2021	21	100
<b>SDN</b>	Snowdon Raws	North-Canty	27/10/1993	1/07/2021	27	100
<b>ASH</b>	Ashburton Plains Raws	Mid-South Canty	15/07/1996	1/07/2020	20	100
<b>CAN</b>	Cannington Raws	Mid-South Canty	24/02/1994	1/07/2021	26	100
-	Lake Tekapo Ews	Mid-South Canty	18/06/2003	1/07/2021	17	100
<b>MTS</b>	Mount Somers Raws	Mid-South Canty	15/06/1998	1/07/2021	22	100
<b>PKA</b>	Pukaki Aero Raws	Mid-South Canty	8/02/2000	1/07/2021	20	100
<b>THE</b>	Tara Hills Aws	Mid-South Canty	1/10/1991	1/07/2021	24	100
<b>TEK</b>	Tekapo Raws	Mid-South Canty	24/05/1996	1/07/2021	24	100
<b>TUA</b>	Timaru Aero SYNOP	Mid-South Canty	1/01/1992	1/07/2021	29	100
<b>WHR</b>	Waihaorunga Raws	Mid-South Canty	9/02/2000	1/07/2021	20	100
-	Bucklands Raws	Otago	30/07/2007	1/07/2021	13	100
-	Butchers Dam Raws	Otago	16/12/2009	1/07/2021	11	100
<b>CLY</b>	Clyde 2 Ews	Otago	19/09/1997	1/07/2021	23	100
<b>CRM</b>	Cromwell	Otago	31/11/2009	1/07/2021	11	85.9
<b>DNA</b>	<i>Dunedin Aero SYNOP</i>	<i>Otago</i>	<i>1/01/1964</i>	<i>1/07/2021</i>	<i>57</i>	<i>100</i>
<b>DNP</b>	Danse Pass Raws	Otago	20/08/1994	1/07/2021	26	100
<b>GLD</b>	Glendhu Raws	Otago	16/08/2000	1/07/2021	20	100
<b>CYB</b>	Glenledi Raws	Otago	24/08/1994	1/07/2021	26	100
-	Hawea Flat Raws	Otago	18/05/2017	1/07/2021	3	100
<b>HRB</b>	Herbert	Otago	1/01/2007	1/07/2021	14	100
<b>LAE</b>	Lauder Ews	Otago	1/10/1991	1/07/2021	29	100
<b>MCR</b>	Macrae's Raws	Otago	1/01/2007	1/07/2021	14	100
<b>NRB</b>	Naseby	Otago	1/01/2007	1/07/2021	14	100
<b>NGX</b>	Nugget Point Aws	Otago	1/09/1999	1/07/2021	21	100
<b>OUA</b>	Oamaru Aero	Otago	1/10/1991	1/07/2021	29	100
-	Otematata Raws	Otago	17/11/2016	1/07/2021	4	100
<b>QNA</b>	<i>Queenstown Aero</i>	<i>Otago</i>	<i>1/01/1979</i>	<i>1/07/2021</i>	<i>42</i>	<i>100</i>
<b>RLY</b>	Ranfurly Ews	Otago	19/02/2001	1/07/2021	19	100
<b>RNP</b>	Rock and Pillar Raws	Otago	22/02/1996	1/07/2020	23	100
<b>TPN</b>	Tapanui Raws	Otago	21/08/1994	1/07/2020	25	100
<b>TRQ</b>	Traquair Raws	Otago	4/11/1993	1/07/2021	27	100
<b>WFA</b>	Wanaka Aero Aws	Otago	11/03/1994	1/07/2021	26	100
<b>WND</b>	Windsor Ews	Otago	23/11/2000	1/07/2021	18	100
<b>BMT</b>	Blackmount Raws	Southland	4/11/1993	1/07/2021	27	100
<b>MOS</b>	Barnhill Raws	Southland	9/10/1996	1/07/2021	24	100
<b>NVA</b>	<i>Invercargill Aero SYNOP</i>	<i>Southland</i>	<i>1/01/1961</i>	<i>1/07/2021</i>	<i>60</i>	<i>100</i>
<b>LUX</b>	Lumsden Aws	Southland	1/10/1991	1/07/2021	29	100
<b>MSD</b>	Milford Sound Raws	Southland	1/01/1995	1/07/2021	26	71.9
<b>SLP</b>	Slopedown Raws	Southland	5/10/1994	1/07/2020	25	99.9
<b>TUT</b>	Tuatapere Raws	Southland	15/08/1994	1/07/2021	26	100
<b>WRY</b>	Wreys Bush Raws	Southland	16/08/1994	1/07/2021	26	100
<b>Stations completed</b>		<b>100</b>			<b>27</b>	<b>100</b>
<b>All stations surveyed</b>		<b>158 + 2 discontinued (COR &amp; OHA)</b>			<b>27</b>	<b>98.7</b>

Notes:

- Data for stations indicated in *italics* (e.g., AKL, COR) are from Pearce (1996); data for all other stations were obtained from the FENZ Fire Weather archive. Stations indicated in **bold** depict those stations included in the final analyses for which summary tables were produced.
- Length of record in full calendar years (1 Jan - 31 Dec).
- Dataset quality (% complete) based on counts of missing values; does not include erroneous or repeated values found subsequently, or missing values from wind direction.
- Bay of Plenty was previously named as Central North Island (CNI).
- Coromandel (COR) and Ohakea (OHA) were stations used in Pearce (1996) that have since been discontinued, hence were disregarded from the survey.

## Appendix 2. Fire Climate Summaries for Individual Weather Stations by Region.

---

---

### Table of contents for Appendix 2

	<u>Page</u>
<u><i>NORTH ISLAND</i></u>	
Northland .....	59
Auckland .....	80
Waikato .....	98
Central North Island .....	113
Eastern .....	131
Taranaki .....	155
Wanganui/Manawatu .....	167
Wairarapa .....	179
Wellington .....	194
 <u><i>SOUTH ISLAND</i></u>	
Nelson .....	206
Marlborough .....	112
West Coast .....	221
North Canterbury .....	230
South Canterbury .....	257
Otago .....	278
Southland .....	341

Station Name: Aupouri Peninsula Raws  
(APP)

Period: 1994-11-21 - 2021-07-02

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	21.5	22.3	21.4	19.5	17.4	15.4	14.6	14.6	15.8	17.0	18.3	20.0	18.2	20.0
median	21.6	22.5	21.5	19.6	17.6	15.6	14.6	14.7	15.7	16.9	18.1	20.0	18.0	20.1
max	26.5	28.0	26.8	24.3	23.0	20.6	19.6	20.2	22.5	25.2	25.2	26.7	28.0	28.0
min	15.3	15.0	14.9	12.9	8.1	7.2	7.6	8.3	8.3	12.2	11.8	11.1	7.2	11.1
<b>Relative Humidity, %</b>														
mean	71.7	70.8	71.0	73.9	75.2	76.8	76.0	75.1	74.4	73.5	73.1	73.8	73.8	72.5
median	71.0	69.0	69.0	72.0	75.0	76.0	75.9	74.8	74.0	72.2	72.0	72.0	73.0	71.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	45.0	36.0	40.0	33.6	37.0	43.0	40.0	46.0	35.0	44.0	45.0	45.0	33.6	33.6
<b>Wind Speed, km/h</b>														
mean	22.5	22.0	21.5	20.9	21.0	20.9	22.2	22.5	23.1	23.6	23.0	21.6	22.1	22.2
median	21.9	20.9	20.9	20.0	20.5	20.1	21.3	22.0	22.4	23.4	22.3	21.1	21.4	21.6
max	60.7	53.4	61.5	56.2	64.8	60.3	78.5	56.2	54.9	52.2	73.2	50.5	78.5	73.2
min	0.4	0.0	0.0	1.7	1.0	1.2	0.0	1.6	2.9	4.2	0.0	0.0	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	1.9	2.3	3.2	3.2	3.5	4.2	4.5	3.3	2.8	2.4	2.0	2.7	3.0	2.5
median	0.0	0.0	0.0	0.2	0.4	0.9	1.0	0.8	0.2	0.2	0.2	0.0	0.2	0.0
max	107.8	105.6	153.4	82.6	126.0	69.6	130.4	62.0	85.6	89.8	49.6	82.0	153.4	153.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	59.0	61.3	96.7	96.1	112.0	126.1	139.1	103.2	84.7	74.3	60.1	87.5	91.7	76.4
max	232.0	204.6	287.8	395.4	287.2	215.8	321.6	179.0	145.6	248.0	159.6	244.2	395.4	395.4
min	2.6	9.6	6.0	8.2	19.6	38.6	19.6	1.0	5.6	8.6	13.6	9.0	1.0	2.6
<b>Seasonal Rainfall, millimetres</b>														
mean													1100.2	539.7
max													1581.0	1004.4
min													653.2	278.0
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	77.3	76.1	75.1	69.7	66.8	61.3	60.7	64.5	68.3	72.5	74.1	72.8	69.9	73.9
median	83.7	84.0	83.1	78.9	74.0	67.0	65.5	69.0	75.7	79.1	80.7	81.8	78.5	81.9
max	88.2	89.5	89.2	88.8	87.5	86.2	86.4	86.6	87.8	86.9	89.0	87.8	89.5	89.5
min	1.4	1.7	0.2	2.2	1.3	0.9	1.3	4.6	2.8	0.3	10.5	2.7	0.2	0.2
<b>Duff Moisture Code, DMC</b>														
mean	22.2	26.4	19.8	13.1	5.1	2.0	1.5	3.1	6.1	9.0	13.7	16.5	11.5	17.2
median	19.7	19.8	15.8	7.2	3.5	1.3	0.9	1.5	3.4	6.4	10.8	13.0	6.0	11.9
max	79.2	94.6	102.9	98.7	82.6	19.4	16.3	33.2	49.2	67.5	81.1	72.5	102.9	102.9
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	277.7	332.9	310.6	260.1	183.3	78.5	19.3	19.7	30.2	61.2	127.5	197.3	158.9	224.0
median	259.9	332.3	288.9	254.0	152.5	42.7	9.2	10.2	16.5	45.2	112.0	199.8	101.2	200.2
max	640.7	729.7	671.4	796.9	802.4	402.3	216.4	158.9	233.2	352.8	514.1	619.4	802.4	796.9
min	7.4	23.4	4.4	3.7	1.7	1.9	1.5	1.5	1.6	3.2	4.8	6.9	1.5	3.2
<b>Initial Spread Index, ISI</b>														
mean	5.3	5.4	4.7	3.4	2.6	2.0	2.0	2.4	3.0	3.6	4.0	4.0	3.5	4.3
median	4.7	5.0	4.3	2.9	2.1	1.5	1.5	1.8	2.5	3.3	3.5	3.8	2.9	3.9
max	27.8	29.2	21.1	18.9	16.2	19.9	18.0	18.7	17.5	15.2	19.9	18.6	29.2	29.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	35.8	42.5	32.8	21.7	8.7	3.3	2.2	4.1	7.8	12.6	20.9	26.2	18.2	27.5
median	32.4	33.6	27.3	12.6	5.8	2.2	1.3	2.0	4.4	9.2	17.1	21.7	9.6	19.6
max	109.6	138.7	141.8	148.9	131.3	33.5	22.9	43.6	64.4	91.4	110.2	104.7	148.9	148.9
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	11.0	12.3	9.6	5.8	2.6	1.2	1.1	1.8	2.8	4.3	6.4	7.5	5.5	8.1
median	10.2	10.2	8.2	3.4	1.0	0.5	0.4	0.6	1.4	3.3	5.3	6.3	2.8	6.1
max	46.0	66.2	48.8	42.0	41.1	15.6	12.7	20.1	26.6	35.7	32.4	32.3	66.2	66.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.6	3.4	2.3	1.2	0.3	0.1	0.1	0.2	0.3	0.6	1.1	1.4	1.1	1.8
median	1.7	1.7	1.1	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.5	0.7	0.2	0.7
max	23.9	45.5	26.5	20.4	19.5	3.5	2.5	5.5	9.1	15.3	12.8	12.7	45.5	45.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	80.2	95.2	71.0	36.4	10.2	3.2	2.7	6.3	10.4	19.2	32.2	41.7	34.0	53.7
max	175.4	288.2	262.4	287.8	84.2	15.0	18.4	57.0	76.9	164.5	151.4	152.7	288.2	288.2
min	9.7	10.0	3.5	2.1	0.7	0.3	0.1	0.4	0.7	1.2	4.0	5.5	0.1	1.2
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													408.6	377.4
max													1030.5	899.4
min													74.7	107.8



Station Name: Aupouri Peninsula Raws  
(APP)

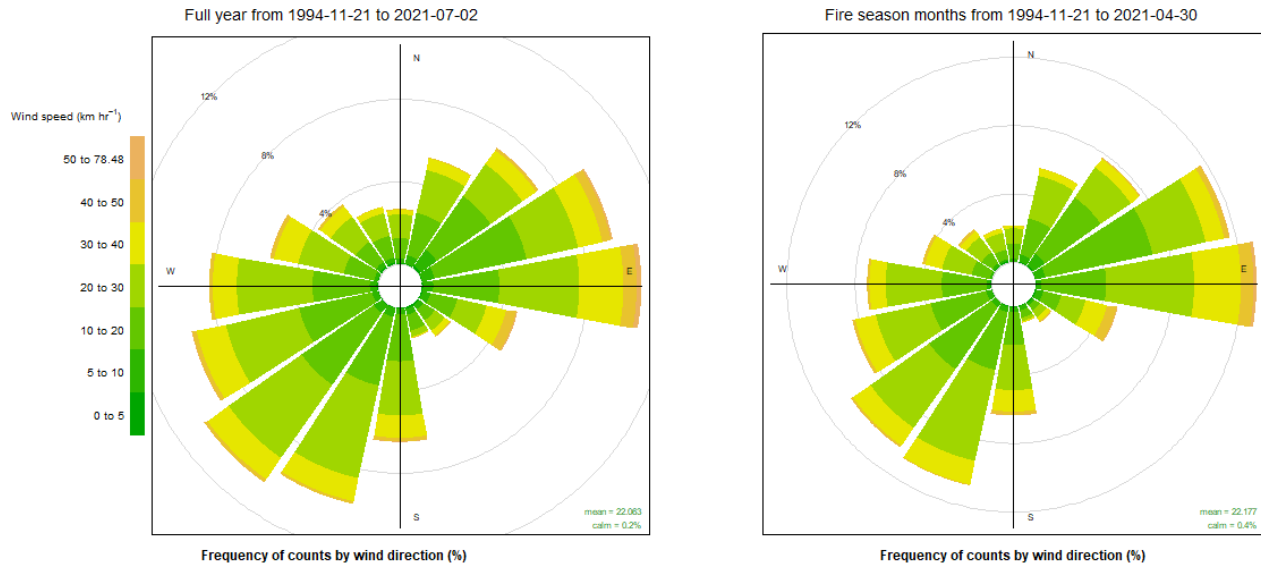
Period: 1994-11-21 - 2021-07-02

Length of record: 26 years

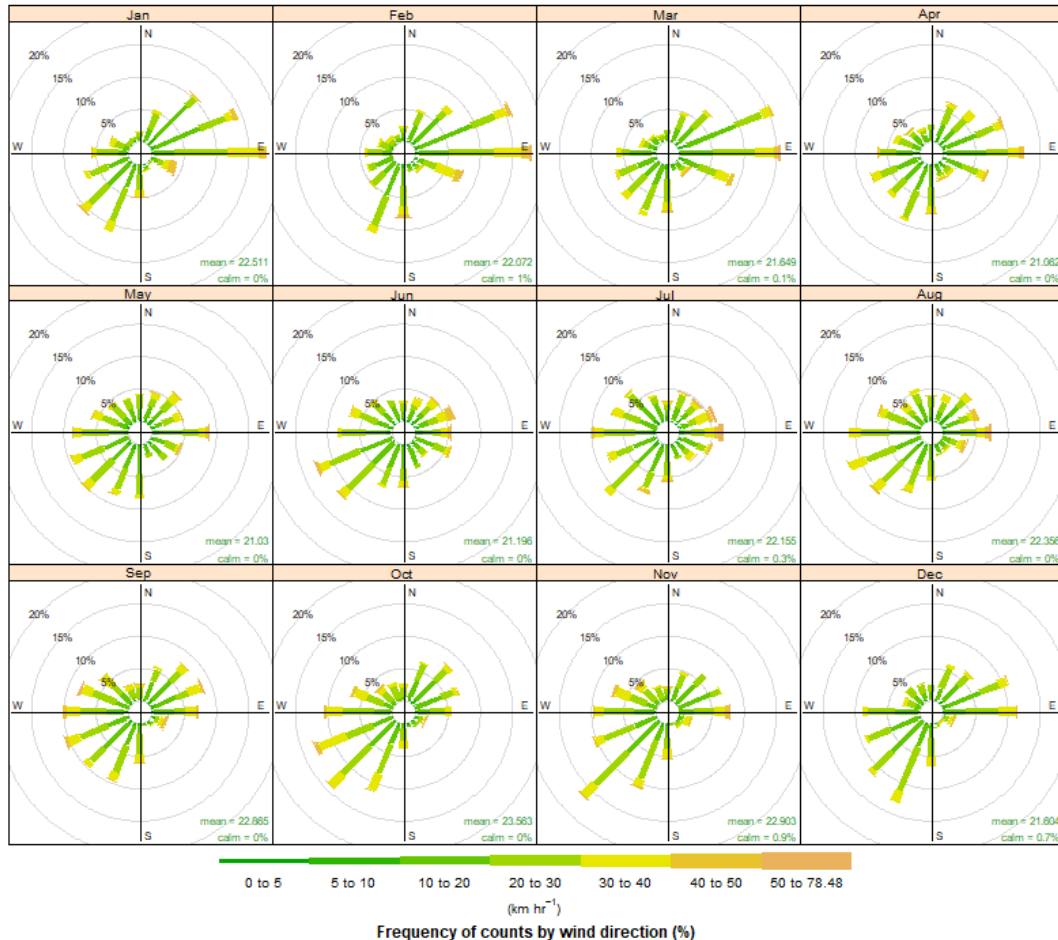
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	8.2	8.4	10.7	18.8	27.0	29.1	30.5	28.7	26.7	23.3	15.2	14.3	240.8	98.2
max	26	22	28	30	31	30	31	31	30	31	28	29	329	155
min	0	0	0	0	13	24	20	3	1	0	3	0	127	45
<b>Moderate</b>														
mean	15.4	10.6	14.4	8.8	3.7	0.9	0.5	2.2	3.0	6.8	13.3	13.8	93.3	83.6
max	22	19	25	21	18	6	11	26	24	26	24	28	163	109
min	5	3	3	0	0	0	0	0	0	0	2	2	36	53
<b>High</b>														
mean	5.7	5.8	3.8	1.6	0.2	0.0	0.0	0.1	0.3	0.7	1.3	2.6	22.1	21.5
max	19	16	12	15	6	0	0	2	4	18	11	16	73	53
min	0	0	0	0	0	0	0	0	0	0	0	0	0	3
<b>Very High</b>														
mean	1.0	2.3	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	5.9	6.0
max	4	14	13	5	0	0	0	0	1	5	4	3	22	23
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.8	1.0	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	3.0	2.9
max	5	5	6	8	2	0	0	0	0	1	2	2	16	16
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	0	2	1	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Northland (Zone 1 Far North)														
Curing%	80	80	75	50	40	40	45	45	50	55	70	75		
<b>Low</b>														
mean	2.2	2.7	3.2	5.5	6.7	9.0	9.3	7.6	5.2	3.1	2.6	4.1	61.2	23.3
max	8	9	10	15	13	17	18	13	12	8	7	11	109	39
min	0	0	0	0	1	0	0	0	0	0	0	0	14	8
<b>Moderate</b>														
mean	9.8	8.8	13.3	21.4	23.4	20.5	20.7	22.2	22.7	24.2	19.1	15.1	221.0	111.4
max	18	17	21	27	30	27	27	27	28	29	25	23	245	134
min	3	1	7	13	18	13	13	17	17	19	10	7	187	85
<b>High</b>														
mean	16.3	13.6	13.3	3.1	0.9	0.5	1.1	1.2	2.1	3.7	8.2	11.3	75.3	69.7
max	26	22	22	11	2	4	4	6	7	10	20	23	121	94
min	6	6	1	0	0	0	0	0	0	0	1	2	30	43
<b>Very High</b>														
mean	2.3	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	6.7	6.6
max	6	9	5	0	0	0	0	0	0	0	2	3	15	17
min	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<b>Extreme</b>														
mean	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.3
max	4	8	1	0	0	0	0	0	0	0	0	0	9	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.6	3.9	5.0	6.8	9.2	11.7	12.8	11.1	8.1	5.5	4.6	6.0	88.2	35.1
max	14	11	15	17	16	21	20	17	17	13	13	12	138	56
min	0	0	0	0	0	3	0	0	0	0	0	0	30	14
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	1	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.5	0.6	0.6	1.2	1.9	2.2	2.2	1.6	1.1	0.9	0.7	0.5	13.8	4.9
max	4	3	2	3	5	6	5	5	3	3	3	2	26	9
min	0	0	0	0	0	0	0	0	0	0	0	0	9	2
<b>Very High</b>														
mean	1.4	2.2	2.3	3.1	4.5	5.6	5.1	4.8	3.3	2.8	3.0	2.2	40.2	16.7
max	5	7	8	8	12	10	11	9	6	6	7	6	63	30
min	0	0	0	0	2	3	2	2	0	0	0	0	27	10
<b>Extreme</b>														
mean	7.6	5.3	7.3	8.7	9.3	7.7	7.7	9.0	10.4	11.6	10.0	9.3	104.0	60.2
max	19	11	15	15	14	13	15	15	16	17	16	17	131	76
min	2	0	4	3	2	4	2	2	4	5	5	6	87	40
<b>Very Extreme</b>														
mean	17.9	16.2	15.8	10.2	6.0	3.0	3.3	4.5	7.1	10.2	11.7	13.0	119.0	95.4

max	27	27	25	26	14	12	12	23	16	24	23	25	196	134
min	7	7	1	1	1	0	0	0	1	2	3	3	57	60

Windroses for Aupouri Peninsula Raws (APP)



APP station from 1994-11-21 to 2021-07-02



Station Name: Dargaville Raws (DAR)

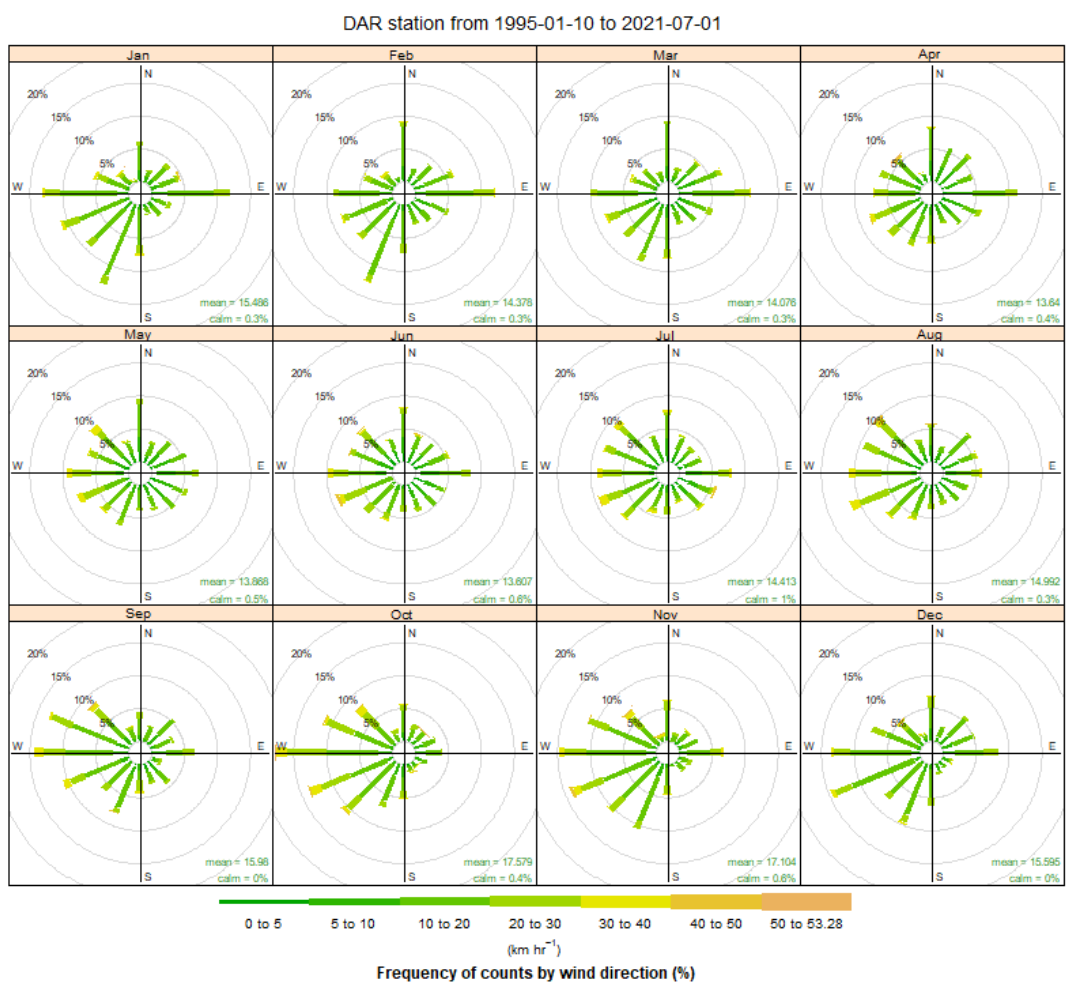
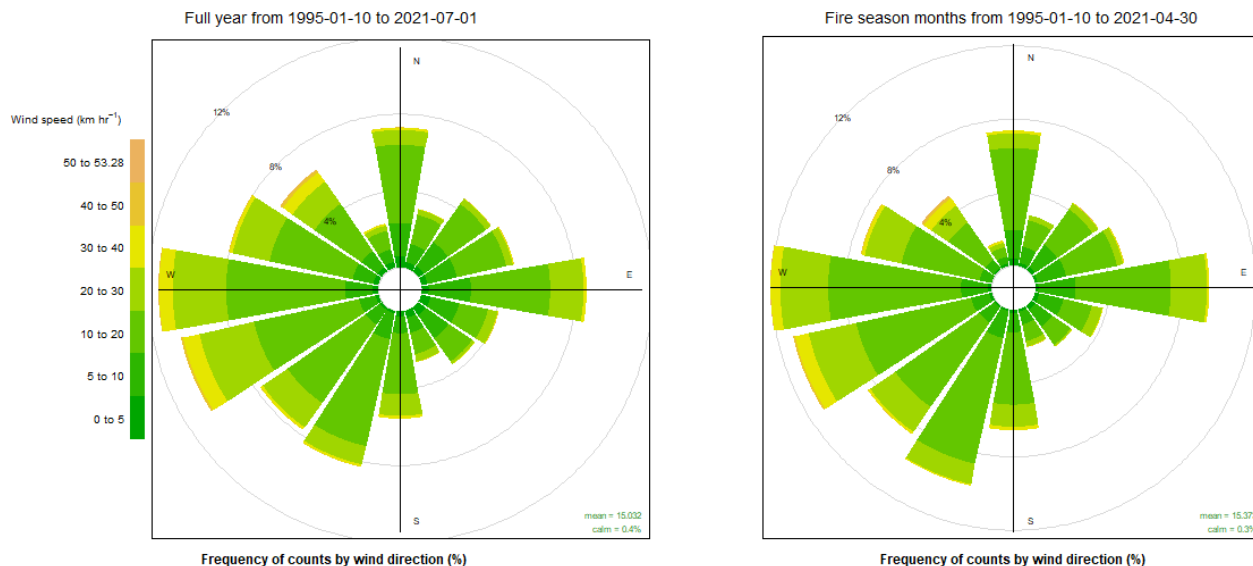
Period: 1995-01-10 - 2021-07-01

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	23.3	23.8	22.7	20.5	18.0	15.8	14.9	15.4	16.9	18.1	19.7	21.6	19.2	21.4
median	23.4	24.0	22.8	20.6	18.1	15.9	15.0	15.5	17.0	18.2	19.6	21.7	19.0	21.5
max	29.5	30.1	28.9	30.9	27.6	25.0	24.0	23.1	22.8	27.6	27.6	28.1	30.9	30.9
min	7.8	9.3	12.2	11.2	-12.2	-2.1	7.0	7.6	9.2	9.7	7.3	8.7	-12.2	7.3
<b>Relative Humidity, %</b>														
mean	62.2	62.0	63.5	67.6	73.9	78.4	77.9	73.4	68.6	67.1	64.8	64.8	68.7	64.6
median	60.0	59.2	62.0	66.0	72.0	77.1	77.0	72.0	67.0	66.0	63.0	62.6	67.0	63.0
max	100.0	100.0	100.0	100.0	100.0	102.3	102.3	100.0	100.0	100.0	100.0	100.0	102.3	100.0
min	38	24	33	35	40	46	43	38	38	36	31	34	24	24
<b>Wind Speed, km/h</b>														
mean	15.3	14.4	14.0	13.6	13.7	13.7	14.4	15.1	16.1	17.5	17.1	15.7	15.0	15.3
median	14.8	13.7	13.0	12.2	12.6	12.6	13.0	13.7	15.1	16.2	16.1	15.0	14.1	14.5
max	50.4	38.2	39.0	53.3	41.0	45.9	47.4	49.0	47.5	51.0	53.2	43.6	53.3	53.3
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	2.4	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.5	2.4	2.3	2.6	3.6	4.5	5.0	3.8	3.1	2.6	2.2	2.8	3.1	2.5
median	0.0	0.0	0.0	0.2	0.6	1.2	1.2	1.2	0.4	0.2	0.0	0.0	0.2	0.0
max	99.0	110.0	84.4	56.6	84.8	83.7	73.0	67.5	61.4	44.4	46.0	130.2	130.2	130.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	75.3	68.4	71.3	74.4	114.1	136.8	156.4	121.9	92.3	78.2	64.3	85.0	94.9	73.8
max	169.8	210.8	181.8	157.8	209.6	224.8	405.8	180.4	148.2	180.2	197.8	265.2	405.8	265.2
min	6.4	2.6	11.2	22.4	24.0	56.8	67.4	37.4	38.8	20.4	13.0	23.4	2.6	2.6
<b>Seasonal Rainfall, millimetres</b>														
mean													1138.5	521.1
max													1590.6	716.9
min													842.2	255.4
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	79.4	79.1	78.4	73.4	64.7	56.4	55.6	60.5	68.8	72.4	76.2	75.8	70.0	76.4
median	85.9	86.0	84.8	79.9	70.3	60.0	57.4	64.3	75.3	79.1	82.6	83.6	78.2	83.4
max	90.4	90.7	90.4	90.7	88.0	85.6	86.2	87.4	88.2	88.8	90.9	90.2	90.9	90.9
min	0.5	5.0	0.0	9.0	1.9	0.5	0.5	1.8	3.9	15.0	8.4	3.3	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	27.1	32.3	24.7	13.6	5.2	1.5	1.1	2.0	5.5	9.5	15.9	18.3	13.0	20.2
median	23.4	24.9	18.5	10.5	3.5	1.0	0.7	1.5	4.3	7.7	13.4	15.9	7.7	15.2
max	90.4	167.1	172.9	75.5	33.5	13.7	7.3	13.8	27.7	38.0	57.4	67.9	172.9	172.9
min	0.3	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.0	0.0
<b>Drought Code, DC</b>														
mean	255.9	305.4	314.4	288.4	189.8	76.9	17.5	12.5	20.5	47.0	109.7	186.0	152.7	215.8
median	259.9	287.7	279.5	285.3	177.5	51.7	8.9	8.4	15.2	42.3	102.8	171.9	106.2	185.8
max	539.2	738.8	793.7	787.8	544.6	306.8	111.5	78.1	98.5	171.1	280.4	413.3	793.7	793.7
min	5.3	5.9	5.1	4.7	2.0	0.9	1.0	1.3	1.4	3.1	5.4	6.6	0.9	3.1
<b>Initial Spread Index, ISI</b>														
mean	4.6	4.5	3.9	2.6	1.7	1.1	1.0	1.4	2.3	3.0	3.7	3.7	2.8	3.7
median	4.7	4.6	3.8	2.4	1.3	0.8	0.7	1.1	1.9	2.5	3.5	3.7	2.2	3.5
max	22.6	17.1	14.9	26.8	11.5	7.3	8.2	9.8	14.0	17.7	20.7	14.1	26.8	26.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	41.1	48.9	39.9	23.3	9.1	2.6	1.7	2.6	6.2	12.2	22.6	28.4	19.9	30.9
median	37.6	39.9	31.1	18.6	6.3	1.7	1.1	1.8	5.0	10.3	19.8	25.3	11.7	24.0
max	125.7	213.5	220.2	121.6	47.2	23.3	10.7	14.8	27.7	46.9	75.9	89.0	220.2	220.2
min	0.5	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.4	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	10.9	11.7	9.1	4.7	1.9	0.5	0.4	0.8	1.9	3.7	6.3	7.4	4.9	7.7
median	10.5	10.7	7.9	3.6	0.6	0.3	0.2	0.3	0.8	2.7	5.7	6.6	2.1	6.0
max	46.4	42.3	44.0	36.9	15.0	5.9	8.5	11.1	16.7	26.6	29.6	25.2	46.4	46.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.6	3.0	2.0	0.7	0.2	0.0	0.0	0.0	0.2	0.5	1.0	1.4	1.0	1.6
median	1.7	1.8	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.8	0.1	0.7
max	24.2	20.6	22.0	16.1	3.3	0.6	1.2	1.9	4.0	9.1	11.0	8.2	24.2	24.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	81.6	86.0	62.5	22.0	6.1	0.8	0.6	1.1	4.7	14.9	31.3	43.1	29.5	48.8
max	208.7	378.2	261.1	45.0	23.2	4.1	4.1	2.6	13.9	45.6	88.7	111.3	378.2	378.2
min	15.5	10.4	6.6	4.3	0.2	0.0	0.0	0.1	0.5	0.5	5.9	6.9	0.0	0.5
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													354.5	338.9
max													900.1	816.7
min													117.5	117.9

Station Name: Dargaville Raws (DAR)			Period: 1995-01-10 - 2021-07-01			Length of record: 26 years									
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Forest Fire Danger Class (FFDC) Frequency</b>															
<b>Low</b>															
mean	8.8	7.7	10.4	17.6	26.8	30.0	31.0	31.0	28.4	22.8	13.2	12.2	239.7	93.5	
max	19	20	28	27	31	30	31	31	30	31	28	27	293	137	
min	0	0	0	5	17	29	30	31	23	5	1	3	189	43	
<b>Moderate</b>															
mean	13.8	13.4	15.7	11.4	4.2	0.0	0.0	0.0	1.6	8.1	15.3	15.5	99.1	92.0	
max	25	23	25	24	14	1	1	0	7	26	24	23	140	121	
min	2	1	3	3	0	0	0	0	0	0	2	4	72	67	
<b>High</b>															
mean	6.7	4.1	3.3	0.9	0.0	0.0	0.0	0.0	0.0	0.1	1.4	3.2	19.7	20.2	
max	22	15	12	4	0	0	0	0	0	2	8	14	44	49	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very High</b>															
mean	1.3	1.8	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.4	4.2	
max	7	14	8	1	0	0	0	0	0	0	1	1	26	26	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Extreme</b>															
mean	0.4	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	
max	5	16	5	0	0	0	0	0	0	0	0	0	17	17	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	
max	1	0	1	0	0	0	0	0	0	0	0	0	1	1	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Grass Fire Danger Class (GFDC) Frequency</b>															
Curing source Northland (Kaipara)															
Curing%	70	80	75	65	50	40	40	40	50	50	60	65			
<b>Low</b>															
mean	2.2	2.1	2.0	3.9	9.1	13.7	15.4	11.6	6.4	4.3	3.0	3.4	77.2	21.2	
max	7	6	6	8	17	22	29	23	12	14	7	9	113	38	
min	0	0	0	0	1	4	7	5	2	0	0	0	44	11	
<b>Moderate</b>															
mean	15.8	9.8	16.8	25.0	21.6	16.3	15.5	19.4	23.1	25.0	25.8	23.0	237.2	140.8	
max	25	19	24	29	29	26	24	26	28	29	29	28	271	160	
min	3	1	5	22	14	8	2	8	17	17	22	17	206	118	
<b>High</b>															
mean	12.7	15.4	11.8	1.0	0.3	0.0	0.0	0.0	0.5	1.6	1.2	4.6	49.2	48.5	
max	28	26	25	5	2	0	1	0	5	6	4	13	87	79	
min	1	5	4	0	0	0	0	0	0	0	0	0	16	17	
<b>Very High</b>															
mean	0.3	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	
max	2	8	2	1	0	0	0	0	0	0	0	0	11	11	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Extreme</b>															
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	0	1	0	0	0	0	0	0	0	0	0	0	1	1	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Scrub Fire Danger Class (SFDC) Frequency</b>															
<b>Low</b>															
mean	3.0	3.2	3.4	5.0	11.0	14.9	16.2	13.4	8.6	6.1	4.0	4.6	93.4	29.8	
max	8	8	9	9	21	25	28	23	15	17	9	12	127	53	
min	0	0	0	0	3	5	8	5	3	0	0	0	56	12	
<b>Moderate</b>															
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	0	0	0	0	0	0	1	0	0	0	0	0	1	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>High</b>															
mean	1.6	1.1	1.8	3.1	4.4	5.7	5.8	4.8	3.1	2.0	1.0	1.8	36.1	12.6	
max	4	5	5	6	12	9	10	9	6	7	3	6	48	20	
min	0	0	0	0	1	0	1	1	1	0	0	0	25	6	
<b>Very High</b>															
mean	2.7	2.9	3.4	5.1	5.0	4.8	4.1	5.5	4.4	4.2	3.6	2.9	48.8	25.2	
max	7	8	7	12	10	10	8	10	9	10	8	8	61	41	
min	0	0	0	1	1	1	0	1	2	1	0	0	33	15	
<b>Extreme</b>															
mean	6.0	5.5	8.6	11.2	8.3	3.9	4.0	6.0	9.5	10.3	9.8	8.6	91.6	59.5	
max	12	11	18	16	20	12	8	11	17	16	15	14	127	84	
min	0	0	4	5	2	1	0	1	3	3	4	4	62	33	
<b>Very Extreme</b>															
mean	17.7	15.6	13.8	5.6	2.4	0.8	0.8	1.3	4.3	8.4	11.6	13.0	95.4	85.3	
max	29	28	26	14	8	6	5	3	11	18	20	23	134	120	
min	6	5	5	0	0	0	0	0	1	0	4	4	45	42	

### Windroses for Dargaville Raws (DAR)



Station Name: Hokianga Raws (HOK)													Period: 1996-11-29 - 2021-07-01		Length of record: 24 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	23.2	23.6	22.1	19.9	17.6	15.3	14.4	15.2	16.6	18.0	19.3	21.2	18.9	21.1		
median	23.4	23.9	22.4	20.0	17.7	15.3	14.2	14.8	16.1	17.7	19.3	21.3	18.8	21.1		
max	29.7	31.3	28.3	26.9	24.1	23.5	26.9	28.6	27.3	27.3	28.5	27.9	31.3	31.3		
min	12.8	8.9	7.0	8.7	8.0	7.0	6.7	6.4	7.8	10.3	10.2	11.5	6.4	7.0		
<b>Relative Humidity, %</b>																
mean	62.1	63.0	65.6	70.6	77.4	82.2	80.1	75.0	70.1	66.8	64.6	65.1	70.2	65.4		
median	59	61	63	68	76	82	80	74	68	64	63	62	68	63		
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
min	28.0	31.0	33.0	37.0	43.0	49.0	38.1	44.9	36.0	34.0	30.0	32.0	28.0	28.0		
<b>Wind Speed, km/h</b>																
mean	16.9	16.2	16.0	14.7	13.8	13.6	14.4	15.8	18.0	18.3	18.7	17.9	16.2	17.0		
median	16.2	15.6	15.3	14.1	13.0	12.4	12.9	15.0	17.5	18.4	18.7	18.0	15.8	16.8		
max	44.0	46.9	45.0	41.3	45.3	52.0	50.8	44.6	61.9	46.3	50.8	47.2	61.9	50.8		
min	0.0	2.0	0.0	0.8	0.0	0.0	0.0	0.6	1.9	0.0	0.0	0.0	0.0	0.0		
<b>24-hr Rainfall, millimetres</b>																
mean	2.6	2.7	2.2	2.8	3.3	4.7	4.8	4.0	3.5	2.6	2.4	2.4	3.2	2.5		
median	0.0	0.0	0.0	0.2	0.4	1.0	1.0	1.2	0.6	0.2	0.2	0.0	0.2	0.0		
max	156.6	105.8	71.8	84.8	80.0	82.6	86.8	44.4	62.3	74.8	50.4	63.0	156.6	156.6		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	83.1	76.7	69.5	83.2	104.9	141.9	149.0	124.3	103.6	80.8	70.9	75.3	96.9	77.1		
max	334.0	263.4	239.0	238.8	209.6	353.4	359.2	188.6	183.8	183.8	204.8	187.4	359.2	334.0		
min	3.0	6.4	6.0	14.2	33.2	50.2	32.8	56.0	50.2	22.6	4.2	8.0	3.0	3.0		
<b>Seasonal Rainfall, millimetres</b>																
mean													1163.1	539.7		
max													1549.8	827.0		
min													865.2	282.0		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	79.4	78.4	77.5	71.4	62.4	52.1	53.0	59.3	66.3	72.1	75.6	75.6	68.6	75.7		
median	86.0	85.4	84.0	80.0	69.0	56.2	55.3	62.2	74.0	79.9	83.1	83.7	77.4	83.5		
max	92.2	91.2	90.4	89.9	87.7	87.0	89.0	88.1	89.0	88.9	91.9	91.6	92.2	92.2		
min	4.5	1.9	0.1	1.0	0.9	0.3	1.6	0.3	0.1	2.2	7.2	4.4	0.1	0.1		
<b>Duff Moisture Code, DMC</b>																
mean	29.4	34.7	27.4	17.6	5.8	1.3	1.2	2.1	5.3	9.1	16.1	20.6	14.2	22.1		
median	26.7	28.3	19.9	12.8	3.3	0.6	0.5	1.2	3.7	7.7	13.4	16.1	7.4	16.2		
max	84.3	115.4	141.6	73.1	53.6	17.4	21.9	25.7	47.3	32.1	58.8	83.3	141.6	141.6		
min	0.0	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0		
<b>Drought Code, DC</b>																
mean	260.8	315.4	330.3	315.4	223.3	100.5	36.4	16.0	21.7	40.4	102.7	181.6	163.2	221.5		
median	266.9	336.6	322.5	310.2	210.9	56.6	10.2	9.3	13.0	35.5	97.4	179.9	103.4	183.5		
max	532.7	671.3	741.5	758.4	671.7	487.9	335.1	166.9	183.9	146.2	265.5	432.8	758.4	758.4		
min	7.4	6.2	5.7	3.9	1.7	1.1	1.0	1.4	1.3	2.8	5.2	6.0	1.0	2.8		
<b>Initial Spread Index, ISI</b>																
mean	5.3	5.0	4.3	2.9	1.7	1.0	1.1	1.5	2.5	3.2	4.2	4.4	3.1	4.2		
median	5.0	4.6	3.8	2.5	1.1	0.6	0.6	1.0	1.8	2.9	3.9	4.0	2.2	3.8		
max	24.7	23.9	28.1	15.1	16.7	14.1	19.9	19.1	17.9	15.7	19.9	32.3	32.3	32.3		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	44.3	52.5	43.0	29.4	10.1	2.3	1.9	2.8	6.4	11.2	22.1	30.5	21.4	33.3		
median	42.3	45.8	32.0	22.2	6.1	1.2	0.8	1.7	4.3	9.6	19.0	25.2	11.0	24.7		
max	114.7	156.5	182.8	112.5	89.4	29.3	32.4	37.1	57.0	38.9	68.3	112.5	182.8	182.8		
min	0.0	1.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.4	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	12.7	12.8	10.0	6.0	2.0	0.6	0.6	1.0	2.3	3.8	7.0	8.8	5.6	8.7		
median	12.0	10.9	8.1	4.4	0.5	0.2	0.1	0.3	0.7	2.9	6.2	7.5	2.1	6.8		
max	45.1	56.3	48.3	32.1	31.0	20.2	17.0	26.4	31.9	21.7	30.2	69.5	69.5	69.5		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	3.3	3.6	2.4	1.1	0.2	0.1	0.1	0.1	0.3	0.5	1.2	2.0	1.2	2.0		
median	2.2	1.9	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.7	1.0	0.1	0.8		
max	23.0	34.1	26.0	12.6	11.9	5.6	4.1	8.9	12.5	6.3	11.3	49.6	49.6	49.6		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	101.4	100.9	75.7	33.5	7.3	1.9	2.0	3.5	8.6	14.8	37.3	62.7	37.5	60.9		
max	211.9	317.8	294.6	91.4	30.9	32.5	34.7	60.5	95.9	40.0	85.5	283.0	317.8	317.8		
min	4.3	13.2	11.5	2.7	0.2	0.0	0.0	0.1	0.8	3.3	10.1	12.6	0.0	2.7		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													449.5	431.0		
max													942.5	932.4		
min													201.9	152.4		

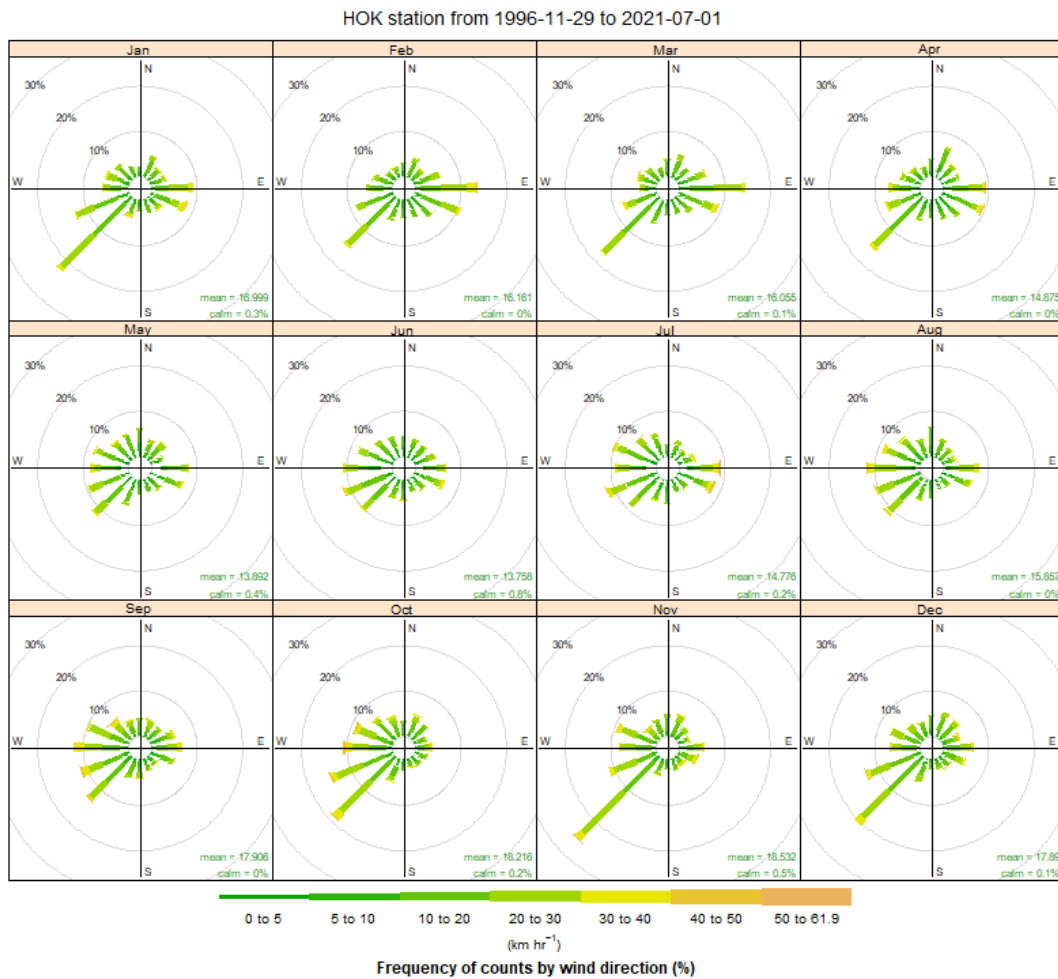
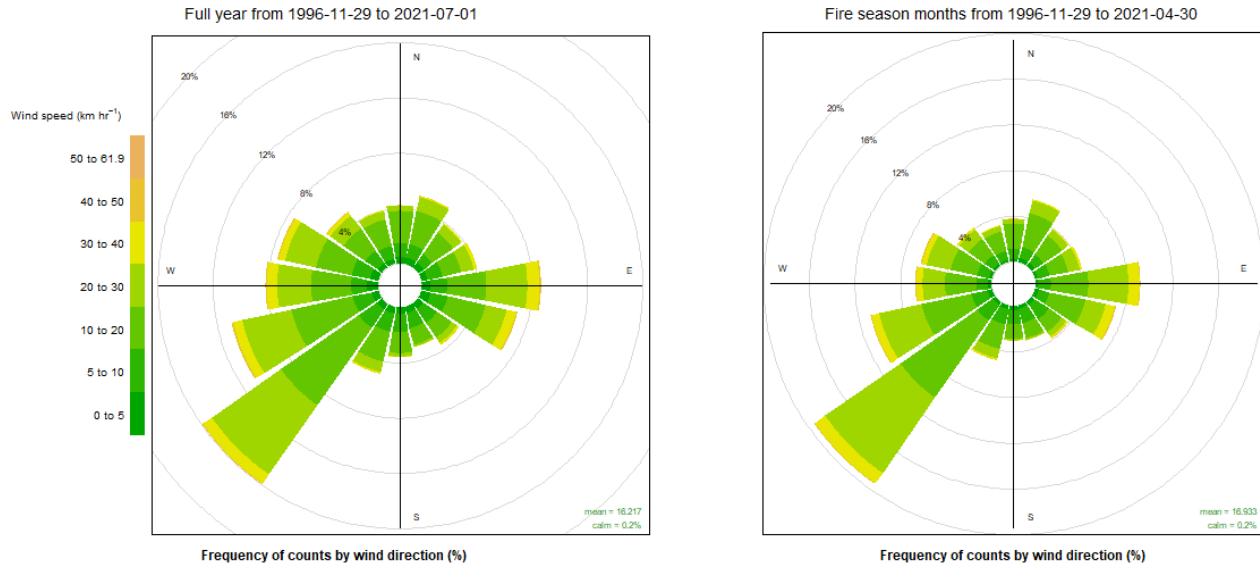
Station Name: Hokianga Raws (HOK)

Period: 1996-11-29 - 2021-07-01

Length of record: 24 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	7.2	7.2	10.7	16.1	26.9	29.4	30.2	30.3	27.5	22.8	13.3	11.6	233.3	88.9
max	27	23	22	30	31	30	31	31	30	31	25	25	277	137
min	0	0	1	3	15	18	13	15	9	8	2	0	183	49
<b>Moderate</b>														
mean	13.4	11.8	13.9	11.5	3.9	0.5	0.8	0.5	1.9	8.0	14.4	14.1	94.8	86.3
max	21	23	24	22	16	11	18	11	8	23	25	23	135	114
min	2	1	6	0	0	0	0	0	0	0	4	6	69	63
<b>High</b>														
mean	7.2	5.4	4.1	2.0	0.1	0.0	0.0	0.2	0.5	0.2	2.2	4.0	25.9	25.5
max	16	14	14	8	1	1	0	5	12	3	11	12	63	52
min	0	0	0	0	0	0	0	0	0	0	0	0	8	3
<b>Very High</b>														
mean	2.0	2.1	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.0	7.2
max	11	11	11	4	1	0	0	0	1	0	1	9	27	26
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.2	1.5	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.8	3.9
max	7	12	7	1	0	0	0	0	0	0	0	5	26	26
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.4
max	0	2	1	0	0	0	0	0	0	0	0	2	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Northland (Zone 2 Far North)														
Curing%	75	80	70	50	40	40	40	40	45	50	65	70		
<b>Low</b>														
mean	2.3	2.0	2.4	5.0	11.2	16.3	17.4	12.9	7.8	4.6	3.1	3.3	88.4	23.0
max	8	5	6	10	21	28	27	21	13	9	9	8	138	40
min	0	0	0	0	5	6	1	5	1	0	0	0	57	9
<b>Moderate</b>														
mean	11.1	10.0	18.4	22.9	19.5	13.4	13.2	17.7	20.8	23.5	20.5	16.5	207.5	122.3
max	23	18	24	30	26	24	23	23	28	28	25	23	241	148
min	3	2	8	16	10	2	4	10	14	19	14	9	175	94
<b>High</b>														
mean	15.8	13.9	9.7	2.0	0.3	0.3	0.4	0.5	1.4	2.8	6.3	11.0	64.4	61.8
max	24	22	21	8	2	6	7	9	10	9	12	20	94	90
min	0	6	4	0	0	0	0	0	0	1	2	4	34	21
<b>Very High</b>														
mean	1.7	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.5	4.6
max	6	9	3	0	0	0	0	0	0	0	1	1	16	16
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
max	1	3	2	0	0	0	0	0	0	0	0	1	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.5	3.3	3.5	6.2	11.8	16.6	17.7	14.3	9.7	6.5	4.9	4.7	102.7	32.7
max	12	9	8	14	23	28	27	23	16	12	12	11	152	58
min	0	0	0	0	4	8	2	7	3	0	0	0	68	20
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	1	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.1	1.4	2.2	2.9	5.0	5.2	5.2	4.2	2.6	1.7	1.5	1.3	34.4	12.7
max	6	4	6	7	11	10	10	12	5	6	7	4	43	29
min	0	0	1	0	1	0	0	0	1	0	0	0	24	7
<b>Very High</b>														
mean	1.5	2.3	2.5	4.0	4.5	4.6	3.3	4.9	4.4	4.3	2.3	2.7	41.2	19.5
max	5	9	6	6	11	12	8	9	8	11	5	7	49	28
min	0	0	0	2	0	1	0	1	1	1	0	0	32	12
<b>Extreme</b>														
mean	6.2	5.9	8.9	9.4	6.9	2.7	3.3	5.6	7.5	8.9	7.4	7.5	80.3	53.2
max	13	16	16	17	15	7	8	13	12	17	11	11	109	83
min	1	0	4	2	2	0	0	1	2	2	3	4	54	33
<b>Very Extreme</b>														
mean	18.7	15.3	13.9	7.5	2.8	0.9	1.5	2.0	5.8	9.6	13.9	14.9	106.6	94.1
max	28	27	23	13	8	13	17	18	19	16	26	25	139	133
min	1	5	7	0	0	0	0	0	2	3	4	6	66	48

### Windroses for Hokianga Raws (HOK)





Station Name: Kaikohe Raws (KOE)

Period: 1994-11-30 - 2021-07-01

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	21.8	22.1	20.7	18.7	16.5	14.4	13.6	13.7	14.9	16.2	18.0	20.1	17.6	19.7
median	22.0	22.0	21.0	18.9	16.3	14.3	13.8	13.8	15.0	16.0	18.0	20.0	17.1	20.0
max	27.0	28.2	27.3	25.1	24.5	23.0	19.4	19.6	20.9	22.6	27.0	27.0	28.2	28.2
min	13.0	14.0	14.0	12.0	7.5	7.0	6.4	6.7	8.2	10.0	10.0	11.0	6.4	10.0
<b>Relative Humidity, %</b>														
mean	65.5	67.7	69.6	73.5	77.7	80.8	79.2	76.6	72.6	70.3	68.2	68.5	72.5	69.0
median	63	65	68	72	77	81	79	76	71	68	66	65	71	67
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	36.0	32.0	35.0	45.0	48.0	49.0	38.1	43.5	35.0	36.0	30.0	38.0	30.0	30.0
<b>Wind Speed, km/h</b>														
mean	14.6	13.8	14.2	14.1	14.7	14.6	14.8	15.8	17.5	18.4	17.6	15.8	15.5	15.5
median	13.0	13.0	13.0	13.0	14.0	13.6	13.5	15.0	17.0	18.4	17.0	16.3	15.0	14.8
max	44.0	43.0	39.0	38.9	44.0	43.0	46.0	46.4	50.0	48.0	50.0	43.0	50.0	50.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	3.4	4.0	3.9	4.4	4.6	5.9	6.7	4.8	4.2	3.0	3.0	3.7	4.3	3.6
median	0.0	0.0	0.2	0.4	0.6	0.8	1.4	1.0	0.4	0.2	0.0	0.0	0.2	0.2
max	199.0	158.0	164.2	105.6	113.2	107.0	192.8	87.0	84.0	86.6	109.6	106.4	199.0	199.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	104.2	111.8	124.9	134.0	146.5	171.6	207.6	148.9	124.8	93.3	91.4	118.6	131.5	111.2
max	370.8	247.4	303.6	318.6	275.6	349.2	599.8	266.6	302.4	198.6	363.6	247.0	599.8	370.8
min	12.6	5.4	4.6	13.2	26.7	20.0	45.4	47.4	43.8	31.2	11.2	14.8	4.6	4.6
<b>Seasonal Rainfall, millimetres</b>														
mean													1577.7	771.5
max													2206.6	1127.2
min													1037.8	312.6
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	75.5	74.0	72.7	67.8	61.2	54.9	53.3	57.6	63.7	69.3	72.5	71.5	66.2	71.9
median	84.5	83.1	81.4	75.7	68.3	60.1	55.4	61.6	70.4	76.7	80.1	81.6	74.8	80.9
max	90.3	90.3	88.5	88.0	85.8	86.1	87.8	86.9	88.5	87.0	90.0	90.0	90.3	90.3
min	0.3	3.3	0.1	1.3	0.0	0.7	0.2	1.0	0.4	5.7	5.3	0.0	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	21.8	21.0	14.6	9.5	3.9	1.3	1.0	1.7	3.7	6.5	11.0	14.3	9.2	14.1
median	17.9	15.5	11.0	5.8	2.3	0.8	0.5	1.0	2.7	5.5	9.5	12.3	4.8	10.2
max	83.9	109.4	111.1	51.5	47.9	10.6	11.3	19.4	20.1	25.9	41.6	54.8	111.1	111.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	177.0	205.1	187.9	148.3	81.4	27.7	10.9	9.6	14.0	31.8	77.7	132.2	92.4	137.4
median	153.7	200.9	159.9	120.0	29.0	10.6	6.3	7.0	9.0	29.3	74.7	127.5	41.8	110.1
max	649.5	597.2	603.1	567.9	490.7	308.3	148.7	58.0	80.2	98.8	221.0	418.7	649.5	649.5
min	6.6	5.7	4.4	3.4	1.5	1.0	0.9	0.9	1.2	2.9	4.2	6.3	0.9	2.9
<b>Initial Spread Index, ISI</b>														
mean	3.8	3.2	2.9	2.1	1.5	1.0	0.9	1.2	2.0	2.6	3.2	3.2	2.3	3.0
median	3.8	3.1	2.6	1.8	1.2	0.7	0.6	0.9	1.6	2.3	2.8	2.8	1.7	2.6
max	17.4	18.0	16.0	11.9	9.6	9.9	8.7	12.6	11.3	15.7	21.4	19.5	21.4	21.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	32.1	31.9	23.1	15.4	6.3	2.0	1.4	2.2	4.3	8.3	15.6	21.7	13.7	21.2
median	27.0	25.4	18.2	9.5	3.5	1.3	0.8	1.5	3.1	7.4	14.1	19.3	7.0	15.5
max	126.8	150.1	152.1	80.9	77.0	19.6	12.8	20.7	24.7	28.1	53.0	82.6	152.1	152.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	8.1	6.9	5.2	3.0	1.3	0.4	0.4	0.6	1.4	2.5	4.5	5.6	3.3	5.1
median	7.3	5.5	3.7	1.1	0.4	0.2	0.2	0.3	0.6	1.5	3.4	4.4	0.8	3.5
max	37.9	31.7	27.9	28.4	14.4	9.9	7.3	7.9	11.9	15.7	29.8	37.4	37.9	37.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.7	1.3	0.8	0.4	0.1	0.0	0.0	0.0	0.1	0.2	0.6	0.9	0.5	0.9
median	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.0	0.2
max	16.9	12.3	9.8	10.1	3.1	1.6	0.9	1.1	2.2	3.6	11.1	16.5	16.9	16.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	51.2	36.7	26.2	12.4	3.2	0.6	0.5	0.9	3.1	7.7	19.4	27.5	15.8	25.9
max	186.1	189.9	107.7	87.5	15.3	5.0	2.3	4.6	8.8	15.4	59.2	85.3	189.9	189.9
min	3.4	5.4	3.8	0.4	0.1	0.0	0.0	0.1	0.3	0.4	2.0	3.1	0.0	0.4
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													189.4	183.0
max													441.5	475.1
min													70.9	64.2

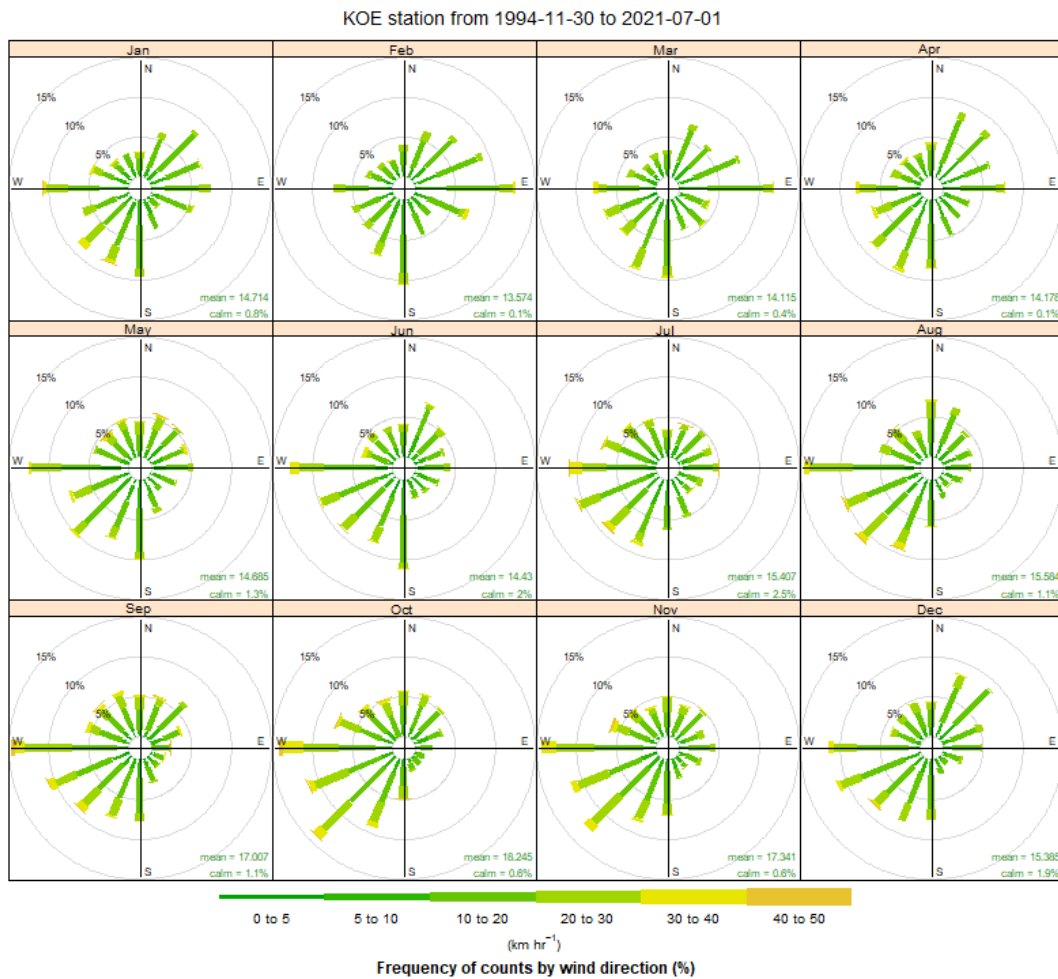
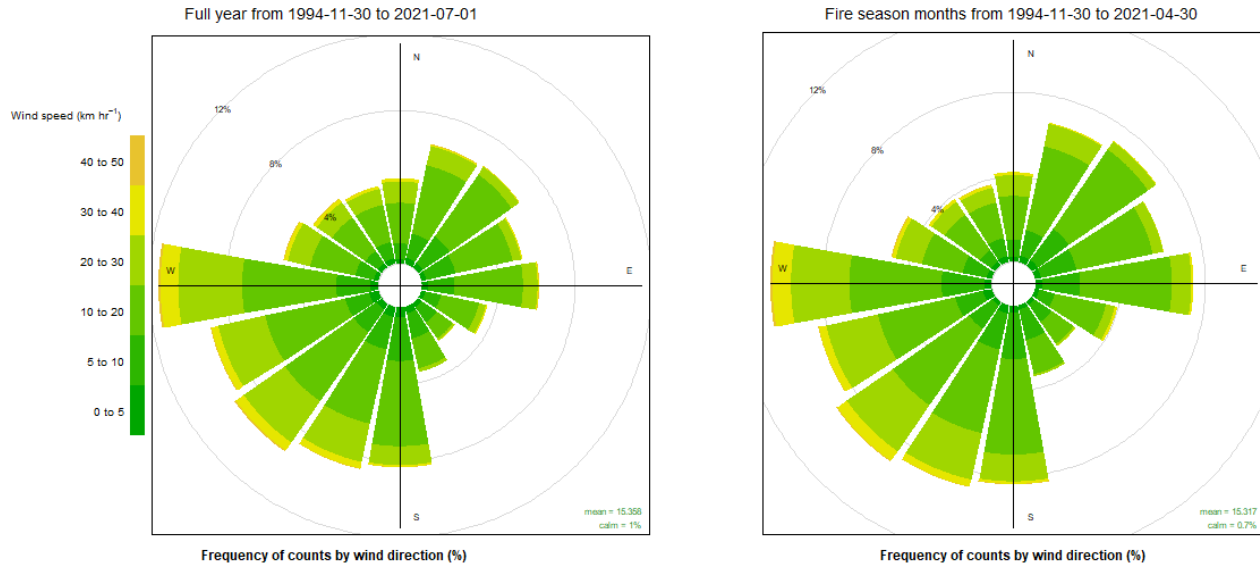
Station Name: Kaikohe Raws (KOE)

Period: 1994-11-30 - 2021-07-01

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	12.4	13.0	18.2	23.0	29.8	29.9	31.0	30.8	29.3	27.5	19.3	16.9	281.1	129.0
max	29	27	31	30	31	30	31	31	30	31	30	31	328	167
min	0	0	0	1	22	28	31	27	23	22	9	5	230	69
<b>Moderate</b>														
mean	14.3	12.5	11.2	6.4	1.2	0.1	0.0	0.2	0.7	3.5	10.2	12.8	73.1	72.1
max	23	19	26	20	9	2	0	4	7	9	20	23	110	98
min	2	2	0	0	0	0	0	0	0	0	0	0	36	41
<b>High</b>														
mean	3.8	2.4	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	9.8	10.0
max	19	21	17	7	0	0	0	0	0	0	4	6	46	41
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.3	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.1	1.0
max	5	5	1	2	0	0	0	0	0	0	1	3	7	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	3	1	0	0	0	0	0	0	0	0	0	1	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Northland (Zone 2 Far North)														
Curing%	75	80	70	50	40	40	40	40	45	50	65	70		
<b>Low</b>														
mean	3.9	3.9	4.8	7.1	11.7	14.5	16.3	13.2	8.6	5.5	4.0	5.6	99.2	34.6
max	11	10	10	14	21	25	23	23	18	12	15	12	124	48
min	0	0	0	1	1	5	10	6	0	0	0	0	79	21
<b>Moderate</b>														
mean	15.1	14.9	22.2	22.3	19.2	15.4	14.6	17.7	21.0	24.2	23.1	19.5	229.3	141.4
max	23	25	28	27	30	24	21	25	29	28	28	25	260	156
min	3	3	17	16	10	5	8	8	12	19	15	15	197	121
<b>High</b>														
mean	11.6	9.0	4.0	0.6	0.1	0.1	0.0	0.1	0.3	1.3	2.7	5.8	35.5	35.0
max	26	26	12	3	1	2	1	2	2	4	12	12	67	63
min	0	0	0	0	0	0	0	0	0	0	0	1	13	13
<b>Very High</b>														
mean	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	1.2	1.2
max	3	4	1	0	0	0	0	0	0	0	2	1	4	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	2	0	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	5.2	5.3	6.3	8.2	12.7	14.8	17.5	15.2	10.9	7.8	5.8	7.1	116.8	45.3
max	13	13	12	16	22	28	24	27	18	16	18	14	148	62
min	0	0	0	1	2	5	9	8	3	3	1	0	88	26
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.7	2.0	2.8	3.4	3.8	5.1	5.3	4.2	2.5	2.2	2.5	1.7	37.1	16.3
max	4	6	6	8	9	11	10	10	7	8	10	5	57	26
min	0	0	1	0	0	2	0	0	0	0	0	0	24	6
<b>Very High</b>														
mean	3.1	3.1	3.8	5.3	5.5	6.0	4.3	5.7	4.8	4.3	3.8	3.7	53.3	27.0
max	8	7	7	9	10	10	8	10	10	8	7	7	70	37
min	0	0	0	2	1	0	2	2	2	2	0	1	33	16
<b>Extreme</b>														
mean	7.4	9.4	10.8	9.8	7.5	3.6	3.4	5.0	8.7	10.7	9.9	9.7	96.0	68.2
max	15	15	19	18	15	9	11	11	15	15	17	15	124	96
min	2	2	6	2	0	0	0	1	3	2	6	5	78	53
<b>Very Extreme</b>														
mean	13.6	8.5	7.3	3.2	1.5	0.4	0.5	1.0	3.1	5.9	8.0	8.9	61.9	55.5
max	27	25	18	10	4	5	4	4	9	11	18	17	95	92
min	2	0	1	0	0	0	0	0	0	0	0	1	34	28

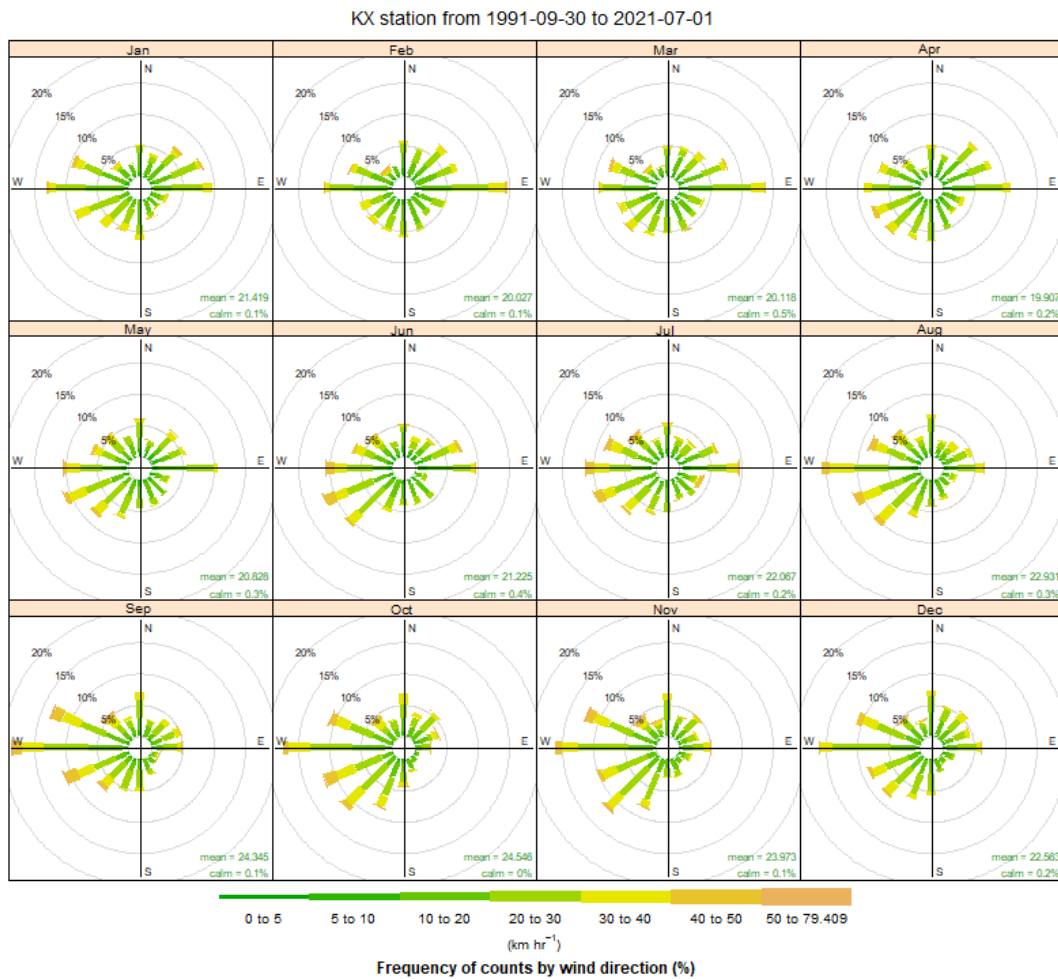
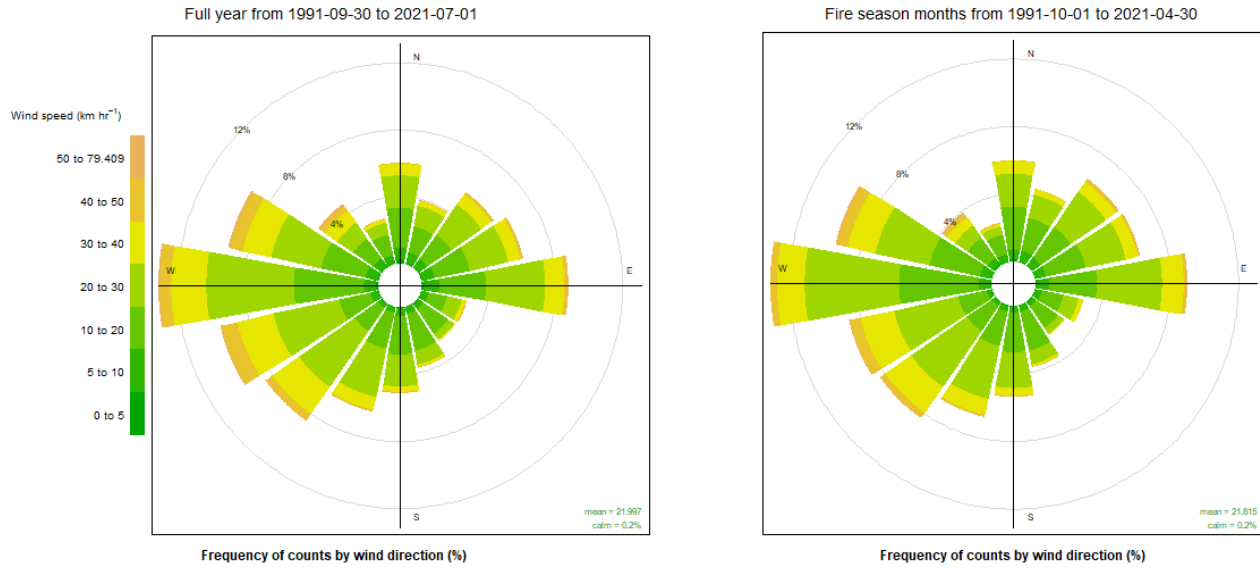
### Windroses for Kaikohe Raws (KOE)



Station Name: Kaitaia Observatory (KX)		Period: 1963-01-01 - 2021-07-01											Length of record: 58 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.3	22.8	21.6	19.4	17.0	15.0	14.2	14.4	15.5	16.7	18.4	20.5	18.1	20.2
median	22.2	23.0	21.8	19.5	17.0	15.0	14.1	14.4	15.5	16.8	18.3	20.7	18.0	20.4
max	29.1	29.0	29.0	24.6	22.9	20.0	19.2	20.0	21.0	22.4	25.4	26.0	29.1	29.1
min	14.0	14.4	15.0	11.6	9.2	9.0	7.9	6.8	8.8	9.3	10.8	13.0	6.8	9.3
<b>Relative Humidity, %</b>														
mean	64.6	63.4	65.5	68.0	71.9	75.7	74.8	73.4	71.5	69.6	68.3	67.7	69.6	66.8
median	62.0	61.0	64.0	66.0	71.0	75.0	75.0	72.0	71.0	68.2	67.0	65.0	68.0	65.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	29.0	33.0	36.0	31.0	44.0	31.8	35.0	38.0	38.0	34.0	34.0	29.0	29.0	29.0
<b>Wind Speed, km/h</b>														
mean	21.4	20.7	20.7	20.7	20.7	20.8	22.0	22.9	24.5	24.5	24.0	22.8	22.1	22.1
median	20.5	20.1	20.1	20.1	20.4	20.4	22.2	22.2	24.1	24.1	24.1	22.2	22.2	22.2
max	63.0	70.4	68.9	59.9	59.9	65.1	63.0	59.3	79.4	67.5	62.7	55.6	79.4	70.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	2.6	3.2	2.9	3.5	3.9	5.0	5.1	4.8	4.0	3.1	2.9	3.0	3.7	3.0
median	0.0	0.0	0.0	0.1	0.3	0.8	1.2	0.8	0.5	0.1	0.0	0.0	0.1	0.0
max	122.2	159.3	116.7	111.0	151.3	92.3	104.8	81.3	101.5	71.6	79.0	75.8	159.3	159.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	81.0	88.2	89.0	105.6	120.2	150.9	159.1	148.9	119.5	94.8	87.0	94.1	111.5	91.4
max	325.4	374.8	242.8	363.8	298.5	288.7	376.5	437.9	235.5	213.3	197.0	209.7	437.9	374.8
min	2.3	6.7	6.0	10.0	29.3	58.3	24.7	66.9	39.8	21.7	14.8	17.8	2.3	2.3
<b>Seasonal Rainfall, millimetres</b>														
mean													1338.2	641.6
max													1847.2	1007.6
min													903.3	276.6
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	78.9	78.9	77.5	73.9	69.3	61.9	61.3	63.6	67.6	71.8	74.7	75.2	71.2	75.8
median	85.2	85.5	84.4	81.5	76.4	66.7	65.2	68.1	73.6	78.5	81.4	83.0	79.1	83.1
max	91.2	90.5	89.5	90.1	88.1	86.5	86.1	87.5	87.3	88.6	89.5	91.6	91.6	91.6
min	0.0	3.0	0.0	0.9	1.0	0.3	2.5	0.0	0.0	0.7	1.0	6.1	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	23.1	29.4	20.0	13.0	5.7	1.9	1.4	2.0	3.8	7.2	11.7	16.0	11.2	17.1
median	19.6	23.5	15.3	9.1	4.0	1.3	0.9	1.5	2.9	5.7	10.3	13.3	6.1	12.3
max	91.3	112.4	104.7	72.9	59.2	13.9	10.6	12.6	21.5	32.7	38.1	64.7	112.4	112.4
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	202.9	266.6	248.5	196.5	121.6	41.3	13.6	10.3	13.1	32.9	75.8	132.9	112.8	164.8
median	196.6	268.5	243.2	161.9	92.6	14.6	7.2	7.2	9.6	28.9	70.2	130.2	59.4	129.8
max	499.6	661.6	716.1	645.2	558.2	376.4	194.1	77.6	60.0	123.3	276.3	388.1	716.1	716.1
min	6.9	5.8	5.0	3.5	1.4	1.4	1.1	0.9	1.3	2.8	4.9	6.4	0.9	2.8
<b>Initial Spread Index, ISI</b>														
mean	6.0	6.0	5.3	4.1	2.9	2.1	2.0	2.4	3.1	4.0	4.7	5.1	4.0	5.0
median	5.5	5.3	4.7	3.5	2.4	1.5	1.5	1.8	2.5	3.5	4.2	4.6	3.1	4.4
max	32.8	38.1	28.4	20.7	17.5	16.7	22.0	17.1	23.2	20.3	20.5	23.6	38.1	38.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	34.6	44.1	31.5	20.9	9.4	2.9	1.9	2.5	4.3	9.0	16.3	23.7	16.7	25.6
median	30.6	37.5	25.1	14.8	6.6	1.9	1.3	1.9	3.3	7.4	14.6	20.5	8.9	18.9
max	124.5	157.0	141.8	105.5	93.1	22.8	13.3	13.6	21.5	37.6	56.7	89.8	157.0	157.0
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	12.1	13.6	10.2	6.6	3.1	1.3	1.0	1.3	2.2	4.1	6.5	8.7	5.9	8.8
median	10.9	11.7	8.8	4.9	1.5	0.5	0.4	0.5	0.9	3.1	5.7	7.2	2.9	6.8
max	59.6	65.4	59.3	43.8	25.5	16.1	19.6	12.7	17.9	25.8	28.8	40.5	65.4	65.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	3.1	3.9	2.5	1.2	0.4	0.1	0.1	0.1	0.2	0.5	1.1	1.9	1.2	2.0
median	1.9	2.1	1.3	0.5	0.1	0.0	0.0	0.0	0.0	0.2	0.6	0.9	0.2	0.8
max	37.7	44.4	37.4	21.9	8.4	3.7	5.3	2.4	4.5	8.6	10.4	19.0	44.4	44.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	94.2	111.0	76.6	37.8	12.0	3.1	2.3	3.2	6.2	16.6	33.4	57.9	37.8	61.1
max	312.9	376.7	342.8	188.3	52.1	15.7	15.9	7.9	22.5	56.9	80.8	223.9	376.7	376.7
min	9.3	19.5	18.7	1.3	0.5	0.1	0.2	0.3	0.6	1.7	3.6	10.4	0.1	1.3
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													454.1	428.0
max													1178.5	1082.8
min													206.4	164.9

Station Name: Kaitaia Observatory (KX)      Period: 1963-01-01 - 2021-07-01      Length of record: 58 years													FIRE SEASON	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	8.1	7.1	10.5	16.2	25.6	29.3	30.8	30.8	28.6	23.8	15.5	12.6	239.0	94.1
max	28	18	25	30	31	30	31	31	30	31	30	27	282	133
min	0	0	0	0	10	22	28	28	21	5	1	0	178	39
<b>Moderate</b>														
mean	14.4	10.7	14.2	11.3	5.1	0.7	0.2	0.2	1.4	7.0	13.2	13.8	92.2	84.2
max	26	23	23	23	19	8	3	3	9	23	25	22	132	111
min	2	1	3	0	0	0	0	0	0	0	0	3	52	46
<b>High</b>														
mean	5.7	6.0	4.4	1.9	0.3	0.0	0.0	0.0	0.0	0.2	1.3	3.6	23.5	23.3
max	16	14	14	18	7	0	0	0	0	3	10	13	61	59
min	0	0	0	0	0	0	0	0	0	0	0	0	3	3
<b>Very High</b>														
mean	1.9	2.3	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	6.6	6.6
max	14	13	6	5	1	0	0	0	0	0	0	10	39	34
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.7	1.7	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.5	3.5
max	7	11	10	3	0	0	0	0	0	0	0	5	25	23
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
max	4	2	3	0	0	0	0	0	0	0	0	0	5	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Northland (Zone 1 Far North)														
Curing%	80	80	75	50	40	40	45	45	50	55	70	75		
<b>Low</b>														
mean	1.9	1.8	2.3	3.6	5.6	9.3	9.3	7.7	5.2	3.7	2.4	2.9	55.8	18.7
max	10	6	10	14	13	21	19	18	11	9	9	9	80	33
min	0	0	0	0	1	4	2	3	0	0	0	0	38	6
<b>Moderate</b>														
mean	8.6	8.4	12.5	21.4	24.1	19.9	20.8	22.2	22.5	21.4	16.3	12.3	210.4	100.8
max	17	18	19	28	29	26	29	27	27	28	24	21	246	128
min	1	0	5	14	18	9	12	13	16	14	5	3	179	67
<b>High</b>														
mean	16.1	13.9	13.9	4.9	1.3	0.8	0.9	1.1	2.3	5.8	10.6	13.6	85.2	78.9
max	23	23	23	12	6	5	5	5	8	13	23	22	115	111
min	7	5	6	0	0	0	0	0	0	0	3	2	59	54
<b>Very High</b>														
mean	3.8	3.4	2.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.7	2.1	12.3	12.1
max	12	12	10	3	0	0	1	0	1	1	4	11	26	27
min	1	0	0	0	0	0	0	0	0	0	0	0	3	3
<b>Extreme</b>														
mean	0.6	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.7	1.7
max	4	8	2	0	0	0	0	0	0	0	0	2	8	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.4	3.1	3.7	5.2	8.2	12.2	12.9	11.5	9.0	6.6	4.8	4.9	85.6	31.9
max	12	9	11	17	17	25	22	21	16	15	11	12	123	50
min	0	0	0	0	1	6	3	5	3	0	1	0	58	13
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	1	0	0	0	0	1	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.8	0.8	1.0	1.0	1.9	2.7	2.8	2.2	1.3	0.8	0.8	0.8	16.8	5.9
max	5	3	3	4	7	7	8	7	7	4	4	4	36	16
min	0	0	0	0	0	0	0	0	0	0	0	0	6	1
<b>Very High</b>														
mean	1.3	1.5	2.1	3.1	4.1	4.0	4.4	4.3	3.2	2.7	2.4	2.1	35.4	15.3
max	5	4	5	9	10	10	10	10	7	8	7	6	54	28
min	0	0	0	0	0	1	0	0	0	0	0	0	22	5
<b>Extreme</b>														
mean	5.8	5.2	7.0	8.7	9.5	7.0	6.9	7.9	8.5	8.6	7.1	6.4	88.7	48.7
max	15	15	12	15	15	16	19	15	15	15	14	13	132	68
min	1	0	2	4	4	1	1	1	4	4	2	1	64	28
<b>Very Extreme</b>														
mean	19.8	17.6	17.2	11.9	7.3	4.1	3.9	5.1	8.0	12.3	14.8	16.7	138.7	110.4
max	30	28	25	24	15	12	13	12	19	25	26	27	189	155
min	8	8	8	2	1	1	0	1	1	3	3	3	99	76

### Windroses for Kaitaia Observatory (KX)



Station Name: Opouteke Raws (OPO)

Period: 1995-10-13 - 2021-07-01

Length of record: 25 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.8	23.4	21.9	19.6	17.2	14.7	13.9	14.3	15.9	17.2	19.0	21.3	18.4	20.7
median	23.1	23.3	21.9	19.6	17.1	14.6	13.9	14.3	15.8	17.1	18.9	21.2	18.2	20.8
max	31.8	31.2	29.5	28.5	25.7	21.1	19.9	21.6	23.9	24.7	27.6	30.5	31.8	31.8
min	7.6	15.1	14.3	11.7	8.4	5.0	7.0	6.3	8.0	9.2	11.7	8.7	5.0	7.6
<b>Relative Humidity, %</b>														
mean	63.1	64.5	66.3	70.9	77.5	82.7	81.3	76.2	69.7	66.3	64.1	64.6	70.6	65.7
median	60.0	62.0	64.2	70.0	77.0	84.0	82.0	75.1	68.1	65.0	62.7	62.0	69.0	64.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	28	31	29	33	34	48	44	33	30	28	27	24	24	24
<b>Wind Speed, km/h</b>														
mean	9.0	8.4	8.3	8.0	7.2	7.2	7.4	8.6	9.1	10.0	10.2	9.5	8.6	9.1
median	8.5	7.6	7.6	7.0	6.4	6.1	6.1	7.3	8.3	9.7	9.7	9.3	7.9	8.5
max	27.7	34.7	27.0	38.4	23.6	31.0	31.7	47.0	33.8	35.3	31.9	28.4	47.0	38.4
min	0.8	0.0	0.9	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	3.1	3.7	3.5	4.0	5.4	6.9	7.3	6.0	5.4	3.9	3.2	3.6	4.7	3.6
median	0.0	0.0	0.2	0.4	1.2	2.0	2.4	2.2	1.0	0.4	0.2	0.2	0.4	0.2
max	144.8	112.4	142.6	88.6	81.0	93.2	98.8	87.4	98.4	63.8	56.6	92.6	144.8	144.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	97.1	102.0	109.8	118.7	168.9	204.9	228.1	186.3	163.0	120.0	95.8	109.7	142.0	107.6
max	319.2	300.2	365.2	315.0	355.8	374.0	542.0	339.6	312.6	277.8	294.2	266.0	542.0	365.2
min	14.2	16.4	14.0	49.2	34.8	95.8	103.6	80.8	52.0	37.4	22.2	15.0	14.0	14.0
<b>Seasonal Rainfall, millimetres</b>														
mean													1704.4	758.9
max													2143.1	1273.4
min													1251.0	443.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	73.8	73.5	72.2	65.6	52.6	42.0	41.3	47.8	59.0	66.1	70.8	71.6	61.4	70.5
median	84.6	83.4	81.6	72.9	55.4	39.4	39.4	47.4	63.5	73.1	78.8	81.4	69.4	80.1
max	92.6	92.3	91.9	90.7	87.6	85.7	85.3	90.1	89.9	90.3	92.0	93.2	93.2	93.2
min	0.1	0.7	0.2	0.0	1.5	0.0	0.0	0.0	0.9	1.5	1.8	1.6	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	22.6	24.1	17.1	8.9	3.2	0.7	0.6	1.2	3.5	7.2	11.6	16.5	9.8	15.4
median	19.5	18.4	13.1	6.2	1.6	0.2	0.2	0.6	2.6	5.6	10.4	13.3	4.7	11.0
max	84.6	117.2	113.9	42.5	29.3	8.6	6.3	15.9	17.4	34.2	45.2	70.7	117.2	117.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	184.7	215.5	202.6	170.9	90.1	15.7	6.4	6.8	12.0	28.7	69.4	127.2	94.5	142.2
median	168.2	204.6	188.7	157.8	48.9	6.5	4.6	4.8	7.5	21.7	65.7	118.2	41.9	114.4
max	415.0	614.4	570.2	504.3	386.2	198.1	35.7	32.2	72.7	124.4	215.7	345.5	614.4	614.4
min	6.5	5.7	4.4	3.2	1.2	0.6	1.1	0.8	1.1	2.6	4.8	6.2	0.6	2.6
<b>Initial Spread Index, ISI</b>														
mean	3.1	2.8	2.4	1.6	0.8	0.4	0.4	0.6	1.1	1.7	2.2	2.6	1.6	2.3
median	3.2	2.5	2.0	1.0	0.4	0.0	0.0	0.2	0.8	1.2	1.8	2.1	0.9	1.8
max	13.5	11.9	9.3	9.8	6.3	4.7	3.6	5.7	6.2	7.6	11.4	12.1	13.5	13.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	32.8	35.6	26.4	14.7	5.2	1.1	0.9	1.5	3.9	8.6	15.8	23.8	14.2	22.4
median	29.4	28.7	21.5	10.7	2.6	0.4	0.4	0.9	2.8	6.8	14.5	19.7	6.7	16.7
max	110.2	155.5	143.3	64.7	44.6	15.0	7.7	15.8	17.8	34.1	53.4	91.2	155.5	155.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	7.2	6.8	4.9	2.3	0.7	0.2	0.1	0.3	0.7	1.8	3.3	5.0	2.8	4.5
median	6.3	5.2	3.2	0.6	0.1	0.0	0.0	0.1	0.3	0.6	1.9	3.5	0.5	2.2
max	30.2	34.6	28.8	18.1	11.0	4.4	3.3	7.3	6.7	14.4	18.4	31.1	34.6	34.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.4	1.4	0.8	0.3	0.1	0.0	0.0	0.0	0.0	0.2	0.4	0.9	0.5	0.8
median	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.1
max	11.3	14.4	10.4	4.6	1.9	0.4	0.2	0.9	0.8	3.0	4.7	11.9	14.4	14.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	43.3	38.0	26.0	8.4	1.7	0.1	0.1	0.4	1.1	5.2	12.2	27.4	13.7	22.9
max	181.0	179.2	150.6	24.4	13.8	1.2	0.7	3.7	3.0	19.1	30.4	99.3	181.0	181.0
min	4.3	3.0	1.4	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.8	0.6	0.0	0.0
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													163.8	161.5
max													429.0	446.7
min													35.7	15.7

Station Name: Opouteke Raws (OPO)

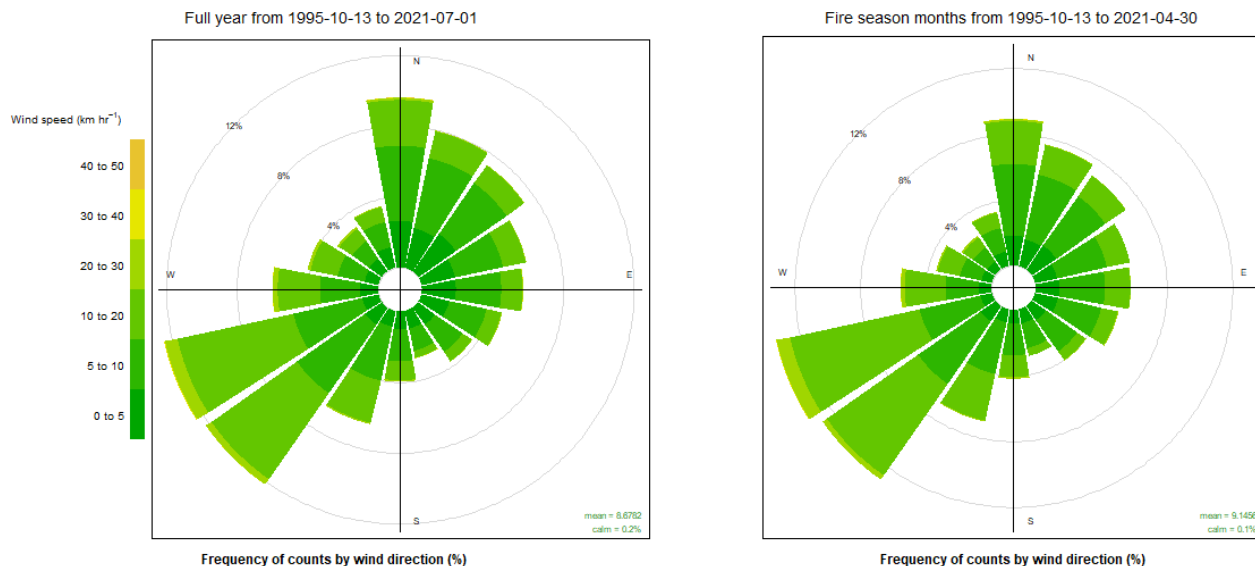
Period: 1995-10-13 - 2021-07-01

Length of record: 25 years

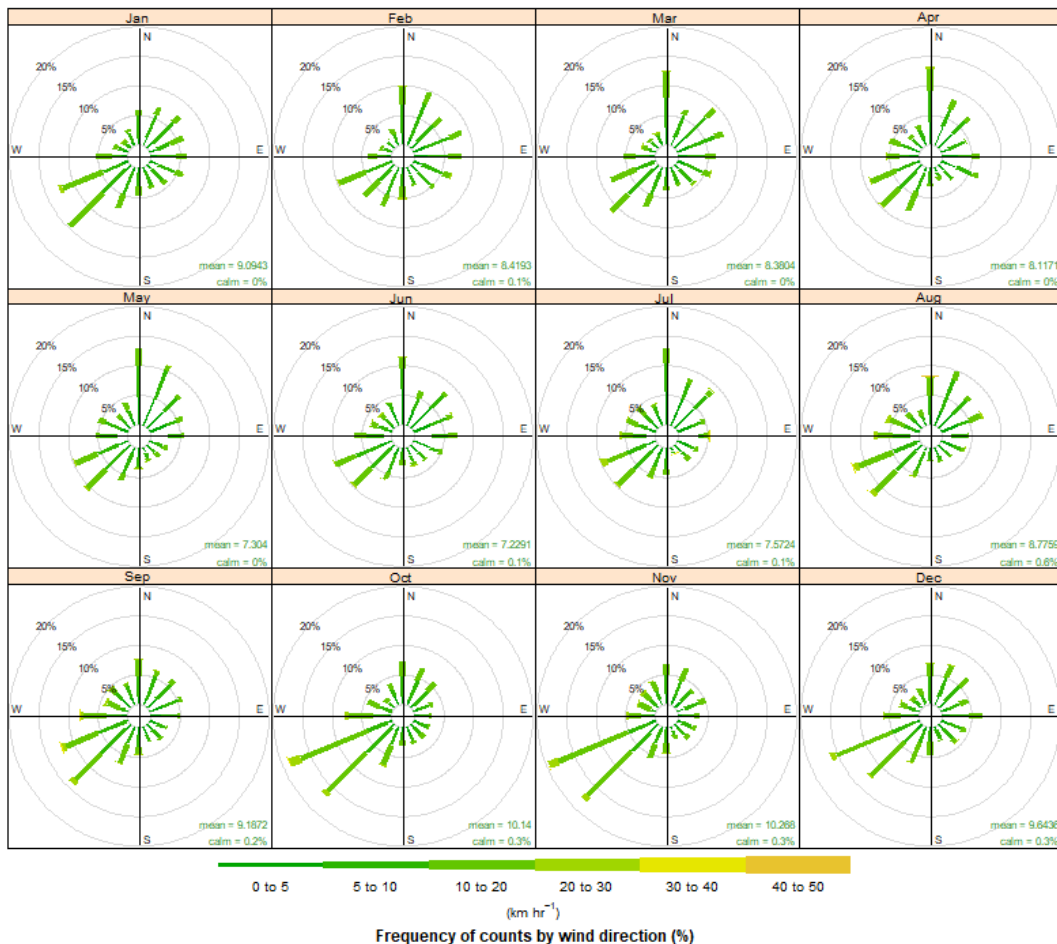
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	13.6	13.4	18.8	24.3	29.9	30.0	31.0	30.9	29.9	27.4	21.6	17.8	288.6	137.2
max	29	27	31	30	31	30	31	31	30	31	30	31	342	201
min	2	1	3	15	21	30	31	29	28	15	12	4	242	96
<b>Moderate</b>														
mean	13.8	11.7	10.2	5.6	1.1	0.0	0.0	0.1	0.1	3.6	8.2	11.1	65.5	63.8
max	23	21	23	14	10	0	0	2	2	16	18	18	105	95
min	2	2	0	0	0	0	0	0	0	0	0	0	23	11
<b>High</b>														
mean	2.8	2.6	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8	9.5	9.6
max	9	23	19	2	0	0	0	0	0	0	2	9	41	39
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.7	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.6	1.6
max	13	3	3	0	0	0	0	0	0	0	0	3	16	18
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	0	3	0	0	0	0	0	0	0	0	0	1	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Northland (Kaipara)														
Curing%	70	80	75	65	50	40	40	40	50	50	60	65		
<b>Low</b>														
mean	5.3	4.6	5.7	9.6	17.5	23.9	24.7	21.2	13.4	9.8	7.2	6.4	149.2	48.4
max	17	13	15	20	29	30	31	29	21	25	21	17	208	92
min	0	0	1	3	4	10	16	12	3	3	1	0	99	26
<b>Moderate</b>														
mean	19.6	15.6	20.6	20.1	13.5	6.1	6.3	9.8	16.6	21.1	22.6	22.6	194.5	141.8
max	27	25	30	25	27	20	15	19	27	28	29	28	251	170
min	10	4	6	10	2	0	0	2	9	6	9	14	152	117
<b>High</b>														
mean	6.1	7.9	4.7	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.3	2.0	21.4	21.8
max	21	25	20	3	0	0	0	0	0	2	4	11	60	58
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	0	4	0	0	0	0	0	0	0	0	0	0	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	6.1	5.6	6.8	9.9	17.2	22.7	23.8	20.1	13.6	10.2	6.8	6.8	149.5	52.1
max	17	15	15	19	29	30	31	28	21	23	21	18	214	95
min	1	1	1	4	5	11	17	9	3	3	1	0	101	30
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2
max	0	0	1	1	0	0	0	1	1	1	1	1	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	3.3	3.8	5.2	7.0	6.6	5.1	5.0	5.9	6.7	5.6	4.8	4.4	63.4	34.1
max	7	11	11	11	16	12	9	15	11	11	9	10	86	49
min	1	0	0	3	2	0	0	1	3	1	1	1	47	20
<b>Very High</b>														
mean	3.0	2.7	4.0	4.6	3.8	1.0	1.5	3.0	4.2	5.0	5.1	4.3	42.2	28.8
max	11	7	10	9	9	4	7	8	9	11	8	8	58	46
min	0	1	0	1	0	0	0	0	1	1	1	1	30	19
<b>Extreme</b>														
mean	7.8	8.8	9.6	6.0	3.2	1.1	0.7	1.8	4.7	7.3	8.5	8.7	68.4	56.6
max	16	17	19	12	14	10	5	8	10	17	14	16	108	90
min	2	1	2	0	0	0	0	0	0	1	4	1	41	32
<b>Very Extreme</b>														
mean	10.7	7.4	5.4	2.4	0.2	0.1	0.0	0.3	0.7	2.8	4.8	6.8	41.5	40.4
max	25	24	20	10	2	1	0	3	4	11	14	21	97	91
min	1	0	0	0	0	0	0	0	0	0	0	0	1	1



### Windroses for Opouteke Raws (OPO)



OPO station from 1995-10-13 to 2021-07-01



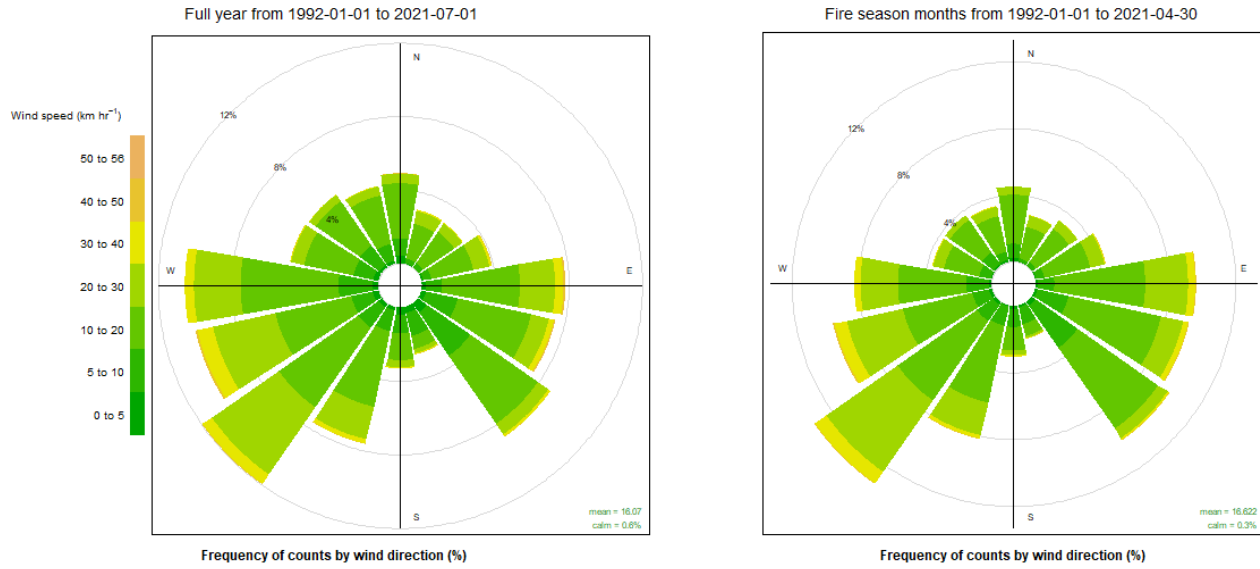
Station Name: Whangarei Aero Aws (WRA)      Period: 1992-01-01 - 2021-07-01      Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.8	23.0	21.5	19.5	17.2	15.0	14.2	14.5	16.0	17.5	19.2	21.3	18.5	20.7
median	23.0	23.0	21.6	19.4	17.0	15.0	14.0	14.6	16.0	17.4	19.0	21.0	18.0	21.0
max	30.0	30.1	27.0	25.0	23.0	21.0	19.0	20.0	21.0	23.0	26.0	29.0	30.1	30.1
min	14.2	16.0	16.0	12.3	8.4	7.0	7.0	6.0	8.7	11.0	13.0	12.0	6.0	11.0
<b>Relative Humidity, %</b>														
mean	62.1	64.5	66.3	69.3	73.4	76.6	75.0	71.6	67.6	64.5	62.7	63.5	68.1	64.7
median	60.0	63.0	64.0	68.0	72.0	76.0	73.0	70.0	66.0	62.0	60.5	61.0	67.0	63.0
max	100	100	100	100	100	100	100	100	100	95	100	99	100	100
min	34	34	36	40	42	46	46	40	35	35	38	34	34	34
<b>Wind Speed, km/h</b>														
mean	16.7	16.1	15.8	14.7	14.4	14.0	14.9	16.3	17.0	18.3	18.1	17.0	16.1	16.7
median	16.7	16.4	15.0	14.8	13.0	13.0	14.8	15.0	16.7	18.0	17.0	17.0	15.0	16.7
max	48.0	41.0	50.0	43.0	46.0	44.7	56.0	48.0	44.0	50.0	46.0	43.0	56.0	50.0
min	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.0	0.0	2.0	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.5	2.9	3.6	3.1	3.8	4.8	5.8	4.2	3.7	2.4	2.6	2.9	3.5	2.9
median	0.0	0.0	0.0	0.0	0.4	0.6	0.9	0.8	0.4	0.0	0.0	0.0	0.2	0.0
max	204.8	112.4	204.4	75.8	84.8	113.6	138.2	87.6	83.0	61.0	106.0	129.8	204.8	204.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	76.2	81.2	111.7	90.9	118.9	139.7	180.8	130.1	111.2	75.3	77.4	90.5	107.0	86.2
max	359.6	194.6	342.4	250.8	226.2	340.6	457.0	259.2	250.0	147.6	255.0	224.0	457.0	359.6
min	6.4	8.6	7.6	4.6	23.8	24.8	24.2	38.4	38.0	16.0	6.0	7.0	4.6	4.6
<b>Seasonal Rainfall, millimetres</b>														
mean													1283.9	615.0
max													1765.6	967.6
min													849.0	246.4
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	79.6	77.9	76.5	72.6	66.7	61.5	60.2	64.0	68.7	74.6	77.1	76.9	71.3	76.5
median	85.9	85.3	84.0	80.9	73.6	67.2	64.3	68.7	75.9	81.9	83.3	84.8	79.7	83.9
max	90.1	90.8	89.8	88.6	87.0	85.9	85.3	87.4	87.5	89.0	89.8	90.5	90.8	90.8
min	11.4	11.6	5.8	5.6	5.9	4.7	4.4	5.2	8.6	16.2	0.0	5.6	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	29.9	28.0	20.3	14.6	6.0	2.5	1.6	2.4	5.3	10.5	16.9	22.2	13.3	20.3
median	25.4	21.1	15.8	9.4	3.9	1.4	1.0	1.9	4.4	9.4	14.7	19.6	7.8	15.4
max	100.2	133.3	85.6	87.9	90.3	17.9	8.0	10.9	20.2	38.6	58.1	84.2	133.3	133.3
min	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	241.7	282.8	255.7	225.4	142.7	56.3	22.9	15.4	19.4	46.2	105.6	184.2	133.5	191.9
median	226.7	281.2	229.4	204.7	101.7	20.8	9.0	10.2	13.6	44.2	101.6	190.7	77.7	166.8
max	610.9	673.4	684.6	687.0	614.6	360.6	245.3	112.1	72.7	136.4	273.5	414.5	687.0	687.0
min	6.6	7.1	4.8	3.8	1.7	1.5	1.0	1.0	1.3	3.3	4.9	6.6	1.0	3.3
<b>Initial Spread Index, ISI</b>														
mean	5.0	4.3	3.8	2.8	1.9	1.4	1.3	1.7	2.4	3.5	4.2	4.4	3.1	4.0
median	5.0	4.3	3.5	2.5	1.6	1.1	1.0	1.4	2.1	3.3	3.9	4.4	2.4	3.8
max	29.9	18.0	23.6	14.4	10.8	9.7	10.3	11.4	13.7	14.9	19.0	19.9	29.9	29.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	43.9	43.0	32.6	23.8	9.9	3.9	2.3	3.2	6.1	13.0	23.3	32.9	19.8	30.3
median	38.2	34.7	26.5	16.0	6.3	2.4	1.5	2.4	5.0	11.9	21.2	30.2	11.4	23.6
max	131.4	178.4	128.7	128.7	132.0	29.1	12.4	13.4	23.0	45.2	75.6	106.8	178.4	178.4
min	0.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.4	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	12.0	10.3	8.1	5.1	2.1	0.9	0.6	1.0	2.0	4.5	7.2	9.3	5.2	8.1
median	11.0	9.5	7.0	3.4	0.8	0.3	0.3	0.5	0.9	3.9	6.6	8.8	2.4	6.7
max	57.2	41.9	46.6	38.0	22.7	15.6	7.9	11.1	11.8	21.6	33.9	41.6	57.2	57.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	3.0	2.4	1.7	0.9	0.2	0.1	0.0	0.1	0.2	0.6	1.3	2.0	1.0	1.7
median	1.9	1.5	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.3	0.1	0.8
max	35.1	20.2	24.4	17.0	6.8	3.5	1.1	1.9	2.1	6.3	13.9	19.9	35.1	35.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	93.7	67.4	52.3	27.3	6.5	1.9	0.9	1.8	5.2	17.9	38.4	61.6	31.2	51.2
max	280.7	277.0	210.3	195.2	24.3	18.3	2.7	7.3	11.7	46.8	131.8	161.0	280.7	280.7
min	14.7	18.3	3.0	2.1	0.2	0.1	0.1	0.2	0.3	2.9	7.9	12.3	0.1	2.1
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													374.9	354.2
max													747.9	790.6
min													123.8	172.9

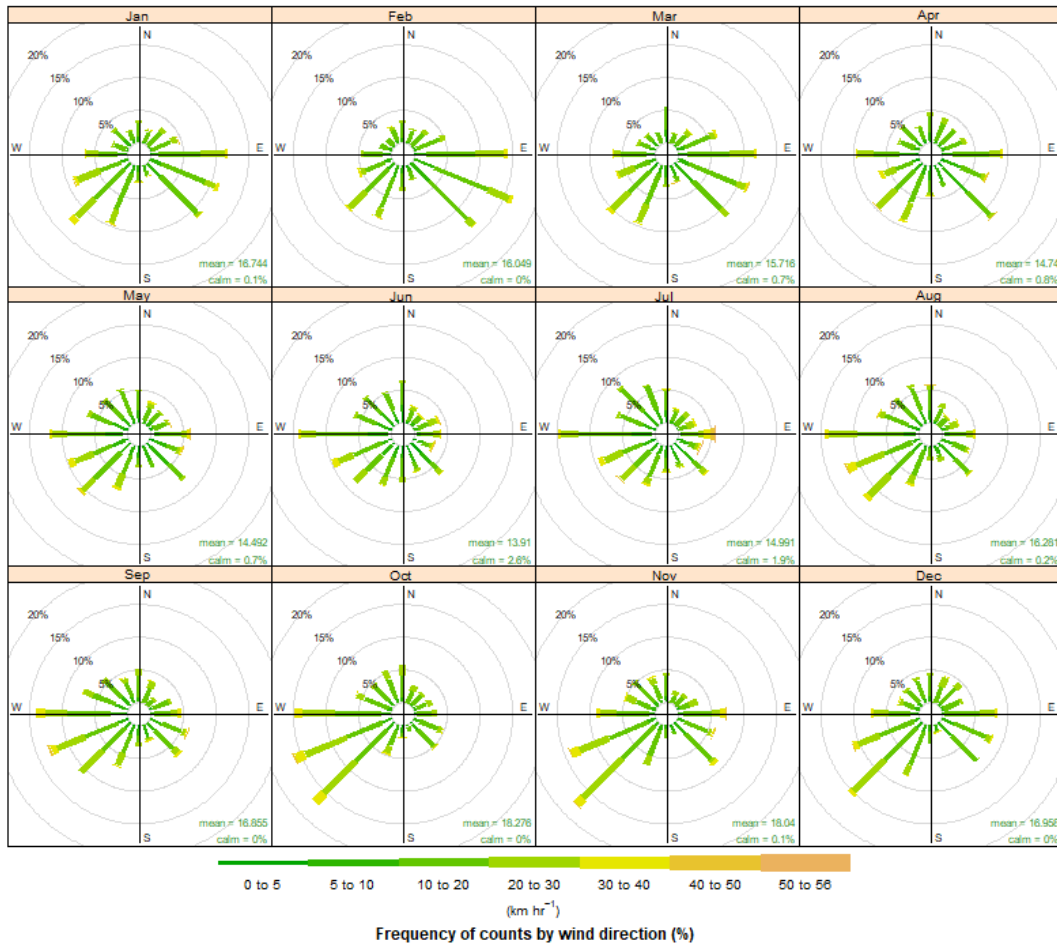
Station Name: Whangarei Aero Aws (WRA)      Period: 1992-01-01 - 2021-07-01      Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	7.7	8.2	11.9	18.1	27.0	29.4	31.0	30.8	28.2	20.4	12.4	10.4	235.5	90.4
max	18	20	31	30	31	30	31	31	30	31	25	25	315	124
min	0	0	0	0	14	18	31	28	23	6	1	1	178	40
<b>Moderate</b>														
mean	13.7	14.0	14.9	10.2	4.0	0.6	0.0	0.2	1.8	10.4	15.7	14.8	100.3	92.9
max	22	24	25	20	17	12	0	3	7	25	25	21	139	124
min	2	2	0	0	0	0	0	0	0	0	5	6	46	63
<b>High</b>														
mean	6.7	4.4	3.3	1.2	0.1	0.0	0.0	0.0	0.0	0.1	1.6	4.9	22.4	22.0
max	16	16	18	14	2	0	0	0	0	2	11	17	55	63
min	0	0	0	0	0	0	0	0	0	0	0	0	3	5
<b>Very High</b>														
mean	2.2	1.1	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	5.2	5.0
max	11	10	6	4	0	0	0	0	0	0	2	7	22	23
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.7	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.9	1.9
max	7	7	3	3	0	0	0	0	0	0	2	2	11	11
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	1	0	1	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Northland (Whangarei)														
Curing%	70	80	70	50	40	40	40	40	45	50	60	65		
<b>Low</b>														
mean	2.3	2.2	3.1	4.9	8.8	11.3	11.9	9.2	6.5	3.6	2.8	3.6	70.1	22.8
max	8	7	9	10	15	20	21	17	13	8	8	9	97	35
min	0	0	0	0	2	2	3	3	1	0	0	0	44	6
<b>Moderate</b>														
mean	14.5	10.4	19.3	23.8	22.0	18.6	19.0	21.7	22.9	24.7	24.8	19.8	241.6	137.1
max	25	19	28	30	28	28	28	28	29	29	30	25	266	156
min	4	3	8	17	16	10	10	14	16	21	16	14	216	117
<b>High</b>														
mean	13.8	14.7	8.4	1.3	0.2	0.1	0.1	0.2	0.6	2.7	2.5	7.6	52.1	50.8
max	27	24	22	6	2	1	2	1	3	6	9	17	72	82
min	2	4	1	0	0	0	0	0	0	0	0	1	31	33
<b>Very High</b>														
mean	0.4	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.4	1.4
max	3	3	2	0	0	0	0	0	0	0	0	1	6	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	1	1	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.2	3.8	4.3	6.0	9.5	12.1	13.5	11.1	8.2	5.2	3.4	4.6	85.0	31.0
max	10	9	15	11	16	20	22	18	14	11	12	11	117	50
min	0	0	0	0	2	2	4	5	2	0	0	0	62	11
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	1	0	1	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.3	1.2	1.5	2.8	3.9	4.9	5.1	3.6	2.4	1.3	1.3	1.4	30.7	11.0
max	5	3	4	8	10	12	10	9	7	5	4	4	44	19
min	0	0	0	0	0	0	1	0	1	0	0	0	20	5
<b>Very High</b>														
mean	2.0	2.3	3.2	3.9	5.7	5.9	6.3	6.6	4.6	3.7	3.2	2.7	50.1	21.1
max	6	6	10	9	11	12	11	12	9	8	6	7	61	30
min	0	0	0	1	1	1	3	3	1	0	1	0	32	13
<b>Extreme</b>														
mean	5.6	6.8	9.3	10.6	9.1	5.7	5.0	7.5	9.7	9.9	8.7	6.5	94.3	57.0
max	11	13	16	21	16	12	12	14	18	15	18	13	120	70
min	0	1	5	3	2	1	1	3	3	4	3	2	65	29
<b>Very Extreme</b>														
mean	19.0	14.2	12.7	6.7	2.9	1.4	1.0	2.2	5.1	10.9	13.3	15.8	105.0	92.1
max	29	23	26	20	7	8	4	6	9	19	24	25	130	122
min	8	4	3	2	0	0	0	0	0	4	4	7	68	65

### Windroses for Whangarei Aero Aws (WRA)



### WRA station from 1992-01-01 to 2021-07-01



Station Name: Auckland Aero (AKL)													Period: 1967-01-01 - 2021-07-01		Length of record: 54 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	22.1	22.4	21.2	18.7	16.0	13.7	12.9	13.7	15.0	16.5	18.3	20.4	17.6	19.9		
median	22.0	22.6	21.1	18.8	16.0	14.0	13.0	13.8	15.0	16.5	18.0	20.3	17.3	20.0		
max	28.0	28.0	28.0	24.7	22.3	20.6	20.0	25.0	21.0	23.0	24.5	26.8	28.0	28.0		
min	14.0	14.0	12.1	11.3	8.5	7.0	5.7	3.0	6.6	7.9	11.0	13.0	3.0	7.9		
<b>Relative Humidity, %</b>																
mean	65.4	65.2	67.0	71.5	76.6	79.1	78.3	75.4	72.6	71.1	68.5	67.5	71.5	68.0		
median	64.6	64.0	66.0	71.0	76.0	79.0	77.6	75.0	72.0	70.0	68.0	66.0	71.0	67.0		
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
min	33.0	34.7	19.0	38.6	38.7	46.0	28.0	21.0	30.0	33.5	31.8	36.0	19.0	19.0		
<b>Wind Speed, km/h</b>																
mean	21.5	20.1	19.8	19.4	18.7	18.0	18.4	20.8	23.0	24.7	23.9	22.7	20.9	21.7		
median	20.4	18.6	18.5	18.5	18.5	18.5	18.5	20.4	22.2	24.1	24.0	22.2	20.4	20.4		
max	57.4	61.1	74.1	64.8	66.7	74.1	66.7	64.8	65.0	63.0	63.0	55.6	74.1	74.1		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>24-hr Rainfall, millimeters</b>																
mean	2.1	2.4	2.5	3.0	3.5	3.8	4.1	3.6	3.2	2.7	2.4	2.7	3.0	2.5		
median	0.0	0.0	0.0	0.0	0.3	0.5	0.7	0.6	0.4	0.1	0.0	0.0	0.0	0.0		
max	75.7	161.8	76.6	78.4	112.7	88.8	97.0	80.3	54.0	86.6	69.3	141.6	161.8	161.8		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	64.7	67.1	77.0	89.5	108.0	115.1	128.5	112.9	95.6	82.5	73.0	83.6	91.5	76.8		
max	206.1	291.6	260.8	220.3	237.8	209.0	308.4	221.1	210.4	180.4	219.1	206.0	308.4	291.6		
min	4.1	8.8	7.6	12.7	23.0	47.0	26.4	36.6	38.0	23.0	10.3	12.8	4.1	4.1		
<b>Seasonal Rainfall, millimetres</b>																
mean													1097.6	532.1		
max													1486.9	773.2		
min													793.8	256.4		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	79.5	79.4	77.8	73.1	66.3	59.7	59.4	62.8	68.1	72.2	75.3	76.6	70.8	76.3		
median	84.6	84.9	83.8	80.1	72.9	63.4	62.5	66.8	73.9	78.1	81.6	83.1	78.2	82.6		
max	90.6	90.3	92.9	88.9	87.0	84.7	85.7	93.6	88.1	88.5	90.1	89.2	93.6	92.9		
min	0.0	3.3	1.4	10.3	3.7	0.7	0.0	6.4	3.1	8.3	1.4	0.3	0.0	0.0		
<b>Duff Moisture Code, DMC</b>																
mean	22.6	28.2	20.7	11.2	4.2	1.3	1.1	1.9	4.0	6.8	12.0	15.9	10.8	16.7		
median	18.9	23.7	16.4	8.4	2.9	0.9	0.7	1.4	3.0	5.5	10.2	13.6	5.8	12.5		
max	92.3	116.9	97.6	90.7	32.6	12.4	9.7	15.5	23.1	31.5	46.8	75.2	116.9	116.9		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Drought Code, DC</b>																
mean	245.7	319.7	310.8	256.8	156.8	68.3	19.6	11.4	16.3	39.3	92.9	160.1	141.3	203.2		
median	245.2	328.6	300.3	237.2	141.8	39.0	8.9	7.9	11.9	34.4	86.6	160.6	88.0	172.1		
max	537.7	668.0	724.1	746.7	617.8	380.7	157.6	79.7	69.4	149.6	258.5	429.1	746.7	746.7		
min	7.3	5.6	5.4	3.4	1.2	1.1	1.0	1.1	1.1	2.6	4.7	6.2	1.0	2.6		
<b>Initial Spread Index, ISI</b>																
mean	5.8	5.6	4.8	3.5	2.3	1.6	1.6	2.1	3.0	3.9	4.8	5.0	3.6	4.8		
median	5.0	4.9	4.0	2.6	1.6	1.0	1.0	1.4	2.3	3.2	4.1	4.3	2.7	4.0		
max	33.4	32.7	22.8	28.7	15.0	12.8	19.8	24.0	24.5	23.7	27.4	27.2	33.4	33.4		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	35.7	44.6	34.3	19.3	7.4	2.3	1.7	2.6	4.8	9.0	17.4	24.6	16.9	26.3		
median	30.8	39.4	28.3	15.0	5.2	1.6	1.1	1.9	3.6	7.6	15.5	22.0	9.1	20.0		
max	119.8	162.2	144.0	139.0	47.6	22.1	11.8	15.5	24.0	39.4	61.8	101.7	162.2	162.2		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Fire Weather Index, FWI</b>																
mean	11.8	12.8	9.8	5.3	2.1	0.8	0.7	1.2	2.2	3.9	6.8	8.6	5.5	8.4		
median	10.5	11.6	8.0	3.6	0.7	0.3	0.3	0.4	0.9	3.0	5.7	7.4	2.6	6.5		
max	60.4	77.9	51.1	39.6	22.7	10.9	16.9	18.1	23.5	30.7	38.1	51.3	77.9	77.9		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	3.0	3.4	2.3	0.9	0.2	0.1	0.1	0.1	0.2	0.5	1.2	1.8	1.1	1.9		
median	1.7	2.1	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.9	0.1	0.7		
max	38.6	60.7	28.7	18.3	6.8	1.9	4.0	4.6	7.3	11.7	17.1	29.0	60.7	60.7		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	92.9	94.9	69.7	27.3	6.8	1.5	1.6	3.0	6.7	15.7	36.6	54.8	34.3	56.0		
max	403.1	360.0	322.4	86.5	21.4	4.6	19.4	12.9	39.1	56.0	110.5	200.9	403.1	403.1		
min	17.9	9.7	11.3	2.9	0.1	0.1	0.0	0.3	0.7	1.6	4.2	7.5	0.0	1.6		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													411.5	396.4		
max													1036.7	918.1		
min													105.5	99.4		

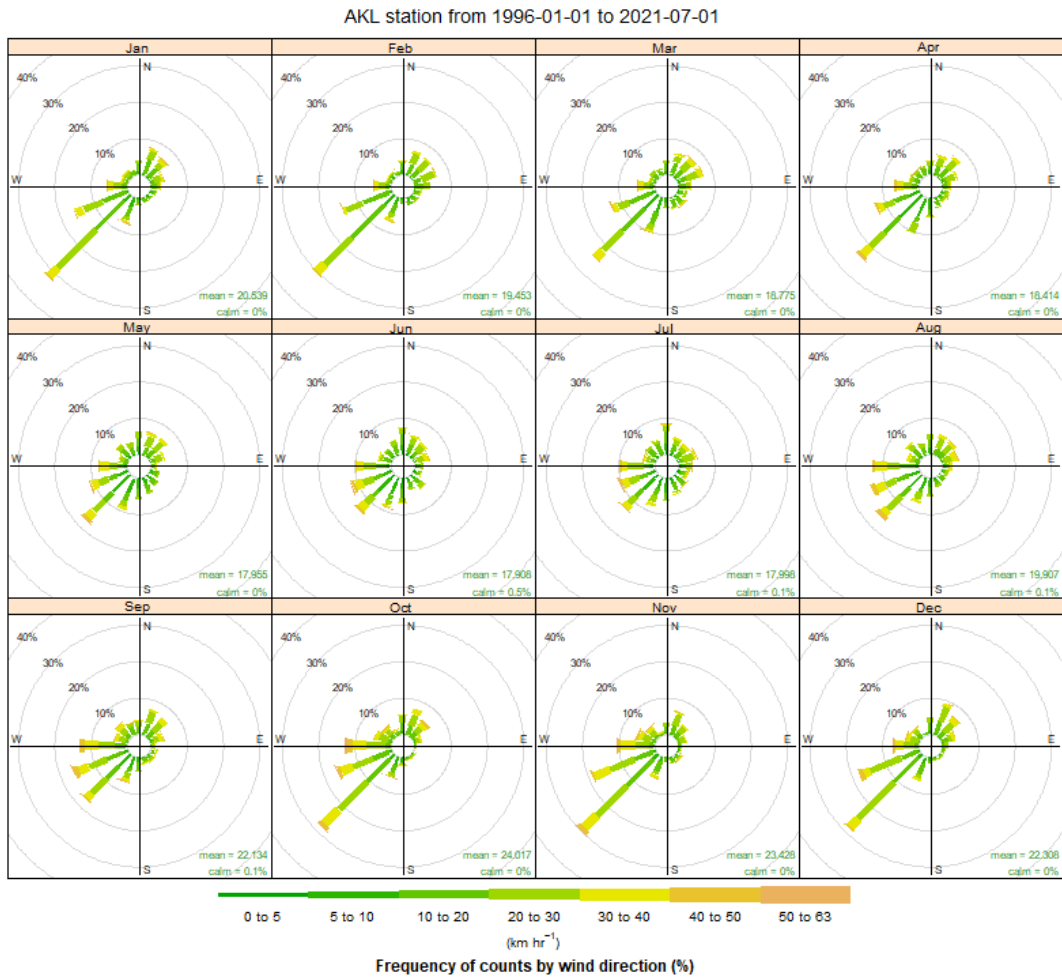
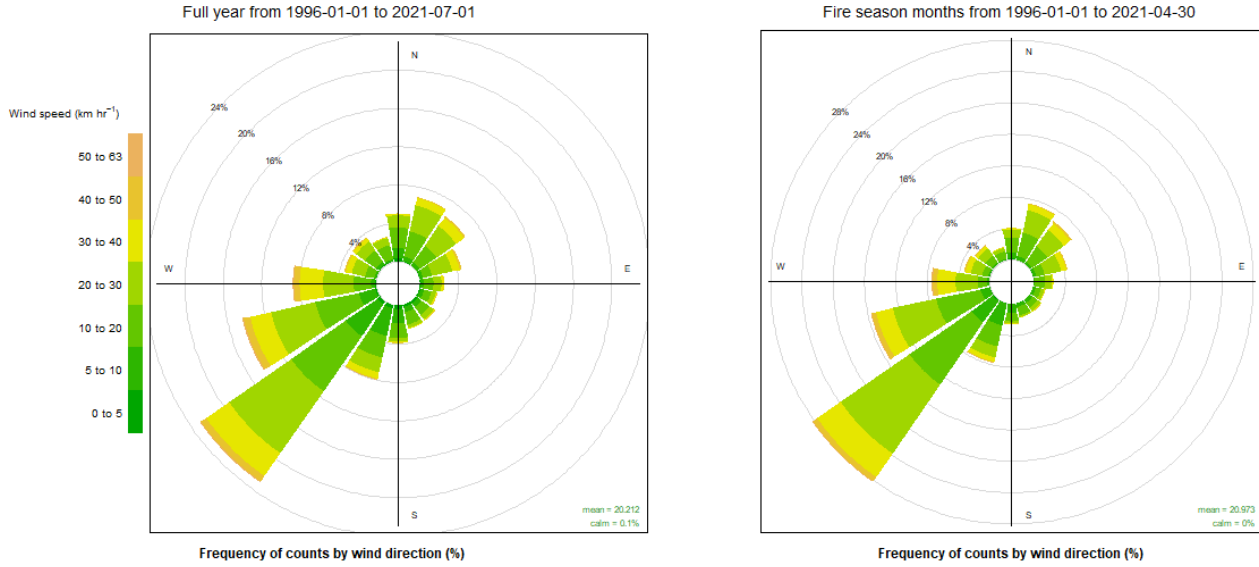
Station Name: Auckland Aero (AKL)

Period: 1967-01-01 - 2021-07-01

Length of record: 54 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	7.8	6.7	10.5	18.1	28.0	29.9	30.8	30.6	28.4	24.6	14.6	11.6	241.7	93.6
max	23	23	25	30	31	30	31	31	30	31	30	29	309	153
min	0	0	0	1	17	27	25	25	17	8	1	0	183	53
<b>Moderate</b>														
mean	15.1	12.4	14.6	10.5	2.9	0.1	0.2	0.4	1.6	6.2	13.7	15.4	93.3	87.8
max	26	24	27	23	13	3	6	6	13	21	28	24	124	112
min	4	2	1	0	0	0	0	0	0	0	0	2	55	59
<b>High</b>														
mean	5.5	6.1	4.2	1.2	0.0	0.0	0.0	0.0	0.0	0.2	1.5	3.3	22.0	22.5
max	16	14	15	6	1	0	0	0	0	3	7	12	46	45
min	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Very High</b>														
mean	1.3	2.0	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	5.1	5.2
max	8	9	7	4	0	0	0	0	0	0	2	5	19	19
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.0	0.9	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	2.8	2.8
max	10	11	8	2	0	0	0	0	0	0	2	4	16	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
max	5	4	2	0	0	0	0	0	0	0	0	1	6	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Auckland (Mainland)														
Curing%	75	80	80	60	40	40	30	40	45	50	65	70		
<b>Low</b>														
mean	1.5	1.4	1.8	4.1	7.8	11.8	14.0	9.5	5.4	3.2	2.3	2.1	65.0	16.4
max	7	6	7	9	18	21	25	22	12	10	6	9	95	31
min	0	0	0	0	2	5	7	2	0	0	0	0	41	8
<b>Moderate</b>														
mean	12.0	9.7	13.6	23.8	22.2	17.8	16.6	20.5	22.5	23.8	19.9	16.6	219.0	119.0
max	22	20	22	29	28	25	24	27	29	29	27	24	253	148
min	2	1	5	16	11	9	5	9	16	14	9	7	188	86
<b>High</b>														
mean	14.5	13.9	13.0	2.2	1.0	0.4	0.4	0.9	2.0	3.9	7.5	11.3	70.9	66.6
max	26	23	21	9	4	2	6	5	8	14	16	20	93	90
min	7	5	4	0	0	0	0	0	0	0	0	4	30	33
<b>Very High</b>														
mean	2.5	2.8	2.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	1.0	9.0	9.0
max	11	8	6	1	0	0	0	1	3	1	3	6	23	23
min	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Extreme</b>														
mean	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	1.3
max	4	5	3	0	0	0	0	0	0	0	0	1	9	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	2.8	2.6	3.3	5.4	9.7	13.4	14.1	12.0	8.4	5.8	4.2	3.8	85.3	27.7
max	9	11	8	14	21	24	27	23	17	13	10	11	121	42
min	0	0	0	1	2	8	4	4	2	0	0	0	56	13
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0
max	0	0	0	1	0	0	2	1	0	0	0	1	2	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.6	0.8	1.2	2.2	4.1	5.0	5.1	3.6	1.9	1.4	1.1	0.9	28.0	8.2
max	3	5	7	9	10	12	11	8	5	7	4	4	60	28
min	0	0	0	0	0	0	0	0	0	0	0	0	16	4
<b>Very High</b>														
mean	2.2	1.7	2.5	3.7	5.2	4.2	4.2	4.6	3.9	2.9	2.4	2.1	39.6	17.4
max	7	7	7	9	11	10	8	10	9	8	7	5	50	30
min	0	0	0	0	1	0	0	0	1	0	0	0	22	8
<b>Extreme</b>														
mean	6.9	6.8	9.4	10.0	7.3	4.8	5.1	6.8	9.1	9.6	7.7	8.4	91.9	58.6
max	16	15	15	18	15	11	11	14	18	18	15	15	120	85
min	1	1	4	2	2	0	0	2	3	4	1	4	65	33
<b>Very Extreme</b>														
mean	18.5	16.4	14.6	8.6	4.7	2.6	2.4	3.9	6.7	11.3	14.5	15.8	120.2	100.2
max	29	27	26	17	12	7	10	11	20	19	23	27	162	142
min	8	5	5	1	0	0	0	0	0	2	5	6	56	50

Windroses for Auckland Aero (AKL)



Station Name: Cornwallis Depot Raws  
(CDT)

Period: 1993-11-18 - 2021-07-01

Length of record: 27 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	23.4	23.9	22.6	20.2	17.3	14.8	13.9	14.7	16.2	17.6	19.4	21.6	18.8	21.2
median	23.6	24.0	22.6	20.3	17.4	15.1	14.0	14.7	16.3	17.6	19.3	21.6	18.6	21.3
max	32.9	31.1	28.8	28.5	24.4	22.5	19.8	21.0	22.7	24.9	26.7	29.9	32.9	32.9
min	14.5	15.0	15.1	9.2	8.4	8.0	6.3	6.4	7.4	8.9	11.0	12.1	6.3	8.9
<b>Relative Humidity, %</b>														
mean	63.7	64.1	64.8	70.6	76.2	78.6	77.9	75.0	70.0	67.6	65.7	65.9	70.0	66.1
median	62	62	63	69	76	78	78	74	69	66	64	63	68	64
max	100	99	100	100	100	100	100	100	100	100	100	100	100	100
min	28.0	34.0	35.0	39.0	41.0	46.0	29.0	42.0	38.0	37.8	35.7	39.0	28.0	28.0
<b>Wind Speed, km/h</b>														
mean	13.6	12.5	12.0	11.2	11.3	11.3	11.9	12.6	14.0	15.1	15.0	14.0	12.9	13.3
median	13.3	12.0	11.4	10.4	10.0	10.4	10.3	11.5	13.0	14.7	14.4	13.7	12.3	13.0
max	44.6	35.6	41.4	36.7	38.9	42.6	47.3	45.2	51.7	42.5	44.1	39.4	51.7	44.6
min	1.2	0.7	1.4	1.3	0.0	0.2	0.8	0.0	2.7	2.2	1.2	2.3	0.0	0.7
<b>24-hr Rainfall, millimeters</b>														
mean	2.5	2.7	2.7	3.8	4.2	5.3	5.6	4.9	4.3	3.7	3.0	3.2	3.8	3.1
median	0.0	0.0	0.0	0.2	0.5	1.1	1.5	1.2	0.5	0.4	0.0	0.0	0.2	0.0
max	75.0	87.0	103.5	113.0	101.0	108.2	74.4	92.0	78.6	86.6	50.5	87.4	113.0	113.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	77.7	75.9	85.5	111.2	133.3	158.7	172.9	152.3	128.1	114.8	88.7	97.6	116.4	93.1
max	215.5	331.0	304.0	238.5	251.8	287.6	399.6	306.8	296.0	208.5	224.2	252.2	399.6	331.0
min	12.6	8.2	11.4	22.4	0.8	33.4	19.6	58.6	36.6	30.4	25.2	8.0	0.8	8.0
<b>Seasonal Rainfall, millimetres</b>														
mean													1396.7	653.7
max													1998	984
min													943.4	382.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	77.6	77.0	76.5	68.2	61.8	54.5	53.0	56.6	65.1	68.7	72.7	74.4	67.2	73.6
median	84.9	85.3	84.0	77.0	68.8	57.4	54.1	60.1	72.1	76.2	80.7	82.7	75.9	82.2
max	90.4	91.3	91.1	89.0	87.3	86.4	85.2	86.7	87.9	89.3	89.3	90.1	91.3	91.3
min	5.8	4.4	2.2	4.4	2.0	0.3	1.5	2.8	2.2	3.0	8.4	0.0	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	22.0	26.2	21.2	9.9	4.6	1.9	1.9	2.2	4.5	7.4	11.9	17.7	11.0	16.6
median	18.6	23.0	15.9	7.1	3.1	0.7	0.6	1.2	3.6	5.8	10.0	14.6	6.2	12.6
max	88.8	94.4	96.0	51.9	24.9	29.7	35.0	30.1	19.9	30.6	41.0	86.7	96.0	96.0
min	0.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.0	0.0
<b>Drought Code, DC</b>														
mean	214.8	283.6	286.1	224.1	132.6	50.8	26.0	18.8	16.5	30.6	73.9	142.0	125.5	179.3
median	216.0	299.1	307.5	186.3	102.3	13.4	6.8	7.5	11.3	24.1	65.3	132.4	73.7	148.6
max	592.8	616.0	620.3	637.3	476.4	373.1	301.1	330.6	85.1	123.2	261.0	391.7	637.3	637.3
min	7.4	6.2	5.2	3.4	1.2	1.3	1.0	0.9	1.2	2.6	4.7	6.0	0.9	2.6
<b>Initial Spread Index, ISI</b>														
mean	3.8	3.7	3.2	2.0	1.3	0.9	0.9	1.1	1.8	2.3	2.9	3.2	2.3	3.0
median	3.8	3.8	3.1	1.6	1.0	0.6	0.4	0.7	1.3	1.8	2.6	3.1	1.6	2.7
max	21.2	14.0	15.2	14.3	7.7	7.6	16.6	7.5	25.2	12.9	19.9	10.5	25.2	21.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	33.6	41.0	34.0	16.7	8.1	3.1	3.0	3.0	5.2	8.8	16.4	26.0	16.6	25.2
median	29.1	38.1	26.8	12.7	5.4	1.2	0.9	1.7	4.0	7.1	14.6	22.2	9.2	19.5
max	114.2	123.8	138.1	85.0	39.6	46.3	53.9	49.0	22.2	37.2	58.9	111.6	138.1	138.1
min	1.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.2	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	8.4	9.1	7.2	3.1	1.3	0.5	0.6	0.7	1.5	2.4	4.3	6.1	3.8	5.8
median	7.7	8.9	6.3	1.4	0.4	0.2	0.1	0.2	0.5	0.9	3.4	5.5	0.9	4.2
max	35.8	36.5	33.3	19.5	13.6	10.4	13.5	12.2	18.0	16.1	25.8	30.9	36.5	36.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.7	1.9	1.3	0.4	0.1	0.0	0.0	0.0	0.1	0.3	0.6	1.0	0.6	1.0
median	1.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.0	0.3
max	15.3	15.8	13.5	5.2	2.8	1.7	2.7	2.3	4.5	3.7	8.6	11.8	15.8	15.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	53.2	53.5	42.4	12.3	3.4	1.1	1.5	1.4	3.7	7.8	17.2	31.5	19.1	31.1
max	157.1	146.4	150.7	36.8	15.0	14.8	23.1	13.9	11.3	30.1	56.2	120.7	157.1	157.1
min	8.4	1.9	5.1	0.3	0.1	0.0	0.0	0.0	0.2	0.1	2.8	2.7	0.0	0.1
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													228.9	215.4
max													556.0	543.1
min													59.3	100.4



Station Name: Cornwallis Depot Raws  
(CDT)

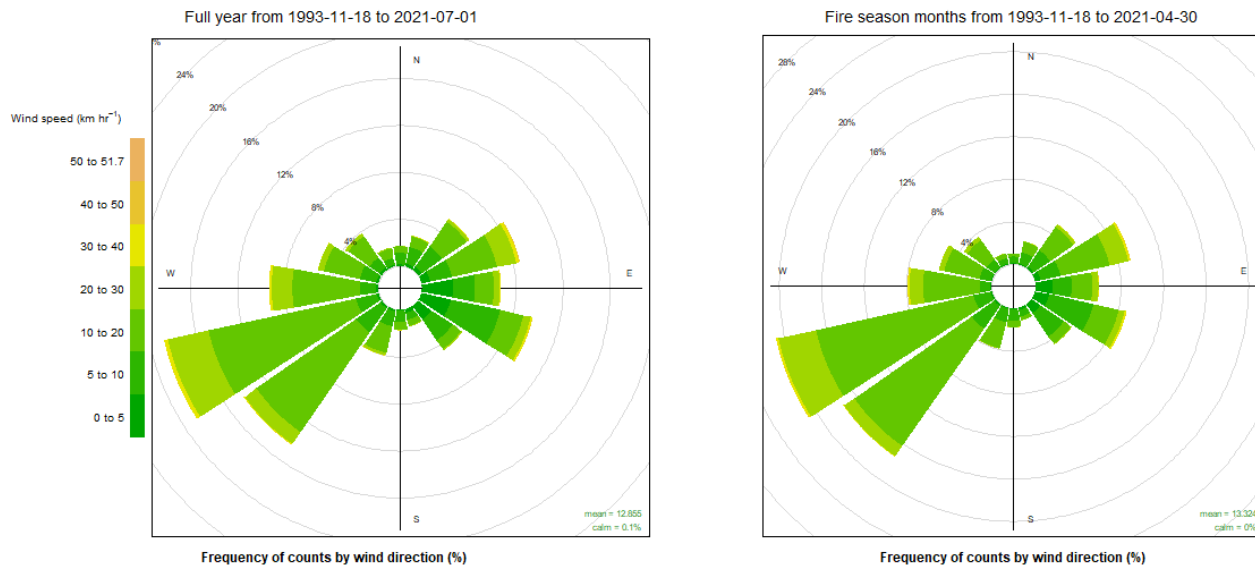
Period: 1993-11-18 - 2021-07-01

Length of record: 27 years

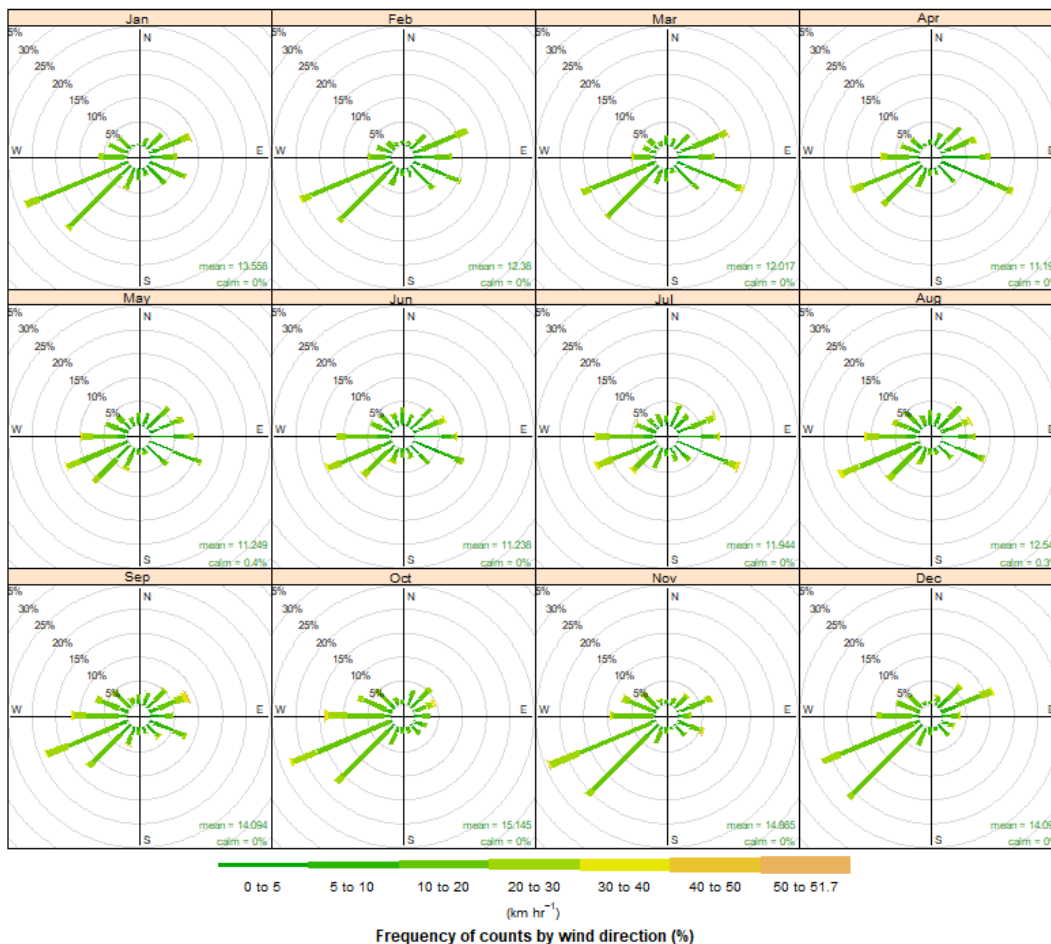
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	11.3	9.4	12.5	22.6	28.8	29.3	30.2	30.6	28.6	26.5	19.7	14.6	264.1	117.0
max	25	27	28	30	31	30	31	31	30	31	30	30	328	152
min	2	1	1	7	17	16	13	21	22	12	4	0	192	65
<b>Moderate</b>														
mean	14.9	13.6	15.7	7.1	2.2	0.7	0.8	0.4	1.4	4.5	10.0	15.0	86.2	80.6
max	23	23	26	23	14	14	18	10	8	19	23	26	125	110
min	6	1	3	0	0	0	0	0	0	0	0	1	36	56
<b>High</b>														
mean	4.1	4.7	2.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	13.1	12.9
max	16	17	14	3	0	0	0	0	0	0	3	12	39	43
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.6	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6	1.6
max	5	4	7	0	0	0	0	0	0	0	0	2	15	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	2	1	1	0	0	0	0	0	0	0	0	0	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Auckland (Mainland)														
Curing%	75	80	80	60	40	40	30	40	45	50	65	70		
<b>Low</b>														
mean	2.9	2.8	3.0	7.9	12.2	16.3	19.6	15.1	9.3	7.2	4.5	4.0	104.7	32.7
max	8	12	8	20	21	26	31	31	17	14	13	9	142	50
min	0	0	0	1	0	2	3	4	2	1	0	0	57	19
<b>Moderate</b>														
mean	15.6	12.4	16.7	22.0	18.8	13.7	11.3	15.9	20.3	23.0	23.6	21.2	214.6	134.4
max	22	20	25	29	31	28	28	27	27	30	28	29	247	158
min	5	2	6	10	10	4	0	0	13	17	14	12	171	101
<b>High</b>														
mean	12.3	12.7	11.1	0.1	0.0	0.0	0.1	0.0	0.4	0.8	1.9	5.8	45.3	44.6
max	23	25	23	1	0	0	3	0	5	4	6	14	74	79
min	3	1	2	0	0	0	0	0	0	0	0	0	10	20
<b>Very High</b>														
mean	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6
max	2	3	2	0	0	0	0	0	1	0	1	0	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	1	0	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.2	4.0	4.3	8.0	12.0	15.8	18.0	15.5	10.5	8.9	6.2	5.6	113.0	41.7
max	9	14	11	22	21	25	30	31	20	17	14	16	149	60
min	1	0	0	1	0	2	3	6	2	3	1	0	62	27
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	1	0	1	1	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.0	1.9	2.6	5.0	6.2	6.3	5.6	5.4	4.2	3.6	2.5	2.6	48.0	20.4
max	5	5	7	11	17	13	10	11	10	9	6	5	78	33
min	0	0	0	1	2	1	1	0	1	0	0	0	21	11
<b>Very High</b>														
mean	2.9	2.6	3.2	4.9	5.6	4.4	4.0	4.9	5.6	4.4	4.2	3.6	50.4	25.7
max	7	7	7	13	11	10	9	10	10	8	9	7	73	42
min	0	0	0	0	1	0	0	0	2	2	1	1	33	15
<b>Extreme</b>														
mean	8.2	7.7	10.9	8.8	6.3	2.8	2.6	4.1	7.0	9.2	9.6	9.1	86.3	63.4
max	17	15	18	18	15	12	13	14	13	17	14	18	109	87
min	2	3	4	1	0	0	0	0	1	0	4	3	45	33
<b>Very Extreme</b>														
mean	13.7	12.0	10.0	3.3	0.9	0.6	0.7	1.1	2.7	4.9	7.5	10.1	67.5	61.1

max	26	23	21	15	5	6	7	5	9	16	16	18	104	94
min	3	1	1	0	0	0	0	0	0	0	0	2	22	29

Windroses for Cornwallis Depot Raws (CDT)



CDT station from 1993-11-18 to 2021-07-01

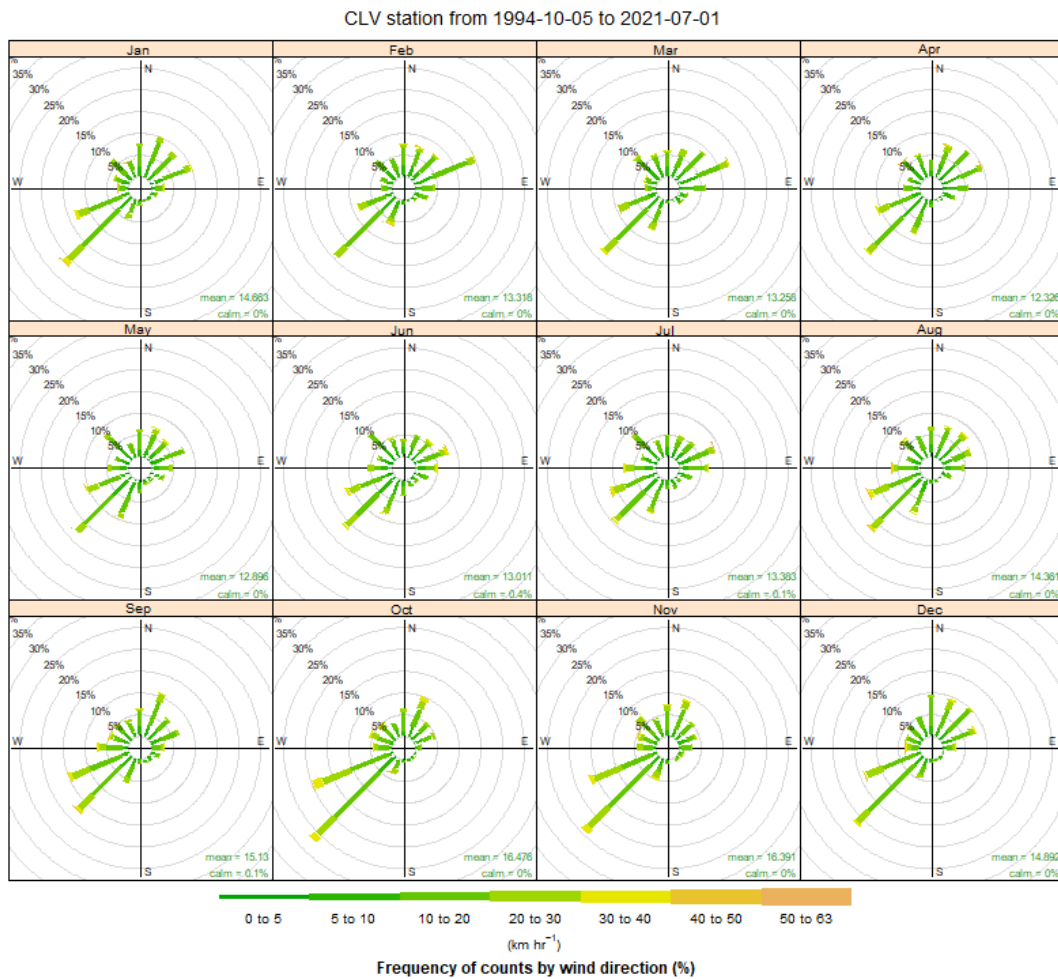
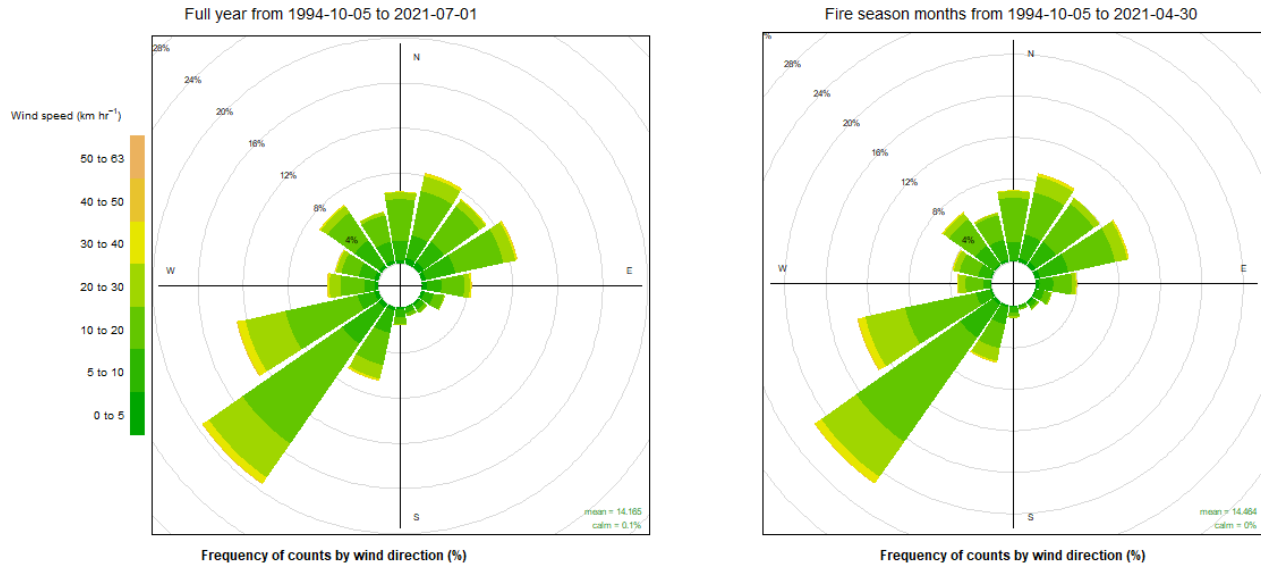


Station Name: Clevedon Coast Raws (CLV)      Period: 1994-10-05 - 2021-07-01      Length of record: 26 years													FIRE SEASON		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR		
<b>Temperature, degrees Celsius</b>															
mean	23.1	23.5	22.1	19.6	16.5	14.0	13.1	13.9	15.8	17.1	18.9	21.1	18.2	20.7	
median	23.2	23.6	22.4	19.7	16.7	14.2	13.2	14.1	15.9	17.0	18.9	21.3	18.0	20.9	
max	29.6	30.6	28.7	27.0	22.4	19.9	18.9	26.3	27.9	24.3	27.7	28.9	30.6	30.6	
min	11.2	7.7	10.9	9.0	4.5	5.2	3.4	5.0	5.5	7.0	9.6	8.2	3.4	7.0	
<b>Relative Humidity, %</b>															
mean	61.7	62.2	63.6	69.1	76.0	79.2	79.0	75.1	69.7	68.1	64.9	64.9	69.5	65.0	
median	59.3	59.0	61.2	68.0	75.0	78.0	79.7	73.0	68.0	66.0	62.0	62.0	67.4	62.0	
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
min	31.6	27.0	29.0	33.0	30.0	44.0	44.1	41.0	40.4	33.0	36.0	33.0	27.0	27.0	
<b>Wind Speed, km/h</b>															
mean	14.4	13.3	13.1	12.1	12.8	13.0	13.2	14.1	15.1	16.5	16.5	15.0	14.1	14.4	
median	13.2	12.4	11.8	10.8	11.7	11.5	11.6	13.1	13.9	15.1	15.4	14.2	13.0	13.3	
max	50.8	43.6	42.1	46.1	43.0	47.8	63.0	43.0	46.8	47.9	46.8	47.9	63.0	50.8	
min	2.0	2.5	1.4	1.0	1.6	0.0	0.0	0.1	0.0	2.2	2.3	1.5	0.0	1.0	
<b>24-hr Rainfall, millimetres</b>															
mean	1.9	2.4	2.9	3.3	4.0	4.7	4.5	3.9	3.4	3.0	2.4	2.9	3.3	2.7	
median	0.0	0.0	0.0	0.2	0.4	0.8	1.0	1.0	0.4	0.4	0.2	0.0	0.2	0.0	
max	120.6	68.0	208.0	135.4	168.4	158.4	80.6	51.8	76.2	45.8	50.5	61.0	208.0	208.0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Rainfall, millimetres</b>															
mean	59.1	68.6	91.5	95.8	125.7	140.6	138.9	119.8	100.8	93.4	75.6	92.4	100.2	82.3	
max	232.0	249.4	433.0	219.6	308.4	392.2	303.6	226.0	246.0	176.2	168.5	246.2	433.0	433.0	
min	4.6	5.4	15.2	26.6	33.0	62.0	47.0	53.6	38.6	35.0	30.2	21.4	4.6	4.6	
<b>Seasonal Rainfall, millimetres</b>															
mean													1202.1	571.0	
max													1738.8	1073.4	
min													798.8	252.8	
<b>Fine Fuel Moisture Code, FFMC</b>															
mean	79.4	78.3	76.7	70.4	61.5	54.3	53.5	57.8	66.2	69.4	73.9	74.2	68.0	74.6	
median	85.4	85.9	84.6	78.5	69.0	58.4	55.8	61.7	73.1	76.9	81.3	83.2	77.1	82.9	
max	91.0	91.3	91.3	90.0	88.3	85.5	86.1	86.9	88.0	89.2	89.4	90.0	91.3	91.3	
min	2.8	2.1	2.2	3.0	0.6	0.8	1.0	2.0	0.0	2.0	6.7	5.7	0.0	2.0	
<b>Duff Moisture Code, DMC</b>															
mean	26.3	33.8	24.0	12.9	4.5	1.3	1.3	1.9	4.8	7.5	14.1	18.4	12.5	19.4	
median	23.4	27.1	16.8	8.3	3.2	0.9	0.7	1.3	4.0	6.3	11.8	14.7	6.5	13.9	
max	96.3	146.9	116.2	59.5	28.5	10.1	9.9	11.6	22.0	28.9	49.1	86.6	146.9	146.9	
min	0.7	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	
<b>Drought Code, DC</b>															
mean	249.3	333.8	311.8	255.9	153.3	59.9	20.0	12.3	16.5	35.9	92.5	160.1	141.9	204.4	
median	243.1	334.3	310.8	237.3	127.8	21.1	7.7	8.4	12.5	33.5	84.1	152.1	86.9	173.3	
max	561.5	748.3	786.9	777.4	763.3	401.0	246.9	132.9	65.0	115.6	240.0	425.4	786.9	786.9	
min	7.4	5.5	5.3	3.9	0.5	0.7	0.5	0.6	1.4	2.3	4.4	5.3	0.5	2.3	
<b>Initial Spread Index, ISI</b>															
mean	4.4	4.2	3.7	2.3	1.5	1.0	1.0	1.3	2.0	2.6	3.4	3.5	2.6	3.4	
median	4.4	4.2	3.5	2.0	1.1	0.7	0.6	0.9	1.6	2.1	3.0	3.5	1.8	3.2	
max	31.0	17.7	20.5	10.3	14.2	12.9	11.5	9.3	10.6	14.3	19.9	18.9	31.0	31.0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Buildup Index, BUI</b>															
mean	40.5	51.9	38.5	21.5	7.9	2.2	1.9	2.4	5.5	9.4	19.5	27.6	19.0	29.7	
median	37.2	44.8	27.9	14.6	5.6	1.4	1.1	1.7	4.4	8.1	17.1	23.3	9.7	21.7	
max	134.8	195.2	166.1	96.7	52.2	18.2	11.8	15.2	23.1	33.2	58.4	111.8	195.2	195.2	
min	1.3	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	
<b>Fire Weather Index, FWI</b>															
mean	10.4	11.2	8.6	4.1	1.6	0.5	0.5	0.7	1.6	2.7	5.5	6.9	4.5	7.0	
median	10.0	11.0	6.8	2.2	0.5	0.2	0.2	0.3	0.6	1.6	4.7	6.0	1.4	5.3	
max	43.4	36.5	47.2	21.3	17.9	10.9	9.3	7.7	10.7	14.7	23.0	33.9	47.2	47.2	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Daily Severity Rating, DSR</b>															
mean	2.3	2.7	1.9	0.6	0.1	0.0	0.0	0.0	0.1	0.3	0.9	1.3	0.9	1.4	
median	1.6	1.9	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.6	0.1	0.5	
max	21.5	15.8	25.0	6.1	4.5	1.9	1.4	1.0	1.8	3.2	7.0	13.9	25.0	25.0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Severity Rating, MSR</b>															
mean	74.3	77.9	59.2	19.0	4.5	0.7	0.7	1.2	3.7	8.8	24.0	34.3	25.7	42.5	
max	170.4	254.6	194.2	66.7	19.0	3.5	4.9	3.4	17.0	18.2	67.7	123.1	254.6	254.6	
min	10.4	11.0	8.5	0.9	0.0	0.1	0.0	0.0	0.2	0.6	4.0	0.9	0.0	0.6	
<b>Cumulative Daily Severity Rating, CDSR</b>															
mean													308.1	295.0	
max													656.8	699.5	
min													103.1	77.2	

Station Name: Clevedon Coast Raws (CLV)      Period: 1994-10-05 - 2021-07-01      Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	8.5	8.6	11.7	19.6	28.0	30.0	30.9	31.0	28.7	25.5	17.0	13.6	253.0	104.5
max	24	24	23	30	31	30	31	31	30	31	29	31	299	154
min	0	0	1	3	18	29	29	30	18	17	3	1	196	55
<b>Moderate</b>														
mean	15.5	11.1	13.7	9.3	3.0	0.0	0.1	0.0	1.3	5.5	12.2	15.6	87.3	83.3
max	25	20	22	26	12	1	2	1	12	14	23	22	121	110
min	5	3	3	0	0	0	0	0	0	0	1	0	60	58
<b>High</b>														
mean	5.5	6.8	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	20.1	19.8
max	20	18	19	9	1	0	0	0	0	0	5	17	47	54
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	1.2	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	3.5
max	5	11	7	0	0	0	0	0	0	0	0	1	17	17
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.4	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
max	4	4	2	0	0	0	0	0	0	0	0	1	6	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	1	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Auckland (Coastal)														
Curing%	80	90	80	60	50	40	30	45	55	60	70	75		
<b>Low</b>														
mean	2.2	2.4	2.9	7.0	11.1	15.0	18.1	13.8	7.7	6.7	3.9	4.4	95.2	29.3
max	6	8	7	15	24	23	28	26	17	12	13	16	121	53
min	0	0	0	1	4	10	6	7	3	2	0	0	67	5
<b>Moderate</b>														
mean	11.9	8.6	14.7	22.6	19.7	14.9	12.9	17.0	21.7	23.8	19.9	16.4	204.1	118.2
max	20	14	23	28	27	20	25	24	26	29	26	24	232	145
min	4	3	4	15	7	7	3	5	13	18	13	9	173	90
<b>High</b>														
mean	15.8	15.5	12.9	0.4	0.2	0.1	0.0	0.1	0.7	0.5	6.0	10.0	62.2	61.1
max	23	23	25	1	2	1	1	2	3	3	16	22	81	86
min	6	5	1	0	0	0	0	0	0	0	1	0	36	32
<b>Very High</b>														
mean	1.0	1.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	3.4	3.3
max	6	6	2	0	0	0	0	0	0	0	2	1	17	14
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
max	2	2	1	0	0	0	0	0	0	0	0	0	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.3	3.4	4.5	7.2	12.3	15.4	17.1	14.8	10.3	8.0	5.7	6.1	108.2	38.1
max	7	10	10	15	25	24	27	26	20	16	15	19	132	64
min	0	0	0	1	4	10	6	9	4	3	0	0	77	11
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.5	2.1	1.7	3.5	4.3	4.8	5.3	4.8	3.4	2.5	2.0	1.9	37.7	15.5
max	5	4	4	9	11	9	9	9	10	7	5	5	49	29
min	0	0	0	0	0	1	1	1	1	0	0	0	26	8
<b>Very High</b>														
mean	3.0	2.2	3.8	4.5	5.8	5.5	4.5	4.5	4.5	5.0	3.8	3.2	50.3	25.1
max	7	5	10	10	12	9	11	8	9	11	9	6	67	38
min	0	0	0	1	2	2	1	0	0	2	1	1	28	17
<b>Extreme</b>														
mean	7.0	6.3	8.5	10.0	6.8	3.8	3.6	5.5	8.5	9.5	8.3	8.3	86.2	58.2
max	11	16	15	16	15	9	11	13	15	15	14	14	102	80
min	2	1	2	6	0	0	0	0	3	2	5	3	64	40
<b>Very Extreme</b>														
mean	16.2	14.2	12.5	4.8	1.7	0.4	0.6	1.4	3.3	6.1	10.2	11.5	82.9	75.4
max	25	26	27	18	6	3	4	5	15	12	19	22	115	108
min	6	5	1	0	0	0	0	0	0	0	2	1	54	33

### Windroses for Clevedon Coast Raws (CLV)



Station Name: Great Barrier Island Raws  
(GBI)

Period: 1994-07-06 - 2021-07-01

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.8	23.2	21.9	19.9	17.6	15.2	14.4	14.8	16.2	17.9	19.4	21.3	18.7	20.9
median	22.9	23.3	22.0	20.0	17.7	15.4	14.6	14.9	16.2	17.9	19.5	21.4	18.6	21.1
max	30.3	30.0	27.0	25.9	24.0	20.1	19.2	20.0	27.2	28.4	26.2	28.7	30.3	30.3
min	16.0	15.2	14.6	12.9	10.2	6.3	7.6	6.9	9.1	9.1	11.1	11.9	6.3	9.1
<b>Relative Humidity, %</b>														
mean	64.7	66.2	67.1	69.0	71.2	73.5	73.2	71.3	68.6	65.3	63.7	65.5	68.3	65.9
median	62.3	64.0	65.1	67.0	70.0	72.0	71.2	69.9	66.9	63.0	61.0	63.2	67.0	64.0
max	97	99	97	99	98	100	100	99	98	99	100	100	100	100
min	33.0	38.6	40.9	36.5	39.0	39.0	35.6	32.0	25.8	35.6	32.9	25.8	25.8	25.8
<b>Wind Speed, km/h</b>														
mean	15.5	14.7	14.6	13.6	13.4	14.2	14.3	14.5	15.0	16.3	15.9	15.5	14.8	15.2
median	14.7	13.7	13.5	13.0	12.7	13.0	13.4	13.9	14.6	15.2	15.3	14.8	14.0	14.4
max	38.2	67.0	45.7	38.2	38.9	52.3	55.5	46.1	50.8	48.6	64.7	53.3	67.0	67.0
min	1.2	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.4	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.9	3.5	3.5	4.2	4.3	5.5	5.7	4.9	4.4	2.9	3.2	3.6	4.1	3.4
median	0.0	0.0	0.0	0.1	0.4	0.8	0.7	0.5	0.3	0.0	0.0	0.0	0.1	0.0
max	150.1	115.9	162.9	164.8	101.7	98.5	97.6	100.5	60.2	72.5	137.3	93.9	164.8	164.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	91.3	100.1	109.8	123.9	136.9	163.7	178.2	152.0	129.7	90.1	99.4	114.2	124.1	104.1
max	356.5	329.0	261.0	351.9	311.4	313.5	445.1	286.4	250.0	161.6	248.1	292.7	445.1	356.5
min	5.5	8.0	14.7	35.5	42.6	36.1	22.4	11.9	53.8	20.0	18.6	30.5	5.5	5.5
<b>Seasonal Rainfall, millimetres</b>														
mean													1489.2	721.2
max													2122.2	1133.3
min													889.6	351.7
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	78.2	76.4	74.9	71.0	67.5	61.1	60.8	63.9	66.0	73.3	75.1	74.7	70.2	74.8
median	85.2	84.8	83.2	78.7	75.5	66.4	65.4	70.1	72.7	81.3	82.5	83.6	79.0	83.2
max	90.9	89.8	89.3	90.0	87.6	85.9	86.5	88.9	90.4	89.0	90.3	90.0	90.9	90.9
min	10.3	5.4	9.1	4.8	5.7	8.7	1.7	6.8	8.1	1.9	8.4	2.4	1.7	1.9
<b>Duff Moisture Code, DMC</b>														
mean	23.8	24.7	18.4	10.6	5.6	2.4	2.1	3.6	5.0	9.7	14.4	17.8	11.5	17.0
median	21.1	19.4	14.7	6.9	4.3	1.5	1.3	2.1	3.8	8.8	13.1	16.0	7.1	13.4
max	79.3	97.9	71.8	53.1	22.3	13.3	15.0	26.3	30.3	29.5	46.6	65.0	97.9	97.9
min	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0
<b>Drought Code, DC</b>														
mean	194.9	230.2	224.0	180.3	104.8	34.1	15.8	19.2	18.8	37.8	85.0	146.6	107.0	156.3
median	176.1	222.4	191.4	145.7	75.3	13.3	7.2	9.2	12.0	34.1	84.1	142.2	56.0	119.6
max	450.5	614.3	648.0	604.9	532.1	302.3	134.6	213.0	221.4	133.9	239.2	369.1	648.0	648.0
min	6.8	6.2	4.4	3.5	1.7	1.2	1.1	1.1	1.5	2.7	4.4	6.1	1.1	2.7
<b>Initial Spread Index, ISI</b>														
mean	4.4	3.9	3.3	2.4	2.0	1.5	1.4	1.7	2.1	3.2	3.5	3.7	2.8	3.5
median	4.2	4.0	3.1	2.0	1.6	1.1	1.1	1.3	1.6	2.7	3.1	3.7	2.2	3.2
max	21.0	22.4	14.2	12.2	9.3	11.7	8.6	9.0	19.6	18.6	34.7	15.8	34.7	34.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	35.3	37.5	29.3	16.9	9.0	3.5	2.9	4.7	5.7	11.6	19.5	26.4	16.8	25.1
median	31.7	31.9	23.5	11.1	6.7	2.2	1.7	2.6	4.4	10.3	18.5	24.1	10.1	19.6
max	110.2	139.2	112.0	86.2	40.4	21.8	21.8	40.2	45.2	35.8	60.7	86.3	139.2	139.2
min	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	9.6	9.2	6.8	3.7	2.1	1.0	0.8	1.2	1.7	3.8	5.7	7.1	4.4	6.5
median	9.1	8.3	5.6	2.3	0.8	0.3	0.3	0.5	0.6	2.7	4.7	6.6	1.9	5.1
max	50.1	37.7	38.4	21.5	14.3	13.2	9.2	16.0	18.3	22.3	44.9	29.0	50.1	50.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.1	2.0	1.3	0.5	0.2	0.1	0.0	0.1	0.2	0.5	0.9	1.3	0.8	1.2
median	1.4	1.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.8	0.1	0.5
max	27.7	16.7	17.3	6.2	3.0	2.6	1.4	3.7	4.7	6.6	22.8	10.5	27.7	27.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	66.3	57.6	40.2	15.6	6.2	2.1	1.4	3.1	4.6	14.9	26.9	37.8	23.1	37.0
max	183.2	234.6	146.3	57.3	17.0	11.8	8.8	28.7	16.9	43.6	69.1	91.9	234.6	234.6
min	13.2	6.4	2.6	0.7	0.2	0.1	0.0	0.1	0.4	2.1	1.8	5.4	0.0	0.7
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													276.7	258.9
max													616.0	611.2
min													69.7	111.5

Station Name: Great Barrier Island Raws  
(GBI)

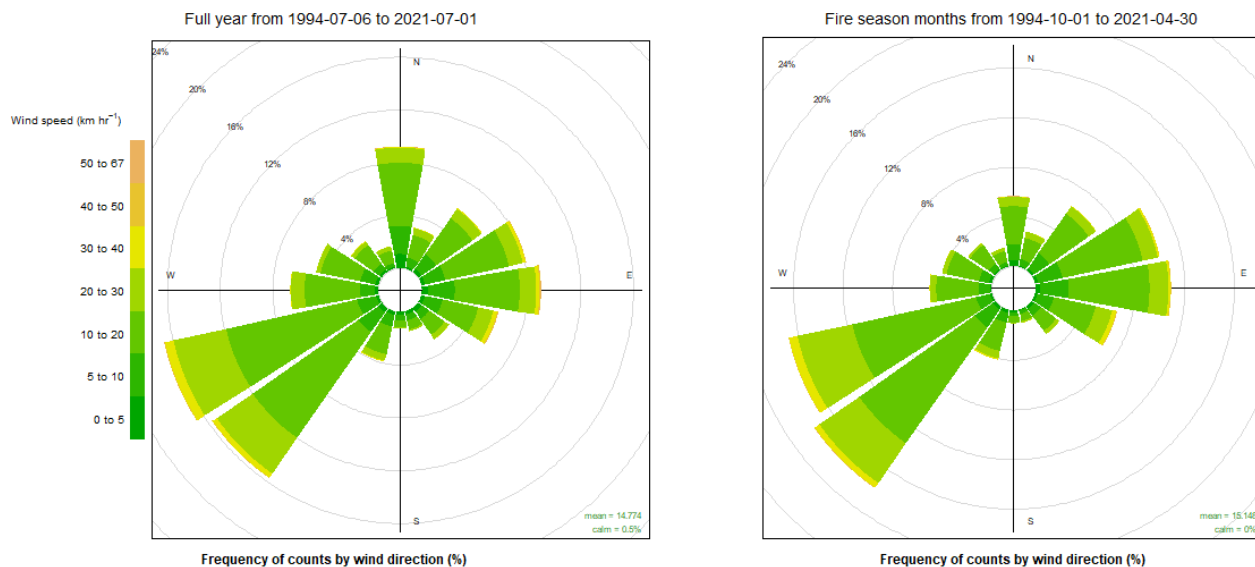
Period: 1994-07-06 - 2021-07-01

Length of record: 26 years

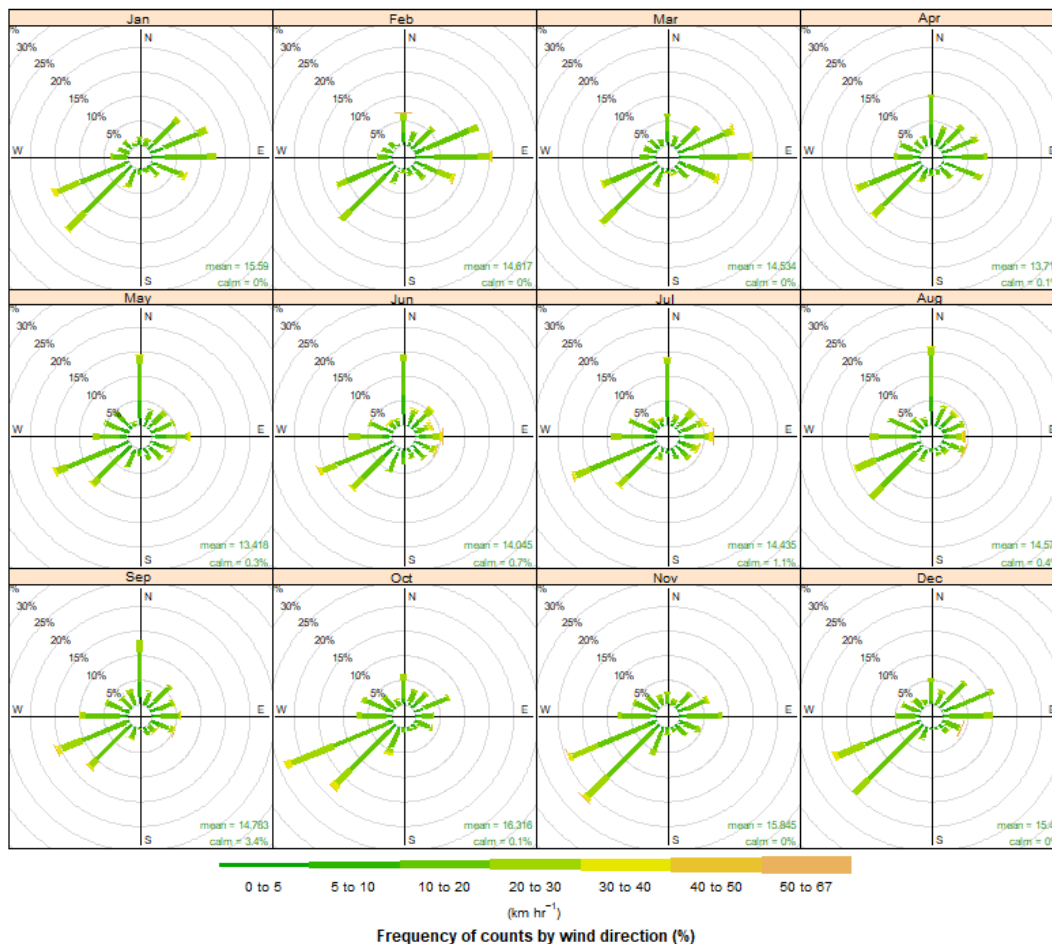
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	9.6	10.4	14.3	21.4	26.7	29.3	30.7	29.4	28.3	22.3	15.9	13.8	252.2	107.6
max	21	25	31	30	31	30	31	31	30	31	30	29	325	158
min	2	0	1	3	14	21	25	5	22	9	7	3	202	63
<b>Moderate</b>														
mean	15.6	12.5	13.7	7.9	4.3	0.7	0.3	1.6	1.7	8.7	13.1	14.8	94.7	86.3
max	27	24	24	21	17	9	6	25	8	21	22	26	140	115
min	4	3	0	0	0	0	0	0	0	0	0	2	40	46
<b>High</b>														
mean	4.6	4.1	2.5	0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.8	2.3	15.1	15.1
max	20	14	15	6	0	0	0	1	0	1	7	9	37	42
min	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Very High</b>														
mean	0.8	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	2.4	2.4
max	5	9	4	0	0	0	0	0	0	0	1	2	15	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
max	5	4	3	0	0	0	0	0	0	0	1	0	10	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	1	0	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Auckland (Coastal)														
Curing%	80	90	80	60	50	40	30	45	55	60	70	75		
<b>Low</b>														
mean	2.7	3.0	3.4	6.0	7.8	11.0	13.6	9.5	8.3	5.0	3.3	4.1	77.7	27.8
max	8	13	7	13	18	19	25	19	17	10	11	12	109	44
min	0	0	0	1	1	3	3	0	3	0	0	1	41	11
<b>Moderate</b>														
mean	11.2	8.9	15.4	23.7	22.9	18.9	17.4	21.3	20.9	24.7	19.4	14.9	219.6	118.1
max	23	17	24	29	29	26	28	30	26	28	27	23	250	150
min	3	2	5	17	13	11	6	12	13	21	12	6	187	86
<b>High</b>														
mean	15.8	14.9	11.8	0.3	0.3	0.2	0.0	0.2	0.8	1.3	7.2	11.8	64.3	62.8
max	26	21	24	2	1	2	0	1	5	6	16	22	94	92
min	5	3	0	0	0	0	0	0	0	0	0	3	26	30
<b>Very High</b>														
mean	1.2	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	3.3	3.1
max	8	9	3	0	0	0	0	0	1	0	1	2	22	20
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
max	2	1	0	0	0	0	0	0	0	0	1	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.1	4.3	5.2	6.3	8.8	11.9	13.2	11.2	10.3	5.8	4.9	5.5	91.3	36.2
max	10	15	11	14	19	22	23	19	16	11	14	15	125	57
min	0	0	0	1	1	4	1	0	4	0	0	1	52	20
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	1	0	0	0	1	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.2	1.6	2.2	3.5	3.7	4.7	4.0	3.7	3.2	2.1	2.3	2.5	34.6	15.5
max	4	5	6	9	8	10	8	8	8	6	7	6	54	29
min	0	0	0	0	0	0	1	1	0	0	0	0	14	3
<b>Very High</b>														
mean	2.7	2.4	3.7	5.2	5.9	5.3	5.5	5.8	4.3	4.6	3.8	2.9	52.2	24.9
max	8	5	6	9	10	11	10	12	9	8	8	6	68	37
min	0	0	0	2	2	1	2	2	1	1	2	0	36	15
<b>Extreme</b>														
mean	7.3	6.6	9.1	9.4	9.6	6.4	6.8	8.3	8.1	9.3	8.3	7.3	96.6	57.8
max	18	13	19	14	17	15	22	21	15	18	16	15	145	88
min	1	2	5	2	4	0	0	1	3	2	1	3	66	37
<b>Very Extreme</b>														
mean	15.7	13.3	10.8	5.7	3.0	1.7	1.4	2.0	4.1	9.2	10.7	12.9	90.4	77.9

max	28	25	25	13	7	9	7	9	17	21	21	24	136	124
min	2	1	0	0	0	0	0	0	0	0	1	3	39	33

### Windroses for Great Barrier Island Raws (GBI)



### GBI station from 1994-07-06 to 2021-07-01



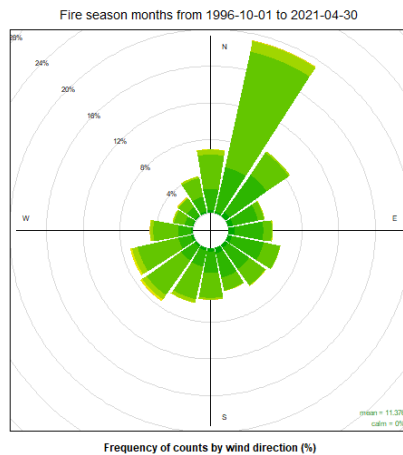
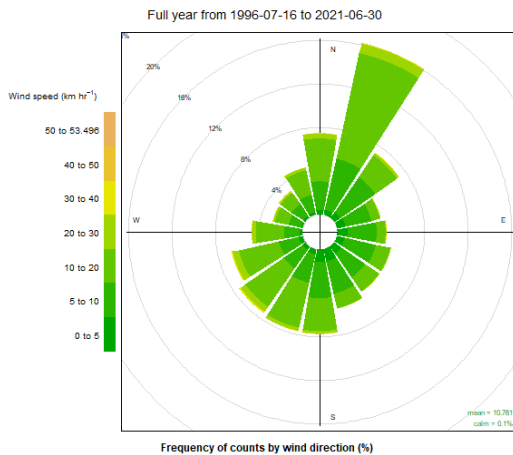
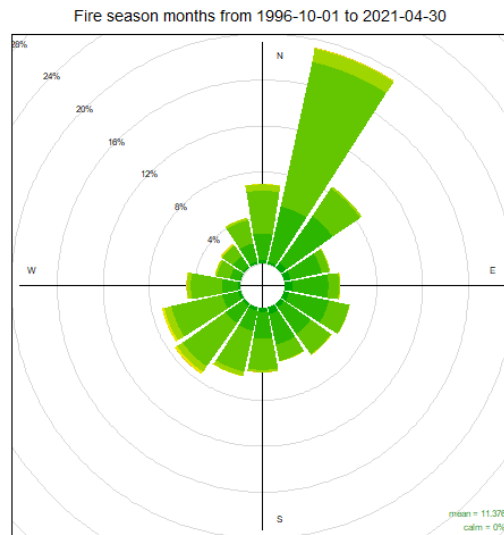
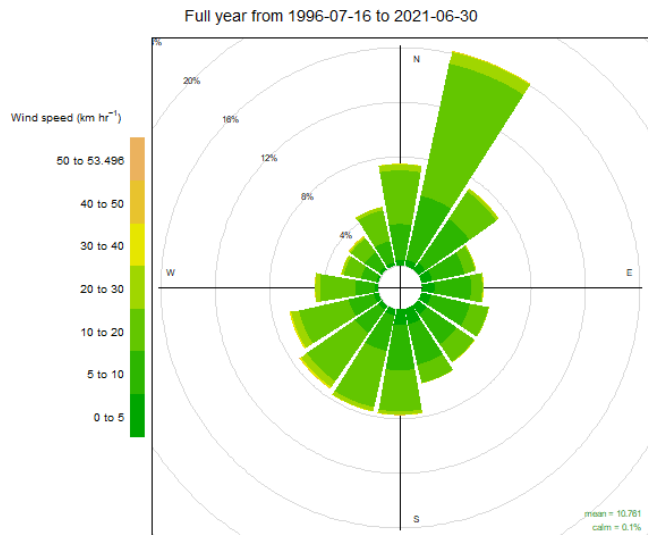


Station Name: Waharau Raws (Waharau)      Period: 1996-07-16 - 2021-07-01      Length of record: 24 years													FIRE SEASON		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR		
<b>Temperature, degrees Celsius</b>															
mean	23.4	23.5	22.0	19.1	16.3	13.8	12.9	13.7	15.7	17.5	19.5	21.5	18.2	20.9	
median	23.7	23.6	22.1	19.2	16.5	14.1	13.1	13.9	15.7	17.6	19.5	21.7	18.1	21.1	
max	30.2	29.4	27.2	25.3	22.0	19.3	18.8	19.5	25.4	26.9	29.4	27.2	30.2	30.2	
min	12.0	15.5	14.8	11.4	6.6	5.5	6.0	4.9	7.6	7.3	11.0	7.7	4.9	7.3	
<b>Relative Humidity, %</b>															
mean	63.5	64.1	65.6	70.1	76.2	78.6	77.8	74.4	70.1	66.8	64.2	65.8	69.8	65.7	
median	62.0	62.8	64.5	69.0	76.0	79.0	78.0	74.0	69.0	65.0	62.8	64.0	68.9	64.0	
max	100	100	100	100	100	100	100	100	100	100	97	100	100	100	
min	35.0	40.0	38.0	44.0	37.0	47.1	51.0	43.6	32.0	36.0	38.0	39.0	32.0	35.0	
<b>Wind Speed, km/h</b>															
mean	11.9	10.9	11.1	10.7	9.4	9.2	9.9	10.5	11.6	13.2	12.2	11.6	11.0	11.7	
median	11.2	10.1	9.7	9.7	8.3	8.6	9.0	9.4	10.9	12.2	11.5	11.2	10.1	10.8	
max	44.4	41.1	43.0	40.6	33.9	33.1	34.9	39.7	37.7	53.5	42.5	37.8	53.5	53.5	
min	2.5	1.1	1.8	1.4	0.0	1.1	0.7	0.0	0.0	1.1	1.4	0.0	0.0	0.0	
<b>24-hr Rainfall, millimetres</b>															
mean	2.0	2.5	2.6	3.0	3.3	3.9	4.3	4.4	3.8	3.5	2.9	3.4	3.3	2.9	
median	0.0	0.0	0.0	0.0	0.2	0.4	0.5	0.6	0.4	0.0	0.0	0.0	0.0	0.0	
max	146.6	141.0	125.0	141.0	62.1	75.0	94.0	51.6	65.8	70.5	61.5	74.5	146.6	146.6	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Rainfall, millimetres</b>															
mean	63.6	71.0	81.0	90.8	101.6	115.3	133.1	134.1	114.9	109.0	88.6	98.9	100.2	86.1	
max	318.8	263.0	330.0	345.0	227.5	289.5	265.0	257.6	218.1	202.0	207.2	235.0	345.0	345.0	
min	7.0	6.6	0.0	0.0	0.4	0.4	0.2	1.4	12.4	43.5	33.6	17.5	0.0	0.0	
<b>Seasonal Rainfall, millimetres</b>															
mean													1201.9	608.1	
max													2038	1202	
min													578.3	331.6	
<b>Fine Fuel Moisture Code, FFMC</b>															
mean	79.5	78.8	77.5	72.3	64.8	60.7	58.0	58.5	65.2	69.0	73.7	74.0	69.3	74.9	
median	85.4	85.5	84.7	80.5	73.6	68.7	63.3	62.3	72.7	76.2	81.6	83.4	78.4	83.2	
max	90.8	89.9	89.6	88.5	86.1	84.1	83.8	85.6	89.5	88.1	88.8	89.0	90.8	90.8	
min	5.9	2.6	2.3	5.5	3.3	1.3	1.2	2.0	5.8	5.5	17.0	2.2	1.2	2.2	
<b>Duff Moisture Code, DMC</b>															
mean	24.9	34.1	27.8	20.8	10.3	8.5	6.1	4.2	6.6	7.4	13.5	16.5	15.0	20.6	
median	22.6	33.0	20.7	9.6	4.2	1.6	1.3	1.4	3.9	5.8	11.1	14.6	7.7	14.3	
max	79.4	104.3	111.7	137.4	140.0	93.9	72.1	68.9	65.0	32.6	60.2	56.7	140.0	137.4	
min	1.5	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.0	0.0	
<b>Drought Code, DC</b>															
mean	223.7	320.2	324.0	293.2	201.4	135.1	84.9	53.5	42.4	43.9	84.0	133.5	160.8	201.8	
median	213.9	319.6	318.8	264.2	130.5	37.5	10.6	7.1	12.8	26.0	72.3	124.1	91.2	154.2	
max	666.6	732.4	826.0	871.1	881.3	695.2	677.0	660.9	392.2	411.1	333.3	489.6	881.3	871.1	
min	6.8	6.7	4.7	2.8	0.9	1.3	1.0	0.6	1.1	2.9	4.4	6.8	0.6	2.8	
<b>Initial Spread Index, ISI</b>															
mean	3.7	3.6	3.2	2.2	1.4	1.0	0.9	1.0	1.6	2.2	2.7	2.8	2.2	2.9	
median	3.7	3.7	3.1	2.0	1.2	0.9	0.7	0.8	1.2	1.7	2.4	2.9	1.7	2.8	
max	11.5	17.5	22.3	14.5	6.8	5.2	6.2	8.0	10.5	13.7	14.8	10.4	22.3	22.3	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Buildup Index, BUI</b>															
mean	37.8	52.4	44.1	32.8	16.9	13.7	9.5	6.3	8.4	9.1	18.2	24.3	22.6	31.0	
median	34.4	52.1	33.7	16.5	7.4	2.5	1.8	1.8	4.5	7.3	15.6	22.1	11.4	21.7	
max	110.8	146.6	166.9	197.1	200.4	137.1	113.8	109.1	91.7	43.2	75.7	85.9	200.4	197.1	
min	2.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.0	0.0	0.0	
<b>Fire Weather Index, FWI</b>															
mean	8.6	10.2	8.0	4.8	2.2	1.4	1.1	0.8	1.7	2.3	4.3	5.4	4.2	6.2	
median	8.4	10.2	7.1	2.6	0.6	0.3	0.2	0.2	0.5	0.9	3.1	4.8	1.4	4.6	
max	33.9	39.5	32.7	25.8	26.1	22.7	21.3	14.4	19.3	12.8	32.5	20.6	39.5	39.5	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Daily Severity Rating, DSR</b>															
mean	1.6	2.2	1.6	0.8	0.3	0.2	0.1	0.1	0.2	0.2	0.6	0.8	0.7	1.1	
median	1.2	1.7	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.1	0.4	
max	13.9	18.2	13.0	8.6	8.8	6.8	6.1	3.0	5.1	2.5	12.9	5.7	18.2	18.2	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Severity Rating, MSR</b>															
mean	50.6	62.5	50.0	25.1	9.3	4.9	4.2	2.4	5.7	7.1	18.1	25.7	22.1	34.2	
max	115.3	163.3	143.3	136.5	95.6	42.0	68.8	25.7	64.3	19.5	75.7	50.4	163.3	163.3	
min	10.5	5.0	4.4	0.6	0.1	0.1	0.0	0.0	0.0	1.4	2.3	1.0	0.0	0.6	
<b>Cumulative Daily Severity Rating, CDSR</b>															
mean													265.7	236.3	
max													574.7	506.6	
min													85.9	76.2	

Station Name: Waharau Raws (Waharau)      Period: 1996-07-16 - 2021-07-01      Length of record: 24 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	9.2	8.3	12.2	18.7	26.8	26.6	28.6	29.4	28.0	26.8	18.9	15.3	248.9	110.5
max	21	26	30	30	31	30	31	31	30	31	29	31	303	151
min	2	1	0	0	0	0	0	5	5	20	2	6	115	73
<b>Moderate</b>														
mean	17.7	13.2	14.6	9.9	3.9	3.3	2.2	1.6	1.8	4.2	10.6	14.9	97.9	84.2
max	27	23	28	27	29	29	27	26	19	11	24	23	209	115
min	10	3	1	0	0	0	0	0	0	0	1	0	61	54
<b>High</b>														
mean	3.9	6.0	3.7	1.4	0.2	0.1	0.2	0.0	0.2	0.0	0.5	0.8	16.9	16.1
max	16	16	18	17	5	1	4	0	6	0	4	4	59	59
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.2	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.2
max	1	4	7	1	1	0	0	0	0	0	0	0	10	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	1	2	0	0	0	0	0	0	0	0	1	0	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Auckland (Mainland)														
Curing%	75	80	80	60	40	40	30	40	45	50	65	70		
<b>Low</b>														
mean	2.0	2.2	2.5	6.2	11.0	12.3	16.8	14.5	9.8	7.6	4.7	4.7	94.4	30.4
max	6	8	7	12	23	22	31	23	23	14	12	13	140	46
min	0	0	0	0	0	0	0	0	3	2	1	0	23	15
<b>Moderate</b>														
mean	18.1	13.9	20.0	23.5	20.0	17.7	14.2	16.5	19.9	22.8	24.1	22.1	232.7	144.0
max	24	22	27	30	31	30	31	31	27	29	29	29	301	161
min	11	8	11	18	8	8	0	8	7	15	17	17	202	113
<b>High</b>														
mean	10.8	12.0	8.0	0.3	0.0	0.0	0.0	0.0	0.3	0.7	1.2	4.2	37.5	37.2
max	19	19	17	5	0	0	0	0	6	10	9	9	73	80
min	3	2	0	0	0	0	0	0	0	0	0	0	13	11
<b>Very High</b>														
mean	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
max	1	2	6	0	0	0	0	0	0	0	0	0	7	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	1	1	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	2.8	3.3	4.0	6.2	10.5	11.7	14.2	14.0	10.2	8.9	5.8	5.9	97.3	37.4
max	7	10	9	13	22	22	31	23	22	16	13	17	140	61
min	0	0	0	0	0	0	0	0	2	4	1	1	34	21
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.2	2.2	2.8	4.0	6.0	7.2	6.9	6.2	5.1	3.9	3.7	3.0	53.3	22.3
max	7	7	7	9	11	13	12	10	9	7	9	6	80	38
min	0	0	0	0	0	0	0	2	0	1	0	1	16	8
<b>Very High</b>														
mean	3.3	2.5	3.1	5.1	6.2	6.5	5.7	6.2	5.3	4.1	3.6	3.5	54.9	25.1
max	9	6	9	10	16	16	18	16	10	9	8	6	91	38
min	0	0	0	1	1	2	0	1	2	0	0	1	40	16
<b>Extreme</b>														
mean	10.1	9.7	13.6	12.1	7.6	4.5	4.0	4.4	7.3	9.3	10.8	10.7	104.1	75.8
max	17	17	24	25	26	21	21	13	17	19	15	17	153	92
min	5	4	5	2	0	0	0	0	0	3	4	5	69	54
<b>Very Extreme</b>														
mean	12.5	10.5	7.5	2.6	0.8	0.2	0.2	0.3	2.1	4.8	6.2	7.9	55.6	51.7
max	21	18	19	11	3	1	4	3	19	17	19	18	110	105
min	4	2	0	0	0	0	0	0	0	0	0	0	25	22

### Windroses for Waharau Raws (Waharau)



Station Name: Woodhill Raws (WDH)

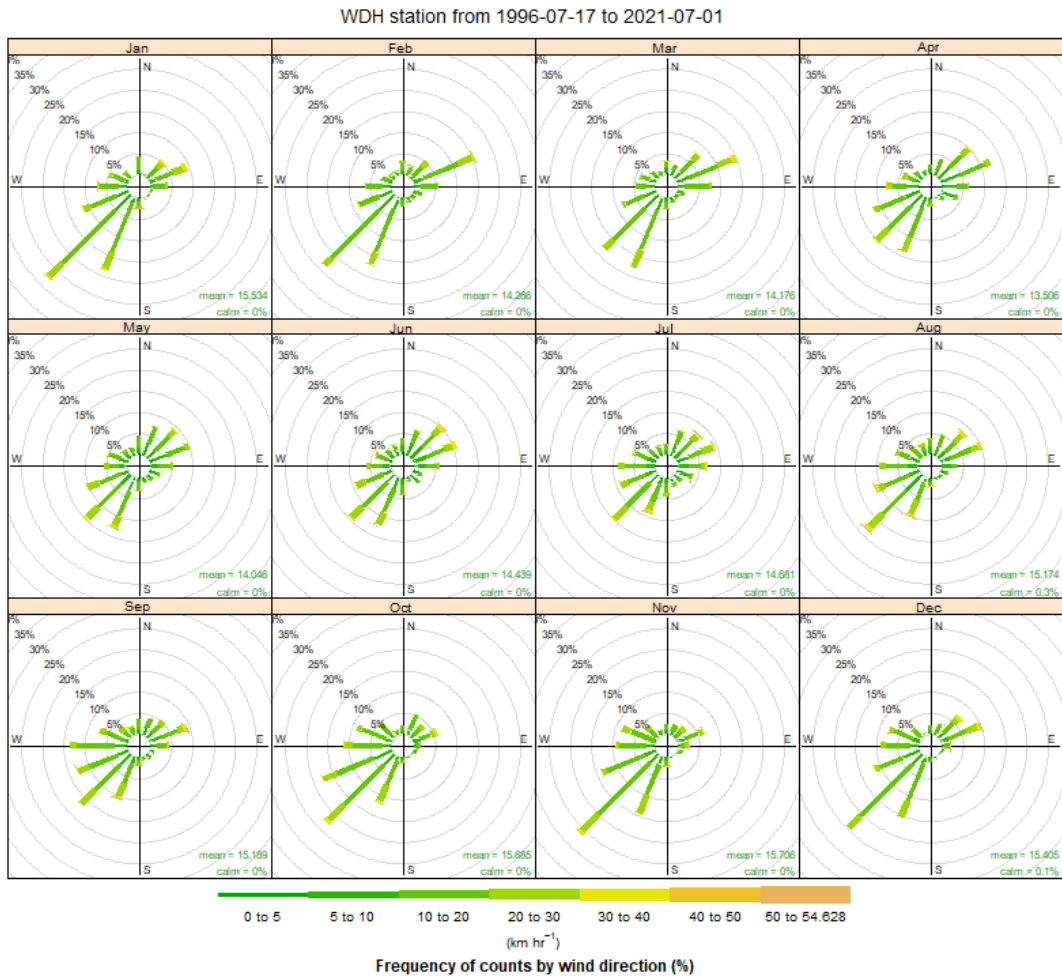
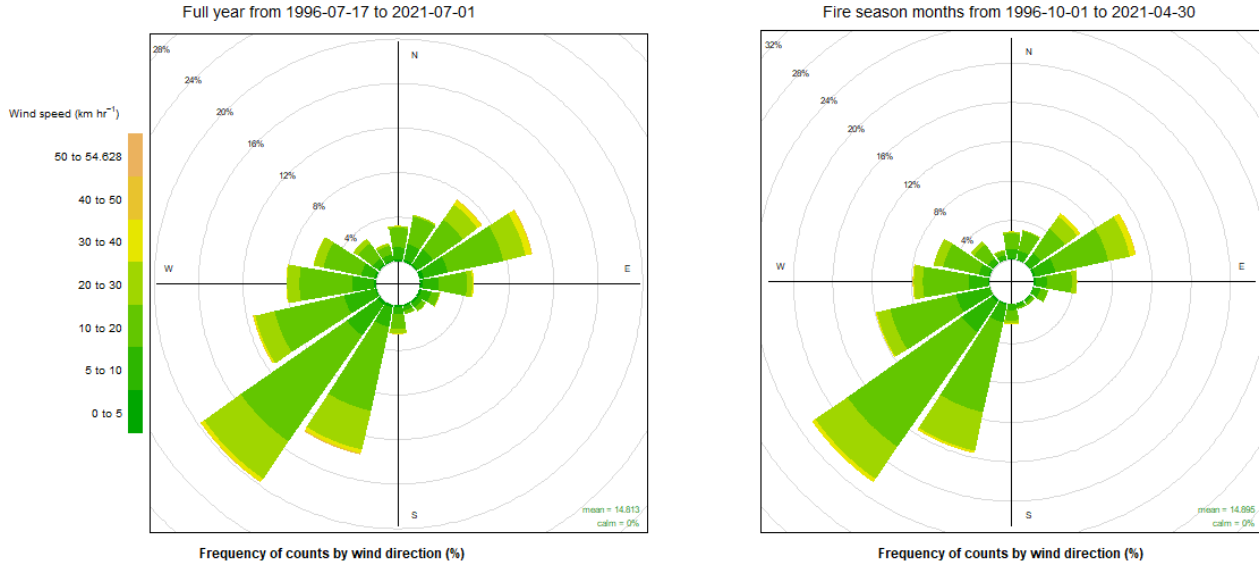
Period: 1996-07-17 - 2021-07-01

Length of record: 24 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.1	22.7	21.6	19.2	16.6	14.4	13.5	14.3	15.7	16.8	18.5	20.4	18.0	20.2
median	22.2	22.8	21.6	19.3	16.8	14.5	13.5	14.3	15.7	16.8	18.4	20.4	17.8	20.2
max	28.5	31.3	28.8	26.5	23.0	20.5	20.6	20.3	23.1	25.1	26.3	27.2	31.3	31.3
min	13.3	14.5	11.3	11.1	6.5	7.1	5.4	6.2	6.5	8.1	9.8	11.9	5.4	8.1
<b>Relative Humidity, %</b>														
mean	68.0	67.8	69.0	71.9	77.5	80.1	79.0	77.7	73.5	72.3	70.0	70.3	73.1	69.9
median	66.0	66.0	67.6	71.0	77.0	81.0	80.0	78.0	73.0	71.0	68.9	68.3	72.0	68.1
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	42.0	35.2	38.0	45.0	40.0	46.3	45.0	38.3	34.0	29.6	33.0	44.0	29.6	29.6
<b>Wind Speed, km/h</b>														
mean	15.2	14.2	14.1	13.3	14.0	14.3	14.6	15.0	15.2	15.6	15.7	15.3	14.7	14.8
median	14.0	13.2	13.0	12.1	12.7	13.0	13.2	14.0	14.0	15.1	14.8	14.3	13.7	13.9
max	45.9	48.6	38.5	45.4	46.4	54.6	51.0	52.1	51.7	39.6	39.3	51.5	54.6	51.5
min	2.3	2.2	3.0	2.5	1.3	1.1	0.0	0.0	0.7	3.0	0.7	0.0	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.0	2.3	2.8	2.9	3.9	4.0	5.4	3.7	3.5	3.0	2.4	3.0	3.3	2.6
median	0.0	0.0	0.0	0.0	0.4	0.8	1.0	0.6	0.5	0.0	0.0	0.0	0.0	0.0
max	79.4	64.0	97.0	79.5	93.5	69.3	108.6	73.2	75.0	54.6	56.8	75.2	108.6	97.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	61.9	67.1	85.8	87.5	123.0	118.8	165.4	114.6	102.2	92.1	73.3	90.6	98.5	79.8
max	162.0	191.4	243.6	188.8	227.6	235.5	399.6	203.4	225.2	169.0	174.8	230.5	399.6	243.6
min	1.2	6.6	4.6	20.4	27.2	2.4	1.8	1.4	41.5	18.4	0.0	24.0	0.0	0.0
<b>Seasonal Rainfall, millimetres</b>														
mean													1182.5	561.1
max													1579.0	787.2
min													673.2	276.4
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	77.4	76.1	74.3	69.7	61.5	56.2	54.5	58.3	64.1	67.3	72.3	72.2	67.0	72.7
median	84.2	84.1	83.4	78.2	68.7	62.2	56.2	62.7	70.6	75.4	80.5	80.9	76.4	81.7
max	88.9	89.8	89.5	88.5	86.3	86.3	85.9	86.6	87.9	88.1	91.0	89.1	91.0	91.0
min	0.0	1.1	4.7	0.5	3.0	1.4	1.6	2.6	0.0	0.9	8.7	1.5	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	21.8	26.2	18.0	10.8	4.2	1.9	1.9	3.3	4.2	6.8	12.0	15.1	10.5	15.7
median	18.2	21.6	13.8	7.6	2.8	1.0	0.8	1.3	3.1	5.3	9.9	11.9	5.8	11.4
max	73.4	109.8	89.9	43.6	19.8	13.8	26.0	40.5	44.8	27.8	68.2	74.0	109.8	109.8
min	1.4	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	225.5	306.9	282.2	242.0	145.1	62.1	23.0	19.8	22.4	34.0	83.3	145.9	131.9	187.3
median	212.8	287.3	279.6	213.6	134.7	21.7	7.6	8.8	14.2	28.5	74.5	132.6	83.9	154.4
max	599.1	621.4	712.7	615.8	551.5	247.4	209.3	238.6	248.2	113.8	290.1	405.7	712.7	712.7
min	7.2	9.7	4.4	3.2	1.3	1.2	0.7	1.1	1.5	2.4	4.6	6.4	0.7	2.4
<b>Initial Spread Index, ISI</b>														
mean	3.8	3.7	3.2	2.2	1.5	1.2	1.2	1.3	1.7	2.1	2.8	2.9	2.3	2.9
median	3.5	3.6	3.2	1.9	1.1	0.9	0.6	0.9	1.4	1.8	2.6	2.7	1.8	2.7
max	18.4	16.9	12.2	9.0	14.5	18.5	14.4	17.2	25.2	12.9	16.0	24.8	25.2	24.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	34.1	41.4	30.0	18.3	7.4	3.1	2.8	4.5	5.4	8.7	17.0	23.3	16.2	24.5
median	29.9	36.3	23.8	13.6	5.1	1.6	1.2	1.8	4.0	7.0	14.3	19.0	9.0	18.1
max	103.6	151.2	136.7	72.3	31.7	24.2	37.2	56.8	61.8	33.9	85.9	92.8	151.2	151.2
min	2.2	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	8.3	9.1	6.7	3.5	1.5	0.8	0.8	1.0	1.3	2.2	4.2	5.2	3.7	5.6
median	7.5	8.2	5.7	2.0	0.5	0.3	0.2	0.3	0.5	0.9	3.4	4.2	1.0	4.1
max	46.7	41.3	38.2	21.3	15.9	19.1	14.9	14.9	17.8	14.6	35.4	40.0	46.7	46.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.7	2.0	1.2	0.4	0.1	0.0	0.1	0.1	0.1	0.2	0.6	0.8	0.6	1.0
median	1.0	1.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.3
max	24.6	19.7	17.2	6.1	3.6	5.0	3.2	3.3	4.4	3.1	15.0	18.6	24.6	24.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	51.5	54.2	37.6	13.9	4.2	1.5	1.8	2.8	3.2	6.7	17.7	26.1	18.4	29.7
max	171.0	193.3	160.5	49.2	16.0	6.7	21.6	34.7	13.4	21.0	101.7	80.0	193.3	193.3
min	9.9	6.2	3.5	1.6	0.1	0.0	0.0	0.0	0.3	0.9	1.8	2.9	0.0	0.9
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													221.2	207.9
max													765.4	602.0
min													75.1	80.8

Station Name: Woodhill Raws (WDH)      Period: 1996-07-17 - 2021-07-01      Length of record: 24 years														FIRE SEASON
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	10.4	10.0	14.5	20.9	28.8	29.8	30.0	29.5	29.0	27.2	20.0	17.0	267.0	120.1
max	24	23	31	30	31	30	31	31	30	31	30	29	312	158
min	0	1	2	7	18	27	10	2	23	16	0	4	157	59
<b>Moderate</b>														
mean	16.9	13.2	14.0	8.8	2.2	0.2	1.0	1.5	1.0	3.8	9.5	12.8	84.8	78.6
max	28	26	23	22	13	3	21	29	6	15	25	21	141	116
min	7	5	0	0	0	0	0	0	0	0	0	2	54	53
<b>High</b>														
mean	2.9	4.0	2.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.2	11.3	11.4
max	11	19	19	3	0	0	0	0	1	0	10	8	45	43
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.6	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
max	5	7	4	0	0	0	0	0	0	0	0	0	12	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
max	3	3	2	0	0	0	0	0	0	0	1	1	10	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	1	0	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Auckland (Mainland)														
Curing%	75	80	80	60	40	40	30	40	45	50	65	70		
<b>Low</b>														
mean	3.0	3.2	4.1	6.5	12.0	13.5	17.1	13.1	9.0	7.5	4.9	4.7	98.6	34.0
max	9	8	11	16	22	23	28	24	18	17	15	10	134	51
min	0	0	0	2	5	0	0	0	3	0	0	1	41	17
<b>Moderate</b>														
mean	17.6	12.8	16.6	23.2	18.6	16.2	13.9	17.8	20.8	23.1	23.6	22.8	227.1	138.9
max	27	23	23	27	26	30	31	31	27	31	29	29	268	166
min	8	3	7	14	9	7	3	7	12	14	15	16	196	112
<b>High</b>														
mean	10.0	11.5	10.0	0.3	0.3	0.2	0.0	0.0	0.2	0.4	1.5	3.5	38.0	37.9
max	18	23	23	2	3	3	1	1	5	4	6	11	71	68
min	2	2	0	0	0	0	0	0	0	0	0	0	13	15
<b>Very High</b>														
mean	0.5	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
max	4	4	3	0	0	0	0	0	1	0	0	1	10	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	1	0	0	0	0	0	0	0	0	0	1	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.8	4.3	5.7	7.5	12.4	14.5	16.6	14.3	10.6	9.2	6.2	6.3	111.5	43.0
max	10	12	12	15	22	22	28	24	19	16	15	12	146	57
min	0	0	2	2	4	0	0	0	4	2	0	2	51	23
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.2	2.1	2.1	3.5	4.2	3.8	3.9	4.4	3.4	3.1	2.1	2.1	36.0	16.3
max	5	5	6	9	9	8	8	8	8	6	6	6	47	23
min	0	0	0	0	1	0	0	1	0	0	0	0	16	6
<b>Very High</b>														
mean	3.0	2.3	3.1	4.3	5.2	5.7	4.8	5.0	5.8	5.1	4.7	3.5	52.5	26.3
max	8	7	5	9	11	14	9	9	11	10	8	8	75	40
min	1	0	0	1	0	1	1	1	1	1	0	0	38	15
<b>Extreme</b>														
mean	11.1	8.2	11.2	10.8	7.5	4.9	4.4	5.7	8.1	10.0	10.8	12.0	104.8	73.2
max	25	15	22	19	21	15	20	14	14	18	16	22	130	104
min	4	3	3	4	1	0	0	0	2	4	4	5	80	50
<b>Very Extreme</b>														
mean	11.9	11.3	9.0	3.8	1.6	1.0	1.4	1.6	2.1	3.6	6.2	7.0	60.5	53.4
max	22	23	22	13	6	3	7	6	9	11	16	16	119	93
min	4	2	0	0	0	0	0	0	0	0	0	1	22	25

### Windroses for Woodhill Raws (WDH)



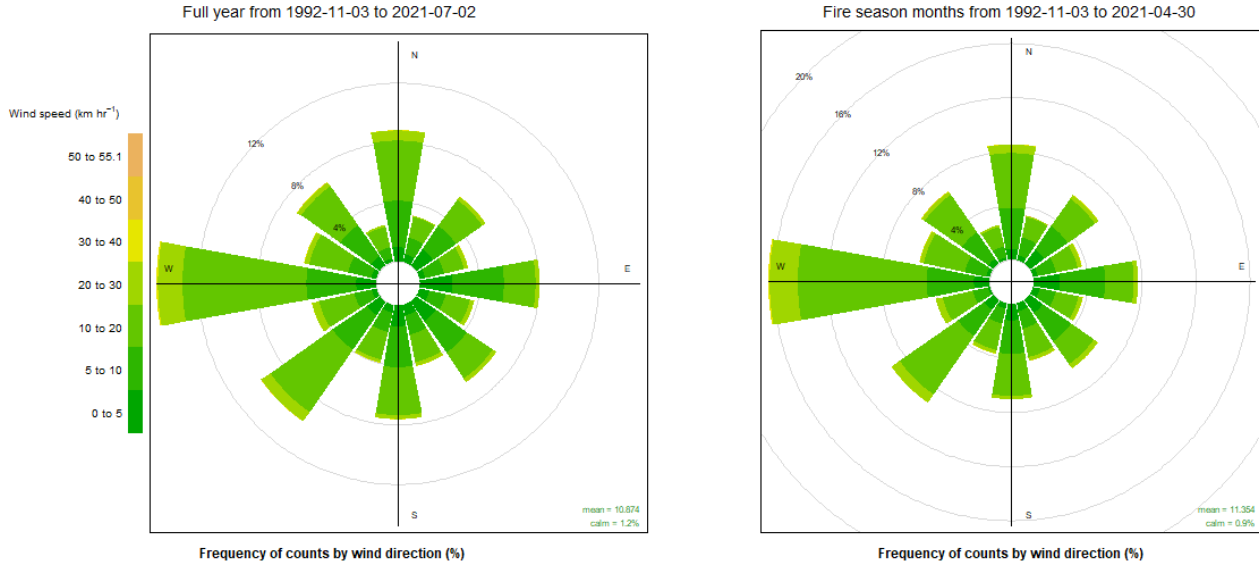
Station Name: Athol Raws (ATH)													Period: 1992-11-03 - 2021-07-02		Length of record: 28 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	20.9	21.2	19.3	16.5	13.6	11.0	10.2	11.1	12.9	14.7	16.7	19.0	15.6	18.3		
median	20.9	21.3	19.3	16.6	13.6	11.0	10.3	11.1	12.9	14.7	16.6	18.9	15.3	18.3		
max	30.0	27.9	27.2	24.4	20.2	17.2	18.8	17.0	21.2	21.5	25.9	31.2	31.2	31.2		
min	12.4	11.1	9.7	7.4	4.7	3.0	2.8	4.5	6.3	6.1	6.4	9.4	2.8	6.1		
<b>Relative Humidity, %</b>																
mean	65.0	65.1	66.4	72.8	78.0	80.8	79.4	76.6	72.5	69.9	67.3	68.0	71.8	67.8		
median	64	64	66	72	78	82	80	78	73	70	66	67	71	67		
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
min	21	30	18	39	45	47	35	41	36	22	26	24	18	18		
<b>Wind Speed, km/h</b>																
mean	11.5	9.8	9.9	9.2	9.9	9.1	9.6	10.5	12.5	14.3	13.5	12.8	11.1	11.6		
median	11.2	9.0	9.2	8.8	9.1	8.3	9.0	10.1	12.1	14.2	13.0	12.1	10.4	11.0		
max	32.1	40.3	32.8	30.0	42.0	36.3	33.1	34.0	42.9	44.6	57.5	55.1	57.5	57.5		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>24-hr Rainfall, millimeters</b>																
mean	2.9	2.8	2.9	3.9	4.9	5.0	5.1	4.7	4.8	4.3	3.8	4.6	4.2	3.6		
median	0.0	0.0	0.0	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.0	0.0	0.2	0.0		
max	99.3	88.3	64.3	88.1	91.7	56.4	90.7	60.7	70.6	50.8	76.4	73.7	99.3	99.3		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	92.3	80.7	88.6	118.7	155.2	149.7	158.9	145.0	143.1	133.8	115.7	138.4	126.7	109.7		
max	284.4	323.7	188.7	262.8	220.6	275.0	374.6	268.8	270.1	248.2	213.9	263.8	374.6	323.7		
min	13.9	3.3	26.7	25.6	76.7	55.0	28.4	50.5	31.9	53.1	25.3	58.8	3.3	3.3		
<b>Seasonal Rainfall, millimetres</b>																
mean													1520.0	763.6		
max													2250.6	1358.1		
min													1150.4	505.8		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	73.8	74.5	72.6	64.6	56.1	49.1	50.3	52.6	58.7	63.2	67.9	68.1	62.6	69.2		
median	82.2	83.1	81.7	73.8	61.4	50.9	52.2	54.1	64.5	68.9	75.9	77.4	71.0	78.5		
max	93.9	90.1	94.3	88.6	86.3	84.8	85.7	87.0	88.8	90.4	91.8	90.6	94.3	94.3		
min	7.9	0.0	2.0	0.0	0.4	0.4	0.0	1.1	1.9	3.3	4.5	0.0	0.0	0.0		
<b>Duff Moisture Code, DMC</b>																
mean	16.3	23.0	17.3	7.8	3.0	1.2	1.2	1.5	3.3	4.8	9.2	10.3	8.2	12.6		
median	12.8	17.3	13.2	5.6	1.7	0.6	0.7	0.9	2.1	3.9	7.0	8.4	4.2	8.7		
max	74.7	95.4	112.7	40.4	22.1	15.8	8.7	10.8	19.0	25.7	39.7	41.9	112.7	112.7		
min	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>Drought Code, DC</b>																
mean	135.2	207.1	214.0	147.0	61.8	13.8	7.3	7.1	10.3	22.0	48.0	80.0	79.6	121.6		
median	130.1	203.5	201.1	127.9	32.8	6.0	4.8	4.5	7.0	16.1	40.0	66.3	31.6	88.7		
max	391.0	494.4	592.2	518.6	312.5	140.3	78.5	50.6	50.8	110.9	203.9	290.0	592.2	592.2		
min	6.5	5.0	4.4	2.7	0.6	0.2	0.2	0.5	0.9	2.1	4.0	5.1	0.2	2.1		
<b>Initial Spread Index, ISI</b>																
mean	2.9	2.7	2.4	1.5	1.0	0.6	0.7	0.8	1.3	1.7	2.2	2.2	1.7	2.3		
median	2.5	2.6	2.2	1.1	0.7	0.3	0.3	0.4	0.9	1.2	1.6	1.7	1.1	1.8		
max	15.0	10.6	10.2	7.7	11.0	4.0	4.3	5.8	9.0	11.9	16.1	11.0	16.1	16.1		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	23.9	34.6	27.3	12.9	4.8	1.6	1.5	1.8	3.6	6.0	12.0	14.8	12.0	18.7		
median	20.1	28.0	20.9	9.3	2.6	0.9	0.9	1.1	2.3	4.7	9.4	12.3	5.8	13.0		
max	93.4	120.2	152.8	66.2	36.4	17.5	11.6	13.0	19.6	27.9	52.5	56.1	152.8	152.8		
min	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	5.6	6.6	5.0	2.2	0.8	0.3	0.3	0.4	0.9	1.5	2.9	3.2	2.5	3.9		
median	3.8	5.2	3.7	0.6	0.2	0.1	0.1	0.1	0.3	0.5	1.1	1.6	0.5	1.7		
max	31.8	32.7	36.4	20.3	11.9	3.4	3.5	5.6	7.4	12.6	23.7	21.8	36.4	36.4		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	1.0	1.2	0.9	0.3	0.1	0.0	0.0	0.0	0.1	0.1	0.4	0.4	0.4	0.6		
median	0.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1		
max	12.4	13.0	15.8	5.6	2.2	0.2	0.2	0.6	0.9	2.4	7.4	6.4	15.8	15.8		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	31.5	34.4	26.7	7.9	1.6	0.2	0.3	0.4	1.5	4.0	10.8	12.9	11.0	18.3		
max	162.1	128.2	177.8	27.2	8.5	0.8	1.1	2.9	6.4	15.6	47.6	37.9	177.8	177.8		
min	1.7	0.4	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.9	1.0	0.0	0.1		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													132.2	130.3		
max													471.4	477.5		
min													18.9	17.4		

Station Name: Athol Raws (ATH)      Period: 1992-11-03 - 2021-07-02      Length of record: 28 years

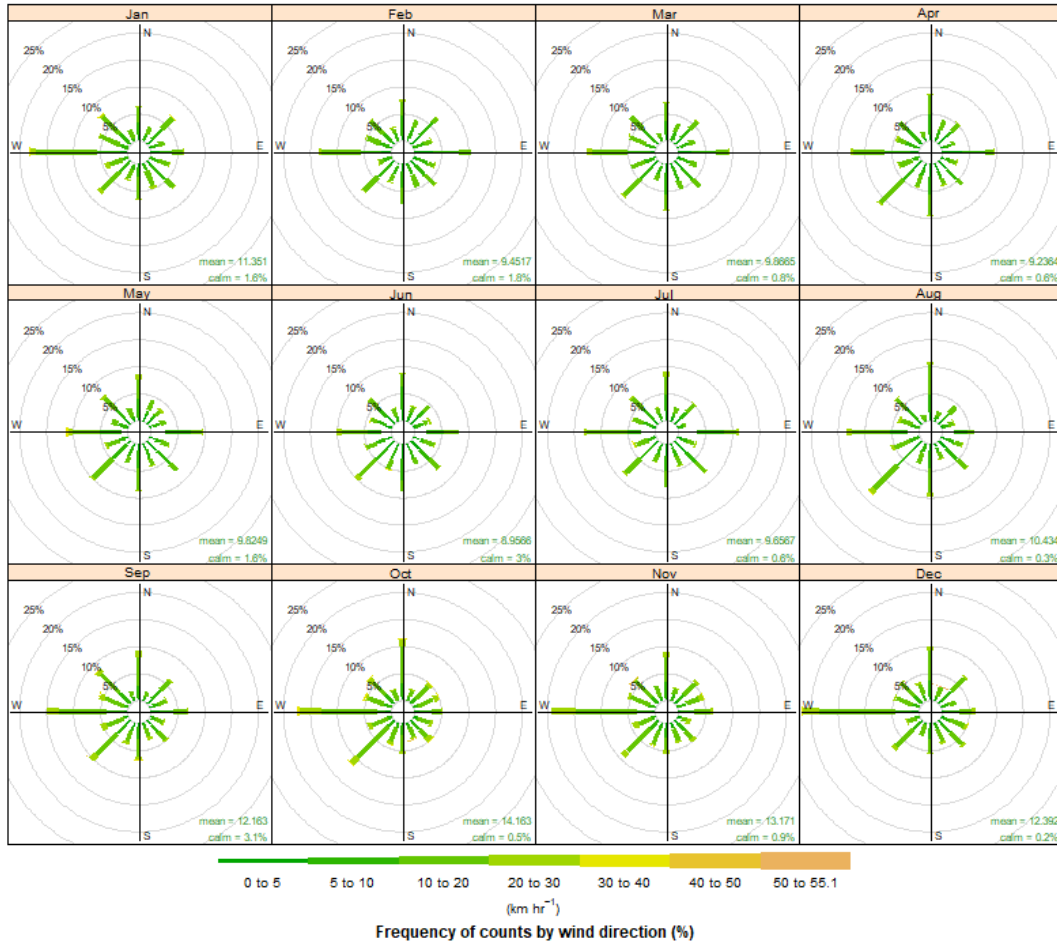
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	17.4	13.7	18.0	24.7	30.2	30.0	31.0	31.0	29.8	29.2	24.0	23.3	302.4	149.6
max	31	29	31	30	31	30	31	31	30	31	30	31	358	205
min	1	0	4	9	21	30	31	31	28	20	6	11	238	82
<b>Moderate</b>														
mean	11.6	11.5	11.1	5.1	0.8	0.0	0.0	0.0	0.2	1.8	5.8	7.6	55.6	55.3
max	28	26	20	21	10	0	0	0	2	11	22	20	115	92
min	0	0	0	0	0	0	0	0	0	0	0	0	8	8
<b>High</b>														
mean	1.5	2.6	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	5.9	5.9
max	11	20	9	4	0	0	0	0	0	0	2	2	36	36
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.4	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
max	6	4	8	0	0	0	0	0	0	0	0	0	12	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
max	3	1	4	0	0	0	0	0	0	0	0	0	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Waikato (Waipa/Otorohanga/Waitomo/South Waikato)														
Curing%	70	70	60	40	40	40	40	40	40	40	40	60		
<b>Low</b>														
mean	5.3	4.4	7.2	11.0	15.9	18.8	18.8	18.1	13.7	11.0	8.4	8.5	141.1	55.6
max	10	14	17	23	26	27	31	29	23	18	17	17	211	90
min	0	0	2	2	7	12	8	8	1	4	1	4	101	29
<b>Moderate</b>														
mean	20.4	20.4	23.5	19.0	15.0	11.2	12.2	12.9	16.2	19.9	21.2	22.3	214.1	146.4
max	27	28	29	28	24	18	23	23	29	27	27	27	257	170
min	8	7	14	7	5	3	0	2	7	13	13	14	155	122
<b>High</b>														
mean	5.3	3.5	0.3	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.5	0.2	10.0	10.2
max	21	20	5	0	2	0	0	0	1	1	3	2	44	45
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	1	0	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	6.4	5.4	6.7	10.3	15.1	18.0	17.6	17.6	13.6	12.1	8.6	8.9	140.2	58.2
max	12	19	16	23	24	27	31	29	24	19	15	20	207	92
min	1	0	2	1	6	12	8	9	2	5	1	3	105	35
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
max	1	0	1	1	0	1	0	0	1	0	0	0	2	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	3.7	3.4	4.1	5.6	6.9	6.6	6.9	5.7	4.6	4.2	3.8	3.6	59.0	28.3
max	10	9	8	13	15	14	18	11	9	8	8	8	85	51
min	0	0	0	1	2	2	0	2	1	1	0	1	36	10
<b>Very High</b>														
mean	3.9	3.6	4.0	4.5	4.2	3.6	3.6	4.6	4.5	4.5	4.8	4.5	50.3	29.5
max	10	8	7	11	8	7	8	10	12	9	12	7	76	48
min	0	0	0	1	0	0	0	0	0	0	0	1	35	16
<b>Extreme</b>														
mean	7.9	9.0	10.7	8.0	4.5	1.8	2.9	2.7	6.1	7.1	7.5	9.0	77.1	59.1
max	15	18	16	18	15	7	10	11	14	14	13	20	104	86
min	2	2	4	0	0	0	0	0	0	0	3	2	43	42
<b>Very Extreme</b>														
mean	9.1	6.9	5.5	1.6	0.4	0.0	0.0	0.3	1.1	3.1	5.2	5.0	38.2	37.1
max	24	23	22	12	3	0	1	4	6	10	16	16	93	95
min	0	0	0	0	0	0	0	0	0	0	0	0	2	2



Windroses for Athol Raws (ATH)



ATH station mean 1992-11-03 to 2021-07-02



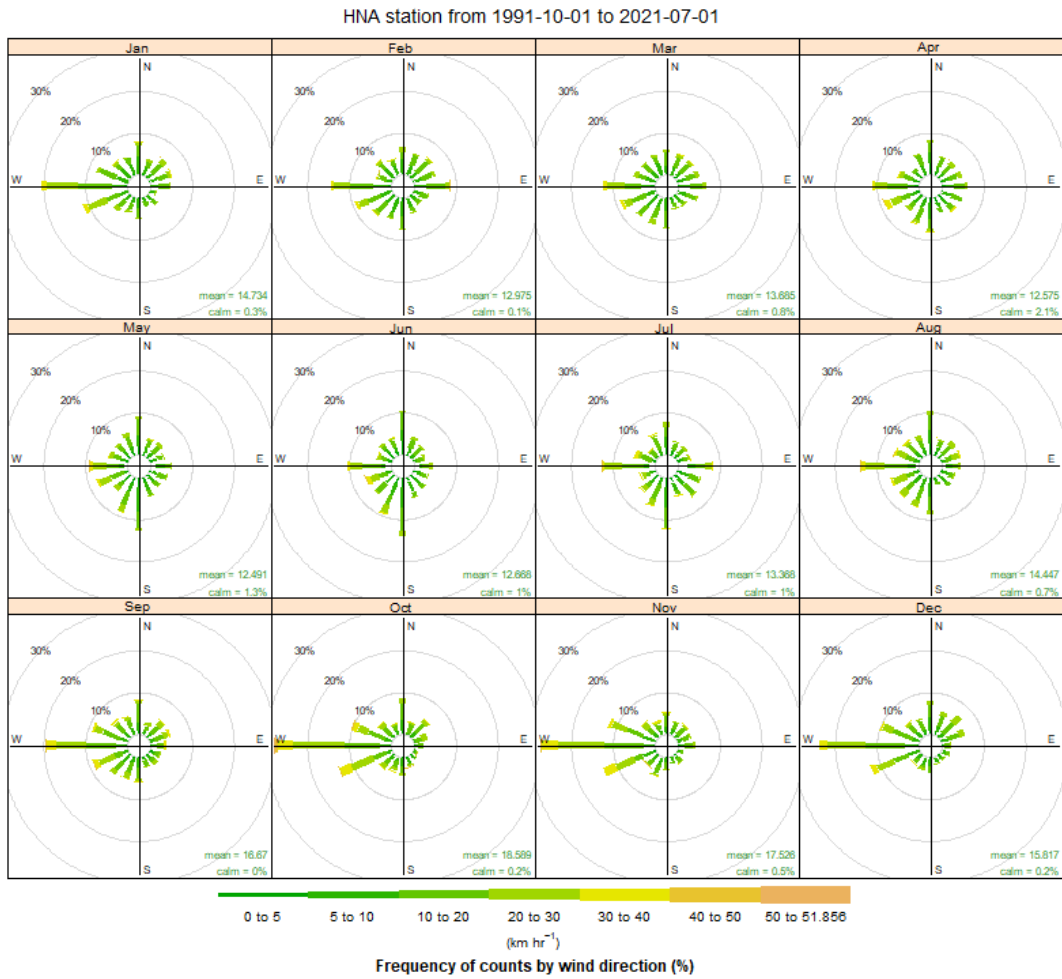
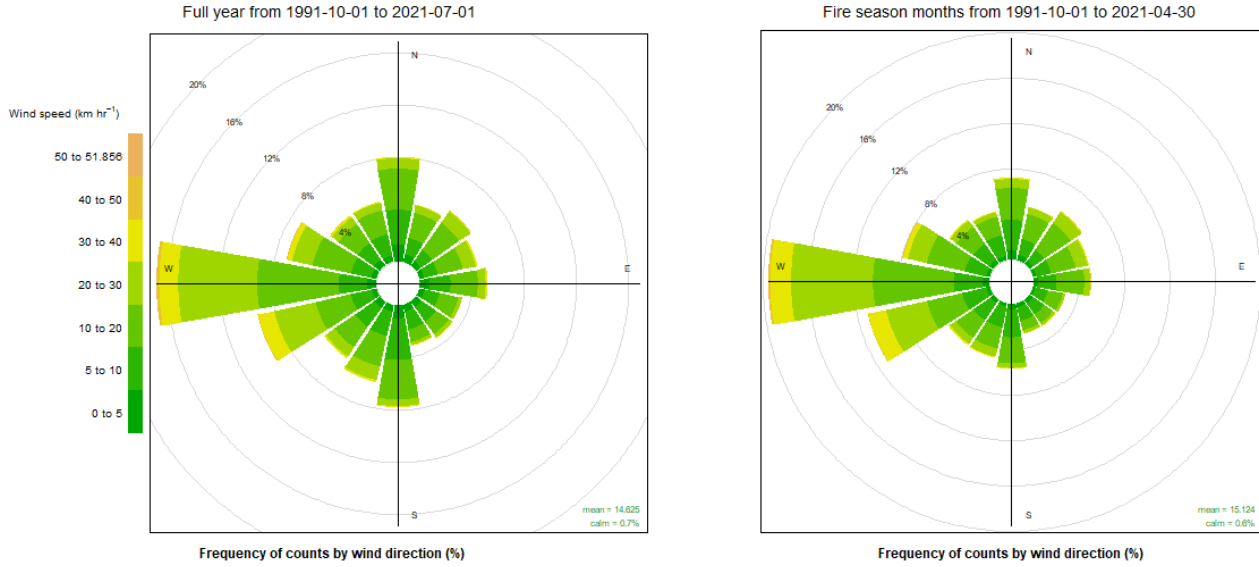
Station Name: Hamilton Aero (HNA)      Period: 1991-10-01 - 2021-07-01      Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.3	22.9	21.0	18.2	15.1	12.4	11.8	12.7	14.6	16.4	18.1	20.4	17.2	19.9
median	22.3	23.0	21.0	18.0	15.0	13.0	12.0	13.0	15.0	16.5	18.0	20.7	17.0	20.0
max	28.2	29.0	27.2	26.1	23.4	20.0	18.0	18.0	20.6	22.0	25.9	28.0	29.0	29.0
min	15.0	15.0	13.0	11.0	5.0	3.0	3.4	5.0	7.5	6.0	11.0	13.0	3.0	6.0
<b>Relative Humidity, %</b>														
mean	61.4	60.5	62.6	70.2	78.7	81.6	80.0	75.8	71.1	67.8	65.0	65.0	70.0	64.7
median	60.0	59.0	61.5	69.0	78.0	81.0	79.0	74.0	70.0	66.0	63.0	63.0	69.0	63.0
max	99	100	99	100	100	100	100	100	100	99	99	98	100	100
min	26	31	26	42	44	53	49	41	44	27	34	28	26	26
<b>Wind Speed, km/h</b>														
mean	14.6	13.1	13.6	12.5	12.5	12.9	13.3	14.5	16.9	18.6	17.8	16.0	14.7	15.2
median	13.0	11.0	13.0	11.0	11.0	11.1	13.0	13.0	16.7	18.5	17.0	15.0	13.0	13.0
max	40.7	44.0	46.0	44.4	48.0	44.0	43.0	46.4	50.0	51.9	44.0	43.0	51.9	51.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	2.5	2.6	2.7	3.6	3.9	4.4	4.6	4.1	3.6	3.3	3.1	3.2	3.5	3.0
median	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.6	0.2	0.2	0.0	0.0	0.0	0.0
max	110.6	81.8	85.5	80.1	81.1	78.3	81.4	77.9	56.0	65.0	75.6	74.6	110.6	110.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	76.3	73.8	82.4	107.4	122.2	131.5	143.0	127.7	107.3	102.1	89.3	102.5	105.5	90.5
max	224.0	344.0	219.8	404.0	305.9	278.7	326.2	289.9	197.0	203.8	198.4	209.6	404.0	404.0
min	7.0	9.4	6.0	19.8	45.8	14.8	28.4	36.4	27.6	39.6	16.0	18.0	6.0	6.0
<b>Seasonal Rainfall, millimetres</b>														
mean													1265.5	633.0
max													2345.4	1120.0
min													853.2	344.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	78.6	79.3	77.7	70.7	61.2	55.8	55.1	58.2	66.2	70.3	73.8	74.6	68.5	75.0
median	85.2	85.6	84.8	79.1	68.2	59.9	58.2	63.4	72.6	76.5	81.1	82.7	76.7	82.7
max	92.3	91.1	92.8	88.6	86.4	84.1	85.7	85.7	86.9	89.4	90.5	90.8	92.8	92.8
min	6.9	4.3	10.4	3.6	6.2	3.0	0.0	0.5	7.3	9.0	14.4	11.3	0.0	3.6
<b>Duff Moisture Code, DMC</b>														
mean	23.3	29.8	23.4	11.2	3.8	1.3	1.1	1.7	4.0	6.6	11.7	15.9	11.1	17.3
median	18.9	24.5	16.8	8.1	2.3	0.8	0.7	1.1	3.3	5.7	10.0	13.2	5.8	12.3
max	83.4	135.6	115.2	107.4	19.6	9.6	10.6	10.5	17.9	25.1	49.6	57.2	135.6	135.6
min	1.2	0.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.0
<b>Drought Code, DC</b>														
mean	196.6	271.9	274.6	217.0	134.5	55.4	14.6	10.2	14.0	29.7	69.6	120.9	117.4	167.5
median	202.0	289.4	252.9	186.6	120.6	15.5	7.2	6.4	10.9	26.5	66.1	119.1	61.6	127.0
max	496.9	663.0	693.4	684.9	444.8	428.3	180.2	76.8	76.0	102.5	230.9	329.9	693.4	693.4
min	6.8	6.1	4.6	3.0	1.1	0.6	0.8	0.7	1.1	2.0	5.1	6.1	0.6	2.0
<b>Initial Spread Index, ISI</b>														
mean	4.3	4.2	3.8	2.3	1.3	1.0	1.0	1.3	2.0	2.8	3.4	3.6	2.6	3.5
median	3.9	3.9	3.5	1.9	1.0	0.7	0.7	0.9	1.6	2.3	3.0	3.2	1.9	3.0
max	24.2	17.9	18.2	17.4	9.1	11.1	14.4	20.0	12.0	13.7	16.2	14.9	24.2	24.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	34.5	45.0	36.7	18.7	6.7	2.2	1.6	2.2	4.6	8.2	15.9	23.0	16.6	25.8
median	28.9	39.2	26.9	13.9	4.3	1.3	1.0	1.4	3.7	7.1	14.0	20.0	8.5	18.6
max	116.0	179.5	155.2	154.3	34.4	16.6	14.2	12.5	20.8	27.1	64.5	79.8	179.5	179.5
min	2.0	0.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	9.3	10.6	8.6	3.8	1.2	0.5	0.5	0.6	1.4	2.7	4.8	6.3	4.2	6.6
median	7.9	9.4	6.6	2.0	0.4	0.2	0.2	0.3	0.6	1.7	3.8	5.3	1.1	4.6
max	51.8	45.0	50.4	30.1	15.8	11.9	12.8	13.8	10.1	16.8	26.1	30.3	51.8	51.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.1	2.6	1.9	0.5	0.1	0.0	0.0	0.0	0.1	0.3	0.7	1.1	0.8	1.3
median	1.0	1.4	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.0	0.4
max	29.4	23.0	28.1	11.2	3.6	2.2	2.5	2.8	1.6	4.0	8.7	11.4	29.4	29.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	66.7	73.4	60.6	16.8	3.0	0.8	0.8	1.1	3.1	8.8	20.7	33.5	24.1	40.1
max	264.3	304.2	269.8	56.1	11.5	7.0	8.5	5.8	8.8	28.2	52.7	84.4	304.2	304.2
min	11.0	3.2	10.5	0.8	0.1	0.0	0.0	0.1	0.2	2.2	5.1	2.9	0.0	0.8
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													289.2	279.0
max													751.7	810.8
min													94.6	105.8

Station Name: Hamilton Aero (HNA)      Period: 1991-10-01 - 2021-07-01      Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	10.7	8.8	12.3	20.7	29.4	29.9	30.9	30.9	29.5	27.3	18.4	15.7	264.6	114.2
max	22	28	26	30	31	30	31	31	30	31	29	31	310	153
min	0	0	0	4	21	26	27	30	25	16	2	3	214	69
<b>Moderate</b>														
mean	14.0	12.5	13.7	8.4	1.6	0.1	0.1	0.1	0.5	3.7	11.1	13.3	79.2	76.5
max	20	21	22	21	10	4	4	1	5	15	26	22	114	110
min	6	1	3	0	0	0	0	0	0	0	1	0	49	55
<b>High</b>														
mean	4.8	4.7	3.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.7	15.8	16.1
max	13	14	16	5	0	0	0	0	0	0	2	8	45	45
min	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<b>Very High</b>														
mean	0.9	1.4	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.8	3.7
max	9	7	7	1	0	0	0	0	0	0	1	3	18	19
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.4	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
max	5	9	4	0	0	0	0	0	0	0	0	0	15	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	2	1	2	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Waikato (Hauraki/Matamata Piako/Waikato)														
Curing%	70	70	60	40	40	40	40	40	40	40	40	60		
<b>Low</b>														
mean	2.5	2.1	3.5	6.7	12.4	15.3	16.1	13.6	7.9	5.7	4.0	4.9	94.6	29.5
max	7	8	9	15	21	24	27	26	16	12	11	12	148	48
min	0	0	0	1	6	9	9	3	2	2	0	0	76	12
<b>Moderate</b>														
mean	18.1	17.6	25.4	22.6	18.4	14.6	14.8	17.2	21.6	24.0	24.3	24.2	242.9	155.7
max	24	26	31	28	25	21	22	28	26	29	29	30	266	177
min	7	5	21	15	10	6	4	5	14	18	18	18	206	132
<b>High</b>														
mean	9.9	8.2	2.1	0.7	0.2	0.1	0.1	0.2	0.4	1.3	1.7	2.0	27.0	26.2
max	22	22	7	4	2	2	2	3	3	5	5	6	50	54
min	2	1	0	0	0	0	0	0	0	0	0	0	9	4
<b>Very High</b>														
mean	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
max	4	3	0	0	0	0	0	0	0	0	0	0	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	1	0	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.5	2.9	4.4	7.1	12.9	15.0	16.3	14.4	10.0	7.6	5.5	5.8	105.1	36.8
max	8	11	10	16	20	24	28	26	20	15	13	14	155	56
min	0	0	0	1	4	6	8	5	2	3	1	0	81	18
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	0	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.0	2.2	1.7	3.6	6.3	6.5	5.8	5.0	3.4	2.2	1.8	1.6	42.2	15.2
max	6	7	6	10	16	15	19	12	10	6	6	4	58	24
min	0	0	0	0	1	1	1	2	1	0	0	0	24	6
<b>Very High</b>														
mean	3.3	2.4	2.5	5.1	5.3	4.2	4.7	5.5	4.8	4.5	3.2	3.4	49.0	24.4
max	6	6	8	13	12	10	12	12	9	7	8	7	63	34
min	1	0	0	1	1	0	1	1	0	0	0	1	28	11
<b>Extreme</b>														
mean	8.5	8.2	11.3	10.0	5.3	3.3	3.2	4.9	8.6	10.3	10.5	10.2	94.3	68.5
max	16	16	21	15	13	9	8	11	14	15	17	15	124	88
min	4	2	3	2	1	0	0	0	2	5	5	4	73	50
<b>Very Extreme</b>														
mean	13.7	12.5	11.1	4.3	1.3	0.9	0.9	1.3	3.2	6.4	9.0	10.0	74.6	67.4
max	25	25	25	14	4	4	7	6	7	15	18	19	107	108
min	2	3	3	0	0	0	0	0	0	0	4	2	37	41

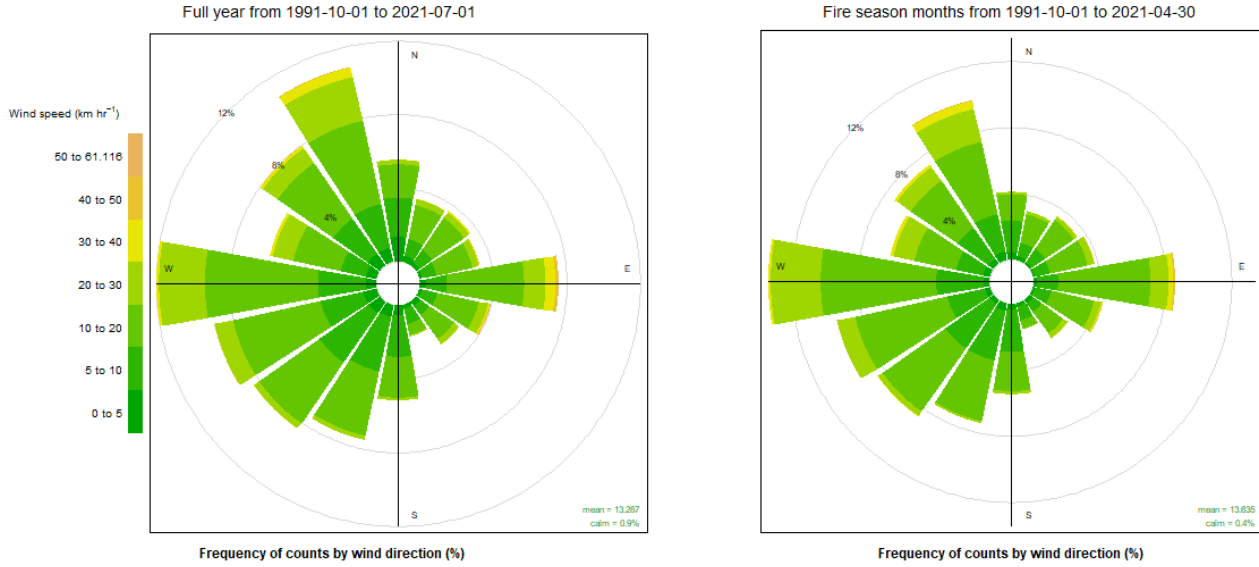
Windroses for Hamilton Aero (HNA)



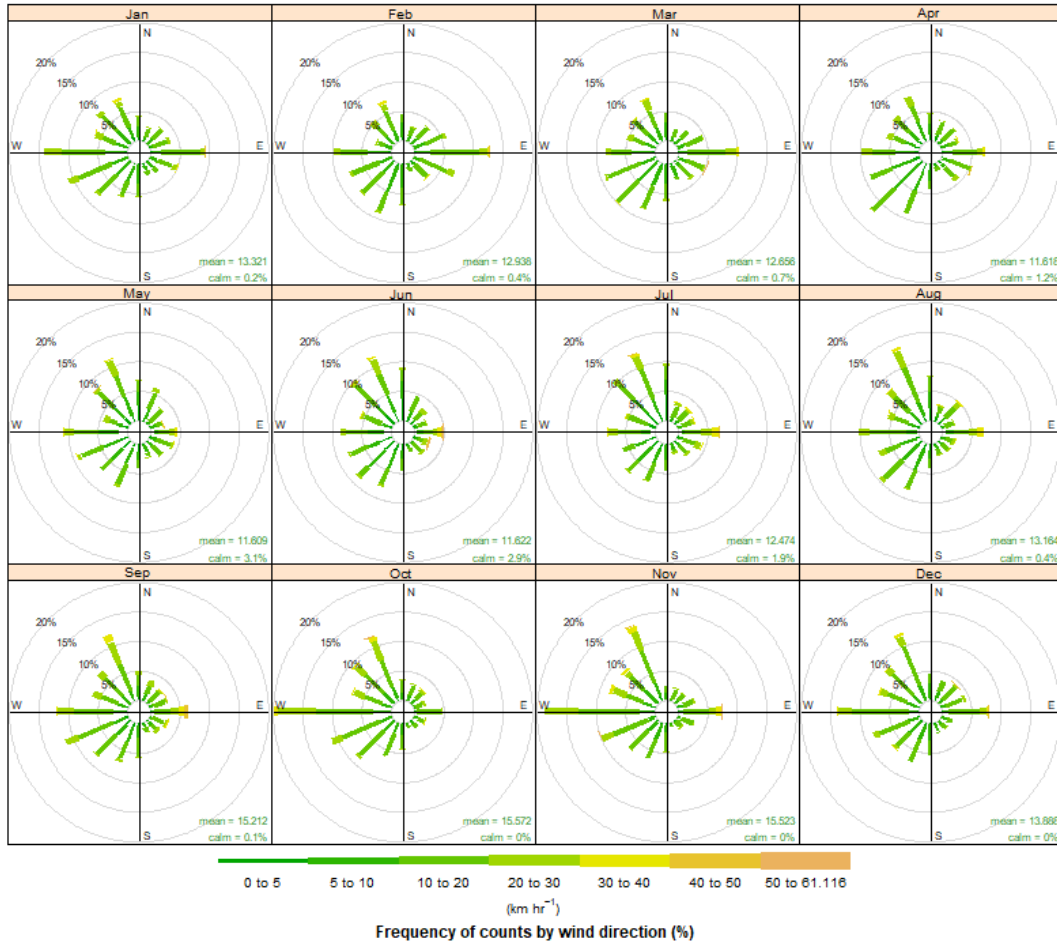
Station Name: Paeroa (PAX)			Period: 1991-10-01 - 2021-07-01										Length of record: 29 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.8	23.1	21.3	18.7	15.9	13.4	12.6	13.3	15.1	16.7	18.6	20.9	17.7	20.3
median	23.0	23.0	21.0	19.0	16.0	14.0	12.9	13.6	15.0	17.0	18.6	21.0	17.8	20.0
max	30.9	31.0	28.7	26.0	22.0	19.8	19.0	18.3	20.5	22.0	25.4	27.0	31.0	31.0
min	14.0	13.0	14.0	11.0	6.8	4.8	5.4	6.0	7.6	7.0	11.0	13.0	4.8	7.0
<b>Relative Humidity, %</b>														
mean	60.6	61.2	63.3	69.1	75.6	78.4	78.0	73.8	69.9	67.3	64.1	63.8	68.7	64.2
median	59.0	59.0	62.0	68.5	75.0	78.0	78.0	73.0	69.0	66.0	62.0	62.0	68.0	63.0
max	97	98	98	99	100	100	100	100	98	97	99	96	100	99
min	30.0	32.0	35.0	42.0	45.0	44.0	46.2	39.3	45.0	34.0	26.0	34.0	26.0	26.0
<b>Wind Speed, km/h</b>														
mean	13.2	13.0	12.6	11.4	11.4	11.8	12.4	13.2	15.4	15.6	15.5	14.0	13.3	13.6
median	13.0	13.0	11.3	11.0	11.0	11.0	11.1	13.0	15.0	15.0	15.0	13.0	13.0	13.0
max	43.0	46.0	61.1	48.0	44.0	61.0	44.0	43.0	51.0	56.0	57.0	46.0	61.1	61.1
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.0	1.9	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	2.2	2.8	2.9	3.2	3.1	4.7	5.8	3.6	3.0	2.8	2.6	2.8	3.3	2.8
median	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0
max	90.6	146.2	105.0	117.4	77.3	192.0	137.0	63.8	54.4	160.6	101.8	82.2	192.0	160.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	68.0	81.9	89.1	98.2	98.0	140.1	178.8	110.3	90.1	86.7	77.2	88.9	100.6	84.3
max	204.4	329.0	335.4	283.8	318.7	477.9	423.4	191.6	211.6	206.8	208.8	256.2	477.9	335.4
min	0.0	7.8	12.4	18.4	1.0	0.0	0.0	0.0	11.2	26.4	18.4	0.0	0.0	0.0
<b>Seasonal Rainfall, millimetres</b>														
mean													1207.4	585.2
max													2080.7	915.2
min													639	293
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	79.9	79.1	77.6	72.3	66.1	59.0	56.8	62.1	68.5	71.6	74.7	76.0	70.3	75.9
median	85.7	85.5	84.1	79.9	73.7	62.5	59.3	66.8	74.9	78.6	81.6	83.3	78.2	82.9
max	90.5	91.4	90.6	88.7	87.0	84.6	85.0	87.2	86.9	89.1	89.9	90.3	91.4	91.4
min	9.7	17.4	13.0	10.9	9.9	4.2	1.1	3.7	14.3	8.9	19.7	8.3	1.1	8.3
<b>Duff Moisture Code, DMC</b>														
mean	28.1	34.5	22.4	11.3	6.2	2.8	2.2	3.5	6.9	8.2	12.5	18.3	13.0	19.2
median	22.8	25.3	15.8	8.1	4.0	1.1	0.8	1.5	4.3	7.0	11.3	14.9	7.3	13.3
max	136.4	194.9	116.2	56.4	41.5	44.7	39.8	55.9	73.3	40.4	41.1	74.3	194.9	194.9
min	1.4	0.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	253.2	323.4	284.7	223.0	152.0	73.9	27.8	20.3	29.6	48.3	98.3	167.8	141.9	198.6
median	245.7	306.6	263.9	202.9	117.2	29.8	7.6	7.5	13.9	32.9	89.9	161.6	90.4	163.3
max	840.0	1008.7	979.3	575.0	494.1	398.8	263.9	333.4	384.2	410.2	360.2	587.1	1008.7	1008.7
min	7.1	6.4	4.9	3.4	1.3	1.0	0.8	1.0	1.1	2.2	4.4	6.5	0.8	2.2
<b>Initial Spread Index, ISI</b>														
mean	4.2	4.1	3.3	2.2	1.6	1.0	0.9	1.3	2.1	2.5	3.1	3.3	2.5	3.2
median	4.0	4.0	3.2	1.9	1.3	0.8	0.7	1.0	1.7	2.2	2.8	3.1	1.9	3.0
max	16.9	20.2	15.4	11.8	10.7	7.6	10.1	8.9	10.6	13.8	20.2	16.6	20.2	20.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	42.7	52.4	35.8	19.0	10.3	4.6	3.3	4.7	8.4	10.7	18.0	27.6	19.7	29.3
median	36.6	41.0	25.9	13.9	7.0	1.9	1.2	1.9	4.8	8.9	17.0	23.6	11.0	20.8
max	194.0	262.9	165.9	89.1	65.3	69.8	57.8	78.8	99.3	64.1	52.7	104.0	262.9	262.9
min	2.3	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	10.1	11.1	7.6	3.6	1.9	0.7	0.6	0.9	2.0	2.8	4.8	6.5	4.4	6.6
median	9.0	9.5	6.2	2.3	0.6	0.2	0.2	0.3	0.7	1.9	4.0	5.7	1.6	4.8
max	46.8	53.5	49.7	22.3	19.6	12.0	15.5	19.4	23.7	25.6	31.8	33.5	53.5	53.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.3	2.8	1.5	0.5	0.2	0.0	0.0	0.1	0.2	0.3	0.7	1.1	0.8	1.3
median	1.3	1.5	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	0.1	0.4
max	24.6	31.1	27.4	6.6	5.3	2.2	3.5	5.2	7.4	8.4	12.4	13.6	31.1	31.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	70.8	78.7	47.8	14.4	6.0	1.4	1.4	2.6	6.1	9.5	20.2	34.5	24.5	39.4
max	231.3	325.0	204.4	55.9	69.7	16.9	29.3	48.7	66.2	44.8	70.0	129.7	325.0	325.0
min	9.0	7.0	9.7	0.9	0.2	0.0	0.0	0.1	0.5	0.9	3.7	2.4	0.0	0.9
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													293.5	274.6
max													854.3	920.0
min													108.1	118.1

Station Name: Paeroa (PAX)														Period: 1991-10-01 - 2021-07-01	Length of record: 29 years
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Forest Fire Danger Class (FFDC) Frequency</b>															
<b>Low</b>															
mean	9.0	8.4	12.8	21.1	27.8	29.0	30.1	30.0	27.8	26.4	17.8	14.0	254.1	109.5	
max	24	23	24	30	31	30	31	31	30	31	28	29	299	140	
min	0	0	1	4	3	11	6	3	4	9	9	0	149	56	
<b>Moderate</b>															
mean	14.7	12.4	14.8	8.4	3.0	1.0	0.8	1.0	2.1	4.4	11.8	14.8	89.2	81.2	
max	23	22	23	26	21	19	24	27	21	20	21	23	193	105	
min	5	1	6	0	0	0	0	0	0	0	2	2	56	65	
<b>High</b>															
mean	5.9	4.8	2.5	0.4	0.2	0.0	0.0	0.0	0.2	0.1	0.4	2.0	16.5	16.3	
max	16	15	13	4	7	0	1	1	5	1	8	17	37	41	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
<b>Very High</b>															
mean	1.0	1.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.9	3.7	
max	8	11	7	0	0	0	0	0	0	1	1	2	24	26	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Extreme</b>															
mean	0.4	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	
max	3	7	3	0	0	0	0	0	0	0	0	1	13	13	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	
max	1	2	1	0	0	0	0	0	0	0	0	0	3	3	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Grass Fire Danger Class (GFDC) Frequency</b>															
Curing source Waikato (Hauraki/Matamata Piako/Waikato)															
Curing%	70	70	60	40	40	40	40	40	40	40	40	60			
<b>Low</b>															
mean	2.2	2.3	3.6	6.2	9.8	14.5	15.8	12.4	7.4	5.4	4.0	4.2	87.7	27.9	
max	8	6	8	14	20	25	28	22	17	11	10	13	130	41	
min	0	0	0	1	0	0	0	0	1	0	0	0	28	13	
<b>Moderate</b>															
mean	18.7	17.1	26.4	23.7	21.1	15.5	15.2	18.6	22.4	25.2	25.0	26.0	254.9	162.0	
max	25	24	31	29	30	30	31	31	29	31	29	30	321	177	
min	11	5	22	16	11	5	3	9	13	20	20	18	226	142	
<b>High</b>															
mean	9.9	8.7	1.0	0.1	0.1	0.0	0.0	0.0	0.1	0.4	1.0	0.8	22.3	22.0	
max	20	21	5	2	2	0	1	1	1	3	6	5	46	48	
min	1	3	0	0	0	0	0	0	0	0	0	0	8	8	
<b>Very High</b>															
mean	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	
max	2	1	0	0	0	0	0	0	0	0	0	0	3	3	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Extreme</b>															
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Scrub Fire Danger Class (SFDC) Frequency</b>															
<b>Low</b>															
mean	3.0	3.0	4.0	6.3	9.7	13.8	15.8	12.7	8.7	6.9	5.0	4.9	93.7	33.1	
max	9	9	10	13	20	26	29	21	21	11	10	14	140	48	
min	0	0	0	1	0	0	0	0	1	1	1	0	36	15	
<b>Moderate</b>															
mean	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
max	0	0	1	0	1	1	1	0	0	0	0	0	2	1	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>High</b>															
mean	2.1	2.2	2.1	4.0	6.0	6.9	6.1	5.3	3.5	2.6	2.3	2.6	45.6	17.9	
max	5	8	6	7	12	13	14	11	9	7	8	5	67	27	
min	0	0	0	1	0	2	0	2	1	0	0	0	29	11	
<b>Very High</b>															
mean	2.5	2.5	3.8	5.4	6.6	5.3	5.7	6.3	5.2	5.3	4.4	3.4	56.5	27.3	
max	6	6	9	11	14	13	16	13	9	8	9	7	80	41	
min	0	0	0	1	0	1	1	1	1	1	1	0	44	15	
<b>Extreme</b>															
mean	8.8	7.9	11.7	10.1	7.3	3.5	2.9	5.6	9.3	10.9	9.9	11.0	98.9	70.1	
max	17	15	19	15	18	15	10	17	16	19	15	18	147	89	
min	3	1	4	4	2	0	0	1	2	5	5	5	70	49	
<b>Very Extreme</b>															
mean	14.6	12.7	9.4	4.2	1.4	0.5	0.4	1.0	3.3	5.3	8.3	9.2	70.3	63.8	
max	26	26	22	11	13	3	3	4	14	14	15	22	114	99	
min	4	3	4	0	0	0	0	0	0	0	2	2	42	34	

Windroses for Paeroa (PAX)



PAX station from 1991-10-01 to 2021-07-01



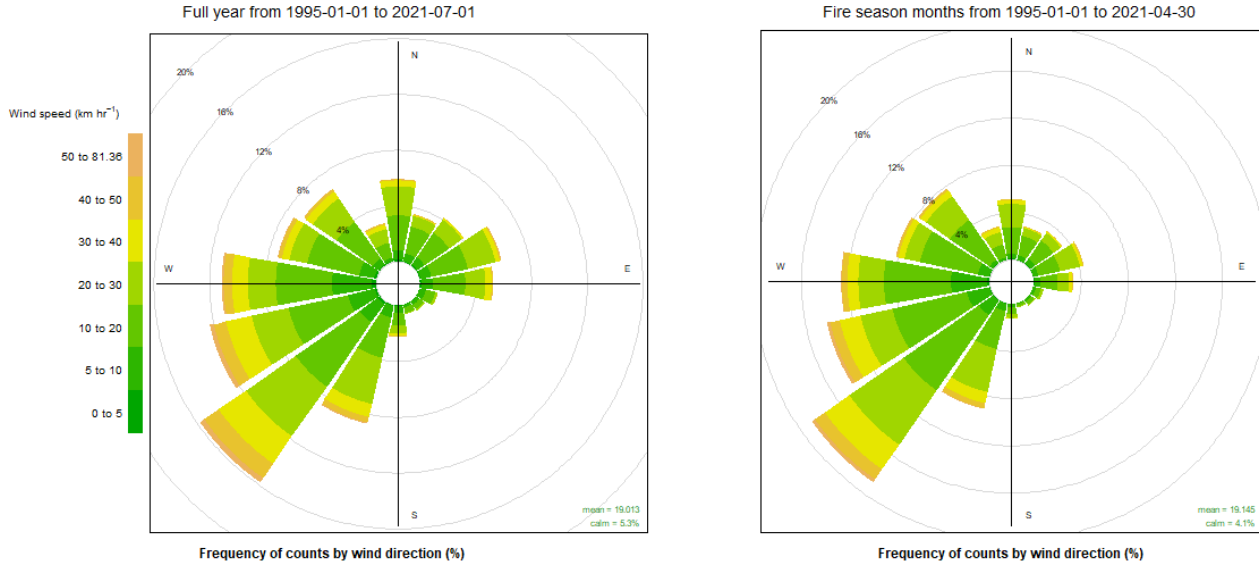
Station Name: Port Taharoa Aws (TRX)													Period: 1995-01-01 - 2021-07-01		Length of record: 26 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	21.4	22.1	20.9	18.8	16.4	14.2	13.3	13.6	14.8	16.0	17.5	19.7	17.4	19.5		
median	21.3	22.0	21.0	19.0	16.4	14.1	13.3	13.9	15.0	16.0	17.3	20.0	17.0	19.8		
max	28.0	28.0	28.0	25.4	22.3	20.0	18.3	19.0	21.0	23.0	23.7	28.0	28.0	28.0		
min	13.0	15.8	13.9	10.6	8.7	7.5	7.0	4.0	8.0	7.0	10.0	14.0	4.0	7.0		
<b>Relative Humidity, %</b>																
mean	68.4	67.1	66.3	68.5	72.6	74.4	73.1	73.6	73.2	72.7	70.9	71.0	71.0	69.3		
median	68	67	66	69	72	74	73	74	73	72	70	70	70	69		
max	100	100	97	100	100	100	100	100	99	100	99	97	100	100		
min	34.0	27.0	28.0	32.7	35.0	47.0	42.0	42.0	35.0	39.0	36.0	36.0	27.0	27.0		
<b>Wind Speed, km/h</b>																
mean	18.1	16.5	17.3	17.2	18.2	18.6	18.7	18.7	19.3	22.7	21.4	20.1	18.9	19.0		
median	17.0	15.0	16.6	15.0	16.6	16.7	17.0	17.0	18.5	20.5	20.0	19.0	17.0	18.0		
max	54.0	54.0	57.2	68.4	68.4	63.0	81.4	64.8	61.2	61.2	61.2	59.4	81.4	68.4		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>24-hr Rainfall, millimeters</b>																
mean	2.2	2.5	2.5	3.5	4.1	4.2	4.3	3.7	3.7	3.2	2.9	3.0	3.3	2.8		
median	0.0	0.0	0.0	0.0	0.4	1.0	0.6	0.6	0.4	0.4	0.0	0.0	0.0	0.0		
max	108.0	99.0	77.2	82.4	67.6	56.8	51.2	52.6	72.4	44.4	52.2	80.0	108.0	108.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	68.3	71.1	76.4	102.5	126.2	125.9	133.1	113.4	112.0	100.1	87.0	93.8	100.8	85.6		
max	208.0	320.0	160.8	197.0	182.8	230.0	309.8	216.0	197.2	270.0	209.8	236.4	320.0	320.0		
min	11.8	5.6	0.0	14.8	9.0	47.4	4.3	22.5	28.0	35.6	21.4	11.6	0.0	0.0		
<b>Seasonal Rainfall, millimetres</b>																
mean													1209.8	601.3		
max													1604.5	891.2		
min													847.4	266.2		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	76.9	76.8	76.9	70.9	65.6	60.9	60.7	62.2	64.1	67.6	71.9	71.7	68.9	73.3		
median	83.4	84.0	83.8	79.4	71.4	64.9	64.9	66.7	69.5	73.9	79.0	80.7	76.7	81.3		
max	91.0	91.9	90.0	89.6	87.0	86.7	87.3	87.8	88.9	87.4	89.2	89.4	91.9	91.9		
min	12.1	9.3	5.8	8.0	6.2	8.0	0.2	7.2	9.2	0.6	7.1	4.8	0.2	0.6		
<b>Duff Moisture Code, DMC</b>																
mean	18.6	21.9	18.6	11.6	4.6	2.4	2.1	3.2	3.8	4.9	9.4	12.5	9.5	13.9		
median	15.1	17.0	14.2	6.7	2.9	1.0	1.1	1.6	2.6	4.2	7.8	9.3	5.3	9.6		
max	77.6	77.7	82.1	90.2	29.2	39.9	19.6	34.1	18.4	26.3	37.1	70.9	90.2	90.2		
min	0.8	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0		
<b>Drought Code, DC</b>																
mean	220.6	283.0	290.9	228.9	121.3	38.1	13.3	16.8	16.9	32.3	74.6	137.8	123.4	181.7		
median	212.8	265.7	290.2	190.1	74.5	11.0	7.0	8.2	10.4	26.6	72.2	135.7	62.6	141.5		
max	512.8	672.7	821.8	870.2	474.8	416.6	147.7	130.6	103.3	107.7	235.0	341.6	870.2	870.2		
min	6.9	6.1	5.5	3.7	1.5	1.1	1.0	1.3	1.1	2.2	4.9	6.3	1.0	2.2		
<b>Initial Spread Index, ISI</b>																
mean	4.2	4.0	4.1	3.1	2.3	1.9	2.0	2.0	2.1	2.9	3.4	3.6	3.0	3.6		
median	3.8	3.6	3.7	2.6	1.7	1.1	1.2	1.4	1.6	2.3	3.0	3.1	2.3	3.2		
max	26.9	24.9	34.5	26.0	17.0	13.4	14.4	23.6	17.4	22.0	18.7	23.8	34.5	34.5		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	29.8	35.5	31.1	19.0	7.7	3.7	2.6	4.1	4.6	6.7	13.5	19.3	14.8	22.2		
median	24.7	29.2	23.8	11.8	4.8	1.5	1.5	2.0	3.2	5.9	11.9	15.4	8.0	15.6		
max	112.6	120.5	131.4	143.1	48.8	64.4	23.8	40.9	23.6	30.3	44.5	89.1	143.1	143.1		
min	1.3	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	8.3	8.7	8.2	4.7	2.2	1.3	1.2	1.4	1.6	2.6	4.3	5.6	4.2	6.1		
median	6.9	7.3	6.9	2.7	0.7	0.3	0.4	0.5	0.6	1.2	3.4	4.4	1.8	4.3		
max	48.9	54.8	40.2	55.3	23.3	28.6	16.4	16.2	12.7	18.2	22.0	38.2	55.3	55.3		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	1.7	1.9	1.7	0.8	0.3	0.1	0.1	0.1	0.1	0.3	0.6	1.0	0.7	1.1		
median	0.8	0.9	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.1	0.4		
max	26.6	32.5	18.8	33.1	7.1	10.3	3.8	3.8	2.4	4.6	6.5	17.1	33.1	33.1		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	55.2	53.3	51.9	24.6	8.1	4.1	3.3	4.0	3.9	8.3	16.6	29.8	21.9	34.3		
max	231.3	201.6	187.8	159.8	39.3	46.9	24.5	25.3	15.7	17.8	42.1	113.8	231.3	231.3		
min	9.7	4.3	14.4	3.1	0.8	0.1	0.1	0.4	0.2	0.8	3.0	1.6	0.1	0.8		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													263.1	237.2		
max													753.7	756.8		
min													78.5	70.8		



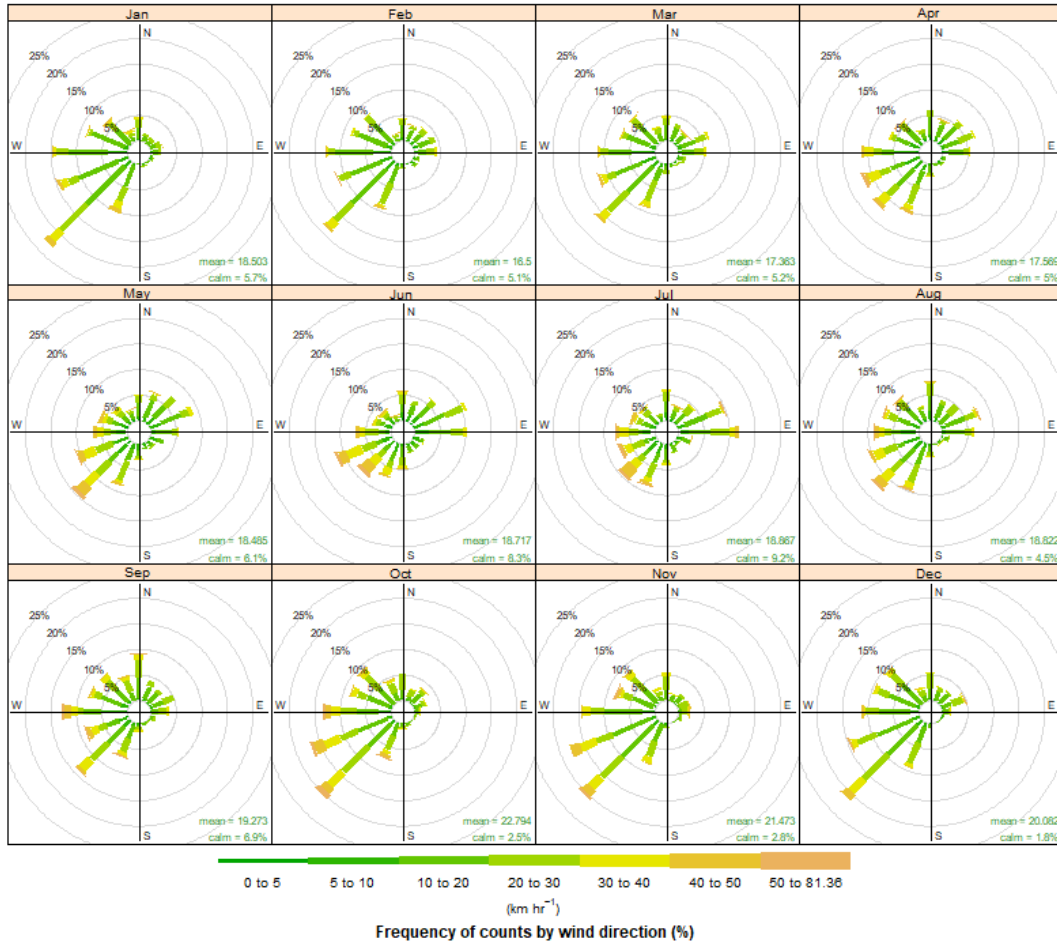
Station Name: Port Taharoa Aws (TRX)      Period: 1995-01-01 - 2021-07-01      Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	12.1	11.0	12.3	20.2	27.1	28.8	30.3	29.5	28.7	28.0	20.9	17.6	266.7	122.1
max	25	29	22	30	31	30	31	31	30	31	30	31	323	178
min	0	0	0	3	4	9	19	11	20	17	6	2	176	72
<b>Moderate</b>														
mean	14.8	12.7	14.4	8.5	3.8	1.1	0.7	1.5	1.3	3.0	8.9	11.8	82.4	74.8
max	23	25	21	17	26	17	12	20	10	14	24	20	139	94
min	6	0	9	0	0	0	0	0	0	0	0	0	43	31
<b>High</b>														
mean	3.1	3.5	3.3	1.0	0.2	0.1	0.0	0.0	0.0	0.0	0.2	1.5	12.8	12.2
max	12	14	15	10	2	3	0	0	0	0	4	11	39	44
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.7	0.8	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.5	2.3
max	4	6	7	2	0	1	0	0	0	0	0	1	16	16
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5
max	3	3	3	2	0	0	0	0	0	0	0	1	9	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	2	1	0	1	0	0	0	0	0	0	0	0	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Waikato (Hauraki/Matamata Piako/Waikato)														
Curing%	70	70	60	40	40	40	40	40	40	40	40	60		
<b>Low</b>														
mean	2.8	2.6	3.2	6.0	8.6	11.2	12.2	10.7	8.9	6.3	4.3	5.7	82.3	30.6
max	9	8	7	12	15	19	19	24	18	14	9	11	113	50
min	0	0	0	2	1	4	1	2	3	1	1	1	51	15
<b>Moderate</b>														
mean	19.5	18.0	25.1	22.3	21.7	18.1	17.7	19.7	20.7	23.4	24.2	23.6	253.9	156.4
max	27	22	29	28	28	26	25	26	27	29	29	28	280	172
min	13	14	18	18	16	10	12	7	10	17	19	19	226	136
<b>High</b>														
mean	8.0	7.3	2.7	1.6	0.8	0.7	1.1	0.6	0.4	1.3	1.5	1.7	27.7	24.0
max	15	12	7	6	5	7	6	4	2	5	5	6	50	44
min	1	2	0	0	0	0	0	0	0	0	0	0	12	10
<b>Very High</b>														
mean	0.7	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.1
max	3	1	1	1	0	0	0	1	0	0	0	0	4	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	1	1	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.9	4.0	4.5	7.6	10.6	13.2	13.7	12.5	11.0	9.1	6.2	7.2	103.3	42.2
max	12	13	9	13	18	20	25	26	20	17	12	14	131	69
min	0	0	0	2	1	6	1	4	3	3	2	1	72	21
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.5	0.1
max	0	1	0	1	1	1	2	1	1	0	0	0	4	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.1	1.5	1.5	2.5	3.5	3.9	3.4	3.0	3.0	1.7	1.5	1.2	27.8	10.8
max	4	7	5	5	8	10	8	7	9	4	4	4	50	24
min	0	0	0	1	0	1	0	0	0	0	0	0	13	6
<b>Very High</b>														
mean	3.3	3.0	2.7	3.1	3.9	3.7	3.8	4.7	3.8	4.3	3.0	3.3	42.5	22.7
max	9	9	7	8	8	9	8	12	8	8	7	8	62	36
min	0	0	0	0	0	0	0	2	0	1	0	0	24	13
<b>Extreme</b>														
mean	9.6	8.4	9.5	8.5	7.8	5.4	5.6	6.7	7.5	8.6	10.3	8.5	96.3	63.0
max	16	15	17	16	15	13	12	16	16	16	14	14	121	81
min	6	4	4	4	1	0	2	1	1	3	7	3	70	36
<b>Very Extreme</b>														
mean	13.1	11.5	12.8	8.3	5.1	3.8	4.3	4.0	4.7	7.3	9.1	10.9	94.9	73.5
max	23	20	22	16	14	18	15	11	12	13	15	17	148	103
min	4	4	6	2	0	0	0	0	0	2	4	0	60	48

Windroses for Port Taharoa Aws (TRX)



TRX station from 1995-01-01 to 2021-07-01



Station Name: Waeranga Raws  
(Waeranga\_Raws)

Period: 2017-10-27 - 2021-07-01

Length of record: 3 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.0	22.6	20.3	17.6	15.0	12.6	12.0	12.5	13.4	15.7	17.8	20.4	17.1	19.6
median	22.0	22.4	20.2	17.6	15.1	12.9	12.2	12.6	13.4	15.6	18.1	20.8	16.9	19.7
max	28.3	28.8	24.9	22.3	19.1	16.5	16.3	15.9	17.9	20.9	23.2	24.8	28.8	28.8
min	14.4	17.3	13.0	11.4	7.9	6.4	6.5	7.4	8.1	9.1	8.9	14.3	6.4	8.9
<b>Relative Humidity, %</b>														
mean	68.3	64.2	68.7	73.3	79.6	85.2	84.5	81.6	75.6	73.7	71.4	68.0	74.2	69.6
median	67.0	60.0	68.0	72.0	79.0	85.0	85.5	80.0	73.0	73.0	70.0	67.5	74.0	69.0
max	97	99	97	100	100	100	100	100	99	100	100	99	100	100
min	38	41	42	50	56	64	65	63	61	42	47	39	38	38
<b>Wind Speed, km/h</b>														
mean	17.6	15.5	16.0	15.4	14.6	15.0	16.0	19.2	20.8	18.1	17.0	16.4	16.6	16.5
median	15.8	14.8	13.9	13.7	12.6	14.0	13.7	17.6	20.2	16.7	15.8	16.7	15.1	15.1
max	47.9	36.7	42.1	43.2	37.8	51.1	42.5	47.9	53.3	47.2	43.2	48.2	53.3	48.2
min	4.0	4.0	2.5	1.1	2.9	2.2	2.5	2.5	2.5	2.2	2.5	4.7	1.1	1.1
<b>24-hr Rainfall, millimetres</b>														
mean	2.3	2.1	1.9	2.1	2.2	5.2	4.3	4.2	1.7	2.7	3.1	2.7	2.8	2.4
median	0.0	0.0	0.0	0.2	0.0	1.1	1.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
max	78.8	46.4	29.4	70.4	35.6	68.8	37.8	23.4	26.4	34.8	47.0	57.0	78.8	78.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	47.8	69.9	55.1	64.1	69.7	168.2	136.0	131.5	51.1	80.7	112.2	107.7	91.2	76.8
max	105.2	179.0	63.4	135.8	110.4	221.4	176.6	152.8	81.6	107.6	150.6	208.6	221.4	208.6
min	9.0	12.2	46.8	13.2	29.4	91.2	102.6	96.2	25.0	42.0	71.2	50.8	9.0	9.0
<b>Seasonal Rainfall, millimetres</b>														
mean													1094.0	478.3
max													1596.8	540.8
min													771.2	377.0
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	77.4	77.6	76.2	72.0	65.8	49.0	48.5	51.2	69.9	68.6	70.1	73.8	67.2	73.8
median	83.9	86.3	82.8	78.9	78.4	50.8	48.2	52.0	76.8	77.7	79.4	81.8	76.4	81.9
max	89.5	88.8	88.9	87.0	85.1	82.4	83.0	82.5	83.6	84.7	87.4	88.3	89.5	89.5
min	9.8	6.5	18.8	7.3	10.9	2.9	6.8	5.7	2.4	2.8	15.8	11.0	2.4	2.8
<b>Duff Moisture Code, DMC</b>														
mean	21.2	40.8	18.9	10.6	10.9	0.7	0.5	0.9	4.8	6.5	9.6	16.1	12.4	17.8
median	17.0	37.7	15.1	9.3	4.6	0.4	0.3	0.4	3.9	6.4	9.1	10.8	6.6	11.7
max	69.0	115.4	58.9	28.3	38.8	4.4	3.0	5.1	14.0	13.1	26.4	54.1	115.4	115.4
min	2.3	0.0	5.7	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	208.5	312.1	329.1	330.8	285.4	147.0	48.3	13.4	25.0	43.2	74.8	150.6	174.5	210.8
median	211.2	279.2	336.8	353.1	287.5	166.1	7.9	5.9	25.6	41.7	70.9	143.2	124.5	183.9
max	442.2	596.0	584.5	505.2	565.9	420.8	261.3	96.8	56.8	99.6	169.3	385.8	596.0	596.0
min	24.5	57.8	131.2	61.4	1.1	1.1	1.2	1.2	1.4	3.6	4.7	6.0	1.1	3.6
<b>Initial Spread Index, ISI</b>														
mean	4.4	4.5	3.6	2.4	2.0	0.7	0.8	1.3	3.0	2.5	2.6	3.1	2.6	3.3
median	4.3	4.7	3.2	2.4	1.7	0.4	0.3	0.5	2.5	2.2	2.4	2.9	2.0	3.0
max	13.1	12.5	16.5	7.4	9.7	4.6	6.0	14.5	15.0	10.3	10.9	11.9	16.5	16.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	32.8	59.7	32.1	19.4	19.3	1.3	0.7	1.2	6.3	9.3	14.1	25.0	19.4	27.7
median	26.2	56.2	27.1	17.2	8.4	0.8	0.5	0.7	5.6	8.9	13.3	18.2	10.8	19.0
max	99.3	155.5	88.1	49.6	66.3	8.6	4.0	7.0	16.6	19.3	38.0	80.2	155.5	155.5
min	4.4	0.0	10.9	0.3	0.0	0.0	0.0	0.0	0.0	0.8	0.1	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	9.1	13.1	7.4	4.0	3.3	0.2	0.3	0.6	2.5	2.5	3.4	6.1	4.6	6.6
median	8.6	12.7	6.1	3.8	2.2	0.1	0.1	0.1	1.3	2.1	2.6	4.4	2.0	4.7
max	30.8	38.0	40.1	14.5	23.5	2.1	3.6	10.5	17.3	10.0	17.2	29.4	40.1	40.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.9	3.6	1.4	0.5	0.4	0.0	0.0	0.0	0.3	0.2	0.4	1.1	0.9	1.3
median	1.2	2.4	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.1	0.4
max	11.7	17.0	18.7	3.1	7.3	0.1	0.3	1.7	4.2	1.6	4.2	10.8	18.7	18.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	69.0	113.8	48.9	17.2	16.7	0.2	0.3	1.5	7.5	7.0	10.5	14.0	25.6	40.1
max	130.1	210.5	68.0	24.3	40.0	0.3	0.9	3.6	17.4	9.0	21.5	22.9	210.5	210.5
min	38.3	7.4	24.3	7.0	1.7	0.1	0.1	0.1	2.6	6.0	3.5	2.2	0.1	2.2
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													306.6	297.0
max													469.6	459.6
min													93.3	165.5

Station Name: Waeranga Raws  
(Waeranga\_Raws)

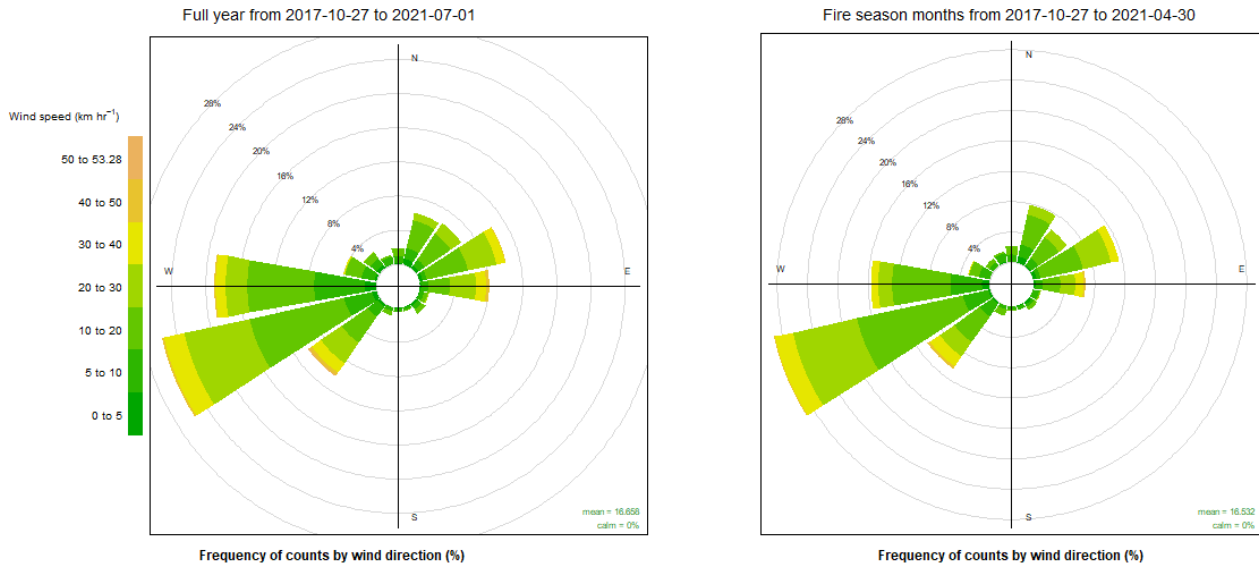
Period: 2017-10-27 - 2021-07-01

Length of record: 3 years

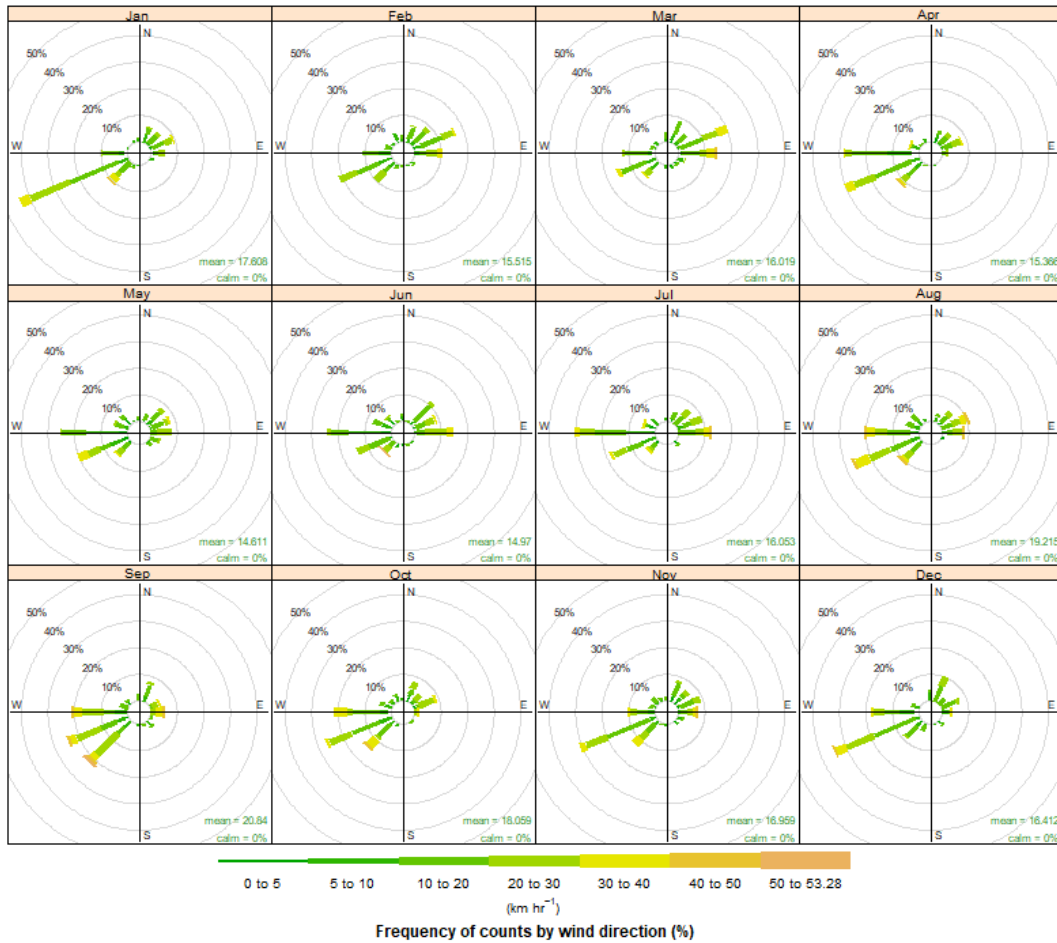
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	8.7	8.7	12.7	16.0	21.3	30.0	31.0	31.0	28.7	28.7	22.3	20.3	259.3	107.3
max	17	23	17	26	31	30	31	31	30	31	28	30	323	119
min	0	1	8	6	8	30	31	31	26	26	12	13	212	91
<b>Moderate</b>														
mean	14.7	6.3	14.7	14.0	8.7	0.0	0.0	0.0	1.3	2.3	7.7	10.7	80.3	79.3
max	21	9	16	24	20	0	0	0	4	5	18	18	125	87
min	11	5	14	4	0	0	0	0	0	0	2	1	39	75
<b>High</b>														
mean	7.3	8.0	2.7	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	19.0
max	18	13	5	0	3	0	0	0	0	0	0	0	32	32
min	1	0	0	0	0	0	0	0	0	0	0	0	3	6
<b>Very High</b>														
mean	0.0	4.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
max	0	9	2	0	0	0	0	0	0	0	0	0	9	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.3	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
max	1	3	1	0	0	0	0	0	0	0	0	0	5	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Waikato (Hauraki/Matamata Piako/Waikato)														
Curing%	70	70	60	40	40	40	40	40	40	40	40	60		
<b>Low</b>														
mean	3.0	3.0	3.7	3.3	9.0	18.7	19.7	17.0	4.7	6.7	7.0	5.7	101.3	30.3
max	7	7	5	8	19	23	24	22	10	9	11	14	155	43
min	0	1	2	1	2	13	12	14	2	5	3	1	69	15
<b>Moderate</b>														
mean	15.7	13.0	24.7	26.7	21.7	11.3	11.3	13.3	24.3	23.3	22.7	25.0	233.0	154.0
max	19	17	26	29	28	17	19	17	28	25	26	30	259	162
min	14	11	24	22	12	7	7	9	20	21	19	17	190	140
<b>High</b>														
mean	12.3	12.3	2.7	0.0	0.3	0.0	0.0	0.7	1.0	1.0	0.3	0.3	31.0	28.0
max	17	17	5	0	1	0	0	2	3	2	1	1	38	38
min	10	4	1	0	0	0	0	0	0	0	0	0	20	17
<b>Very High</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.3	5.0	4.0	4.0	10.0	18.0	20.3	19.0	5.7	7.3	8.0	8.0	112.7	36.7
max	7	12	5	9	20	20	26	22	10	8	13	15	161	47
min	0	1	3	1	3	16	13	16	2	7	3	4	84	21
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.0	0.3	2.0	1.3	3.3	5.7	4.0	2.7	2.7	3.0	1.7	2.0	30.7	12.3
max	3	1	3	2	4	10	6	5	4	3	3	3	38	16
min	0	0	1	1	3	3	1	0	1	3	0	1	24	7
<b>Very High</b>														
mean	1.0	2.7	5.0	5.3	5.0	4.0	3.7	4.3	5.3	4.3	4.3	4.7	49.7	25.7
max	2	5	8	8	9	8	5	6	8	6	5	8	55	29
min	0	1	1	4	3	1	3	3	3	2	4	1	41	24
<b>Extreme</b>														
mean	8.0	5.0	9.7	15.7	9.0	2.0	2.3	2.3	10.0	11.3	10.3	10.3	96.0	70.3
max	10	5	13	20	14	3	5	4	12	14	13	14	111	80
min	6	5	7	13	3	0	1	1	7	9	7	4	70	64
<b>Very Extreme</b>														
mean	16.7	15.3	10.3	3.7	3.7	0.3	0.7	2.7	6.3	5.0	5.7	6.0	76.3	67.3

max	24	21	11	6	5	1	2	5	12	7	10	10	94	81
min	11	5	10	2	2	0	0	0	3	3	3	1	41	58

Windroses for Waeranga Raws (Waeranga)



Waeranga\_Raws station from 2017-10-27 to 2021-07-01



Station Name: Matea Raws (MTE)      Period: 1993-10-19 - 2021-07-01      Length of record: 27 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	18.9	18.9	16.9	14.1	11.2	8.6	7.7	8.6	10.6	12.6	14.7	16.9	13.3	16.2
median	19.1	19.0	16.9	14.2	11.2	8.7	7.8	8.7	10.4	12.7	14.5	17.0	13.0	16.1
max	29.7	28.5	26.7	21.9	19.0	16.5	15.1	17.5	24.9	24.4	29.4	29.2	29.7	29.7
min	9.0	6.4	6.1	4.3	2.3	2.1	0.6	0.4	2.0	2.9	3.8	7.1	0.4	2.9
<b>Relative Humidity, %</b>														
mean	65.3	67.0	69.4	75.6	80.8	82.8	82.2	79.1	75.5	72.1	67.3	68.0	73.7	69.2
median	65.0	66.0	68.0	74.0	80.0	84.0	83.0	79.0	76.0	71.5	66.0	67.0	73.0	68.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	17.0	28.0	23.7	22.0	32.0	32.0	36.0	22.0	32.0	25.0	24.0	26.0	17.0	17.0
<b>Wind Speed, km/h</b>														
mean	19.5	17.8	18.3	17.5	17.6	17.8	18.4	19.0	20.4	22.3	22.1	20.0	19.2	19.7
median	18.6	16.9	16.8	16.2	16.6	17.4	17.6	18.7	20.0	21.5	20.9	19.1	18.3	18.5
max	51.4	50.8	62.6	65.0	62.0	51.4	57.6	59.0	56.7	62.2	59.3	62.8	65.0	65.0
min	0	0	0	0	0	0	0	0	0	2	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	3.1	2.8	2.5	3.3	3.6	4.1	4.2	3.7	3.6	3.4	3.2	3.6	3.4	3.1
median	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.5	0.2	0.2	0.0	0.0	0.2	0.0
max	117.6	64.6	64.0	76.2	78.8	48.8	77.5	64.5	66.0	41.6	62.7	74.7	117.6	117.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	98.8	81.0	76.4	100.1	112.5	122.8	131.2	115.0	108.7	107.0	95.8	112.3	105.1	95.9
max	309.8	254.9	199.8	231.3	192.0	229.9	367.1	268.7	224.1	208.8	246.7	212.9	367.1	309.8
min	6.6	5.8	13.6	27.1	46.6	45.8	27.6	47.2	34.2	34.8	18.8	18.8	5.8	5.8
<b>Seasonal Rainfall, millimetres</b>														
mean													1261.6	666.4
max													1856.0	1013.5
min													680.4	356.0
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	74.0	73.6	72.2	63.2	56.5	49.6	49.0	52.4	59.7	63.4	69.4	69.7	62.8	69.4
median	82.6	82.5	81.1	74.7	63.1	53.1	52.3	56.2	67.6	71.6	78.1	78.2	72.5	78.7
max	94.7	91.3	92.1	90.9	90.2	84.7	84.4	87.9	89.5	91.1	92.6	91.4	94.7	94.7
min	1.5	2.0	0.0	0.0	0.0	0.0	0.3	0.0	0.4	1.7	1.1	2.9	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	15.6	18.8	15.8	7.1	2.4	0.8	0.8	1.1	2.9	4.8	9.4	10.9	7.6	11.8
median	12.6	13.7	10.9	4.7	1.4	0.5	0.4	0.6	2.0	3.1	7.0	8.4	3.5	8.2
max	69.6	99.9	85.0	54.5	13.9	10.3	5.4	9.4	15.2	27.2	49.8	52.5	99.9	99.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	153.2	200.2	218.3	182.1	108.1	43.2	14.6	10.0	11.9	24.4	62.1	102.6	94.5	134.3
median	152.0	181.8	189.0	179.3	58.5	6.7	3.9	4.2	7.9	17.0	53.7	98.5	46.9	103.1
max	357.2	512.6	507.7	535.6	388.0	240.0	202.1	94.5	80.7	121.3	203.1	265.9	535.6	535.6
min	6.0	5.2	3.7	2.2	0.5	0.1	0.0	0.0	0.1	1.5	3.6	4.8	0.0	1.5
<b>Initial Spread Index, ISI</b>														
mean	4.5	3.9	3.4	2.2	1.4	1.0	1.1	1.2	2.0	2.8	3.8	3.4	2.6	3.4
median	3.7	3.4	2.9	1.7	1.0	0.6	0.5	0.7	1.5	2.0	3.0	2.8	1.7	2.7
max	40.0	21.1	22.8	14.5	14.5	10.5	12.2	14.1	13.9	19.0	31.0	29.1	40.0	40.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	23.7	28.8	25.2	12.1	4.0	1.3	1.2	1.5	3.3	6.1	13.0	16.3	11.4	17.8
median	20.3	22.9	18.7	8.4	2.4	0.7	0.6	0.8	2.4	4.2	10.2	13.2	5.1	12.8
max	89.1	134.3	118.6	86.2	24.1	12.0	7.7	12.0	16.3	34.9	61.7	65.5	134.3	134.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	7.9	7.7	6.4	2.9	1.0	0.4	0.5	0.6	1.4	2.6	4.8	5.0	3.4	5.3
median	6.0	6.1	4.4	0.9	0.3	0.1	0.1	0.2	0.5	0.8	3.1	3.6	0.8	3.2
max	56.4	47.0	53.9	29.6	12.1	6.1	9.7	7.5	13.3	20.1	35.9	31.0	56.4	56.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.8	1.7	1.3	0.4	0.1	0.0	0.0	0.0	0.1	0.3	0.8	0.8	0.6	1.0
median	0.7	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.2
max	34.2	24.7	31.6	10.9	2.3	0.7	1.5	1.0	2.6	5.5	15.4	11.9	34.2	34.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	54.9	46.3	40.4	11.4	2.1	0.5	0.6	0.8	3.2	9.3	24.0	26.1	18.3	30.3
max	218.7	245.0	227.7	45.6	12.7	1.3	3.9	4.0	12.3	42.8	71.5	84.2	245.0	245.0
min	9.7	0.3	3.3	0.0	0.1	0.0	0.0	0.0	0.1	0.1	3.4	3.3	0.0	0.0
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													219.7	214.7
max													527.5	513.3
min													73.3	61.5

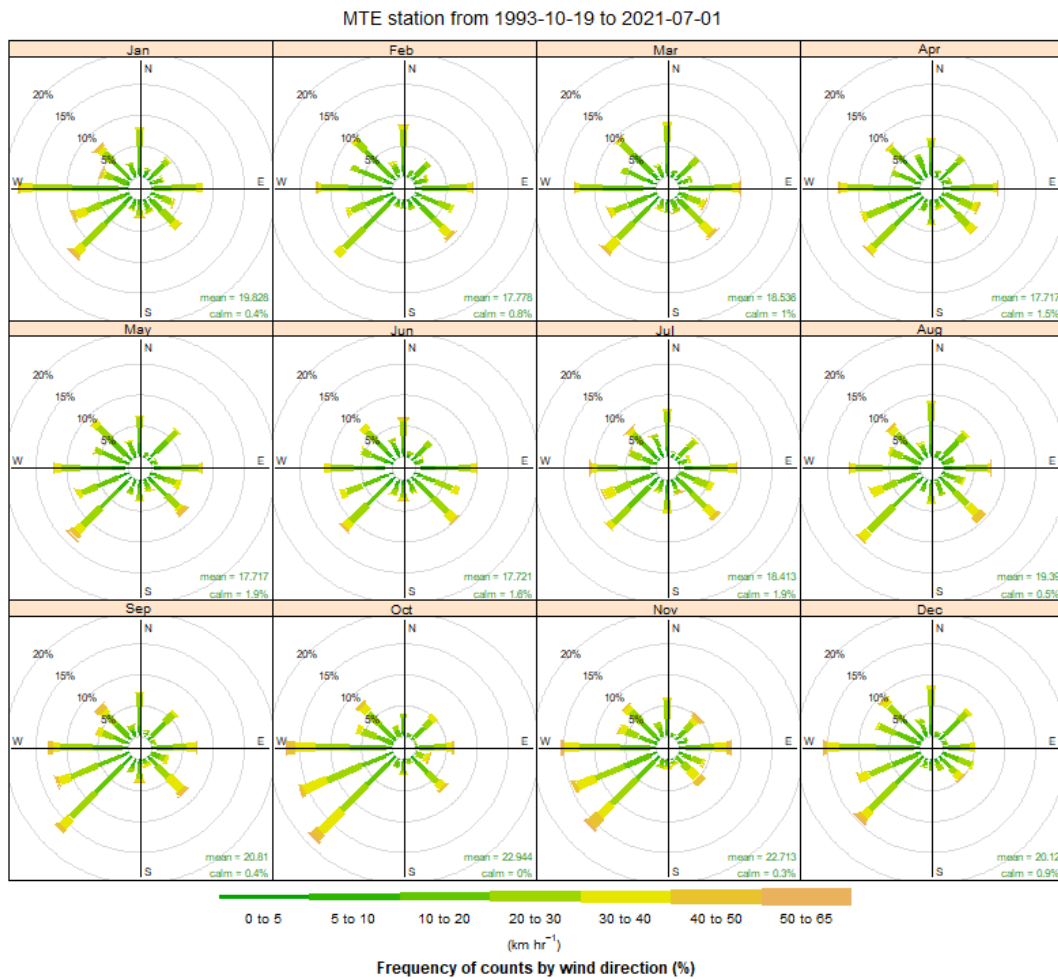
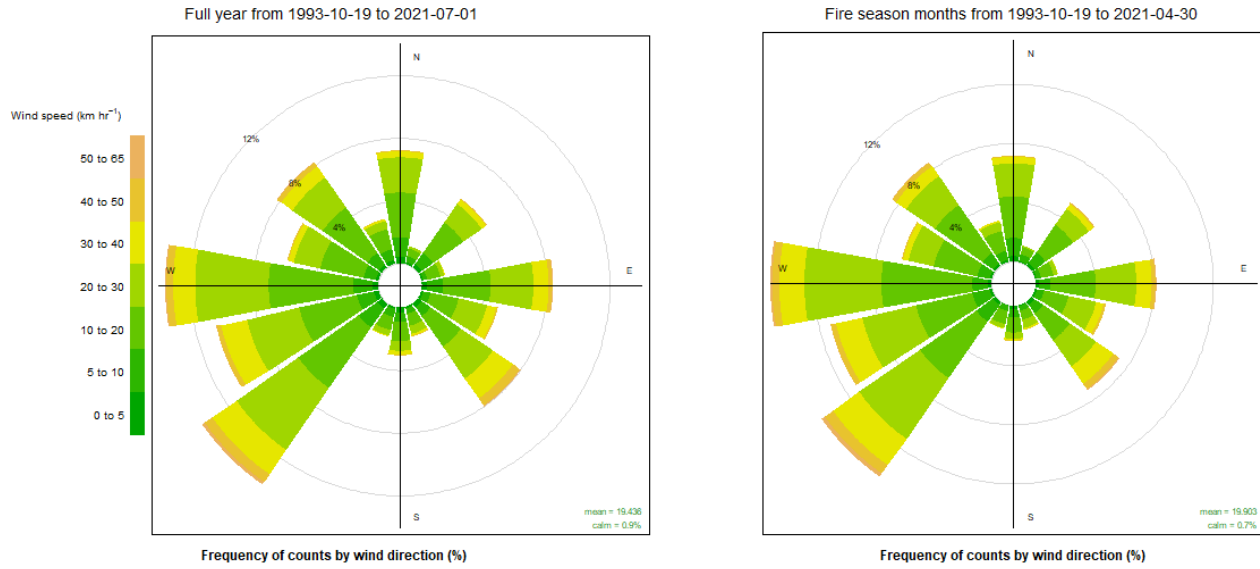
Station Name: Matea Raws (MTE)

Period: 1993-10-19 - 2021-07-01

Length of record: 27 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	14.6	13.1	17.0	23.4	30.4	30.0	31.0	31.0	29.3	27.4	20.6	19.6	287.4	135.0
max	24	29	31	30	31	30	31	31	30	31	30	29	332	176
min	2	0	0	11	23	30	31	31	23	15	1	6	243	89
<b>Moderate</b>														
mean	12.2	11.4	11.3	6.3	0.6	0.0	0.0	0.0	0.7	3.5	8.6	10.1	64.7	63.9
max	19	22	23	19	8	0	0	0	7	16	23	23	108	90
min	4	0	0	0	0	0	0	0	0	0	0	2	30	36
<b>High</b>														
mean	3.1	2.7	2.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.7	1.3	10.1	10.3
max	15	12	13	3	0	0	0	0	0	2	6	8	28	30
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.6	0.7	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.9	2.0
max	7	6	4	2	0	0	0	0	0	0	1	1	9	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
max	6	7	3	0	0	0	0	0	0	0	0	0	8	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	1	1	2	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Central North Island (Central NI inland)														
Curing%	70	70	60	40	40	40	40	40	40	40	40	60		
<b>Low</b>														
mean	3.9	3.9	5.2	9.4	13.9	16.1	17.0	15.3	11.0	9.3	6.0	6.4	117.4	43.6
max	12	15	12	24	23	25	31	25	21	23	15	14	199	84
min	0	0	0	2	5	4	5	6	3	2	1	1	69	26
<b>Moderate</b>														
mean	16.3	16.2	23.9	20.1	16.9	13.7	14.0	15.6	18.3	19.6	20.8	22.1	217.5	139.4
max	25	25	28	28	24	26	26	25	27	29	26	30	259	157
min	8	8	18	6	8	5	0	6	8	8	14	16	154	107
<b>High</b>														
mean	9.6	7.8	1.9	0.4	0.3	0.1	0.1	0.1	0.7	2.1	3.1	2.4	28.7	27.5
max	22	19	8	4	2	2	1	1	3	10	9	9	53	49
min	1	0	0	0	0	0	0	0	0	0	0	0	12	6
<b>Very High</b>														
mean	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.6	1.6
max	10	3	0	0	0	0	0	0	0	0	1	1	12	13
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	2	0	0	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	6.3	5.4	6.2	10.5	14.4	16.9	17.9	16.6	12.2	11.4	7.6	7.9	133.3	54.9
max	14	18	14	25	25	26	31	25	23	24	15	14	212	91
min	0	0	1	2	7	7	7	7	4	4	1	1	88	30
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	0	1	1	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.5	1.6	1.8	2.5	3.3	3.6	3.0	3.4	2.3	1.9	1.6	1.5	28.0	12.2
max	4	5	5	7	7	8	10	7	5	5	6	4	38	24
min	0	0	0	0	0	0	0	0	0	0	0	0	13	4
<b>Very High</b>														
mean	2.7	2.7	3.1	4.0	5.6	4.5	3.7	4.0	4.1	3.1	2.7	3.4	43.7	21.7
max	5	9	7	10	12	8	9	7	9	8	7	7	68	33
min	0	0	0	0	1	1	0	0	2	0	0	0	26	7
<b>Extreme</b>														
mean	6.7	7.5	10.3	8.2	6.1	4.0	5.2	5.4	7.3	7.1	7.3	7.9	83.0	55.3
max	14	12	18	18	17	14	15	14	14	12	12	15	100	77
min	2	3	5	0	1	0	0	1	1	2	3	4	50	28
<b>Very Extreme</b>														
mean	13.8	11.0	9.5	4.8	1.6	1.0	1.1	1.6	4.1	7.5	10.8	10.3	77.2	68.1
max	24	23	22	14	8	4	7	8	12	17	19	21	125	102
min	3	0	1	0	0	0	0	0	0	0	3	4	34	25

Windroses for Matea Raws (MTE)





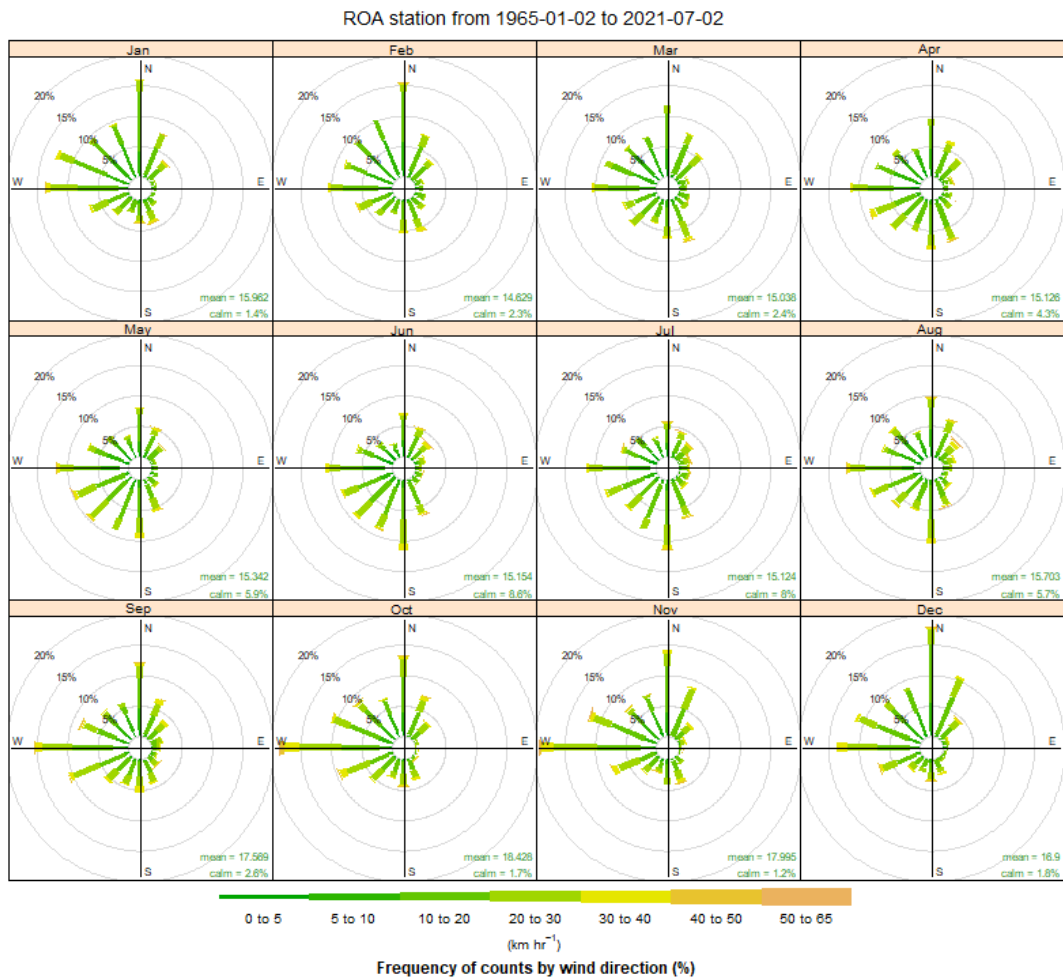
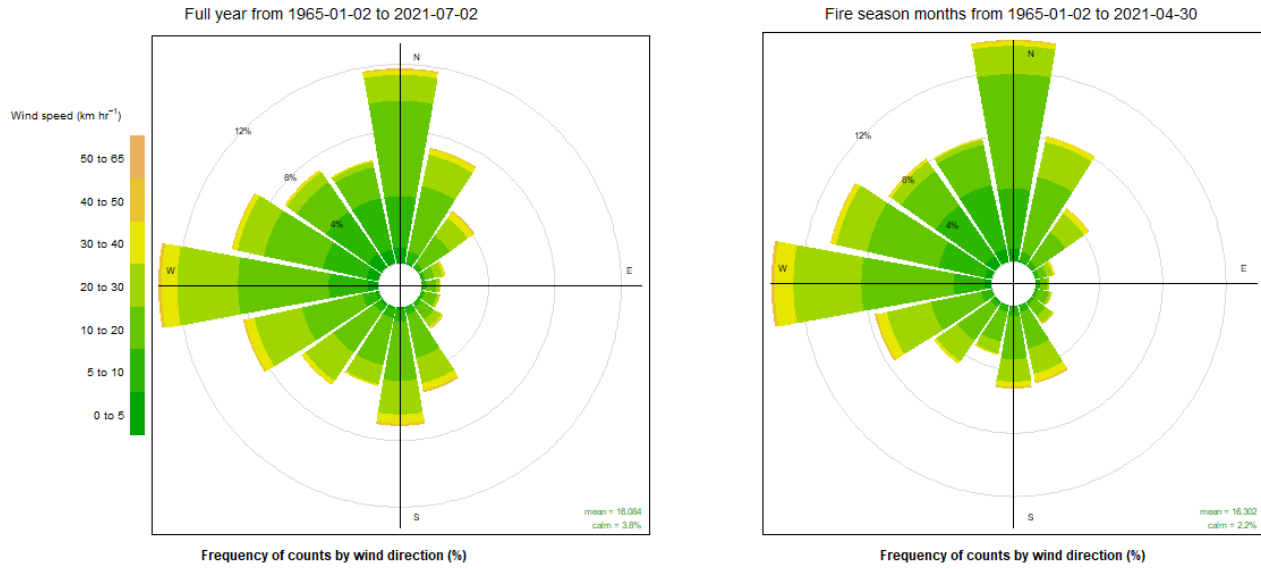
Station Name: Rotorua Aero Aws (ROA)      Period: 1965-01-02 - 2021-07-02      Length of record: 56 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	20.8	20.9	19.2	16.5	13.6	11.2	10.4	11.3	12.9	14.9	17.0	19.1	15.6	18.3
median	21.0	21.0	19.0	16.6	13.8	11.0	10.4	11.1	13.0	15.0	17.0	19.0	15.4	18.2
max	29.0	29.3	25.6	23.5	22.1	18.0	25.0	25.0	21.0	21.0	25.4	27.0	29.3	29.3
min	12.0	10.5	10.0	7.5	4.7	4.0	4.1	4.0	5.0	6.6	9.0	11.1	4.0	6.6
<b>Relative Humidity, %</b>														
mean	64.4	64.9	67.2	70.6	74.8	77.0	76.4	74.5	71.2	68.6	65.8	66.6	70.2	66.9
median	63.0	63.0	65.0	69.0	74.0	76.7	76.0	74.5	70.0	67.6	63.7	64.2	68.9	65.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	22.0	31.0	33.0	33.6	35.0	29.4	41.0	28.1	15.3	23.8	26.3	24.9	15.3	22.0
<b>Wind Speed, km/h</b>														
mean	15.9	14.7	14.9	14.9	15.2	15.2	15.0	15.7	17.6	18.4	18.1	17.0	16.0	16.3
median	15.0	13.0	13.1	14.8	15.0	15.0	15.0	15.0	17.0	19.0	18.7	17.0	15.0	15.0
max	57.2	48.0	59.0	54.0	65.0	56.0	54.0	54.0	59.0	59.4	56.0	48.0	65.0	59.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	3.2	3.5	3.6	4.0	4.0	4.4	4.3	4.6	3.9	3.4	3.1	4.0	3.8	3.5
median	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0
max	163.8	198.1	115.6	142.4	148.2	110.3	117.0	143.8	99.8	111.8	88.4	106.2	198.1	198.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	96.8	97.8	110.5	120.0	125.4	130.9	132.9	142.8	118.1	105.8	92.7	124.8	116.6	106.9
max	423.2	302.8	378.6	360.0	355.1	254.1	344.0	331.1	313.9	345.7	310.0	299.4	423.2	423.2
min	4.3	4.8	9.6	9.0	27.5	36.0	29.4	28.1	35.2	24.6	12.8	32.2	4.3	4.3
<b>Seasonal Rainfall, millimetres</b>														
mean													1398.6	745.5
max													2011.6	1275.8
min													917.6	420.9
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	76.3	75.8	74.2	70.5	66.0	60.1	60.7	60.9	65.5	69.5	73.1	72.4	68.7	73.1
median	84.0	83.9	83.1	80.5	75.9	68.6	68.8	67.7	73.7	77.2	81.0	81.0	78.0	81.8
max	92.9	91.0	90.7	89.0	88.2	86.9	85.4	90.9	86.7	89.0	90.4	90.5	92.9	92.9
min	0.0	2.3	0.0	0.0	0.0	0.8	0.0	1.9	0.0	1.4	4.4	1.5	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	19.8	22.0	15.9	10.3	4.4	2.0	1.7	2.0	3.8	6.6	11.3	13.0	9.4	14.1
median	15.3	16.9	11.9	7.6	3.5	1.3	1.1	1.5	3.1	5.7	9.6	11.4	5.5	10.3
max	80.0	99.9	97.6	57.6	21.8	14.1	12.5	11.7	18.4	29.4	42.2	49.6	99.9	99.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	163.8	208.5	184.6	135.7	62.1	22.4	9.4	9.2	12.1	29.0	70.0	106.0	84.1	127.9
median	148.6	201.3	162.8	113.1	35.1	9.5	6.2	6.6	9.4	23.9	66.9	105.7	38.5	97.3
max	442.8	534.0	597.9	555.8	392.4	206.6	101.7	62.3	47.4	102.2	214.5	268.9	597.9	597.9
min	6.8	4.9	4.1	3.0	0.6	0.6	0.7	0.6	0.6	2.3	4.4	5.4	0.6	2.3
<b>Initial Spread Index, ISI</b>														
mean	4.1	3.7	3.3	2.6	2.0	1.6	1.5	1.6	2.2	2.8	3.4	3.3	2.7	3.3
median	3.6	3.5	2.9	2.2	1.6	1.1	1.1	1.2	1.7	2.2	2.9	2.8	2.1	2.8
max	30.3	23.1	23.6	30.4	20.7	17.4	13.1	16.4	15.1	18.9	21.5	17.3	30.4	30.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	29.0	33.4	24.7	15.9	6.6	2.8	2.1	2.5	4.2	8.1	15.4	19.0	13.6	20.7
median	23.4	27.0	18.9	11.9	5.0	1.8	1.5	1.8	3.5	7.0	13.8	16.8	7.6	15.4
max	107.8	123.4	138.6	86.6	35.1	18.4	13.6	16.0	18.7	31.5	56.6	65.6	138.6	138.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	8.1	8.1	6.0	3.8	1.8	0.9	0.7	0.8	1.5	2.8	4.8	5.3	3.7	5.5
median	6.6	6.5	4.7	2.4	0.7	0.4	0.4	0.4	0.7	1.6	3.8	4.1	1.3	3.9
max	50.1	43.6	45.7	28.0	17.6	13.2	11.4	13.9	13.6	20.2	29.8	32.5	50.1	50.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.7	1.7	1.0	0.5	0.2	0.1	0.0	0.0	0.1	0.3	0.7	0.9	0.6	1.0
median	0.8	0.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.0	0.3
max	27.7	21.7	23.6	9.9	4.3	2.6	2.0	2.9	2.8	5.5	11.0	12.9	27.7	27.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	54.1	47.8	33.1	15.9	4.7	1.8	1.2	1.4	3.2	9.1	21.0	26.8	18.3	29.7
max	203.2	201.9	167.4	61.7	19.0	9.5	8.6	4.8	11.0	29.8	61.0	80.8	203.2	203.2
min	3.4	4.0	4.6	0.6	0.5	0.1	0.0	0.1	0.2	0.8	4.1	1.3	0.0	0.6
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													220.1	207.6
max													465.8	500.1
min													55.5	60.7

Station Name: Rotorua Aero Aws (ROA)      Period: 1965-01-02 - 2021-07-02      Length of record: 56 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	12.7	11.9	16.4	21.3	29.3	29.7	30.9	30.9	29.6	26.8	18.7	17.7	275.8	125.4
max	29	29	31	30	31	30	31	31	30	31	29	31	334	177
min	0	0	2	5	17	26	28	28	23	16	2	2	224	77
<b>Moderate</b>														
mean	13.7	12.1	12.5	8.2	1.7	0.3	0.1	0.1	0.4	4.2	10.8	12.2	76.3	73.6
max	23	25	25	24	14	4	3	3	7	14	23	29	114	108
min	2	0	0	0	0	0	0	0	0	0	1	0	31	36
<b>High</b>														
mean	3.9	3.6	1.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	11.1	11.2
max	16	17	10	7	0	0	0	0	0	1	5	6	32	38
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.5	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.5	1.5
max	5	6	4	1	0	0	0	0	0	0	1	2	8	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
max	3	4	2	0	0	0	0	0	0	0	0	1	5	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	1	0	1	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Central North Island (Bay of Plenty coastal)														
Curing%	70	75	80	75	70	60	50	65	70	75	85	85		
<b>Low</b>														
mean	3.1	3.2	3.9	5.3	7.6	12.1	11.3	10.7	7.3	5.2	3.2	4.1	76.9	27.9
max	10	10	11	13	17	20	21	23	14	12	13	11	114	45
min	0	0	0	0	1	4	3	4	2	0	0	0	48	11
<b>Moderate</b>														
mean	18.6	15.3	17.1	19.8	21.5	17.7	19.5	19.7	20.3	19.8	15.1	14.7	219.0	120.3
max	28	23	25	28	28	25	28	27	26	27	22	22	260	140
min	5	6	10	11	13	10	10	8	14	14	7	6	181	94
<b>High</b>														
mean	8.7	9.2	9.5	4.7	1.9	0.2	0.3	0.5	2.3	5.7	10.4	10.9	64.4	59.3
max	22	21	19	13	7	2	3	4	10	12	21	22	94	85
min	0	2	1	0	0	0	0	0	0	1	4	2	22	29
<b>Very High</b>														
mean	0.5	0.5	0.5	0.2	0.1	0.0	0.0	0.0	0.1	0.3	1.1	1.2	4.4	4.2
max	4	4	2	3	2	0	0	0	1	4	4	7	16	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.5	0.5
max	1	1	1	2	0	0	0	0	0	0	3	2	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.7	4.4	5.6	7.2	9.6	12.3	12.4	12.2	9.9	8.1	5.7	6.7	98.9	42.3
max	14	13	14	17	17	22	25	24	18	17	13	18	144	67
min	0	0	1	1	3	5	5	5	4	2	0	0	72	22
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.1
max	0	0	0	0	1	1	1	1	1	1	0	1	2	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.1	2.1	2.1	2.3	3.5	4.1	4.4	4.2	2.8	2.3	1.7	2.2	33.9	14.8
max	7	6	6	6	7	9	10	9	6	6	5	5	47	21
min	0	0	0	0	0	0	0	0	0	0	0	0	18	7
<b>Very High</b>														
mean	2.8	2.7	3.2	4.4	5.8	5.2	5.5	5.8	4.9	4.2	3.8	3.6	51.8	24.6
max	8	7	9	11	12	9	11	15	10	10	9	9	64	41
min	0	0	0	1	1	2	1	0	1	1	0	0	35	10
<b>Extreme</b>														
mean	8.5	8.3	11.1	10.4	8.6	6.0	6.6	6.5	8.2	9.0	9.2	8.8	101.3	65.4
max	15	15	18	19	16	14	14	15	17	14	15	16	122	88
min	0	2	5	4	2	0	0	1	2	4	4	0	72	51
<b>Very Extreme</b>														
mean	12.9	10.9	8.9	5.7	3.5	2.2	2.0	2.2	4.2	7.3	9.6	9.7	79.2	65.1
max	29	24	19	13	10	8	12	7	13	15	22	23	117	95
min	1	2	0	0	0	0	0	0	0	1	4	1	25	28

### Windroses for Rotorua Aero Aws (ROA)



Station Name: Tauranga Aero SYNOP  
(TGA)

Period: 1971-01-02 - 2021-07-01

Length of record: 50 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.1	22.3	21.1	18.8	16.2	13.8	13.0	13.7	15.1	16.7	18.5	20.5	17.6	20.0
median	22.0	22.3	21.0	19.0	16.3	14.0	13.0	13.8	15.0	17.0	18.4	20.6	17.5	20.0
max	29.8	29.9	27.7	25.5	22.4	20.0	18.1	20.4	21.0	23.6	27.6	27.2	29.9	29.9
min	14.3	15.0	12.7	10.1	7.0	6.0	6.0	6.9	7.1	7.6	11.4	12.7	6.0	7.6
<b>Relative Humidity, %</b>														
mean	62.8	63.2	64.1	66.5	69.2	71.9	70.6	69.4	68.2	66.9	64.5	64.9	66.9	64.7
median	61.0	61.2	62.0	65.0	68.0	70.8	69.7	68.1	67.0	65.4	63.0	63.8	66.0	63.2
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	21.0	30.0	31.0	33.0	33.0	41.0	25.7	34.0	36.0	28.0	22.0	20.2	20.2	20.2
<b>Wind Speed, km/h</b>														
mean	18.9	17.4	17.3	16.3	15.9	15.1	16.3	17.3	19.7	21.5	20.5	19.6	18.0	18.8
median	18.5	16.7	16.7	15.0	15.0	14.8	15.0	16.7	19.0	20.0	19.0	19.0	17.0	18.5
max	63.0	46.0	56.0	57.6	56.0	57.0	65.0	72.0	61.2	65.0	56.0	61.0	72.0	65.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	2.6	2.8	3.6	4.0	3.5	4.1	4.2	3.7	3.1	2.8	2.4	3.2	3.3	3.1
median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
max	174.4	113.5	178.4	173.8	239.6	91.8	102.8	68.6	91.6	80.6	97.4	126.2	239.6	178.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	81.2	79.4	113.6	118.7	106.6	120.6	129.1	113.3	92.2	86.3	70.9	98.0	100.8	92.6
max	346.6	261.9	472.8	311.2	618.2	271.0	323.8	272.4	263.5	244.3	194.5	283.2	618.2	472.8
min	4.0	5.8	15.0	16.4	28.4	36.2	27.2	39.1	27.6	15.9	9.2	13.5	4.0	4.0
<b>Seasonal Rainfall, millimetres</b>														
mean													1209.8	646.7
max													1682.6	935.8
min													758.0	277.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	79.0	78.6	76.7	73.8	71.4	64.8	65.3	66.9	70.3	73.3	76.1	76.3	72.7	76.2
median	85.4	85.3	84.5	82.7	80.6	74.0	73.6	74.4	78.9	81.1	83.3	83.6	81.5	83.9
max	93.5	91.5	91.4	90.0	89.1	86.8	86.9	88.4	88.7	90.1	92.2	94.0	94.0	94.0
min	6.9	6.4	3.4	1.1	0.0	0.0	0.8	5.9	0.0	7.4	7.3	0.0	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	25.5	28.7	19.6	13.8	7.5	3.3	2.8	3.7	6.3	9.5	15.0	18.6	12.8	18.6
median	21.7	22.4	15.5	10.3	5.9	2.5	2.0	2.7	5.4	8.2	13.0	16.4	8.2	14.3
max	85.0	132.5	102.6	67.2	37.4	22.7	12.3	20.5	24.9	39.6	64.3	78.7	132.5	132.5
min	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	221.5	269.3	223.2	174.4	102.6	42.4	16.3	13.8	20.2	42.7	99.8	159.2	115.2	169.6
median	216.4	257.9	195.3	145.8	71.3	19.9	9.9	9.6	17.4	38.8	97.2	159.1	66.7	143.0
max	522.9	644.7	697.8	762.6	681.6	426.6	197.7	81.9	77.5	146.1	261.6	380.1	762.6	762.6
min	7.0	5.9	4.4	3.4	1.9	1.1	0.9	1.2	1.4	2.4	4.9	6.2	0.9	2.4
<b>Initial Spread Index, ISI</b>														
mean	5.8	5.2	4.6	3.7	3.0	2.1	2.2	2.4	3.3	4.3	4.9	5.0	3.9	4.8
median	5.3	4.8	4.1	3.2	2.4	1.5	1.6	1.8	2.7	3.5	4.2	4.3	3.0	4.2
max	50.3	29.5	28.7	28.2	26.2	18.7	22.0	18.3	26.9	29.0	32.6	33.9	50.3	50.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	38.3	43.4	30.5	21.3	11.5	4.9	3.5	4.3	7.0	11.8	21.0	27.6	18.7	27.6
median	33.5	36.1	24.6	16.1	9.0	3.6	2.6	3.2	6.2	10.4	18.7	25.5	11.7	21.5
max	120.9	174.4	147.9	104.5	65.3	25.4	17.8	25.3	24.9	46.1	74.4	98.4	174.4	174.4
min	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	12.5	12.0	8.9	6.0	3.5	1.5	1.4	1.7	3.0	5.0	7.7	9.1	6.0	8.7
median	11.1	10.4	7.3	4.6	2.3	0.6	0.6	0.7	2.0	3.7	6.5	8.1	3.4	6.9
max	68.0	62.6	48.2	35.9	28.6	20.0	20.0	13.6	27.5	32.5	50.7	66.2	68.0	68.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	3.4	3.2	2.0	1.1	0.5	0.1	0.1	0.1	0.3	0.8	1.6	2.0	1.3	2.0
median	1.9	1.7	0.9	0.4	0.1	0.0	0.0	0.0	0.1	0.3	0.7	1.1	0.2	0.8
max	47.6	41.1	25.9	15.4	10.3	5.4	5.5	2.8	9.6	12.9	28.4	45.4	47.6	47.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	107.9	91.2	61.9	32.4	14.0	4.2	3.4	4.6	9.9	24.1	48.2	63.9	38.8	61.4
max	349.0	360.1	264.3	118.4	46.1	18.9	15.7	15.7	27.7	67.7	199.2	246.1	360.1	360.1
min	7.8	14.4	6.0	1.4	2.4	0.6	0.1	0.4	0.6	2.8	4.1	7.0	0.1	1.4
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													465.6	425.8
max													1016.2	1046.2
min													186.5	166.0

Station Name: Tauranga Aero SYNOP  
(TGA)

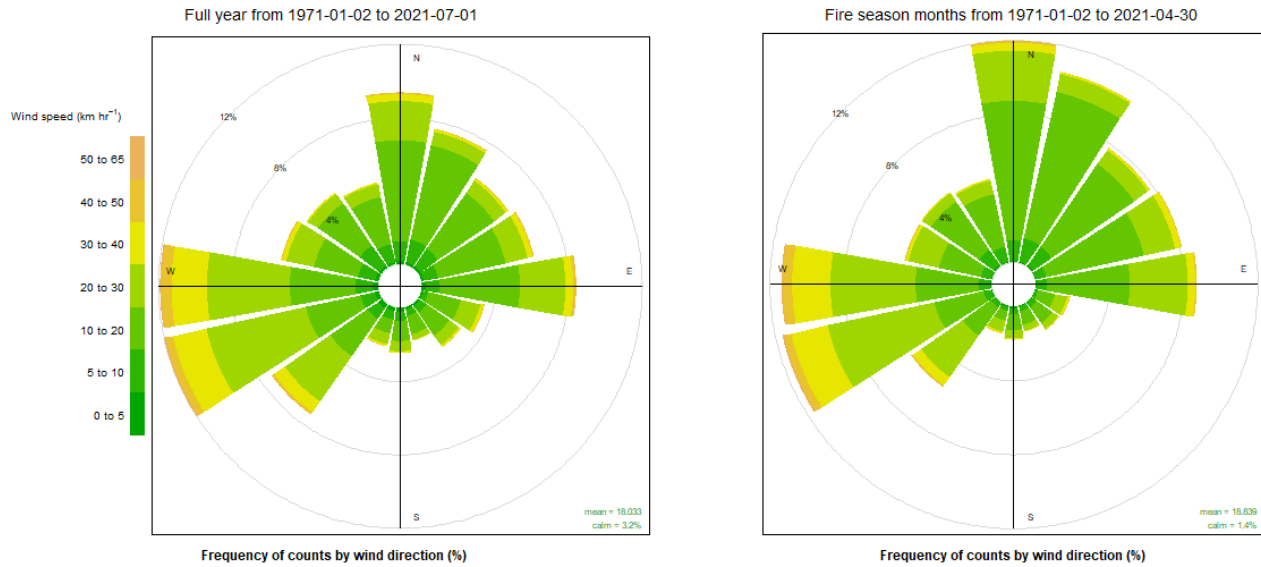
Period: 1971-01-02 - 2021-07-01

Length of record: 50 years

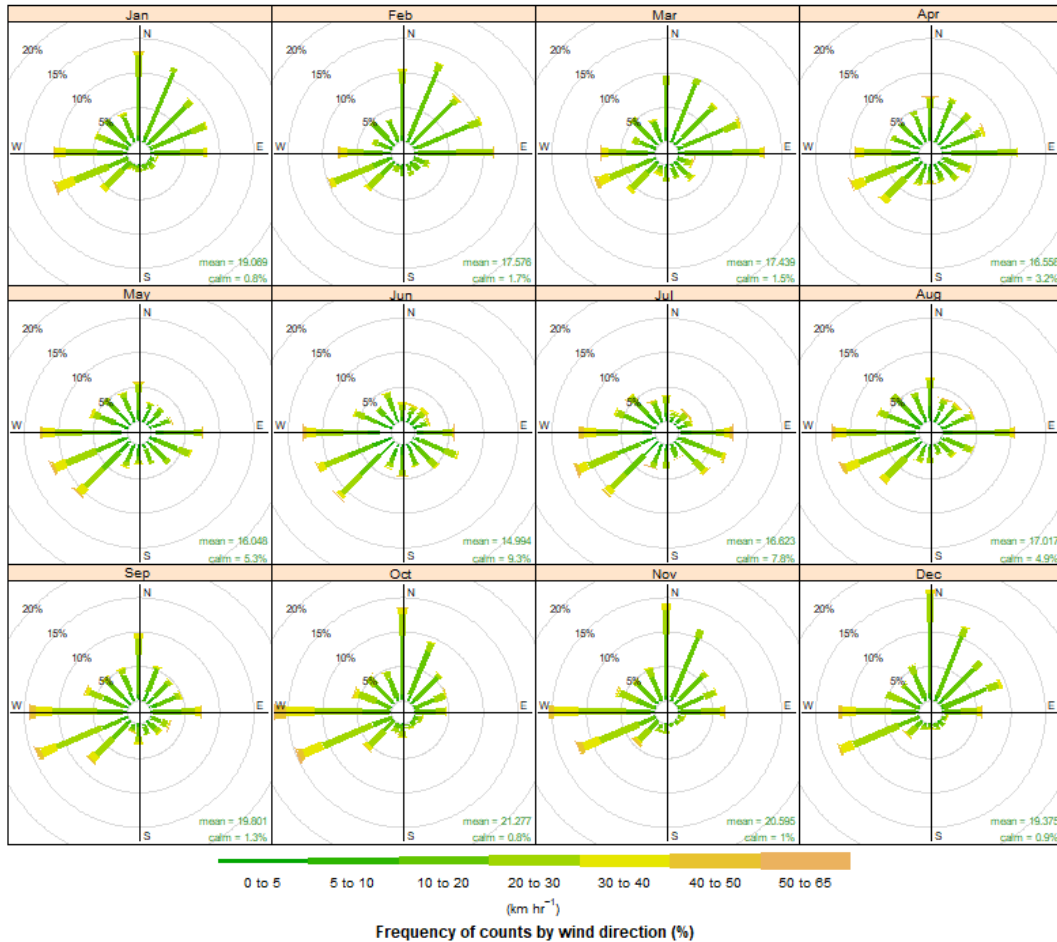
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	8.5	7.8	12.0	16.4	24.4	28.9	30.6	29.9	26.0	20.6	13.0	11.0	229.0	89.5
max	27	22	28	30	31	30	31	31	30	31	28	28	275	127
min	0	0	0	2	13	22	25	21	16	3	2	0	173	38
<b>Moderate</b>														
mean	12.4	11.7	14.1	11.3	6.3	1.1	0.4	1.1	3.9	9.9	14.4	15.1	101.8	88.9
max	24	21	24	20	16	8	6	10	14	26	23	25	136	120
min	4	0	3	0	0	0	0	0	0	0	2	3	62	57
<b>High</b>														
mean	6.5	5.7	3.4	2.0	0.2	0.0	0.0	0.0	0.0	0.5	2.0	3.9	24.3	23.9
max	20	15	16	14	4	0	0	0	1	6	10	12	54	57
min	0	0	0	0	0	0	0	0	0	0	0	0	3	4
<b>Very High</b>														
mean	2.2	1.9	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	6.4	6.3
max	8	9	10	3	2	0	0	0	0	0	3	6	21	23
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.2	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	3.2	3.2
max	8	9	7	0	0	0	0	0	0	0	4	3	14	14
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
max	4	5	1	0	0	0	0	0	0	0	1	2	7	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Central North Island (Bay of Plenty coastal)														
Curing%	70	75	80	75	70	60	50	65	70	75	85	85		
<b>Low</b>														
mean	2.5	2.2	3.1	4.1	5.0	9.3	8.6	7.3	4.9	3.6	2.4	2.5	55.5	20.5
max	15	9	10	14	12	19	16	14	12	13	8	10	80	37
min	0	0	0	0	1	5	1	2	1	0	0	0	35	6
<b>Moderate</b>														
mean	12.6	10.6	12.1	16.4	21.2	20.1	21.2	21.8	19.0	15.7	10.5	10.9	192.0	89.0
max	23	20	21	24	28	25	29	27	26	26	22	21	235	122
min	4	1	3	8	15	10	14	16	11	6	4	2	168	70
<b>High</b>														
mean	13.9	13.6	13.6	8.9	4.6	0.6	1.1	1.9	5.9	10.0	13.3	13.6	100.9	86.6
max	23	23	22	16	11	4	5	6	15	24	23	21	136	112
min	4	4	4	0	0	0	0	0	0	0	4	5	63	54
<b>Very High</b>														
mean	1.9	1.7	1.9	0.6	0.2	0.0	0.1	0.0	0.2	1.7	2.7	3.1	14.1	13.5
max	10	5	11	3	2	0	2	1	2	6	9	11	28	27
min	0	0	0	0	0	0	0	0	0	0	0	0	4	2
<b>Extreme</b>														
mean	0.2	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.0	0.9	2.8	2.7
max	2	2	2	1	1	0	0	0	1	1	7	6	8	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.4	3.4	4.3	5.7	6.9	10.1	10.5	9.6	7.1	5.7	4.1	4.4	75.1	31.2
max	15	12	11	15	14	17	18	17	18	14	11	13	101	49
min	0	0	0	1	2	4	2	4	2	0	0	0	49	14
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.1
max	0	1	1	1	0	1	1	1	0	0	0	0	2	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.0	1.2	1.5	1.9	2.4	3.2	3.0	3.2	1.6	1.1	1.3	1.1	22.6	9.1
max	4	4	6	6	6	8	8	9	5	6	6	5	41	20
min	0	0	0	0	0	0	0	0	0	0	0	0	14	2
<b>Very High</b>														
mean	2.2	1.8	2.9	2.8	4.3	4.9	4.8	4.4	3.9	3.3	2.9	2.9	41.3	18.9
max	6	5	7	8	10	11	9	11	9	8	8	7	58	32
min	0	0	0	0	0	1	1	0	0	0	0	0	29	11
<b>Extreme</b>														
mean	5.6	5.6	7.5	9.2	10.2	7.5	8.5	8.1	8.3	8.2	6.7	6.9	92.2	49.5
max	12	13	14	18	16	13	20	15	15	17	13	13	114	71
min	0	0	2	4	3	3	2	1	1	2	2	1	71	31
<b>Very Extreme</b>														
mean	18.9	16.3	14.8	10.3	7.2	4.2	4.1	5.7	9.1	12.8	14.9	15.7	133.9	103.4

max	28	27	27	19	14	10	18	14	21	25	24	28	186	139
min	7	5	4	0	0	1	0	0	1	3	1	4	95	62

Windroses for Tauranga Aero SYNOP (TGA)



TGA station from 1971-01-02 to 2021-07-01



Station Name: Waihi Gold Raws (WGO)													Period: 1998-05-31 - 2021-07-01		Length of record: 23 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	22.1	22.0	20.6	18.4	15.8	13.5	12.5	13.3	14.8	16.4	18.1	20.2	17.3	19.7		
median	22.1	22.2	20.6	18.4	15.9	13.6	12.6	13.4	14.8	16.4	18.1	20.3	17.1	19.8		
max	29.9	28.8	27.4	26.7	22.2	20.1	17.8	20.3	20.7	26.0	27.7	27.5	29.9	29.9		
min	14.5	13.5	13.3	10.3	6.8	7.0	6.0	6.0	7.0	5.3	9.9	10.9	5.3	5.3		
<b>Relative Humidity, %</b>																
mean	63.1	64.5	65.4	68.8	72.0	74.2	74.0	70.7	67.9	66.3	64.4	65.6	68.1	65.4		
median	61.0	61.4	63.0	67.0	71.0	73.2	73.0	70.0	66.7	65.0	62.0	63.0	66.4	63.0		
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
min	32.0	29.0	33.0	39.0	41.0	46.5	45.0	43.0	31.0	33.0	34.0	27.0	27.0	27.0		
<b>Wind Speed, km/h</b>																
mean	14.8	13.4	13.2	12.4	12.6	13.0	14.2	14.6	16.1	17.4	16.6	15.4	14.5	14.8		
median	13.8	12.6	12.0	11.0	11.1	11.5	12.6	13.3	14.2	15.6	15.7	14.1	13.2	13.5		
max	48.3	40.0	49.4	42.9	65.9	50.0	45.4	63.8	59.4	69.1	48.2	43.2	69.1	69.1		
min	1.5	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.8	0.0	0.0		
<b>24-hr Rainfall, millimeters</b>																
mean	2.7	4.5	4.8	5.8	5.6	7.0	7.3	5.9	4.8	3.8	4.0	4.8	5.1	4.3		
median	0.0	0.0	0.0	0.0	0.2	0.4	0.4	1.0	0.2	0.2	0.0	0.0	0.2	0.0		
max	115.2	137.4	232.4	145.2	108.8	125.0	176.0	107.0	186.6	76.2	151.4	164.4	232.4	232.4		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	85.8	125.1	153.1	178.1	176.7	209.4	219.0	176.3	149.3	118.9	114.4	148.7	154.6	132.0		
max	240.8	332.0	515.2	417.8	401.6	422.8	502.4	319.4	455.6	254.0	427.0	422.8	515.2	515.2		
min	0.4	17.6	13.4	29.4	36.2	36.2	17.6	69.4	52.0	34.4	29.0	37.4	0.4	0.4		
<b>Seasonal Rainfall, millimetres</b>																
mean													1854.8	923.2		
max													2453.8	1405.2		
min													963.6	334.6		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	77.6	74.2	73.8	69.3	63.4	59.1	58.4	60.3	66.7	69.6	72.8	72.0	68.0	72.8		
median	85.2	84.6	83.1	79.2	71.2	65.4	63.9	63.3	73.6	77.4	81.5	81.6	77.3	82.1		
max	90.6	89.9	90.9	88.4	86.7	85.4	86.5	86.8	88.0	88.2	90.4	89.6	90.9	90.9		
min	0.9	3.4	4.3	2.1	2.6	0.0	0.0	3.7	3.4	0.0	2.2	0.0	0.0	0.0		
<b>Duff Moisture Code, DMC</b>																
mean	23.7	25.6	17.2	10.4	4.4	1.9	1.8	2.1	4.8	7.0	11.9	14.0	10.3	15.6		
median	19.4	18.1	11.9	6.5	2.9	1.2	1.1	1.5	4.1	5.9	10.4	12.6	5.7	11.1		
max	95.2	107.3	80.3	49.8	22.4	11.4	11.4	13.5	19.9	26.3	33.5	56.6	107.3	107.3		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Drought Code, DC</b>																
mean	178.2	204.8	163.3	128.0	63.7	22.3	10.1	8.6	14.8	28.2	68.7	112.0	82.7	125.4		
median	166.0	182.9	109.9	77.2	15.5	8.8	5.8	6.1	11.5	24.9	64.0	103.2	31.8	85.3		
max	451.2	613.4	673.6	703.8	591.3	236.2	153.3	43.5	59.4	99.0	204.2	312.6	703.8	703.8		
min	6.5	6.0	4.1	2.9	1.0	1.0	0.9	0.8	1.0	1.9	4.2	5.5	0.8	1.9		
<b>Initial Spread Index, ISI</b>																
mean	4.4	3.6	3.2	2.3	1.7	1.3	1.3	1.5	2.4	2.9	3.4	3.4	2.6	3.3		
median	4.3	3.6	2.9	2.0	1.2	0.9	1.0	1.0	1.6	2.3	3.0	2.9	1.9	2.9		
max	22.8	19.2	16.5	14.1	13.5	13.5	11.9	16.4	18.9	21.2	15.8	23.9	23.9	23.9		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	34.3	37.7	25.7	15.7	6.3	2.6	2.3	2.4	5.3	8.3	16.1	20.3	14.6	22.5		
median	29.9	28.5	17.9	9.9	3.7	1.8	1.4	1.7	4.4	7.2	14.9	18.4	7.6	15.7		
max	122.1	148.4	114.1	77.2	35.7	15.9	14.5	13.5	20.3	31.6	46.9	70.3	148.4	148.4		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Fire Weather Index, FWI</b>																
mean	9.4	8.5	6.2	3.3	1.5	0.7	0.7	0.8	1.9	2.9	4.9	5.6	3.8	5.8		
median	8.6	7.1	4.2	1.8	0.5	0.3	0.3	0.3	0.7	1.5	3.8	4.4	1.0	3.9		
max	49.7	50.9	40.7	19.7	14.3	10.9	7.1	14.0	19.7	19.7	24.3	40.9	50.9	50.9		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	2.1	1.9	1.2	0.4	0.1	0.0	0.0	0.0	0.2	0.3	0.7	1.0	0.7	1.1		
median	1.2	0.9	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.0	0.3		
max	27.3	28.6	19.2	5.3	3.0	1.9	0.9	2.9	5.3	5.3	7.7	19.3	28.6	28.6		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	66.6	54.8	38.8	13.2	3.7	1.1	1.2	1.5	4.9	10.3	21.5	29.8	20.6	33.6		
max	180.0	211.7	163.4	40.7	8.5	5.9	4.5	10.6	14.2	31.8	56.6	65.6	211.7	211.7		
min	4.4	3.7	0.5	2.1	0.2	0.1	0.1	0.2	0.1	1.0	1.0	0.2	0.1	0.2		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													247.5	231.2		
max													581.6	581.9		
min													61.1	39.0		

Station Name: Waihi Gold Raws (WGO)

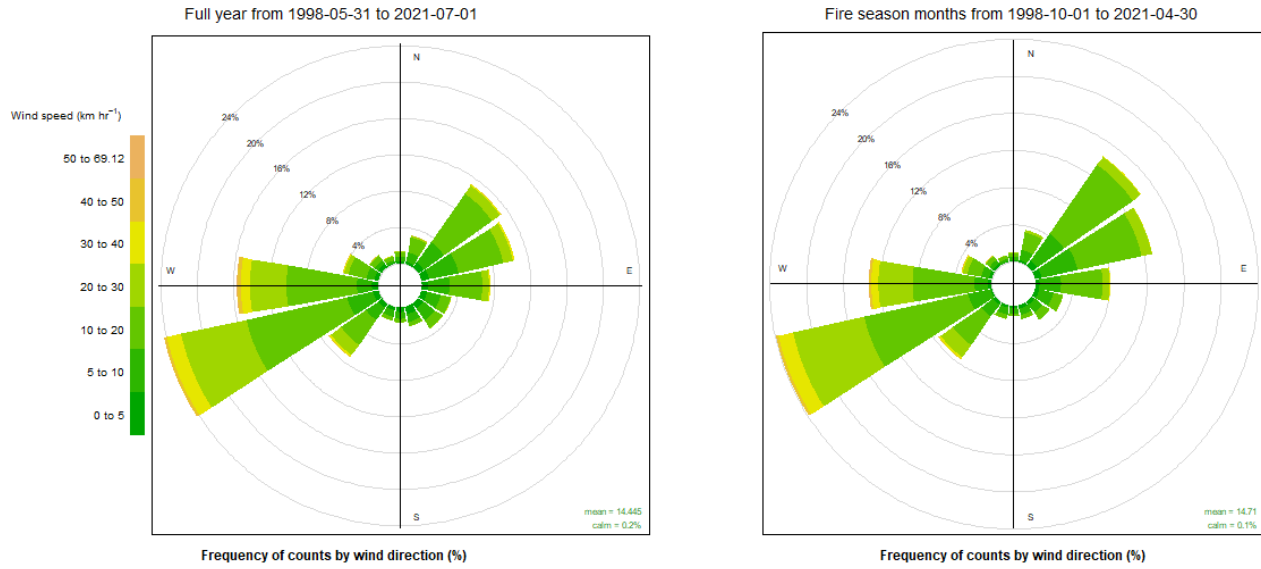
Period: 1998-05-31 - 2021-07-01

Length of record: 23 years

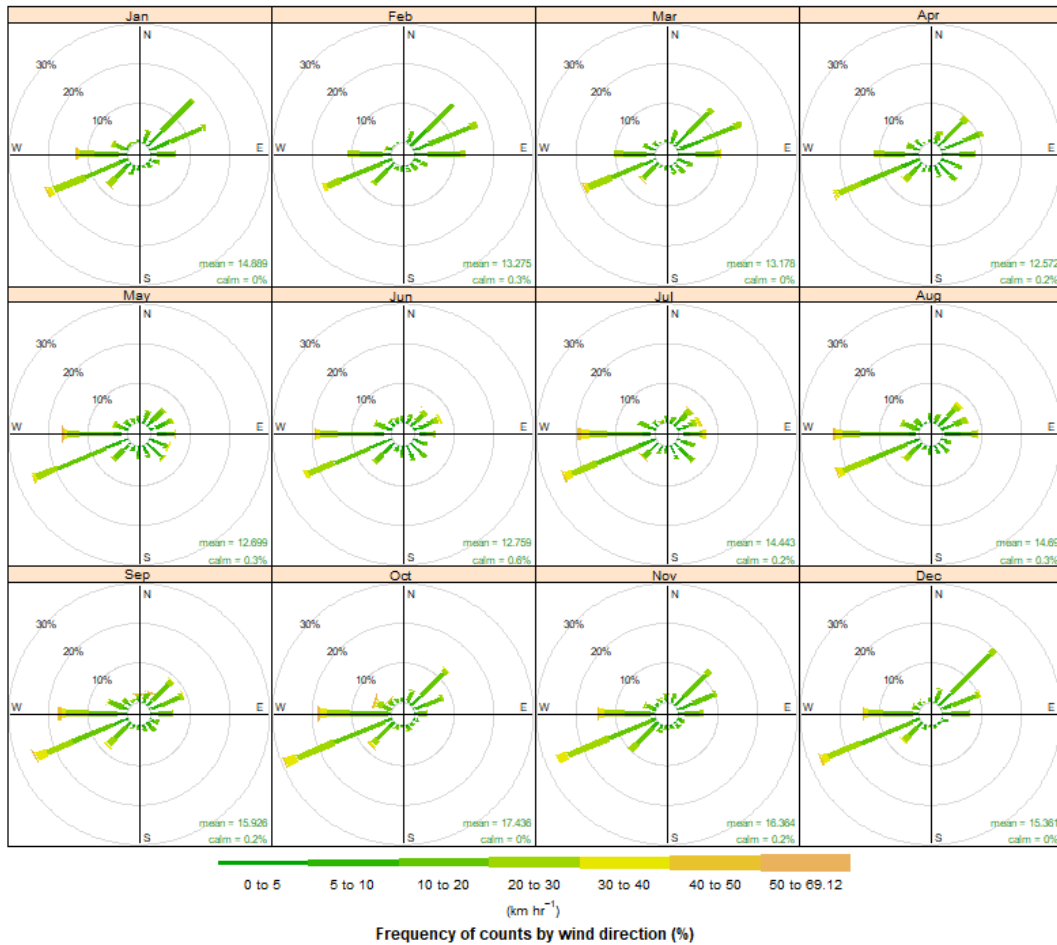
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	10.7	11.9	17.1	22.4	29.2	29.9	31.0	30.9	28.7	26.5	18.1	16.9	273.3	124.1
max	28	29	31	30	31	30	31	31	30	31	30	31	326	180
min	0	2	1	6	22	29	31	28	22	14	7	7	219	61
<b>Moderate</b>														
mean	13.6	11.0	10.7	7.3	1.8	0.1	0.0	0.1	1.3	4.5	11.5	12.8	74.8	71.6
max	23	22	22	24	9	1	0	3	8	17	21	22	100	107
min	3	0	0	0	0	0	0	0	0	0	0	0	22	32
<b>High</b>														
mean	5.5	4.5	2.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	14.5	14.0
max	18	15	16	4	0	0	0	0	0	0	5	5	41	46
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.9	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.8
max	6	4	7	0	0	0	0	0	0	0	0	1	13	13
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.2	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
max	3	4	3	0	0	0	0	0	0	0	0	1	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	1	1	0	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Central North Island (Bay of Plenty coastal)														
Curing%	70	75	80	75	70	60	50	65	70	75	85	85		
<b>Low</b>														
mean	3.3	4.0	4.5	6.0	9.5	12.5	11.9	11.0	7.3	5.3	3.3	4.7	83.3	31.3
max	11	14	12	11	17	20	21	16	19	11	16	19	119	73
min	0	0	0	1	3	7	3	5	2	0	0	1	48	13
<b>Moderate</b>														
mean	16.6	14.2	15.5	20.3	20.4	17.4	18.9	19.5	20.1	19.5	15.2	13.8	211.3	115.5
max	27	22	26	24	26	23	28	24	26	26	27	23	239	148
min	4	7	3	14	14	10	10	15	11	12	10	8	167	82
<b>High</b>														
mean	10.5	9.8	10.5	3.6	1.0	0.1	0.2	0.5	2.5	5.7	10.1	11.2	65.8	61.0
max	25	20	24	11	5	2	1	4	8	16	18	20	130	108
min	0	1	0	0	0	0	0	0	0	0	1	0	23	21
<b>Very High</b>														
mean	0.6	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.3	1.0	4.4	4.1
max	3	3	4	1	0	0	0	0	1	2	6	4	11	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.4
max	0	0	0	0	0	0	0	0	0	1	1	2	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.1	5.2	6.0	7.9	11.8	12.5	14.0	13.3	9.7	8.2	6.2	6.6	105.5	44.2
max	11	16	16	14	23	17	23	18	20	17	18	20	146	88
min	0	0	0	2	4	7	3	5	3	2	2	3	80	19
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	1	0	0	1	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.3	2.1	2.6	2.9	4.5	4.8	4.2	4.4	3.7	2.7	2.0	2.4	38.5	17.0
max	8	8	13	7	8	10	10	9	8	7	5	7	71	46
min	0	0	0	1	1	0	0	1	1	0	0	0	19	8
<b>Very High</b>														
mean	2.7	2.4	4.0	4.5	4.3	6.0	5.0	5.2	4.0	3.9	3.8	4.0	49.7	25.2
max	5	5	11	8	10	14	12	9	9	8	7	8	62	34
min	0	0	0	1	1	2	2	1	1	1	1	1	36	15
<b>Extreme</b>														
mean	6.4	7.2	8.1	10.3	8.6	5.6	6.3	6.2	7.8	9.0	8.6	7.6	91.7	57.6
max	13	12	15	16	16	11	15	13	18	15	15	12	110	75
min	1	3	2	6	3	0	0	0	1	5	2	2	70	33
<b>Very Extreme</b>														
mean	15.6	11.4	10.3	4.3	1.8	1.1	1.5	2.0	4.8	7.2	9.5	10.4	79.8	68.3
max	30	21	28	12	7	6	6	11	11	19	19	19	152	118
min	1	2	0	0	0	0	0	0	0	1	0	0	24	24



### Windroses for Waihi Gold Raws (WGO)



### WGO station from 1998-05-31 to 2021-07-01



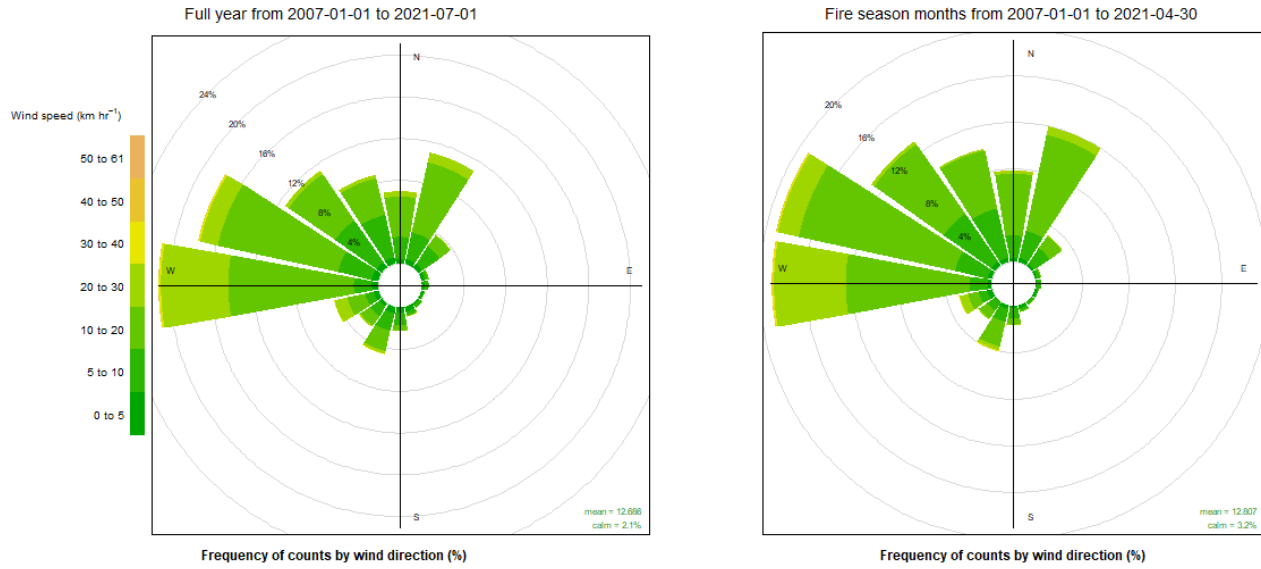
Station Name: Waihou Bay Raws (WHB)      Period: 2007-01-01 - 2021-07-01      Length of record: 14 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	21.6	22.4	21.4	19.3	16.9	14.8	13.8	14.1	15.0	16.2	17.8	20.1	17.8	19.9
median	21.6	22.4	21.5	19.3	17.0	14.8	13.9	14.3	15.0	16.3	17.8	20.3	17.6	20.1
max	26.6	26.8	25.9	25.4	21.8	19.0	18.0	19.2	19.1	20.2	24.6	26.9	26.9	26.9
min	15.6	16.2	15.3	8.4	9.2	10.0	7.1	3.3	9.1	10.1	11.2	13.3	3.3	8.4
<b>Relative Humidity, %</b>														
mean	71.0	67.4	65.7	67.5	68.8	70.4	69.5	68.9	70.1	71.8	70.0	72.3	69.4	69.4
median	70	67	65	66	67	70	69	69	69	71	69	71	69	69
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	36	34	33	33	38	36	24	26	29	39	25	33	24	25
<b>Wind Speed, km/h</b>														
mean	12.8	12.2	11.1	12.1	11.8	11.4	11.7	13.1	14.8	15.3	13.9	12.3	12.7	12.8
median	12.3	11.9	10.8	11.2	10.4	10.1	11.2	12.2	13.7	14.8	13.3	11.9	12.1	12.2
max	34.2	37.7	31.9	30.6	37.0	36.5	37.8	34.6	54.0	61.0	29.2	26.3	61.0	61.0
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.1	1.8	3.5	4.0	3.9	5.5	4.2	4.3	3.2	2.9	2.0	3.0	3.4	2.8
median	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0
max	90.6	61.0	94.0	96.0	69.2	80.4	55.4	66.0	69.6	72.0	43.4	75.6	96.0	96.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	68.9	50.9	112.6	119.2	119.4	159.6	130.7	134.7	96.6	89.4	60.5	93.9	103.0	85.1
max	178.6	114.0	286.0	243.4	319.0	271.6	206.0	274.0	180.6	161.2	163.4	166.8	319.0	286.0
min	8.6	0.8	24.2	33.0	35.8	91.0	84.4	68.8	30.6	16.2	21.0	5.0	0.8	0.8
<b>Seasonal Rainfall, millimetres</b>														
mean													1236.3	596.3
max													1559.2	806.6
min													999.4	429.8
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	74.7	76.9	75.8	72.3	67.9	62.3	63.1	63.8	66.9	68.8	73.6	70.8	69.8	73.3
median	82.3	84.4	84.0	82.1	79.1	71.0	71.0	70.6	74.5	76.4	81.3	81.0	79.7	82.0
max	90.4	90.3	91.0	89.7	88.2	87.6	90.9	89.5	89.4	88.2	90.7	88.1	91.0	91.0
min	0.0	5.4	2.8	1.9	3.6	1.0	3.2	0.2	9.0	1.5	8.1	4.0	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	17.2	26.9	19.7	14.0	7.2	3.4	2.6	3.6	5.8	7.1	12.8	15.0	11.3	16.1
median	15.0	25.6	15.9	10.9	5.4	2.6	2.1	2.5	4.5	5.9	11.0	13.0	7.4	12.5
max	54.4	72.2	84.4	72.0	36.0	23.0	9.5	25.0	28.2	24.6	39.9	43.5	84.4	84.4
min	0.0	0.0	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	222.1	312.5	270.0	194.4	106.7	46.8	13.9	12.9	18.6	38.6	91.0	159.5	125.2	185.3
median	213.3	303.6	254.7	178.3	65.1	13.8	9.4	9.3	14.8	30.9	91.8	165.7	70.9	161.0
max	481.8	583.9	656.7	722.4	317.1	322.8	124.7	61.6	75.8	133.7	207.3	303.9	722.4	722.4
min	24.7	60.9	5.5	3.4	2.4	1.5	1.2	0.5	1.3	3.0	5.0	6.7	0.5	3.0
<b>Initial Spread Index, ISI</b>														
mean	3.0	3.5	3.0	2.8	2.2	1.6	1.5	1.7	2.2	2.2	2.7	2.4	2.4	2.8
median	2.8	3.6	2.9	2.6	2.1	1.2	1.2	1.3	1.7	1.8	2.6	2.2	2.1	2.6
max	17.2	26.4	10.5	11.9	11.0	9.2	9.1	13.4	19.3	9.6	12.8	7.9	26.4	26.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	28.0	43.2	32.4	22.3	10.8	4.7	3.2	4.1	6.5	9.4	18.3	23.4	17.3	25.3
median	25.7	42.4	27.0	17.1	7.6	3.5	2.6	3.0	5.1	7.6	16.4	21.2	10.6	20.2
max	84.8	106.7	127.0	115.3	51.4	29.5	13.2	24.8	27.8	31.2	52.5	63.7	127.0	127.0
min	0.0	0.0	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	6.2	8.9	6.6	4.9	2.6	1.3	0.9	1.2	2.0	2.4	4.2	4.4	3.8	5.4
median	5.2	8.5	5.9	3.5	1.7	0.4	0.4	0.5	0.8	0.9	3.7	3.6	1.9	4.1
max	32.4	52.0	32.0	27.9	13.3	13.4	8.0	15.7	15.3	15.2	19.2	15.7	52.0	52.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.0	1.8	1.1	0.8	0.3	0.1	0.0	0.1	0.2	0.2	0.5	0.6	0.6	0.9
median	0.5	1.2	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.1	0.3
max	12.8	29.7	12.6	9.8	2.6	2.7	1.1	3.6	3.4	3.3	5.1	3.6	29.7	29.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	31.4	50.4	36.1	22.9	8.4	3.1	1.5	3.2	5.7	7.3	15.7	17.8	16.9	25.9
max	79.3	132.9	128.1	74.8	22.0	9.0	4.3	26.7	22.9	16.7	30.7	41.6	132.9	132.9
min	3.3	7.5	8.0	2.5	1.6	0.1	0.4	0.5	0.2	1.5	2.9	2.9	0.1	1.5
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													203.4	180.1
max													451.7	431.1
min													60.6	85.5

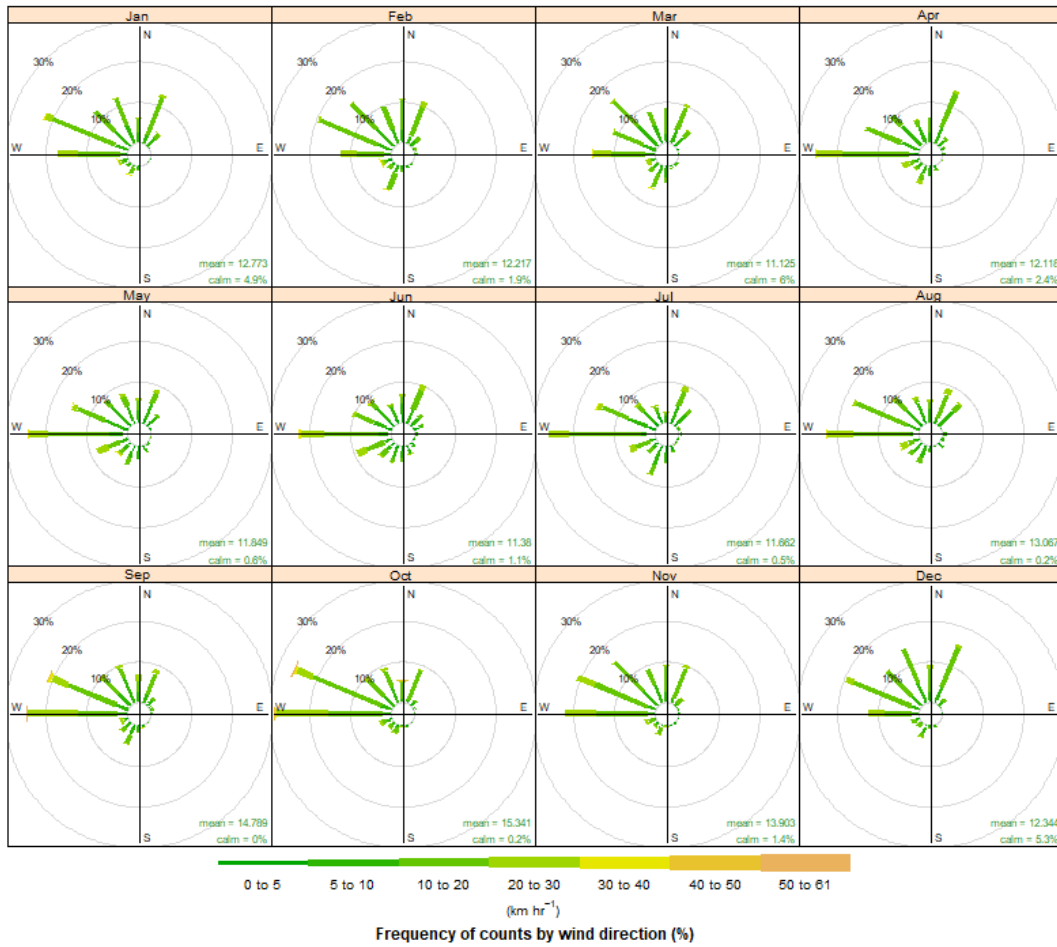
Station Name: Waihou Bay Raws (WHB)      Period: 2007-01-01 - 2021-07-01      Length of record: 14 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	14.9	9.2	13.4	18.4	25.0	29.1	31.0	30.1	27.9	26.3	17.6	17.9	260.8	117.9
max	30	24	26	29	31	30	31	31	30	31	30	30	330	150
min	3	1	3	7	14	24	31	18	20	14	6	5	217	82
<b>Moderate</b>														
mean	14.5	15.0	15.8	10.6	6.0	0.9	0.0	0.9	2.1	4.7	12.2	13.1	95.8	85.7
max	24	24	25	22	17	6	0	13	10	17	23	26	131	117
min	1	4	4	1	0	0	0	0	0	0	0	1	36	62
<b>High</b>														
mean	1.4	3.5	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	7.4	7.3
max	7	13	8	6	0	0	0	0	0	0	2	1	33	33
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.2	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
max	2	5	4	3	0	0	0	0	0	0	0	0	10	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	0	1	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	1	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Central North Island (Bay of Plenty coastal)														
Curing%	70	75	80	75	70	60	50	65	70	75	85	85		
<b>Low</b>														
mean	4.4	3.4	3.4	5.1	7.1	11.3	10.6	9.9	7.3	5.6	3.7	5.1	76.7	30.6
max	13	10	11	10	13	17	17	15	13	11	9	11	93	46
min	0	0	0	1	2	6	7	2	2	1	1	0	64	18
<b>Moderate</b>														
mean	22.2	16.4	17.2	18.7	22.1	18.6	20.2	20.5	20.2	21.1	17.5	18.1	232.8	132.6
max	27	23	26	24	27	24	24	25	26	24	27	24	260	165
min	18	6	9	13	15	13	14	16	13	17	11	13	199	104
<b>High</b>														
mean	4.4	8.5	10.4	6.1	1.8	0.1	0.2	0.6	2.4	4.3	8.5	7.8	55.1	48.6
max	11	16	20	14	4	2	3	9	9	11	16	18	83	85
min	0	1	0	0	0	0	0	0	0	1	1	1	27	25
<b>Very High</b>														
mean	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.6	0.5
max	1	0	1	1	0	0	0	0	2	0	2	0	3	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	1	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	5.0	4.0	4.8	6.4	8.4	11.4	11.9	11.3	9.6	7.9	4.9	7.0	92.6	39.9
max	15	12	12	11	15	17	18	16	17	15	11	13	116	51
min	0	0	1	1	3	5	8	2	4	1	2	1	75	28
<b>Moderate</b>														
mean	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	1	0	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.9	2.2	2.9	2.5	3.1	3.2	4.1	3.9	2.6	3.3	2.7	2.8	36.3	19.3
max	8	5	9	6	6	7	9	8	6	9	7	7	44	32
min	0	0	0	0	1	0	1	1	0	0	0	0	29	12
<b>Very High</b>														
mean	4.5	2.2	3.3	3.6	3.8	5.1	5.3	5.2	4.9	5.9	3.9	4.9	52.7	28.8
max	10	5	7	8	7	9	8	9	8	10	7	11	69	39
min	1	0	1	1	1	2	3	0	2	2	1	1	39	21
<b>Extreme</b>														
mean	9.7	9.6	10.4	10.3	11.8	8.3	8.4	8.6	8.4	9.0	13.6	11.5	119.4	75.3
max	15	18	18	14	20	17	16	14	11	16	21	17	144	102
min	7	2	5	5	5	1	3	2	3	5	9	6	99	60
<b>Very Extreme</b>														
mean	8.8	10.3	9.6	7.2	3.9	2.0	1.3	2.0	4.6	4.9	4.8	4.8	64.2	48.9
max	20	17	19	14	11	5	5	16	12	11	12	12	99	86
min	0	2	0	1	0	0	0	0	0	1	0	0	30	27

Windroses for Waihou Bay Raws (WHB)



WHB station from 2007-01-01 to 2021-07-01



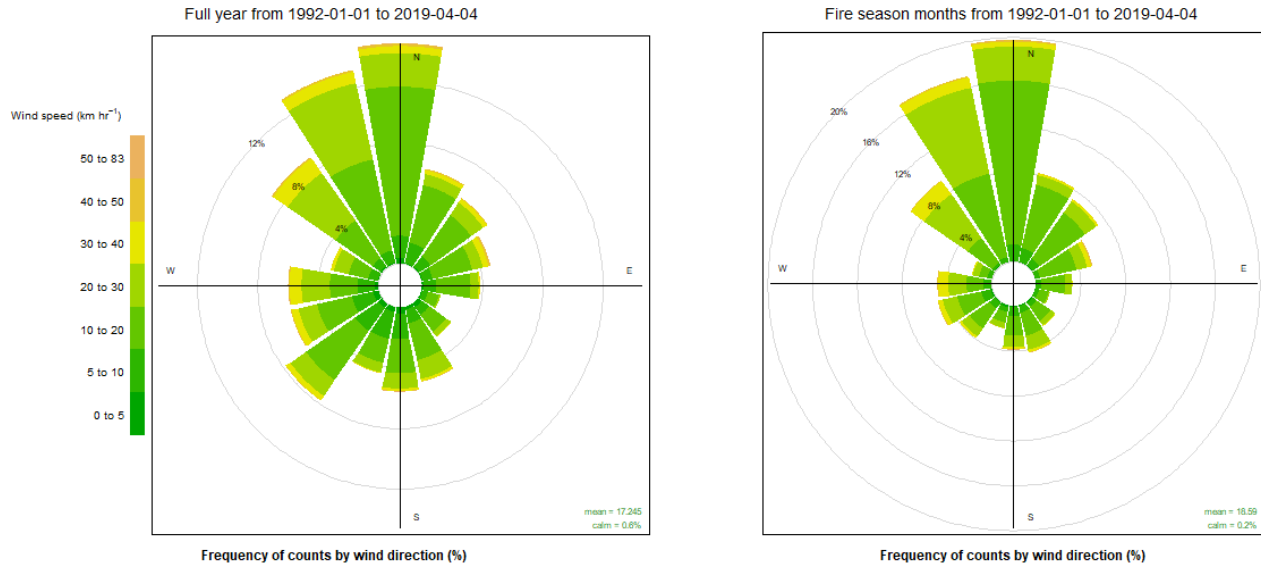
Station Name: Whakatane Aero Aws (WKA) Period: 1992-01-01 - 2021-07-02 Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.5	22.8	21.3	18.8	15.9	13.3	12.6	13.5	15.1	16.9	18.7	20.7	17.7	20.2
median	22.8	23.0	21.2	19.0	16.0	13.2	12.7	13.7	15.0	17.0	19.0	21.0	17.8	20.0
max	28.7	29.0	27.0	26.6	22.1	19.0	18.0	18.0	22.0	26.0	28.0	27.7	29.0	29.0
min	15.0	16.0	13.0	10.5	6.2	6.0	6.0	7.0	9.0	9.0	10.0	14.0	6.0	9.0
<b>Relative Humidity, %</b>														
mean	63.8	63.1	63.7	67.1	72.1	75.4	74.3	70.4	69.8	67.9	64.5	66.2	68.2	65.2
median	65.0	62.0	62.0	65.0	71.0	74.8	73.0	69.0	69.0	68.0	64.0	67.0	68.0	65.0
max	100	100	100	100	100	100	100	100	100	100	99	100	100	100
min	22	27	26	30	38	41	45	37	34	30	25	20	20	20
<b>Wind Speed, km/h</b>														
mean	19.4	17.7	16.2	14.2	14.1	14.2	14.2	15.4	18.1	20.0	21.0	20.1	17.0	18.4
median	19.0	17.0	15.0	13.0	11.4	11.6	13.0	13.0	17.0	20.0	20.0	19.0	16.8	17.8
max	53.6	44.0	48.0	63.0	55.0	67.0	70.0	48.0	50.0	50.0	57.0	83.0	83.0	83.0
min	1.8	3.6	3.6	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0	3.8	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.3	2.6	2.8	4.2	4.1	4.5	4.8	3.5	2.9	3.0	2.4	3.3	3.4	2.9
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	142.6	110.4	94.4	134.2	142.6	166.8	126.4	68.0	73.0	91.2	73.0	99.8	166.8	142.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	68.3	73.7	88.2	126.3	126.8	137.4	148.3	108.2	87.1	91.9	72.3	102.5	102.6	89.0
max	212.0	239.4	219.0	335.8	335.8	320.0	415.2	254.0	151.4	220.8	216.2	293.4	415.2	335.8
min	5.0	10.6	5.4	5.2	15.2	7.0	51.8	53.4	28.8	21.8	10.4	9.2	5.0	5.0
<b>Seasonal Rainfall, millimetres</b>														
mean													1231.1	624.2
max													1725.7	960.2
min													707.2	269.6
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	79.4	78.8	77.2	72.9	68.5	63.5	63.3	66.5	70.3	73.1	76.8	75.4	72.1	76.2
median	85.1	85.4	84.9	82.8	78.7	73.5	71.8	75.7	79.1	81.3	83.5	83.4	81.4	83.8
max	92.4	91.0	91.8	90.2	87.6	86.2	85.6	86.5	89.1	89.6	93.3	93.1	93.3	93.3
min	3.3	5.0	6.8	0.0	0.4	0.6	3.3	1.9	6.3	5.9	6.7	4.5	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	25.5	30.9	21.6	14.5	7.1	3.3	2.6	3.6	6.3	9.7	16.2	19.0	13.3	19.6
median	21.3	24.0	17.2	10.5	5.0	2.0	1.8	2.8	5.6	8.4	14.1	16.7	8.4	15.0
max	94.0	117.7	122.6	127.7	38.6	24.8	20.5	14.2	25.2	31.3	61.5	74.0	127.7	127.7
min	0.7	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	222.9	288.9	259.6	208.6	110.8	44.7	17.9	15.0	20.9	44.2	99.6	161.0	124.7	183.6
median	209.9	267.5	244.1	197.6	77.1	14.7	9.2	10.6	17.7	39.4	95.5	158.9	68.3	152.4
max	557.7	714.6	868.1	933.4	449.8	320.6	329.2	62.7	76.4	141.7	260.3	391.3	933.4	933.4
min	6.6	7.0	4.8	3.2	0.8	1.5	1.0	1.3	1.3	2.9	4.9	5.9	0.8	2.9
<b>Initial Spread Index, ISI</b>														
mean	5.8	5.2	4.4	3.1	2.3	1.8	1.6	2.1	2.9	3.8	5.3	4.9	3.6	4.6
median	5.2	5.0	4.1	2.9	2.0	1.3	1.3	1.6	2.5	3.2	4.5	4.5	2.8	4.1
max	39.9	22.9	36.3	17.7	20.1	15.5	8.7	22.6	23.0	23.2	32.4	37.7	39.9	39.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	38.0	46.8	34.1	23.1	11.1	4.8	3.3	4.3	7.1	12.1	22.2	28.1	19.6	29.2
median	32.5	38.7	27.8	17.6	7.6	2.8	2.3	3.3	6.3	10.5	20.0	25.8	11.9	22.9
max	132.3	165.2	176.6	190.3	60.2	41.5	35.5	17.2	25.1	38.6	74.8	92.0	190.3	190.3
min	1.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	12.3	12.6	9.1	5.5	2.7	1.3	0.9	1.5	2.7	4.7	8.6	9.1	5.9	8.8
median	10.9	11.2	7.8	4.2	1.3	0.5	0.5	0.6	1.7	3.5	7.3	8.0	3.0	7.1
max	72.1	45.9	66.2	43.5	20.2	18.6	9.2	14.8	25.2	28.8	46.5	48.2	72.1	72.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	3.3	3.3	2.1	1.0	0.3	0.1	0.1	0.1	0.3	0.7	1.9	2.0	1.3	2.0
median	1.9	2.0	1.0	0.4	0.0	0.0	0.0	0.0	0.1	0.3	0.9	1.1	0.2	0.9
max	52.9	23.8	45.5	21.6	5.5	4.8	1.4	3.2	8.2	10.4	24.4	25.9	52.9	52.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	103.1	94.4	64.1	29.0	9.8	3.7	1.6	3.6	8.3	21.3	55.6	62.1	38.0	61.3
max	347.7	231.5	365.1	124.3	41.1	41.9	5.5	13.1	23.2	77.1	200.9	251.8	365.1	365.1
min	15.6	15.7	9.6	1.4	0.6	0.2	0.1	0.2	0.7	2.8	10.5	5.5	0.1	1.4
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													456.5	430.9
max													973.7	1021.4
min													131.5	162.8

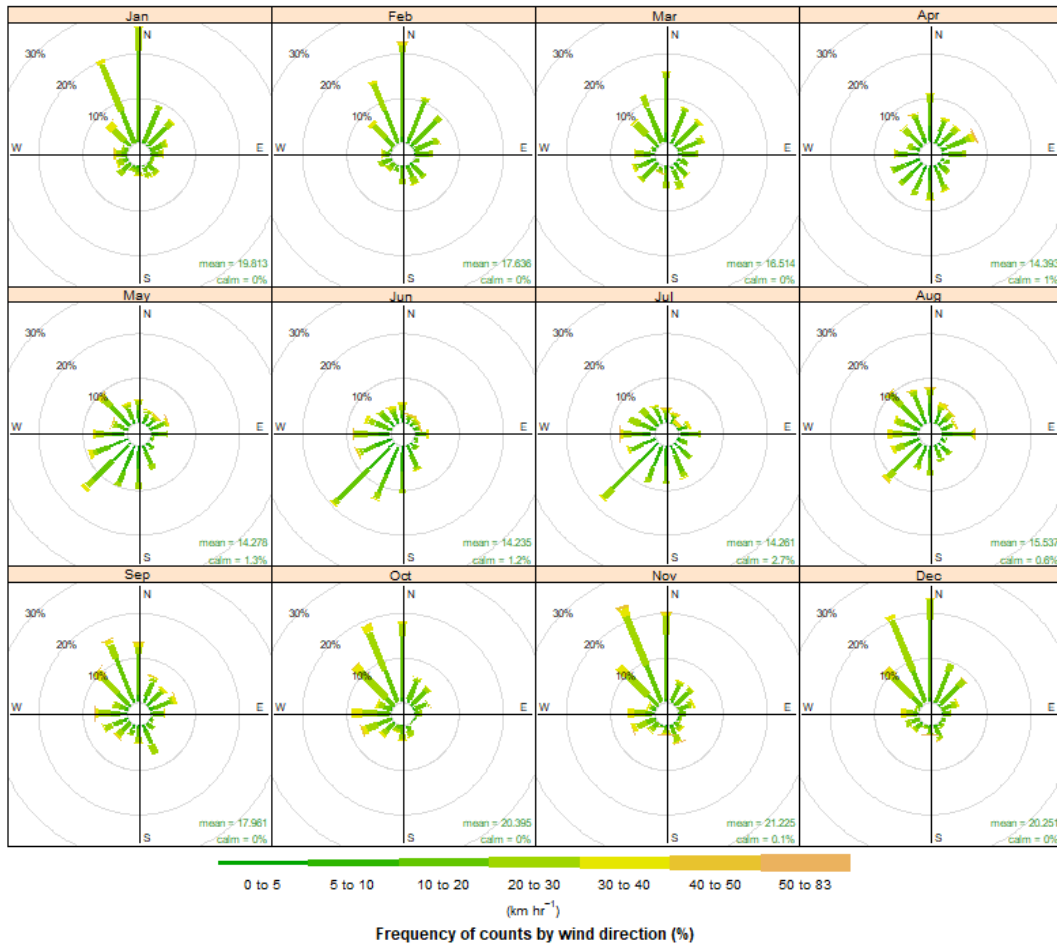
Station Name: Whakatane Aero Aws (WKA) Period: 1992-01-01 - 2021-07-02 Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	7.8	7.4	10.9	17.2	25.9	28.7	30.8	30.4	27.0	21.0	12.2	11.2	230.6	88.3
max	21	19	25	30	31	30	31	31	30	31	22	29	289	130
min	0	0	0	3	10	8	29	27	16	5	0	0	178	48
<b>Moderate</b>														
mean	13.7	10.9	15.1	11.3	5.1	1.2	0.2	0.6	3.0	9.7	14.3	14.7	99.7	88.8
max	23	21	26	22	21	20	2	4	14	21	24	23	148	108
min	4	0	3	0	0	0	0	0	0	0	8	2	61	58
<b>High</b>														
mean	5.9	6.4	3.5	1.1	0.1	0.1	0.0	0.0	0.0	0.3	2.7	4.1	24.1	24.3
max	16	16	13	9	1	2	0	0	1	5	11	14	43	42
min	0	0	0	0	0	0	0	0	0	0	0	0	2	4
<b>Very High</b>														
mean	2.2	2.5	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	7.3	7.3
max	10	13	13	5	0	0	0	0	0	0	4	11	31	33
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.2	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	3.2	3.2
max	11	6	7	1	0	0	0	0	0	0	4	3	15	17
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
max	2	1	2	1	0	0	0	0	0	0	0	1	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Central North Island (Bay of Plenty coastal)														
Curing%	70	75	80	75	70	60	50	65	70	75	85	85		
<b>Low</b>														
mean	2.0	2.2	2.9	4.8	6.6	10.4	9.8	8.1	4.8	3.8	2.5	3.2	61.0	21.4
max	6	7	7	12	12	19	19	18	11	11	6	8	92	35
min	0	0	0	0	3	1	2	3	0	0	0	0	39	9
<b>Moderate</b>														
mean	13.3	10.0	12.2	18.9	21.9	19.2	21.0	21.6	20.9	16.5	9.6	9.6	194.7	89.9
max	21	16	20	25	27	27	29	27	29	23	19	20	220	118
min	5	4	4	10	14	11	12	13	12	8	3	1	162	65
<b>High</b>														
mean	14.6	14.9	14.3	6.0	2.5	0.4	0.2	1.2	4.0	9.7	13.8	14.2	95.8	87.6
max	22	24	25	16	11	2	2	6	10	18	20	23	123	114
min	6	6	6	0	0	0	0	0	0	2	7	5	51	56
<b>Very High</b>														
mean	1.0	1.1	1.4	0.3	0.1	0.0	0.0	0.1	0.2	1.0	3.1	3.6	11.9	11.3
max	3	4	5	3	2	0	0	1	2	4	8	13	24	21
min	0	0	0	0	0	0	0	0	0	0	0	0	2	1
<b>Extreme</b>														
mean	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.4	1.9	2.0
max	2	1	2	0	0	0	0	0	0	1	9	3	11	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	1	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.0	3.3	4.1	6.0	8.2	10.6	11.1	9.7	7.2	6.0	4.0	5.1	78.3	31.6
max	8	9	9	16	15	18	20	20	14	13	11	13	113	46
min	0	0	0	0	4	2	3	3	3	0	0	0	54	18
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.0	0.8	1.5	2.2	3.8	4.2	3.9	3.3	2.1	1.3	0.9	1.2	26.1	9.0
max	4	4	5	6	8	11	8	9	5	5	3	5	39	16
min	0	0	0	0	0	1	0	0	0	0	0	0	12	3
<b>Very High</b>														
mean	2.0	1.9	2.7	3.2	3.9	5.4	5.6	5.2	4.1	3.5	2.4	2.4	42.5	18.3
max	5	5	6	6	10	12	10	10	9	9	5	6	58	26
min	0	0	0	0	0	0	1	1	1	0	0	0	28	8
<b>Extreme</b>														
mean	5.7	5.2	8.1	11.0	10.6	6.9	8.5	8.7	10.1	8.3	6.9	6.1	96.0	50.9
max	11	10	14	17	16	14	20	15	18	12	15	11	125	67
min	2	1	2	3	4	0	1	1	4	3	2	0	68	36
<b>Very Extreme</b>														
mean	19.4	17.0	14.7	7.6	4.5	2.8	1.9	4.0	6.5	11.9	15.7	16.2	122.3	102.5
max	27	24	27	17	17	13	7	12	15	20	26	30	173	135
min	10	6	7	0	0	0	0	0	1	4	6	3	61	69

Windroses for Whakatane Aero Aws (WKA)



WKA station from 1992-01-01 to 2019-04-04

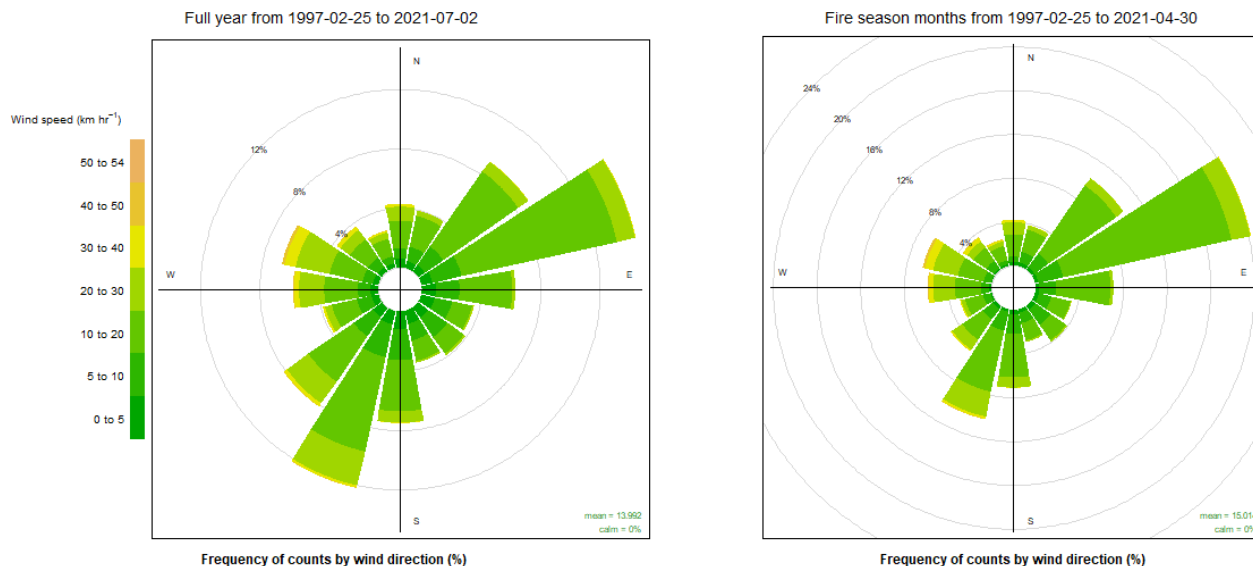


Station Name: Bridge Pa Raws (BRP)													Period: 1997-02-25 - 2021-07-02		Length of record: 24 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	24.0	23.7	21.8	18.9	16.1	13.2	12.4	13.7	15.9	18.2	20.0	22.3	18.3	21.2		
median	24.0	23.8	21.8	18.7	16.0	13.0	12.2	13.7	16.1	18.4	20.0	22.4	18.2	21.2		
max	36.8	36.4	32.2	27.5	26.3	26.3	24.2	21.6	24.3	27.1	30.4	33.8	36.8	36.8		
min	11.7	13.2	9.6	9.0	4.4	1.3	1.5	1.2	6.8	7.3	6.7	10.8	1.2	6.7		
<b>Relative Humidity, %</b>																
mean	52.3	54.2	57.6	62.4	66.8	71.3	71.0	65.7	59.6	56.1	54.3	53.9	60.5	55.9		
median	51.0	53.0	56.0	60.0	65.0	69.0	69.0	64.0	57.0	54.0	53.3	52.0	59.0	54.5		
max	97.0	100.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	99.3	100.0	100.0		
min	17.0	9.0	12.0	28.0	30.0	36.0	34.0	8.0	31.0	15.0	19.0	21.1	8.0	9.0		
<b>Wind Speed, km/h</b>																
mean	15.9	14.5	13.9	12.8	12.3	12.0	12.6	13.7	15.3	16.2	17.2	16.6	14.4	15.3		
median	15.5	14.4	13.6	12.6	10.9	10.6	11.9	13.7	15.1	15.8	16.6	16.0	14.3	15.0		
max	47.8	40.2	47.2	35.3	48.8	44.1	35.8	45.0	69.3	46.4	54.0	45.7	69.3	54.0		
min	2.5	1.8	1.4	0.1	0.0	0.0	0.0	0.0	1.9	0.5	1.1	2.5	0.0	0.1		
<b>24-hr Rainfall, millimeters</b>																
mean	1.7	1.4	1.6	2.0	1.7	2.5	2.9	1.8	1.7	1.6	1.5	1.6	1.8	1.6		
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
max	75.8	68.4	73.6	75.0	62.4	91.8	63.8	84.8	47.8	70.6	69.6	52.4	91.8	75.8		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	53.6	40.2	48.2	63.3	52.6	71.1	90.4	54.0	50.6	48.9	45.0	52.3	55.8	50.2		
max	164.6	158.6	105.2	174.0	184.6	144.0	183.6	143.4	136.6	158.0	163.0	131.2	184.6	174.0		
min	7.0	0.6	3.4	6.2	8.0	13.0	10.4	9.8	5.8	6.8	8.4	14.8	0.6	0.6		
<b>Seasonal Rainfall, millimetres</b>																
mean													670.1	344.4		
max													911.6	540.0		
min													495.6	157.6		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	83.5	83.0	80.0	76.5	73.8	68.7	67.0	72.7	76.4	79.6	81.3	81.6	77.0	80.8		
median	87.8	87.4	86.2	84.2	82.2	78.1	77.0	80.8	84.5	85.5	86.5	86.9	84.2	86.4		
max	96.3	98.2	96.6	91.6	90.9	89.2	89.6	89.4	89.8	94.3	94.5	93.7	98.2	98.2		
min	5.9	7.8	6.4	6.3	1.0	3.0	1.1	6.5	9.8	0.0	9.3	6.9	0.0	0.0		
<b>Duff Moisture Code, DMC</b>																
mean	49.4	52.4	44.0	25.5	18.7	9.9	5.1	7.8	15.4	23.3	35.3	38.7	27.0	38.2		
median	43.2	46.9	34.4	18.1	14.2	6.4	3.9	6.7	13.7	21.3	34.6	32.5	18.3	31.7		
max	150.0	142.4	167.5	109.6	78.7	66.0	27.8	27.9	53.9	78.2	82.4	152.6	167.5	167.5		
min	2.4	2.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0	1.6	1.4	2.7	0.0	0.3		
<b>Drought Code, DC</b>																
mean	407.9	478.5	481.3	439.0	385.1	275.6	143.8	94.2	95.9	126.5	214.8	302.0	287.5	350.0		
median	412.5	503.1	477.8	439.9	361.4	255.3	111.8	79.3	87.0	124.5	212.6	304.6	253.6	323.0		
max	759.9	895.6	1005.0	892.1	784.3	812.2	658.9	384.7	265.5	341.1	458.8	565.1	1005.0	1005.0		
min	51.7	106.2	144.5	3.7	1.8	1.8	1.0	1.3	1.4	3.6	33.6	57.2	1.0	3.6		
<b>Initial Spread Index, ISI</b>																
mean	7.7	6.4	5.5	3.8	3.2	2.3	2.1	2.8	4.3	5.5	6.9	6.8	4.7	6.1		
median	6.7	6.1	4.8	3.3	2.4	1.6	1.5	2.2	3.7	4.5	5.8	5.9	3.6	5.1		
max	56.5	33.0	40.5	26.9	35.4	33.7	14.4	27.8	45.8	42.5	44.9	49.5	56.5	56.5		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	73.5	79.6	68.6	42.9	32.2	17.3	8.5	11.6	20.4	30.5	47.9	55.7	40.5	56.8		
median	68.1	73.2	56.4	32.4	25.3	11.3	6.5	9.9	18.6	28.1	46.7	50.6	29.0	48.2		
max	184.8	188.2	236.4	153.6	120.0	109.7	44.8	38.4	67.6	91.1	108.6	181.4	236.4	236.4		
min	4.3	4.5	1.0	0.6	0.0	0.0	0.0	0.0	0.0	2.1	2.6	5.0	0.0	0.6		
<b>Fire Weather Index, FWI</b>																
mean	20.8	19.3	15.8	9.4	6.7	3.4	2.1	3.3	6.8	10.3	15.5	16.6	10.8	15.3		
median	19.5	18.5	12.9	7.1	4.4	1.4	0.8	2.3	5.9	8.4	14.4	15.0	6.9	13.0		
max	92.6	61.7	84.5	66.8	65.0	69.1	16.0	30.2	40.9	71.0	72.2	81.2	92.6	92.6		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	7.8	6.6	5.3	2.3	1.5	0.6	0.2	0.4	1.3	2.6	4.7	5.4	3.2	4.9		
median	5.2	4.8	2.5	0.9	0.4	0.0	0.0	0.1	0.6	1.2	3.0	3.3	0.8	2.6		
max	82.3	40.2	70.1	46.2	44.0	49.1	3.7	11.3	19.4	51.5	53.0	65.2	82.3	82.3		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	241.2	185.2	171.9	69.5	46.7	20.4	6.9	12.6	39.2	81.4	135.3	153.9	97.0	148.3		
max	470.2	353.4	536.7	243.1	207.7	149.4	22.3	50.6	83.1	344.1	327.3	542.8	542.8	542.8		
min	45.1	48.7	16.2	1.8	0.4	0.2	0.4	1.4	5.8	12.2	25.4	26.9	0.2	1.8		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													1164.2	1058.7		
max													2472.9	2391.8		
min													398.1	418.0		

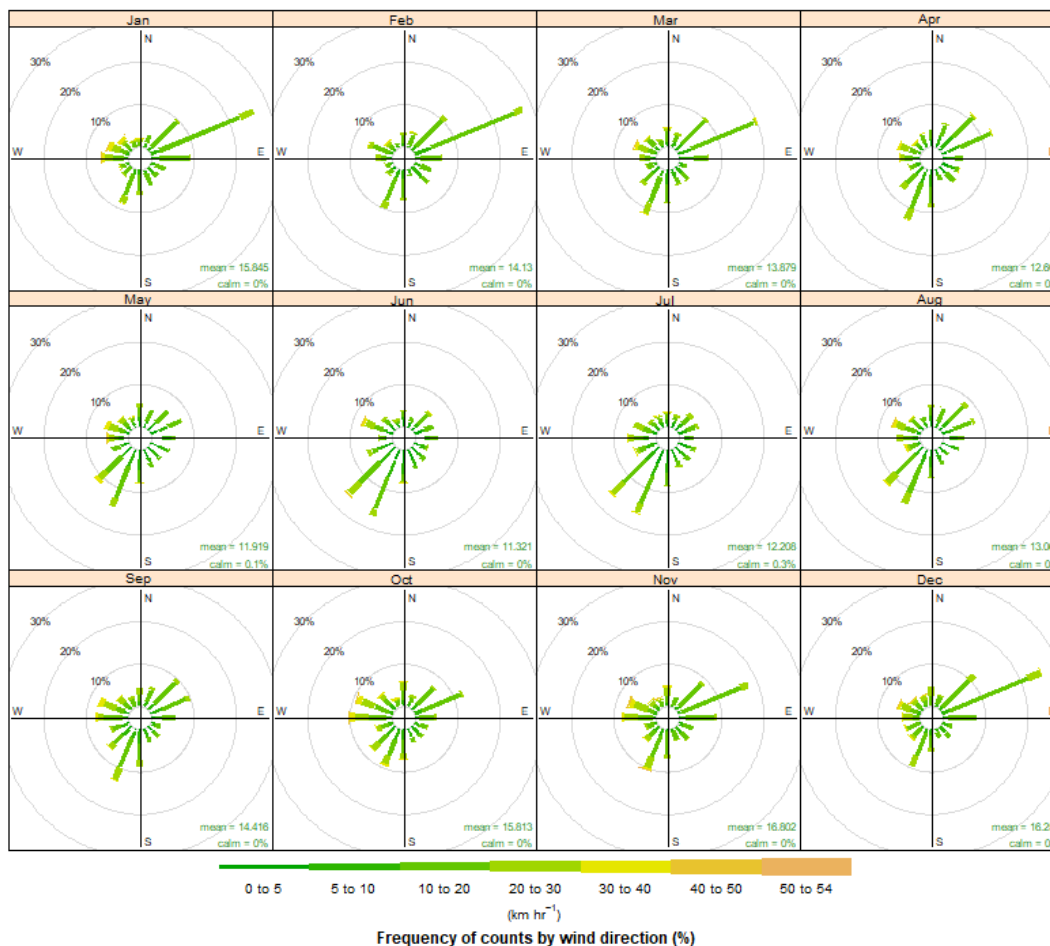


Station Name: Bridge Pa Raws (BRP)      Period: 1997-02-25 - 2021-07-02      Length of record: 24 years														FIRE SEASON
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	4.3	3.6	6.7	11.4	16.7	23.9	27.4	24.6	13.3	10.0	6.2	5.8	153.8	47.4
max	10	9	22	30	31	30	31	31	28	23	17	16	217	83
min	0	0	0	0	4	9	12	6	2	0	1	1	104	19
<b>Moderate</b>														
mean	8.7	9.0	10.2	12.5	11.0	5.0	3.6	6.3	15.0	14.5	10.7	11.1	117.6	76.4
max	22	20	23	24	23	15	19	25	23	26	20	21	165	114
min	3	0	1	0	0	0	0	0	2	3	5	3	87	47
<b>High</b>														
mean	6.6	6.0	6.6	4.2	2.2	0.7	0.0	0.2	1.6	4.5	8.7	8.0	49.3	44.4
max	13	14	14	15	12	6	0	3	5	19	15	14	78	72
min	1	0	0	0	0	0	0	0	0	0	0	0	22	22
<b>Very High</b>														
mean	4.0	4.8	3.7	1.2	0.6	0.2	0.0	0.0	0.1	1.2	2.4	3.1	21.2	20.5
max	9	12	11	10	3	2	0	0	1	7	8	9	36	41
min	0	0	0	0	0	0	0	0	0	0	0	0	4	4
<b>Extreme</b>														
mean	5.6	4.0	2.7	0.5	0.2	0.1	0.0	0.0	0.1	0.7	1.6	2.1	17.7	18.1
max	15	13	10	5	3	3	0	0	1	8	5	8	51	53
min	0	0	0	0	0	0	0	0	0	0	0	0	2	0
<b>Very Extreme</b>														
mean	1.8	0.9	1.2	0.2	0.3	0.1	0.0	0.0	0.0	0.1	0.4	0.8	5.6	5.5
max	6	5	6	3	4	2	0	0	0	2	4	10	21	25
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Eastern (Hastings / Napier)														
Curing%	90	95	80	70	50	40	40	40	40	50	60	70		
<b>Low</b>														
mean	1.3	1.2	2.5	3.6	5.2	7.5	9.1	6.0	4.0	2.3	2.2	2.0	46.7	14.7
max	3	5	13	9	12	22	17	13	11	6	6	7	85	26
min	0	0	0	0	0	0	0	1	0	0	0	0	29	2
<b>Moderate</b>														
mean	6.0	5.3	9.6	19.0	22.7	21.3	21.1	23.7	22.4	20.5	20.3	12.2	204.2	92.3
max	10	12	22	25	28	26	31	30	29	28	26	20	227	130
min	2	0	2	7	17	8	14	18	14	6	11	4	177	61
<b>High</b>														
mean	12.4	12.6	15.3	6.9	2.8	1.1	0.8	1.2	3.5	7.4	6.9	14.1	84.9	76.0
max	23	20	26	22	10	5	3	5	12	19	13	23	115	108
min	6	7	7	0	0	0	0	0	0	0	1	7	35	50
<b>Very High</b>														
mean	7.8	7.3	2.8	0.4	0.3	0.0	0.0	0.1	0.2	0.8	0.6	2.2	22.6	22.3
max	15	16	9	2	2	1	0	2	2	3	5	9	38	47
min	1	2	0	0	0	0	0	0	0	0	0	0	6	6
<b>Extreme</b>														
mean	3.0	1.8	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	6.4	6.4
max	7	5	5	1	0	0	0	0	0	1	0	3	20	17
min	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<b>Very Extreme</b>														
mean	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
max	2	1	0	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	2.2	2.0	3.6	4.5	5.4	7.6	8.9	6.0	4.3	3.1	2.6	2.7	52.9	20.3
max	6	7	14	9	11	19	19	14	11	7	8	7	83	33
min	0	0	0	0	0	1	1	1	0	0	0	0	31	8
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	1	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.2	0.8	1.4	2.0	4.3	4.2	5.0	3.5	2.1	1.6	1.7	1.1	28.8	9.8
max	3	4	6	5	15	11	11	10	6	9	5	3	55	20
min	0	0	0	0	1	0	1	0	0	0	0	0	8	2
<b>Very High</b>														
mean	1.7	1.8	2.1	3.7	4.1	6.4	4.9	5.4	3.2	2.8	1.6	2.6	40.4	16.1
max	6	6	5	9	9	15	9	15	6	6	7	5	67	27
min	0	0	0	0	1	1	1	1	1	0	0	0	22	7
<b>Extreme</b>														
mean	4.6	4.3	5.7	9.1	9.7	7.4	8.2	9.5	7.0	7.0	4.3	5.2	82.1	40.2
max	12	11	13	17	20	14	15	15	12	17	9	10	106	69
min	1	0	1	1	1	1	3	3	4	1	1	0	53	18
<b>Very Extreme</b>														
mean	21.3	19.3	18.1	10.7	7.4	4.3	4.0	6.6	13.4	16.5	19.8	19.4	161.0	125.8
max	27	29	28	24	22	11	13	16	21	29	26	25	214	164
min	15	8	5	0	0	0	0	0	5	5	10	12	90	81

### Windroses for Bridge Pa Raws (BRP)



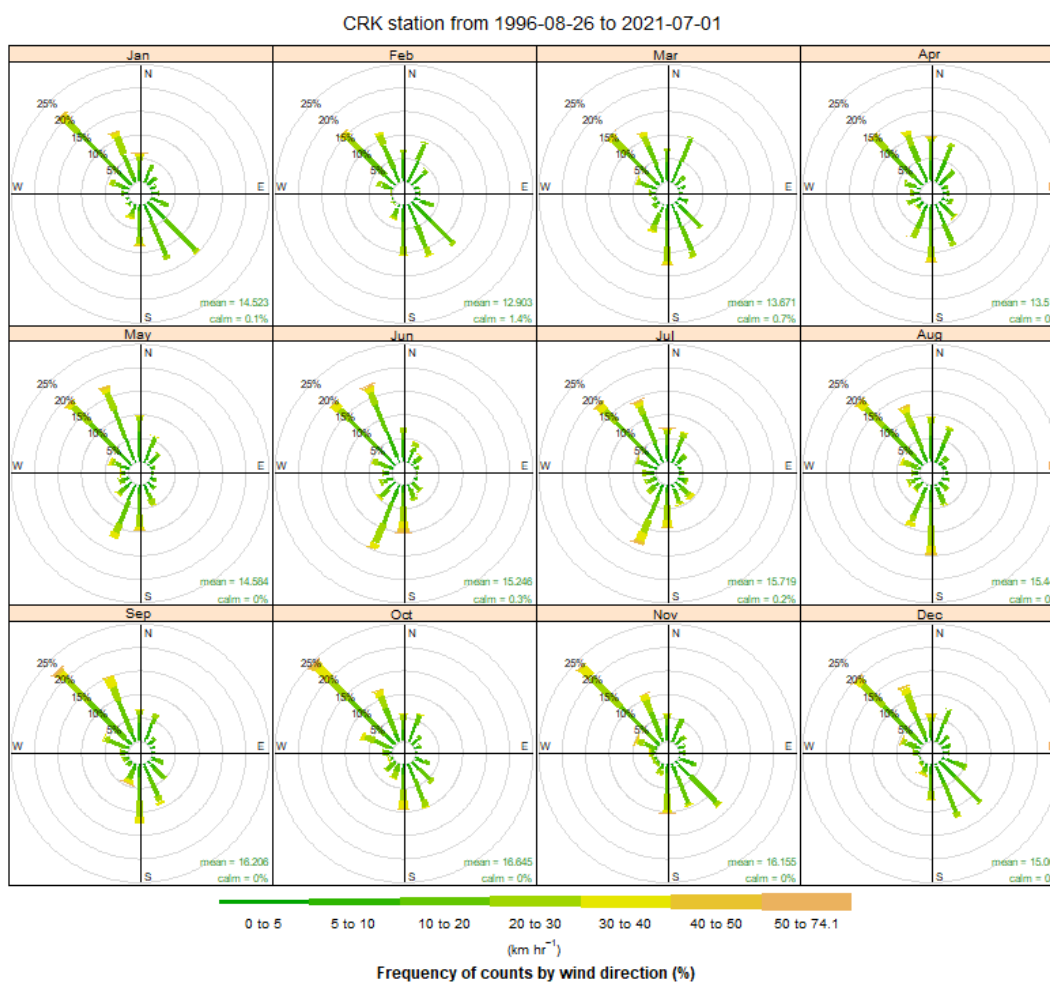
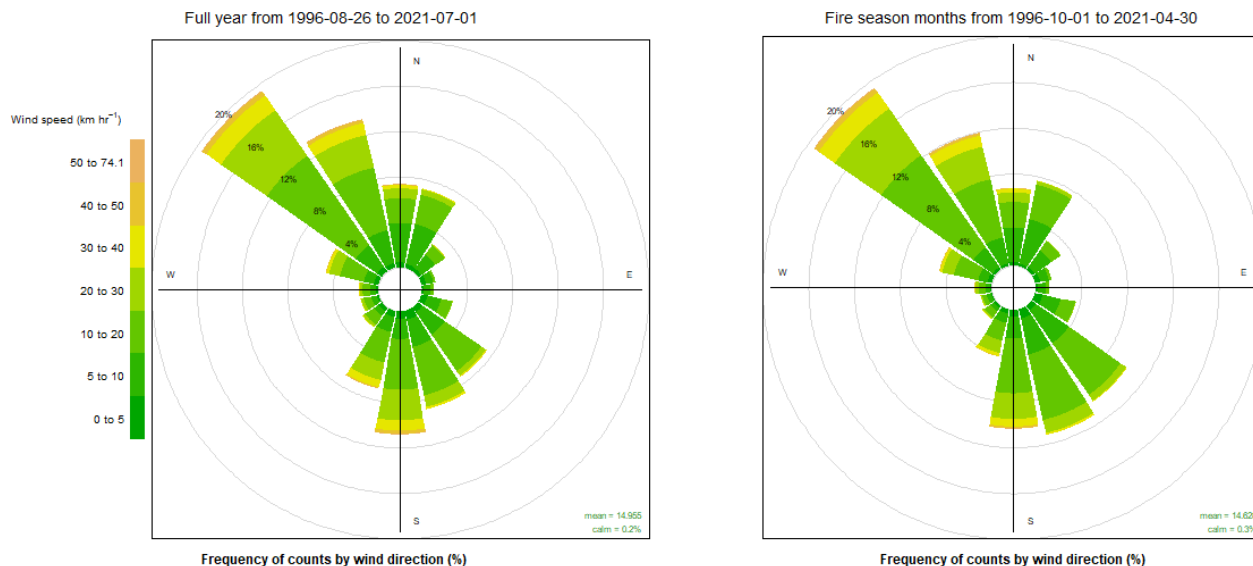
### BRP station from 1997-02-25 to 2021-07-02



Station Name: Cricklewood Raws (CRK)      Period: 1996-08-26 - 2021-07-01      Length of record: 24 years													FIRE SEASON		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR		
<b>Temperature, degrees Celsius</b>															
mean	21.3	20.8	18.9	16.2	14.0	11.0	10.0	11.0	12.9	15.3	16.9	19.2	15.6	18.4	
median	21.7	21.4	19.3	16.4	14.2	11.2	10.0	11.3	13.1	15.8	17.1	19.7	15.3	18.4	
max	33.3	33.1	37.1	27.2	32.4	29.7	22.6	30.3	23.4	28.0	29.1	27.7	37.1	37.1	
min	8.7	9.8	6.0	3.7	3.8	2.8	-6.7	1.0	2.0	4.1	3.9	4.8	-6.7	3.7	
<b>Relative Humidity, %</b>															
mean	60.1	63.0	66.4	69.6	70.9	73.0	73.8	70.1	66.7	62.6	62.2	62.7	66.7	63.8	
median	56.6	60.2	64.0	68.0	69.0	69.8	72.0	68.0	64.0	59.0	59.0	60.9	64.7	61.0	
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
min	22.2	21.0	24.0	35.0	30.0	42.0	7.0	10.0	28.0	24.0	25.0	23.0	7.0	21.0	
<b>Wind Speed, km/h</b>															
mean	14.6	13.4	13.6	13.4	14.7	15.6	15.9	15.9	16.7	17.0	16.4	15.3	15.2	14.8	
median	13.0	11.5	11.9	11.8	12.2	13.3	13.3	14.0	15.1	14.8	14.8	13.4	13.1	13.0	
max	74.1	49.5	54.0	49.2	67.0	64.9	58.9	61.1	72.6	58.4	58.8	60.8	74.1	74.1	
min	0.0	0.0	0.0	1.7	1.1	0.0	0.0	0.4	2.4	2.2	1.0	2.0	0.0	0.0	
<b>24-hr Rainfall, millimetres</b>															
mean	2.9	2.8	3.6	4.0	2.8	3.4	4.4	3.2	3.8	3.0	2.5	2.7	3.3	3.1	
median	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	
max	106.6	77.2	90.4	142.2	63.0	71.6	68.8	83.4	122.0	129.2	81.2	63.4	142.2	142.2	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Rainfall, millimetres</b>															
mean	92.4	77.4	112.5	123.4	83.8	103.1	137.5	99.4	115.7	93.8	78.1	84.3	100.1	94.6	
max	294.8	213.2	273.2	280.8	208.0	208.0	225.0	224.0	365.8	262.6	238.6	157.0	365.8	294.8	
min	10.8	13.4	20.4	28.6	7.8	35.8	32.2	35.2	20.0	10.4	11.8	20.2	7.8	10.4	
<b>Seasonal Rainfall, millimetres</b>															
mean													1201.4	653.3	
max													1561.2	1168.8	
min													803.5	297.2	
<b>Fine Fuel Moisture Code, FFMC</b>															
mean	74.3	71.4	67.8	66.1	66.0	61.4	57.6	62.7	65.3	71.0	72.8	73.0	67.5	70.9	
median	84.8	82.9	80.3	77.4	77.0	72.3	67.7	72.7	76.8	81.3	82.7	83.2	78.7	81.8	
max	94.3	94.7	92.9	89.7	90.0	88.1	87.9	87.8	90.5	92.9	93.2	92.3	94.7	94.7	
min	2.5	0.9	1.6	1.2	2.4	0.0	1.2	0.2	0.0	1.3	0.3	2.3	0.0	0.3	
<b>Duff Moisture Code, DMC</b>															
mean	23.8	20.9	15.0	10.2	6.7	3.7	2.1	3.5	6.2	11.3	16.4	19.2	11.6	16.7	
median	20.6	16.2	10.5	6.4	5.2	2.5	1.5	2.8	5.1	9.3	13.7	15.5	7.0	12.4	
max	81.5	99.9	79.2	78.6	38.2	45.6	12.9	15.5	25.1	42.5	53.6	91.8	99.9	99.9	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Drought Code, DC</b>															
mean	219.1	254.4	217.8	157.6	119.8	72.5	21.3	15.0	19.0	43.9	101.2	158.4	116.5	163.8	
median	220.0	253.6	193.1	107.4	81.8	28.6	8.8	11.5	15.5	37.8	96.1	156.2	71.6	139.6	
max	466.6	629.7	683.2	709.5	595.7	580.3	256.5	64.1	65.2	163.9	263.8	349.3	709.5	709.5	
min	6.3	6.0	3.7	2.3	0.4	0.2	0.0	0.2	0.1	1.7	3.5	5.9	0.0	1.7	
<b>Initial Spread Index, ISI</b>															
mean	5.0	3.9	3.3	2.5	2.6	2.1	1.8	2.3	3.1	4.0	4.3	4.2	3.3	3.9	
median	4.0	2.9	2.3	1.7	1.7	1.3	1.1	1.5	2.0	2.9	3.2	3.2	2.1	2.8	
max	41.6	28.1	27.1	18.4	25.7	18.4	23.0	21.5	27.2	29.1	32.9	32.9	41.6	41.6	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Buildup Index, BUI</b>															
mean	35.8	33.1	24.4	16.6	10.7	5.8	2.8	4.1	6.8	13.3	22.4	27.9	17.0	24.7	
median	32.3	26.8	17.8	10.4	8.3	3.6	2.1	3.3	5.7	11.6	19.4	23.6	10.2	19.0	
max	110.5	135.0	122.8	123.1	65.2	76.3	21.2	19.2	25.2	51.6	68.7	110.8	135.0	135.0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Fire Weather Index, FWI</b>															
mean	10.6	8.4	6.4	3.8	3.1	1.8	1.1	1.7	2.9	5.1	7.3	7.8	5.0	7.1	
median	8.1	5.7	3.2	1.4	0.9	0.5	0.3	0.6	0.9	3.3	5.3	5.8	1.8	4.3	
max	65.4	60.4	53.9	45.4	33.6	35.6	18.6	16.4	24.3	33.1	43.7	51.2	65.4	65.4	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Daily Severity Rating, DSR</b>															
mean	3.0	2.2	1.5	0.7	0.5	0.2	0.1	0.2	0.4	0.9	1.6	1.8	1.1	1.7	
median	1.1	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.6	0.1	0.4	
max	44.5	38.7	31.6	23.3	13.7	15.1	4.8	3.8	7.7	13.3	21.8	28.8	44.5	44.5	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Severity Rating, MSR</b>															
mean	93.0	61.0	48.9	20.6	14.6	7.3	3.0	4.8	11.9	28.1	46.3	55.4	32.9	50.5	
max	333.1	319.0	324.4	117.6	95.9	69.2	9.1	11.3	49.0	134.1	157.9	212.9	333.1	333.1	
min	16.8	3.2	2.8	0.4	0.6	0.2	0.1	0.3	0.9	3.8	7.3	3.4	0.1	0.4	
<b>Cumulative Daily Severity Rating, CDSR</b>															
mean													394.9	351.8	
max													1367.3	1423.8	
min													97.9	84.2	

Station Name: Cricklewood Raws (CRK)      Period: 1996-08-26 - 2021-07-01      Length of record: 24 years														
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	11.8	13.5	17.7	22.3	25.0	28.2	30.7	30.2	25.8	21.4	14.7	14.2	255.4	115.1
max	22	28	30	30	31	30	31	31	30	31	26	31	314	166
min	2	1	4	9	4	21	28	25	10	1	2	3	184	56
<b>Moderate</b>														
mean	10.6	9.6	9.9	6.4	5.5	1.5	0.3	0.8	4.1	8.5	12.1	12.9	82.1	70.4
max	18	19	20	18	20	9	3	6	17	22	20	18	140	98
min	1	1	1	0	0	0	0	0	0	0	4	0	41	41
<b>High</b>														
mean	5.7	3.0	2.0	1.0	0.4	0.2	0.0	0.0	0.1	1.0	2.5	2.7	18.7	18.2
max	13	9	7	7	4	4	0	0	3	11	10	10	41	45
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	1.4	1.1	0.6	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.5	0.8	4.7	4.6
max	4	7	8	2	2	0	0	0	0	3	3	4	21	21
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.2	0.9	0.6	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.4	3.7	3.4
max	10	8	5	2	1	3	0	0	0	0	2	6	24	30
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.7
max	3	3	5	1	0	0	0	0	0	0	0	1	12	13
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Eastern (Wairoa)														
Curing%	70	70	60	50	30	30	30	30	30	40	50	60		
<b>Low</b>														
mean	5.4	6.3	9.1	8.5	9.8	11.4	13.8	11.4	9.8	6.7	5.8	6.2	104.1	47.6
max	15	11	18	14	17	21	27	20	17	15	14	16	149	74
min	1	0	2	4	1	3	5	3	3	0	0	1	76	22
<b>Moderate</b>														
mean	13.3	13.5	19.1	19.4	20.2	18.1	16.5	18.8	18.6	20.0	18.0	21.1	216.6	124.9
max	25	21	25	25	26	27	26	25	26	26	23	28	248	150
min	6	8	10	15	13	9	4	11	13	13	13	14	187	102
<b>High</b>														
mean	10.3	7.6	2.6	2.1	1.0	0.5	0.7	0.8	1.6	4.2	5.8	3.4	40.8	36.0
max	19	15	14	6	4	3	2	4	6	14	13	9	76	74
min	2	2	0	0	0	0	0	0	0	0	0	0	10	6
<b>Very High</b>														
mean	1.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.3	3.4	3.3
max	5	4	2	0	0	0	0	0	0	1	3	2	9	11
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
max	3	1	0	0	0	0	0	0	0	0	0	0	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	6.3	7.1	9.0	9.0	9.4	10.9	13.2	10.7	9.4	7.2	6.5	6.5	105.2	51.2
max	15	15	18	15	18	19	25	18	20	17	14	15	144	78
min	1	0	3	4	0	5	4	4	2	0	1	1	80	25
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.0	2.7	3.0	3.6	3.2	4.0	4.2	3.5	2.8	2.7	2.6	2.9	37.3	19.7
max	5	6	10	8	11	10	10	9	6	6	7	8	57	35
min	0	0	1	2	1	1	1	1	0	0	0	0	19	9
<b>Very High</b>														
mean	2.5	2.7	2.7	4.0	4.5	4.3	4.4	4.4	3.1	3.2	2.4	2.5	40.7	20.1
max	7	6	6	9	12	10	7	9	6	8	6	5	53	30
min	0	0	0	1	1	2	0	1	1	0	0	0	31	13
<b>Extreme</b>														
mean	5.0	5.4	7.0	7.5	8.0	6.5	5.9	7.2	6.5	6.9	6.6	7.3	79.7	46.1
max	9	11	11	13	15	13	13	12	12	15	13	13	107	68
min	1	1	2	2	2	2	0	2	1	0	1	1	56	27
<b>Very Extreme</b>														
mean	15.1	10.5	9.4	5.8	5.9	4.2	3.3	5.2	8.1	11.0	12.0	11.8	102.2	75.1
max	25	22	25	13	15	13	8	12	20	27	22	24	168	137
min	5	2	1	0	0	0	0	0	0	1	4	1	39	31

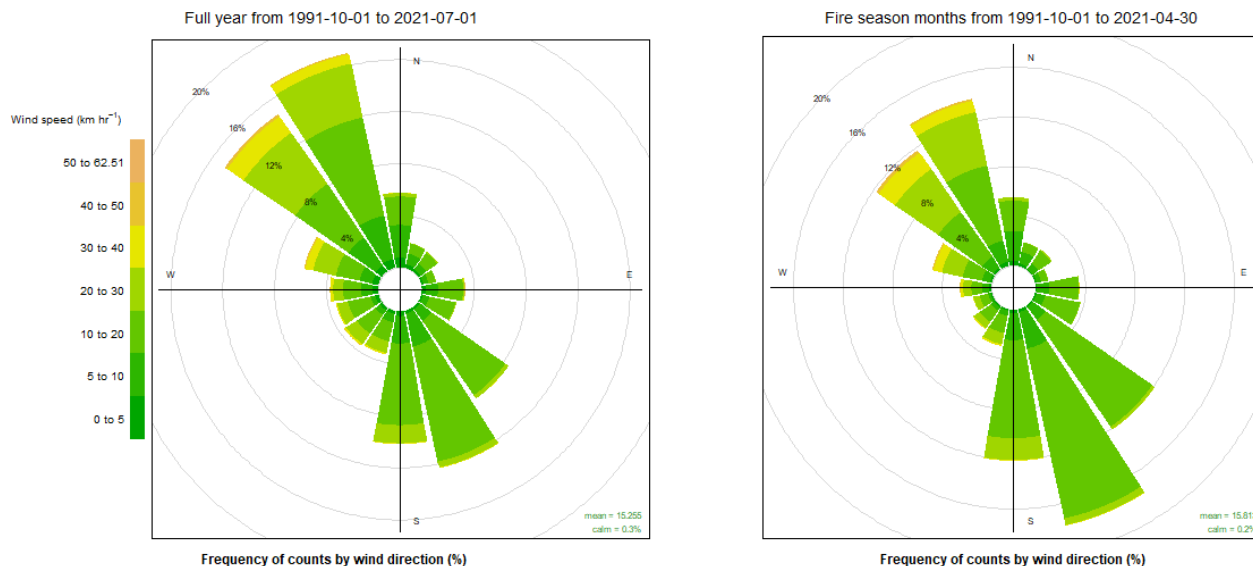
### Windroses for Cricklewood Raws (CRK)



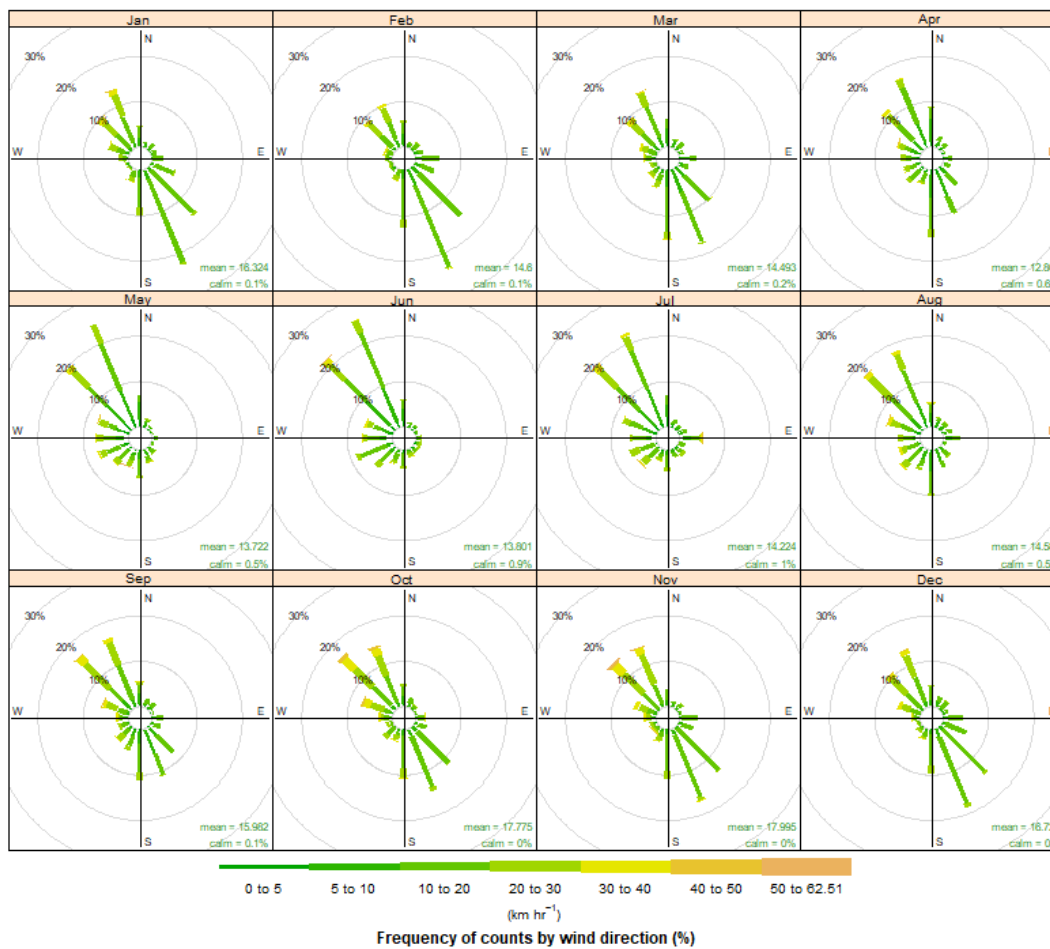
Station Name: Gisborne Aero (GSA)		Period: 1963-01-01 - 2021-07-01											Length of record: 58 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.9	22.6	21.0	18.6	15.9	13.4	12.6	13.6	15.4	17.5	19.4	21.4	17.8	20.5
median	23.0	22.2	21.0	18.8	16.0	13.3	12.3	13.6	15.5	17.7	19.2	21.5	17.8	20.2
max	35.0	37.0	31.8	28.5	25.0	22.0	20.0	21.1	23.2	28.0	32.0	34.0	37.0	37.0
min	12.0	13.0	11.0	9.0	6.1	3.7	-0.3	5.9	1.1	7.0	10.0	10.0	-0.3	7.0
<b>Relative Humidity, %</b>														
mean	57.6	60.8	63.1	64.7	66.8	70.2	70.0	66.3	62.9	60.5	58.3	58.9	63.4	60.6
median	56	60	62	63	65	69	69	65	61	59	57	57	62	59
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	20	18	22	28	33	35	38	19	29	25	14	15	14	14
<b>Wind Speed, km/h</b>														
mean	19.0	17.5	16.4	14.9	15.6	15.6	15.8	16.6	18.8	20.3	20.6	19.5	17.5	18.3
median	18.5	16.7	14.8	13.0	14.8	14.8	14.8	15.0	17.6	18.5	18.5	18.5	16.7	17.0
max	53.7	64.8	75.9	64.8	62.5	74.1	61.1	55.6	68.5	66.7	66.7	64.8	75.9	75.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	1.9	2.5	3.0	3.3	2.9	3.7	3.9	3.0	2.8	2.1	2.0	2.1	2.8	2.4
median	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
max	65.8	150.3	170.2	101.8	112.4	156.2	200.0	113.0	114.0	122.4	86.2	67.2	200.0	170.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	59.4	70.3	94.4	99.0	90.5	112.2	121.8	92.5	85.2	66.5	60.5	64.5	84.7	73.5
max	143.0	191.5	322.3	389.0	306.4	327.9	322.8	296.9	246.1	224.8	146.0	199.8	389.0	389.0
min	4.0	4.0	8.4	3.7	10.4	37.7	23.3	8.0	9.8	6.0	10.6	1.6	1.6	1.6
<b>Seasonal Rainfall, millimetres</b>														
mean													1016.9	515.5
max													1482.2	918.6
min													580.0	191.6
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	81.0	78.8	76.4	73.3	70.9	66.5	64.5	69.0	72.9	77.2	78.9	79.4	74.0	77.8
median	86.6	85.6	84.1	82.1	80.0	75.3	71.5	77.2	81.5	84.0	85.2	85.8	82.5	84.8
max	94.7	95.7	93.7	91.6	89.9	88.7	87.4	90.4	91.2	92.9	94.5	96.6	96.6	96.6
min	0.0	7.9	0.0	2.4	1.9	1.0	1.6	0.0	2.1	2.2	10.1	2.5	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	35.5	31.8	22.5	15.6	9.5	4.6	2.9	5.1	9.2	16.9	25.4	30.3	17.4	25.4
median	29.8	24.1	15.7	10.9	7.2	3.2	2.1	4.2	7.2	14.2	20.7	24.7	10.7	18.8
max	180.3	157.6	151.4	127.4	66.7	38.2	16.9	28.3	53.5	73.8	101.7	150.2	180.3	180.3
min	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0
<b>Drought Code, DC</b>														
mean	306.6	343.6	305.2	236.1	164.1	91.9	39.8	27.5	33.8	69.1	136.3	220.7	164.3	230.7
median	312.1	332.2	284.0	210.4	140.7	55.3	16.6	20.0	25.3	61.9	129.0	216.8	120.4	208.0
max	619.5	768.7	865.1	880.8	663.7	614.3	363.8	139.0	141.6	250.1	371.7	535.0	880.8	880.8
min	6.6	6.4	4.6	3.0	0.9	0.4	0.6	0.8	0.7	2.6	4.3	6.6	0.4	2.6
<b>Initial Spread Index, ISI</b>														
mean	7.5	6.1	4.9	3.8	3.5	2.5	2.3	3.0	4.4	6.0	7.1	6.8	4.8	6.0
median	6.1	4.9	3.7	2.7	2.3	1.6	1.3	1.9	3.0	4.5	5.3	5.4	3.2	4.5
max	52.8	55.8	44.3	37.5	38.0	31.6	20.4	29.1	30.2	59.1	58.5	57.5	59.1	59.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	52.8	49.4	36.0	25.4	15.3	7.3	4.2	6.4	10.6	20.2	33.0	42.9	25.2	37.0
median	46.8	40.4	27.0	18.4	11.6	5.1	3.0	5.4	8.3	17.4	28.6	38.1	16.0	28.8
max	185.7	199.1	210.7	182.8	104.5	66.1	20.8	30.1	53.4	78.7	119.7	156.2	210.7	210.7
min	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	17.2	14.2	10.2	6.8	4.8	2.3	1.7	2.6	4.9	8.7	12.8	14.5	8.4	12.1
median	15.3	11.6	7.0	4.3	2.4	0.7	0.5	0.9	3.0	6.6	10.5	12.6	4.5	9.0
max	78.6	88.5	88.4	76.9	64.9	30.9	18.7	26.1	32.0	68.1	72.8	88.2	88.5	88.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	6.0	4.6	2.9	1.6	0.9	0.3	0.2	0.3	0.8	2.1	3.8	4.6	2.3	3.7
median	3.4	2.1	0.9	0.4	0.1	0.0	0.0	0.0	0.2	0.8	1.7	2.4	0.4	1.3
max	61.6	76.0	75.9	59.3	43.9	11.8	4.8	8.7	12.6	47.7	53.7	75.5	76.0	76.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	186.9	131.6	91.4	48.8	27.9	9.0	5.1	10.1	25.2	64.6	113.6	142.8	71.4	111.4
max	690.7	445.4	628.1	394.1	135.9	73.4	19.3	49.0	134.7	321.9	409.2	530.6	690.7	690.7
min	20.6	17.5	6.3	3.0	1.4	0.3	0.2	1.0	1.7	5.9	14.0	16.2	0.2	3.0
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													857.0	775.3
max													2209.6	2597.9
min													310.0	263.6

Station Name: Gisborne Aero (GSA)														Period: 1963-01-01 - 2021-07-01	Length of record: 58 years
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Forest Fire Danger Class (FFDC) Frequency</b>															
<b>Low</b>															
mean	6.5	8.0	12.9	16.4	21.3	26.8	29.9	27.8	21.2	13.8	8.7	8.2	201.6	74.5	
max	19	20	26	29	31	30	31	31	30	31	20	25	251	131	
min	0	0	0	1	1	14	24	12	3	0	0	0	136	15	
<b>Moderate</b>															
mean	9.5	10.3	11.7	10.7	8.2	3.0	1.1	3.2	8.0	13.2	12.6	11.1	102.7	79.4	
max	23	17	21	24	22	13	7	19	20	26	20	21	163	111	
min	1	0	3	1	0	0	0	0	0	0	4	4	59	40	
<b>High</b>															
mean	7.2	4.9	3.6	1.7	1.2	0.1	0.0	0.0	0.6	3.1	5.3	6.8	34.4	32.5	
max	17	15	15	9	10	3	0	0	9	16	13	16	63	66	
min	0	0	0	0	0	0	0	0	0	0	0	0	18	11	
<b>Very High</b>															
mean	3.6	2.3	1.2	0.5	0.3	0.1	0.0	0.0	0.1	0.5	1.7	2.3	12.7	12.3	
max	11	11	7	9	4	5	0	0	4	4	8	9	33	43	
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
<b>Extreme</b>															
mean	3.0	1.9	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.3	1.5	1.8	10.0	9.8	
max	13	11	9	8	2	0	0	0	0	9	10	10	31	44	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	1.2	0.8	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.7	3.9	3.8	
max	13	6	11	3	1	0	0	0	0	2	5	6	31	38	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Grass Fire Danger Class (GFDC) Frequency</b>															
Curing source Eastern (Tairawhiti (Gisborne))															
Curing%	70	75	80	75	70	60	50	65	70	75	85	85			
<b>Low</b>															
mean	2.0	2.2	3.1	4.5	5.7	8.9	9.9	6.8	4.6	2.7	2.1	2.1	54.5	18.7	
max	8	8	9	14	17	16	19	16	13	9	8	8	79	39	
min	0	0	0	0	0	2	1	0	0	0	0	0	29	6	
<b>Moderate</b>															
mean	11.2	10.9	13.5	16.8	18.8	19.6	18.8	20.0	16.2	13.1	8.9	8.7	176.3	83.1	
max	21	19	22	25	27	28	27	26	26	23	18	18	211	110	
min	0	2	2	3	11	11	9	12	8	2	1	1	136	33	
<b>High</b>															
mean	13.5	11.7	10.9	6.9	5.6	1.5	2.2	3.9	7.8	11.1	10.8	12.5	98.7	77.8	
max	25	22	23	20	16	9	9	13	16	21	19	22	134	108	
min	5	5	2	1	0	0	0	0	1	5	3	5	69	56	
<b>Very High</b>															
mean	3.3	2.6	2.4	1.3	0.8	0.1	0.1	0.2	1.3	2.9	4.8	4.9	24.8	22.1	
max	10	8	8	7	7	1	1	3	6	14	12	11	48	44	
min	0	0	0	0	0	0	0	0	0	0	0	1	9	6	
<b>Extreme</b>															
mean	1.0	0.9	1.1	0.4	0.1	0.0	0.0	0.0	0.2	1.2	3.2	2.5	10.4	10.0	
max	7	6	6	7	1	0	0	0	4	6	11	9	30	33	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.5	0.5	
max	0	1	1	0	0	0	0	0	0	2	2	3	4	4	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Scrub Fire Danger Class (SFDC) Frequency</b>															
<b>Low</b>															
mean	2.8	3.4	4.6	6.1	7.3	9.3	10.8	8.2	6.4	4.0	3.6	3.5	70.0	27.9	
max	8	9	10	16	17	17	22	17	17	10	9	11	96	49	
min	0	0	0	0	0	3	3	0	0	0	0	0	42	11	
<b>Moderate</b>															
mean	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.3	0.0	
max	0	0	0	1	1	1	1	1	0	0	0	0	2	1	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>High</b>															
mean	1.2	1.8	2.6	2.8	3.8	3.8	4.6	3.4	2.2	2.1	1.4	1.4	31.2	13.4	
max	3	8	6	7	12	9	10	9	7	8	7	4	47	25	
min	0	0	0	0	0	0	0	0	0	0	0	0	19	1	
<b>Very High</b>															
mean	2.2	2.1	3.2	3.6	3.4	4.4	4.2	5.0	3.3	2.9	2.3	2.2	38.7	18.3	
max	6	8	8	9	9	10	13	11	9	8	8	7	56	31	
min	0	0	0	0	0	1	1	1	0	0	0	0	25	6	
<b>Extreme</b>															
mean	4.5	5.0	7.1	8.0	7.8	7.1	5.9	7.1	6.6	6.0	5.2	5.2	75.4	41.2	
max	10	11	13	16	16	16	15	14	14	12	13	11	99	67	
min	0	0	1	1	3	1	0	2	1	1	0	0	47	20	
<b>Very Extreme</b>															
mean	20.4	15.9	13.6	9.4	8.6	5.4	5.4	7.3	11.5	16.0	17.5	18.7	149.7	111.4	
max	31	28	27	26	22	13	19	21	23	29	27	29	213	174	
min	10	5	1	1	0	0	0	2	2	6	6	5	102	68	

### Windroses for Gisborne Aero (GSA)



### GSA station from 1991-10-01 to 2021-07-01





Station Name: Hicks Bay (HIX)

Period: 1994-09-18 - 2021-07-01

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	21.0	21.5	20.5	18.8	16.4	14.1	13.4	13.7	14.9	16.1	17.4	19.3	17.3	19.2
median	21.0	22.0	20.8	19.0	16.8	14.3	13.7	14.0	15.0	16.0	17.1	19.2	17.0	19.0
max	27.8	30.4	25.5	23.7	22.5	19.0	18.5	18.0	20.0	22.0	25.0	24.0	30.4	30.4
min	12.0	15.7	12.0	10.6	3.9	5.8	4.7	5.1	8.1	9.0	10.0	11.0	3.9	9.0
<b>Relative Humidity, %</b>														
mean	72.7	71.9	71.6	71.2	71.6	72.0	72.3	71.7	73.6	74.0	73.9	75.9	72.7	73.0
median	73	71	71	70	70	70	71	70	73	74	74	76	72	73
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	22	29	37	30	19	42	35	36	43	41	33	28	19	22
<b>Wind Speed, km/h</b>														
mean	26.9	26.1	25.7	24.6	25.1	24.8	25.7	25.5	29.7	30.4	29.5	26.9	26.7	27.2
median	26.0	26.0	24.1	24.0	26.0	24.0	24.1	24.1	30.0	30.0	29.7	26.0	26.0	26.0
max	80.0	74.1	92.7	80.0	73.7	82.0	72.3	75.0	67.0	82.0	70.0	72.3	92.7	92.7
min	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.1	1.8	2.0	3.7	0.0	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	2.4	3.2	3.8	3.5	4.3	5.4	5.7	4.9	3.8	3.2	2.6	3.1	3.8	3.1
median	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0
max	86.0	132.6	137.2	85.6	108.8	90.6	111.6	109.8	60.0	83.0	55.6	89.2	137.2	137.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	76.0	92.4	121.3	107.8	132.8	160.6	178.3	151.5	112.9	96.7	79.8	98.9	117.4	96.1
max	191.0	353.4	420.4	269.8	447.6	301.4	287.2	344.8	215.6	201.4	185.0	307.0	447.6	420.4
min	6.6	11.2	21.6	23.2	21.0	93.2	48.2	68.8	32.2	21.6	14.2	9.4	6.6	6.6
<b>Seasonal Rainfall, millimetres</b>														
mean													1408.9	664.9
max													2072.0	1051.8
min													1024.2	374.4
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	75.9	75.5	74.2	72.7	69.8	64.8	63.4	64.2	67.5	70.4	72.9	71.5	70.3	73.3
median	83.0	83.3	82.6	81.4	78.7	72.4	70.6	72.1	76.5	77.7	80.4	80.6	79.6	81.4
max	91.6	92.8	89.6	88.3	90.0	87.5	87.3	88.0	86.8	87.9	90.3	89.0	92.8	92.8
min	0.4	3.1	1.8	7.7	2.7	1.2	0.3	0.5	4.8	6.0	6.0	0.3	0.3	0.3
<b>Duff Moisture Code, DMC</b>														
mean	16.8	21.5	13.9	9.5	6.7	2.8	2.1	2.5	4.5	6.0	9.1	11.0	8.9	12.5
median	13.9	15.9	11.5	7.8	5.0	2.0	1.3	2.0	3.6	4.9	8.1	9.7	5.8	9.5
max	69.3	97.6	65.7	36.8	34.5	19.2	15.1	11.1	18.3	22.7	31.8	46.0	97.6	97.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	207.1	258.3	205.8	156.5	90.6	32.2	9.6	10.8	15.3	31.1	77.2	134.3	102.3	151.9
median	203.8	238.0	183.1	129.8	51.0	11.4	6.5	7.6	11.4	24.5	71.2	134.8	49.0	120.2
max	473.8	637.3	698.6	592.4	359.1	319.5	64.1	52.7	74.8	153.0	215.6	295.3	698.6	698.6
min	7.3	5.9	4.6	3.4	0.4	1.0	0.6	0.9	1.2	2.9	4.9	6.2	0.4	2.9
<b>Initial Spread Index, ISI</b>														
mean	6.6	6.4	5.6	4.8	4.2	3.3	3.0	3.3	4.6	5.0	5.7	5.0	4.8	5.6
median	5.3	5.3	4.7	3.8	3.2	2.2	2.1	2.3	3.4	3.8	4.2	4.0	3.6	4.4
max	36.4	28.9	33.7	23.2	22.5	25.1	21.4	20.4	20.8	22.9	26.4	23.2	36.4	36.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	27.1	34.1	22.7	15.4	10.2	4.1	2.6	3.0	5.1	7.7	13.4	17.5	13.6	19.6
median	23.2	26.2	18.8	13.0	7.6	2.8	1.7	2.3	4.1	6.4	12.1	15.8	8.2	14.9
max	95.8	132.7	104.3	63.7	45.2	33.4	18.4	13.2	21.8	26.4	43.0	65.1	132.7	132.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	11.3	12.3	8.9	6.3	4.6	2.4	1.8	2.1	3.7	4.7	6.9	7.1	6.0	8.2
median	9.3	9.9	7.3	4.7	2.6	0.8	0.6	0.8	2.2	3.3	5.4	5.8	3.6	6.2
max	62.6	61.0	60.8	32.9	27.6	26.1	15.3	18.0	23.5	26.0	33.5	38.0	62.6	62.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.9	3.5	2.1	1.2	0.7	0.3	0.2	0.2	0.5	0.7	1.3	1.4	1.2	1.8
median	1.4	1.6	0.9	0.4	0.2	0.0	0.0	0.0	0.1	0.2	0.5	0.6	0.3	0.7
max	41.1	39.3	39.1	13.2	9.6	8.7	3.4	4.6	7.3	8.7	13.6	17.0	41.1	41.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	87.8	94.0	63.9	33.3	22.4	9.0	5.1	6.6	15.2	22.1	38.1	39.7	36.4	54.1
max	218.1	330.9	239.4	80.0	73.0	26.3	17.3	17.2	58.6	65.8	119.3	144.7	330.9	330.9
min	16.6	14.8	11.4	7.5	1.2	0.7	0.8	0.5	2.7	3.2	6.7	6.1	0.5	3.2
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													437.2	390.2
max													938.8	781.5
min													198.2	176.3

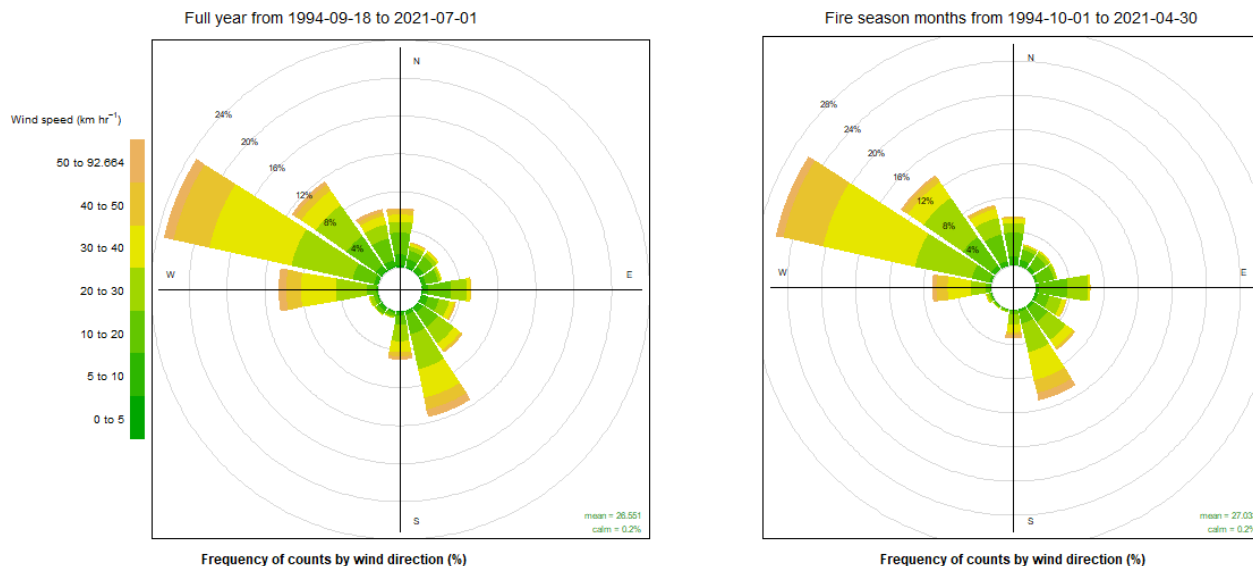
Station Name: Hicks Bay (HIX)

Period: 1994-09-18 - 2021-07-01

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	10.5	9.4	13.2	17.7	22.6	27.9	30.6	30.4	26.4	23.7	17.0	15.9	245.3	105.8
max	22	25	28	30	31	30	31	31	30	31	30	30	310	150
min	0	1	3	5	6	18	25	27	12	10	6	1	161	51
<b>Moderate</b>														
mean	13.5	11.4	13.7	10.8	7.7	2.0	0.4	0.6	3.6	7.3	11.8	13.3	96.1	82.4
max	18	20	21	21	19	12	6	4	18	21	20	23	149	112
min	7	2	3	0	0	0	0	0	0	0	0	1	46	59
<b>High</b>														
mean	4.7	4.4	2.8	1.2	0.8	0.1	0.0	0.0	0.0	0.1	1.1	1.7	16.8	16.6
max	16	12	10	5	9	2	0	0	0	2	7	11	34	30
min	0	0	0	0	0	0	0	0	0	0	0	0	2	4
<b>Very High</b>														
mean	1.5	1.6	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	4.3	4.5
max	7	7	5	2	0	0	0	0	0	0	2	2	16	16
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.7	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.1	2.4
max	5	5	4	1	0	0	0	0	0	0	0	2	13	13
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
max	1	5	4	0	0	0	0	0	0	0	0	0	6	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source	Eastern (Tairawhiti (Gisborne))													
Curing%	70	75	80	75	70	60	50	65	70	75	85	85		
<b>Low</b>														
mean	2.8	2.7	3.4	3.5	4.6	8.1	8.2	7.4	5.5	3.3	2.8	4.0	56.3	22.2
max	10	12	8	9	12	16	16	18	12	10	6	10	99	36
min	0	0	0	1	0	2	3	2	0	0	0	0	34	9
<b>Moderate</b>														
mean	12.7	9.4	10.7	14.1	17.4	18.9	19.5	18.6	14.4	13.8	10.8	10.2	170.5	80.9
max	21	16	19	18	25	24	25	24	22	22	17	17	191	105
min	5	3	4	8	12	12	12	11	9	5	5	5	150	66
<b>High</b>														
mean	12.2	11.7	12.0	10.0	8.0	3.0	3.2	4.8	8.5	10.8	10.7	12.1	107.0	80.1
max	24	16	18	19	19	6	8	11	13	19	18	20	131	98
min	5	2	4	4	1	0	1	0	2	3	7	4	71	63
<b>Very High</b>														
mean	3.1	3.7	3.8	2.1	1.0	0.0	0.1	0.2	1.6	2.8	3.7	3.5	25.6	23.1
max	8	7	8	5	4	1	1	2	8	8	10	9	47	36
min	0	0	0	0	0	0	0	0	0	0	0	0	15	13
<b>Extreme</b>														
mean	0.2	0.7	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.2	2.0	1.3	5.9	6.0
max	2	4	5	2	0	0	0	0	0	2	9	5	10	12
min	0	0	0	0	0	0	0	0	0	0	0	0	1	2
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.4	3.9	4.8	5.7	7.7	10.4	11.3	10.8	8.3	6.7	5.2	6.3	85.5	36.6
max	12	14	9	14	18	18	18	21	16	14	12	16	135	57
min	0	0	1	1	1	5	4	4	1	1	0	0	56	21
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.7	0.4	0.7	1.0	1.5	2.0	1.8	1.5	0.9	1.0	0.5	0.8	13.0	5.1
max	3	2	2	4	5	7	5	4	3	2	2	2	23	10
min	0	0	0	0	0	0	0	0	0	0	0	0	6	1
<b>Very High</b>														
mean	1.3	1.2	2.2	2.4	2.2	2.4	3.0	2.8	2.4	2.1	2.3	2.0	26.3	13.4
max	5	3	8	8	8	6	7	8	7	6	6	4	41	26
min	0	0	0	0	0	0	0	0	0	0	0	0	17	8
<b>Extreme</b>														
mean	5.9	5.9	6.8	7.7	8.2	6.3	7.3	7.3	5.7	6.7	7.3	7.8	82.8	47.4
max	11	12	12	13	16	11	15	13	10	11	11	13	98	66
min	1	3	3	4	4	2	3	3	2	2	4	3	65	36
<b>Very Extreme</b>														
mean	18.7	16.8	16.5	13.2	11.4	8.9	7.6	8.5	12.8	14.4	14.7	14.2	157.7	109.7
max	28	24	23	23	21	19	17	17	23	25	22	24	195	137
min	9	3	6	7	3	2	2	2	6	3	8	5	104	81

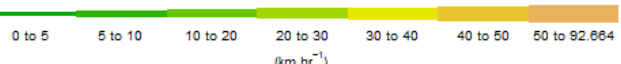
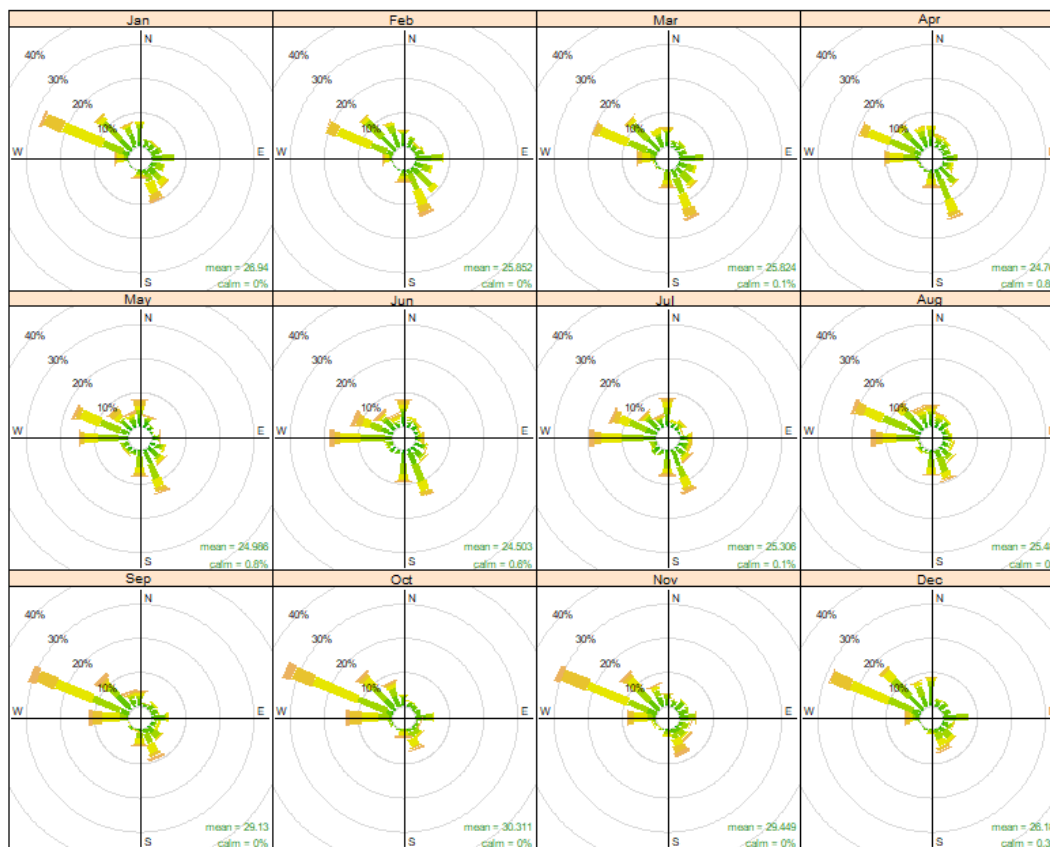
### Windroses for Hicks Bay (HIX)



Frequency of counts by wind direction (%)

Frequency of counts by wind direction (%)

### HIX station from 1994-09-18 to 2021-07-01



Frequency of counts by wind direction (%)

Station Name: Mahia (MHX)		Period: 1994-10-14 - 2021-07-02											Length of record: 26 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	20.4	20.4	19.0	16.9	14.7	12.5	11.6	12.0	13.7	15.4	16.8	18.8	16.0	18.3
median	20.0	20.0	19.0	17.0	15.0	12.7	11.7	12.0	13.9	15.4	17.0	18.9	16.0	18.0
max	31.0	34.0	29.5	26.0	22.7	19.7	19.7	19.5	22.0	25.5	26.0	29.0	34.0	34.0
min	8.0	12.6	11.0	8.8	6.0	4.6	2.9	4.2	6.3	8.0	7.0	10.0	2.9	7.0
<b>Relative Humidity, %</b>														
mean	68.5	70.0	71.0	73.1	73.3	74.4	74.9	73.0	70.1	68.0	68.4	70.2	71.2	69.9
median	69.0	71.0	71.0	73.0	73.0	74.6	75.0	73.0	70.0	68.0	69.0	71.0	72.0	70.0
max	100	100	100	100	100	100	100	100	99	100	99	100	100	100
min	25.0	19.0	31.0	32.0	36.0	37.3	45.0	41.0	32.0	27.0	28.0	23.0	19.0	19.0
<b>Wind Speed, km/h</b>														
mean	19.1	18.9	18.5	18.3	19.0	20.3	20.4	20.8	20.5	21.0	20.7	20.2	19.8	19.5
median	18.0	18.0	17.0	17.0	17.0	19.0	19.0	20.0	19.0	19.7	19.0	19.0	18.5	18.5
max	61.1	56.0	53.0	50.0	57.0	61.0	63.0	59.3	53.7	61.1	65.0	61.0	65.0	65.0
min	2.0	3.7	2.0	0.0	0.0	1.4	0.0	1.9	2.0	2.0	1.9	1.9	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.0	2.5	3.0	3.5	3.3	4.1	4.8	3.3	2.4	2.2	2.2	2.3	3.0	2.5
median	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
max	96.2	82.6	95.2	94.2	77.2	91.0	73.2	65.6	64.6	94.0	75.0	72.6	96.2	96.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	64.0	70.3	94.4	104.3	100.7	119.4	148.7	102.5	72.6	68.4	66.3	75.4	90.6	77.6
max	152.6	235.4	255.2	254.0	337.2	272.8	354.8	244.2	180.8	203.8	161.0	185.0	354.8	255.2
min	13.4	7.6	9.8	19.2	9.8	45.4	3.0	6.6	9.6	3.0	5.2	12.6	3.0	3.0
<b>Seasonal Rainfall, millimetres</b>														
mean													1086.8	540.3
max													1578.2	905.6
min													564.2	237.8
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	76.1	74.4	71.8	68.1	65.4	60.8	59.5	64.3	69.8	72.6	73.8	74.1	69.2	73.0
median	83.2	82.5	80.8	77.7	73.4	65.4	65.9	71.4	78.7	81.0	81.6	81.3	78.7	81.5
max	92.5	95.5	91.9	90.3	88.4	88.3	86.7	87.3	88.9	90.9	90.5	92.4	95.5	95.5
min	0.9	2.6	3.0	1.8	3.1	3.7	0.3	4.7	5.2	2.4	7.5	2.2	0.3	0.9
<b>Duff Moisture Code, DMC</b>														
mean	24.7	18.9	14.2	8.8	5.5	2.4	2.2	2.8	6.6	11.0	15.6	19.5	11.0	16.1
median	20.6	15.1	11.1	6.5	3.4	1.3	1.0	2.1	5.6	8.9	12.8	15.7	6.7	11.8
max	104.9	93.6	58.8	47.5	34.3	21.4	19.4	19.1	24.0	61.8	78.3	99.6	104.9	104.9
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	270.1	295.0	271.3	207.5	145.0	88.9	33.9	21.3	27.9	54.3	113.2	189.0	143.5	199.5
median	268.0	281.5	254.6	176.7	103.8	30.6	11.8	12.1	22.7	46.7	106.0	181.7	96.7	165.5
max	648.7	600.9	618.5	654.1	520.2	391.6	261.1	127.7	107.4	199.7	317.6	490.4	654.1	654.1
min	7.1	6.9	4.5	2.3	1.1	0.5	0.4	0.5	0.8	2.6	4.2	5.9	0.4	2.3
<b>Initial Spread Index, ISI</b>														
mean	4.7	4.2	3.5	2.7	2.6	2.1	2.2	2.5	3.7	4.3	4.5	4.2	3.4	4.0
median	4.0	3.6	2.9	2.2	1.8	1.3	1.3	1.6	2.5	3.1	3.3	3.3	2.5	3.2
max	54.0	28.0	27.7	25.5	29.3	35.6	23.4	22.8	29.2	37.9	33.9	41.1	54.0	54.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	38.5	31.4	24.2	15.3	9.3	4.1	3.2	3.7	7.9	13.9	22.0	29.3	17.0	25.0
median	32.9	25.9	19.5	11.5	5.9	2.1	1.5	2.7	6.6	11.8	19.4	25.2	10.3	18.7
max	134.6	134.7	91.3	80.4	58.6	33.7	24.4	27.3	28.3	69.7	96.1	122.4	134.7	134.7
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	10.4	8.5	6.4	3.9	2.8	1.6	1.5	1.7	3.6	5.4	7.2	8.2	5.1	7.1
median	9.1	6.8	4.5	2.5	0.8	0.4	0.4	0.6	1.9	3.7	5.3	6.5	2.6	5.0
max	60.4	52.0	52.3	46.9	37.8	27.9	25.2	14.6	24.9	41.5	48.5	77.1	77.1	77.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.6	1.9	1.3	0.6	0.4	0.2	0.2	0.2	0.5	1.0	1.5	1.8	1.0	1.5
median	1.3	0.8	0.4	0.1	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.7	0.1	0.5
max	38.6	29.7	29.9	24.7	16.9	9.9	8.2	3.1	8.1	19.9	26.2	59.5	59.5	59.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	81.1	55.3	40.6	18.1	12.9	5.3	5.2	5.1	15.3	30.2	42.8	48.2	30.0	45.2
max	267.3	228.2	210.0	73.5	112.9	21.7	37.8	16.4	47.9	180.5	114.6	134.5	267.3	267.3
min	19.3	10.9	2.0	2.0	0.6	0.1	0.1	0.9	1.5	3.6	8.9	6.6	0.1	2.0
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													360	308
max													1017.4	837.6
min													178.4	113.2

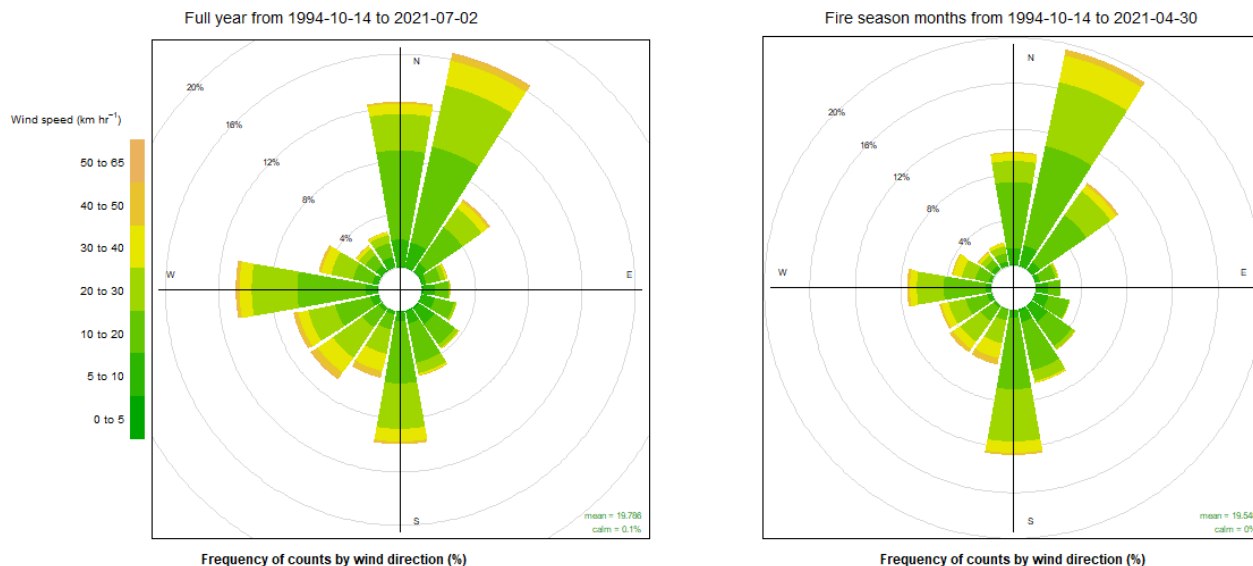
Station Name: Mahia (MHX)

Period: 1994-10-14 - 2021-07-02

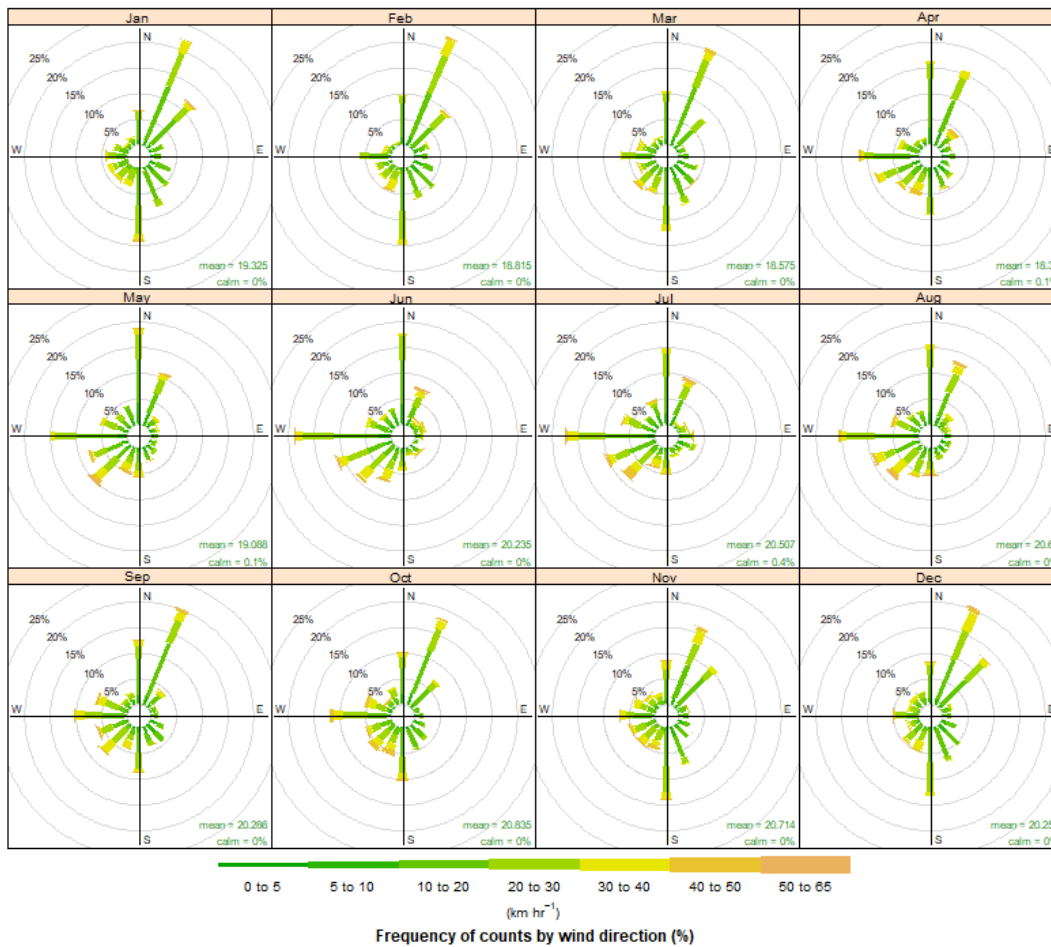
Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	10.6	11.2	17.0	21.7	26.2	28.6	29.7	30.1	24.3	21.0	14.7	13.5	248.6	109.8
max	21	22	31	30	31	30	31	31	30	31	24	29	294	158
min	0	3	2	5	6	20	17	23	11	0	1	1	175	60
<b>Moderate</b>														
mean	13.5	13.0	11.2	7.6	4.2	1.3	1.3	0.9	5.7	8.6	12.6	14.3	94.1	81.5
max	22	22	26	20	14	10	14	8	19	20	25	25	136	111
min	3	5	0	0	0	0	0	0	0	0	6	2	64	51
<b>High</b>														
mean	4.6	2.8	2.0	0.5	0.5	0.1	0.0	0.0	0.0	1.1	2.1	2.5	16.3	15.3
max	13	13	8	5	10	2	1	0	1	13	10	9	60	47
min	0	0	0	0	0	0	0	0	0	0	0	0	4	1
<b>Very High</b>														
mean	1.3	0.5	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.2	0.4	0.4	3.7	3.3
max	8	4	6	3	2	0	0	0	0	4	3	3	20	17
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	2.3	2.1
max	8	8	4	1	1	0	0	0	0	2	1	2	15	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2
max	2	2	1	0	0	0	0	0	0	0	0	0	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Eastern (Coastal Wairoa / Mahia)														
Curing%	90	90	80	70	60	50	50	50	50	50	60	70		
<b>Low</b>														
mean	2.8	2.9	4.4	6.3	9.2	10.3	11.9	9.1	6.1	4.5	4.6	3.6	75.7	28.6
max	11	7	11	15	18	20	22	19	14	11	9	9	105	49
min	0	0	0	1	0	4	0	0	0	0	0	0	42	12
<b>Moderate</b>														
mean	9.8	10.0	16.4	19.8	20.2	18.3	17.3	20.0	19.0	20.9	21.3	18.5	211.6	117.3
max	17	15	25	26	28	26	26	27	27	28	28	24	233	137
min	1	5	7	12	11	9	9	7	11	13	13	14	190	95
<b>High</b>														
mean	14.6	12.2	9.0	3.7	1.5	1.3	1.6	1.8	4.8	5.0	3.9	8.0	67.4	56.6
max	20	18	20	8	12	5	9	5	11	15	14	15	89	83
min	7	6	1	0	0	0	0	0	1	1	0	1	45	37
<b>Very High</b>														
mean	2.7	2.5	0.9	0.2	0.1	0.1	0.2	0.1	0.2	0.5	0.1	0.8	8.4	7.6
max	8	6	5	2	1	2	1	1	2	3	2	2	21	14
min	0	0	0	0	0	0	0	0	0	0	0	0	2	3
<b>Extreme</b>														
mean	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.1
max	8	4	3	1	0	0	0	0	0	1	0	1	10	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	1	0	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.6	5.0	6.6	8.3	10.3	12.6	13.5	11.0	7.4	5.9	5.7	5.3	96.2	41.0
max	11	10	15	17	19	21	24	19	15	14	10	11	123	68
min	1	1	2	3	0	6	0	1	0	0	0	0	56	19
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	0	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.2	1.1	1.9	2.1	3.2	3.1	2.2	2.1	1.8	2.1	1.3	1.7	23.6	11.5
max	4	5	4	4	7	9	5	6	5	5	3	6	32	17
min	0	0	0	0	0	0	0	0	0	0	0	0	15	6
<b>Very High</b>														
mean	2.4	2.6	4.0	4.4	3.7	4.0	3.8	4.6	4.1	2.8	3.5	3.8	43.7	23.5
max	7	6	9	8	8	7	8	8	10	6	7	8	53	34
min	0	0	0	1	1	1	1	1	1	0	0	1	28	14
<b>Extreme</b>														
mean	8.5	8.3	9.3	9.4	7.9	5.9	7.0	7.7	7.5	9.5	8.5	8.2	97.8	62.2
max	16	14	17	18	13	12	16	15	14	18	18	15	129	96
min	3	3	3	3	4	2	0	2	2	2	2	4	77	41
<b>Very Extreme</b>														
mean	14.3	11.3	9.2	5.8	6.0	4.4	4.4	5.6	9.2	10.7	11.0	12.0	103.9	74.1
max	27	20	21	10	19	12	14	16	17	29	21	20	155	121
min	6	4	1	0	1	0	0	1	3	4	3	3	80	47

### Windroses for Mahia (MHX)



### MHX station from 1994-10-14 to 2021-07-02



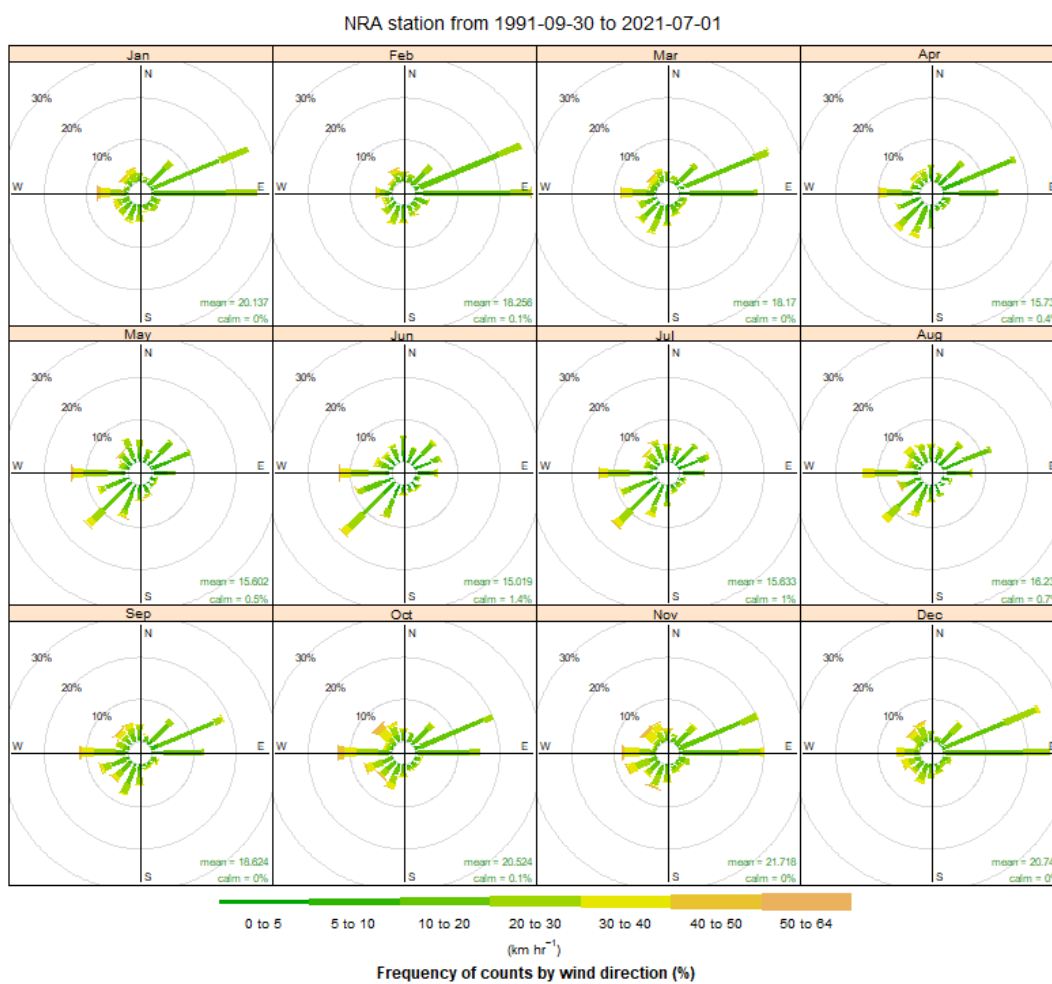
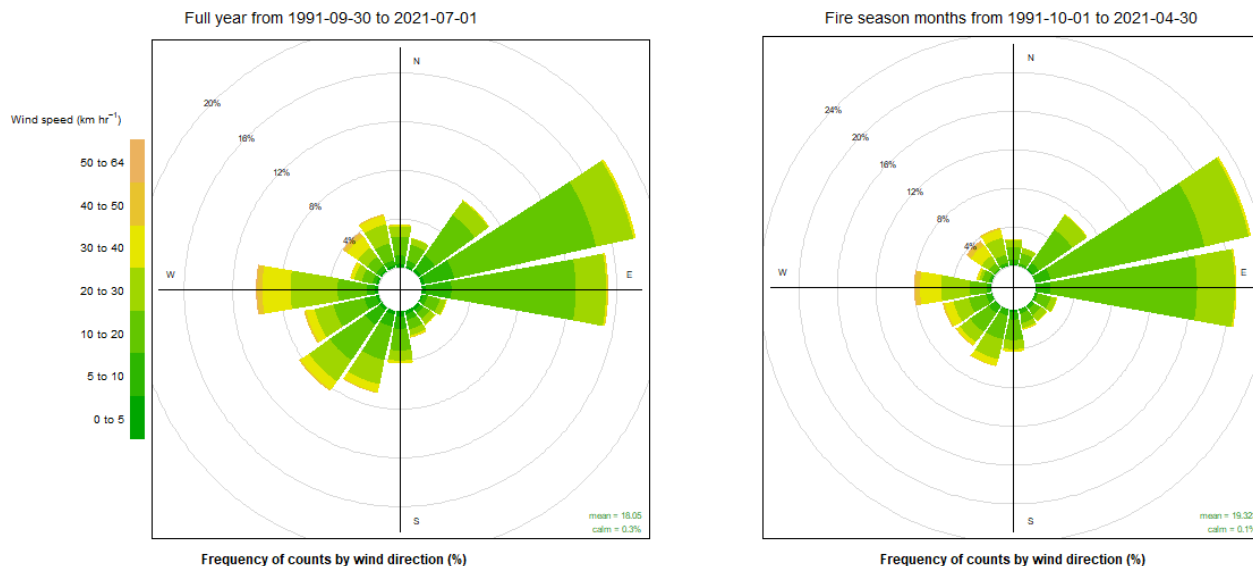
Station Name: Napier Aero SYNOP (NRA)      Period: 1991-09-30 - 2021-07-01      Length of record: 29 years														
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.2	21.8	20.5	18.0	15.7	13.2	12.3	12.9	15.1	17.0	18.6	20.7	17.3	19.8
median	22.0	21.6	20.0	18.0	15.6	13.0	12.0	13.0	15.0	17.0	18.4	20.5	17.0	20.0
max	32.5	36.0	32.1	27.1	25.0	22.7	20.0	21.0	25.0	27.0	31.5	32.0	36.0	36.0
min	11.0	12.7	11.0	10.0	7.0	4.6	5.0	1.6	7.7	7.0	8.0	9.0	1.6	7.0
<b>Relative Humidity, %</b>														
mean	59.4	62.6	61.3	65.1	65.9	67.8	68.5	66.0	61.9	59.8	58.4	59.6	63.0	60.9
median	61.0	63.0	62.0	65.0	65.0	67.0	68.0	66.0	61.0	59.0	59.0	60.5	63.0	62.0
max	99	99	99	99	100	100	100	100	98	100	100	99	100	100
min	12	10	17	28	25	33	32	36	29	18	18	20	10	10
<b>Wind Speed, km/h</b>														
mean	20.2	18.5	18.1	15.7	15.6	15.1	15.5	16.5	18.8	20.6	21.7	20.9	18.1	19.4
median	19.0	18.0	17.0	14.8	13.0	13.0	13.0	15.0	17.0	18.5	20.0	20.0	17.0	18.5
max	50.0	46.0	56.0	46.3	64.0	54.0	55.6	52.0	56.0	57.4	55.6	52.0	64.0	57.4
min	3.7	0.0	1.9	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.1	2.0	2.0	2.7	2.5	3.1	3.7	2.3	2.0	2.0	1.7	1.9	2.3	2.1
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	99.0	68.4	71.6	117.0	86.8	80.8	87.8	75.6	54.4	78.4	71.0	81.8	117.0	117.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	65.0	54.6	60.6	80.0	77.4	88.1	115.0	70.3	59.6	61.3	51.2	61.0	70.3	61.9
max	212.4	181.6	163.0	247.4	195.8	203.3	349.6	194.0	175.6	193.8	144.2	196.4	349.6	247.4
min	5.4	3.0	8.0	9.8	10.2	12.6	10.8	7.6	5.2	6.2	8.8	1.4	1.4	1.4
<b>Seasonal Rainfall, millimetres</b>														
mean													844.1	435.3
max													1268.7	806.8
min													516.2	189.0
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	80.5	78.9	78.6	74.5	73.1	69.2	67.3	71.1	75.2	77.8	79.5	79.6	75.5	78.5
median	85.7	85.2	85.0	83.0	82.4	78.2	78.7	80.5	83.3	84.1	85.0	85.2	83.5	84.8
max	96.9	98.0	95.5	91.6	91.1	90.3	89.6	89.3	91.2	94.6	95.3	94.8	98.0	98.0
min	5.7	3.3	7.1	4.7	1.4	2.7	2.3	2.5	5.9	4.5	10.3	16.2	1.4	3.3
<b>Duff Moisture Code, DMC</b>														
mean	36.2	31.7	30.0	16.7	11.4	7.7	5.2	7.1	12.2	18.0	25.5	32.0	19.5	27.1
median	31.4	23.2	23.3	12.2	9.7	4.8	4.0	6.0	11.2	16.1	22.8	26.6	13.2	21.6
max	147.7	151.2	110.5	79.4	55.5	52.6	32.0	24.0	36.3	55.3	73.8	119.6	151.2	151.2
min	0.7	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.6	1.1	0.3	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	332.4	369.6	378.0	318.5	247.5	159.3	79.2	55.3	59.2	84.6	158.6	247.3	207.8	268.9
median	342.8	376.4	347.2	319.0	167.4	114.0	25.6	30.6	49.2	81.9	155.8	257.0	155.8	235.3
max	663.2	736.4	853.9	869.0	734.9	656.7	407.8	297.6	295.7	226.1	327.2	554.1	869.0	869.0
min	9.4	6.2	6.0	2.9	1.3	0.5	0.8	0.5	1.2	2.2	4.4	5.9	0.5	2.2
<b>Initial Spread Index, ISI</b>														
mean	8.1	6.3	6.3	4.1	3.9	3.2	3.0	3.6	5.2	6.8	8.3	7.6	5.5	6.8
median	6.0	5.1	4.7	3.1	2.6	1.9	1.9	2.4	3.5	4.5	5.4	5.5	3.7	4.8
max	72.8	113.5	54.1	34.7	45.4	31.3	30.0	24.0	47.9	71.5	58.4	49.1	113.5	113.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	54.6	50.2	48.4	28.2	19.1	12.4	7.8	9.4	14.8	22.3	35.0	46.1	29.1	40.6
median	49.5	38.4	39.5	20.4	15.7	7.8	5.3	7.7	13.9	20.7	33.0	41.5	20.2	33.0
max	189.8	193.4	166.0	129.3	93.4	85.9	44.8	36.0	44.2	62.1	88.4	155.3	193.4	193.4
min	1.3	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	0.5	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	18.4	14.6	14.3	7.6	5.9	4.1	3.0	3.8	6.6	10.0	14.7	16.1	10.0	13.7
median	15.2	11.7	10.8	5.2	3.7	1.0	0.9	1.8	4.7	7.6	11.8	12.8	6.0	10.3
max	110.6	144.9	78.2	64.1	52.8	52.5	30.6	27.2	39.4	56.6	76.5	86.5	144.9	144.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	7.2	4.9	4.8	1.8	1.2	0.8	0.4	0.6	1.3	2.6	4.8	5.6	3.0	4.6
median	3.4	2.1	1.8	0.5	0.3	0.0	0.0	0.1	0.4	1.0	2.1	2.5	0.6	1.7
max	112.8	181.9	61.1	42.9	30.5	30.1	11.6	9.4	18.1	34.4	58.7	73.0	181.9	181.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	230.0	141.5	154.7	55.7	38.0	25.2	13.7	17.3	39.6	81.4	147.0	174.6	93.2	140.7
max	1040.8	433.4	485.2	212.6	147.8	134.1	53.4	84.6	102.9	290.0	409.7	624.5	1040.8	1040.8
min	41.9	13.4	19.6	3.1	5.5	0.1	0.1	0.1	6.0	8.1	8.9	10.2	0.1	3.1
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1118.8	967.4
max													2200.4	2326.6
min													498.2	202.8

Station Name: Napier Aero SYNOP (NRA)      Period: 1991-09-30 - 2021-07-01      Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	6.4	7.5	9.1	14.4	18.6	23.4	26.3	24.3	16.3	12.2	7.6	7.2	173.5	65.3
max	16	18	24	30	30	30	31	31	28	30	24	26	233	140
min	0	0	0	0	1	3	9	6	5	0	1	0	101	24
<b>Moderate</b>														
mean	9.5	9.5	10.6	11.8	10.4	5.4	4.4	6.3	12.1	13.7	11.8	11.7	117.2	79.0
max	19	23	20	21	24	20	22	21	21	25	20	18	158	109
min	1	2	1	0	1	0	0	0	2	1	4	3	83	48
<b>High</b>														
mean	7.0	5.8	5.6	2.5	1.3	0.7	0.3	0.3	1.6	3.9	5.8	5.8	40.7	35.9
max	14	15	13	12	5	6	3	8	7	9	15	13	74	57
min	1	0	0	0	0	0	0	0	0	0	0	0	23	10
<b>Very High</b>														
mean	2.9	2.5	2.7	0.7	0.4	0.2	0.0	0.0	0.0	0.7	2.3	2.3	14.7	13.9
max	7	10	11	3	3	3	0	0	0	6	7	9	35	37
min	0	0	0	0	0	0	0	0	0	0	0	0	3	0
<b>Extreme</b>														
mean	3.4	2.1	1.9	0.4	0.3	0.2	0.0	0.0	0.0	0.5	2.1	3.0	13.9	13.0
max	10	12	6	3	4	3	0	0	0	7	8	17	28	40
min	0	0	0	0	0	0	0	0	0	0	0	0	3	0
<b>Very Extreme</b>														
mean	1.7	0.8	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	5.3	5.1
max	15	5	8	3	0	1	0	0	0	0	4	9	22	25
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Eastern (Hastings / Napier)														
Curing%	90	95	80	70	50	40	40	40	40	50	60	70		
<b>Low</b>														
mean	1.8	1.9	2.6	4.3	5.3	7.5	9.0	6.9	4.7	3.2	2.6	2.2	52.1	18.6
max	8	8	12	12	16	18	27	19	12	9	9	11	84	46
min	0	0	0	0	0	0	0	1	0	0	0	0	26	6
<b>Moderate</b>														
mean	7.1	7.1	10.5	18.5	21.2	19.4	19.4	20.4	19.2	18.2	18.1	12.5	191.6	92.5
max	14	18	18	26	27	26	29	26	25	24	25	23	240	121
min	2	1	4	11	13	12	4	12	12	7	7	3	142	62
<b>High</b>														
mean	12.2	11.9	12.6	5.9	4.0	2.9	2.4	3.6	5.7	7.2	7.4	11.7	87.4	68.9
max	20	19	21	14	9	9	7	12	11	15	16	18	115	97
min	4	7	5	0	1	0	0	0	1	2	0	3	63	40
<b>Very High</b>														
mean	5.5	4.7	2.9	1.0	0.5	0.2	0.2	0.0	0.4	2.1	1.9	3.0	22.3	20.8
max	11	11	7	3	3	2	1	1	3	8	6	9	37	39
min	1	0	0	0	0	0	0	0	0	0	0	0	7	6
<b>Extreme</b>														
mean	3.3	2.3	2.3	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.6	10.1	9.8
max	10	9	7	2	1	0	0	0	0	2	1	6	19	21
min	0	0	0	0	0	0	0	0	0	0	0	0	4	1
<b>Very Extreme</b>														
mean	1.2	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.7
max	7	2	1	0	0	0	0	0	0	0	0	0	8	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.1	3.3	4.0	5.1	6.1	7.6	8.9	6.8	5.0	4.0	3.4	3.3	60.6	26.1
max	10	9	13	12	16	16	22	17	11	9	11	14	92	54
min	0	0	0	0	0	0	0	1	0	0	0	0	32	10
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	0	0	1	0	1	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.9	1.1	1.4	2.1	2.8	4.1	3.6	3.5	1.7	1.6	0.7	0.6	24.0	8.7
max	3	5	4	8	8	13	10	13	6	5	2	2	41	15
min	0	0	0	0	0	0	0	0	0	0	0	0	13	1
<b>Very High</b>														
mean	2.2	2.0	2.1	3.3	3.4	4.0	3.8	3.9	3.6	2.5	2.3	2.0	35.3	16.8
max	6	7	4	9	10	9	12	8	7	7	5	5	58	29
min	0	0	0	1	0	0	0	1	0	0	0	0	20	6
<b>Extreme</b>														
mean	4.3	5.3	6.4	9.1	9.4	7.2	7.8	7.9	6.7	6.9	5.1	6.1	82.2	43.4
max	11	10	13	15	15	11	15	14	16	14	10	13	109	70
min	0	1	0	1	3	2	1	1	3	2	0	0	61	17
<b>Very Extreme</b>														
mean	20.4	16.5	17.1	10.3	9.2	7.1	7.0	8.8	13.0	16.0	18.5	19.0	163.0	117.2
max	29	27	27	23	19	20	14	19	19	29	27	29	205	162
min	13	6	7	3	1	0	0	0	4	3	5	5	115	62



### Windroses for Napier Aero SYNOP (NRA)



Station Name: Te Pohue Raws (TEP)													Period: 1995-09-23 - 2021-07-01		Length of record: 25 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	20.7	20.4	18.5	15.9	13.8	11.3	10.3	11.1	13.1	15.3	16.9	19.0	15.5	18.1		
median	21.1	20.8	18.7	16.1	14.0	11.6	10.4	11.3	13.3	15.6	17.2	19.1	15.2	18.0		
max	32.6	31.7	28.1	24.5	23.7	19.9	17.3	19.4	22.8	27.2	28.6	27.4	32.6	32.6		
min	8.8	10.0	8.3	3.7	4.0	3.0	1.7	0.9	4.2	4.1	5.2	7.9	0.9	3.7		
<b>Relative Humidity, %</b>																
mean	63.2	65.4	68.3	70.8	71.7	73.6	74.1	69.8	66.3	62.6	63.1	64.6	67.8	65.4		
median	61.0	62.2	67.0	68.3	70.0	71.0	72.8	68.0	63.0	60.0	61.0	62.0	66.0	63.0		
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
min	20.9	25.4	21.0	29.0	28.0	38.0	24.0	10.0	22.0	13.0	24.0	25.0	10.0	13.0		
<b>Wind Speed, km/h</b>																
mean	12.9	11.1	11.4	10.7	11.2	11.4	12.0	13.3	14.5	15.2	14.5	13.8	12.7	12.8		
median	11.1	9.7	9.8	9.2	9.7	9.7	10.1	11.5	12.9	13.7	12.9	12.4	10.9	11.1		
max	57.3	46.8	54.0	57.8	58.0	54.3	55.3	69.3	68.3	63.6	51.7	50.3	69.3	63.6		
min	2.1	1.1	1.8	0.4	0.0	0.1	0.1	0.4	0.8	1.9	1.4	1.6	0.0	0.4		
<b>24-hr Rainfall, millimetres</b>																
mean	3.9	3.1	3.6	4.9	3.5	4.8	6.0	3.7	4.0	3.2	3.0	3.5	3.9	3.6		
median	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2	0.0		
max	121.2	107.0	101.6	157.0	70.2	156.8	150.6	144.8	126.0	141.8	71.2	140.4	157.0	157.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	120.8	87.0	115.9	151.9	107.7	140.7	185.3	113.5	120.4	100.6	91.1	110.2	120.4	111.1		
max	356.4	203.6	257.6	604.8	243.0	331.2	423.0	473.0	457.0	271.0	222.4	324.0	604.8	604.8		
min	18.2	13.8	15.2	19.4	9.6	55.4	47.2	1.0	20.0	20.2	27.2	22.8	1.0	13.8		
<b>Seasonal Rainfall, millimetres</b>																
mean													1445.0	766.9		
max													2093.6	1427.8		
min													981.2	360.8		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	71.8	70.6	67.2	64.1	63.9	59.7	54.9	63.0	65.8	70.3	71.0	70.9	66.1	69.4		
median	83.1	81.9	79.8	76.0	74.9	69.3	63.6	71.8	76.4	79.4	81.3	80.8	77.0	80.5		
max	94.7	93.5	93.8	91.5	90.1	88.0	89.7	88.0	92.2	95.1	92.4	92.9	95.1	95.1		
min	0.2	0.3	0.5	0.6	0.9	0.0	0.0	0.6	0.0	1.9	0.2	0.0	0.0	0.0		
<b>Duff Moisture Code, DMC</b>																
mean	20.6	18.2	14.2	8.9	5.6	3.0	1.9	3.4	6.5	9.8	14.1	15.9	10.2	14.5		
median	16.7	13.4	10.0	5.4	4.0	2.0	1.3	2.5	5.2	8.4	12.3	11.9	6.2	10.6		
max	78.8	99.0	65.8	65.9	27.4	34.6	12.0	24.2	28.1	29.7	58.2	77.4	99.0	99.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Drought Code, DC</b>																
mean	177.8	198.0	186.8	146.0	101.7	46.5	12.5	11.8	18.8	38.3	86.6	125.8	96.1	136.5		
median	165.8	176.8	159.3	101.5	44.2	16.5	6.0	8.9	14.4	33.8	88.2	126.6	49.4	110.9		
max	445.7	536.2	653.1	668.9	505.4	438.3	301.9	68.3	74.6	136.8	236.2	341.0	668.9	668.9		
min	6.2	5.4	3.7	1.4	0.4	0.2	0.0	0.0	0.5	1.7	3.6	5.4	0.0	1.4		
<b>Initial Spread Index, ISI</b>																
mean	4.2	3.2	2.8	2.0	1.9	1.4	1.4	1.9	2.8	3.4	3.7	3.4	2.7	3.3		
median	3.1	2.4	2.0	1.4	1.4	1.0	0.8	1.3	1.7	2.3	2.8	2.4	1.7	2.3		
max	36.9	23.2	25.6	22.0	20.9	19.6	18.3	26.9	28.3	30.9	31.7	38.2	38.2	38.2		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	30.5	28.1	22.7	14.2	8.6	4.4	2.3	3.8	7.0	11.6	18.9	22.9	14.6	21.2		
median	26.1	21.4	16.7	9.1	6.2	2.9	1.6	3.0	5.7	10.3	17.0	18.2	8.6	15.8		
max	109.3	132.3	103.4	105.3	47.1	57.8	12.7	25.6	28.9	34.4	69.5	90.0	132.3	132.3		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Fire Weather Index, FWI</b>																
mean	8.5	6.5	5.3	3.0	2.0	1.1	0.8	1.3	2.6	4.1	5.9	6.1	3.9	5.6		
median	5.9	3.7	2.7	0.8	0.6	0.4	0.2	0.5	0.8	2.3	3.8	3.8	0.9	3.0		
max	71.2	46.7	43.0	40.9	26.9	23.3	15.3	20.9	24.1	30.6	42.6	65.2	71.2	71.2		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	2.1	1.4	1.1	0.4	0.2	0.1	0.1	0.1	0.3	0.6	1.1	1.3	0.7	1.2		
median	0.6	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.0	0.2		
max	51.7	24.5	21.2	19.4	9.2	7.2	3.4	5.9	7.6	11.6	20.8	44.2	51.7	51.7		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	67.0	38.7	34.3	13.5	6.7	3.1	1.6	3.4	9.9	19.9	35.1	39.0	22.7	35.4		
max	264.3	195.9	198.9	62.3	36.5	31.1	10.0	20.9	29.8	73.4	119.3	236.8	264.3	264.3		
min	9.3	1.3	1.1	0.1	0.7	0.1	0.0	0.2	0.9	3.6	3.3	2.3	0.0	0.1		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													272.2	245.3		
max													882.8	1090.0		
min													85.6	86.2		

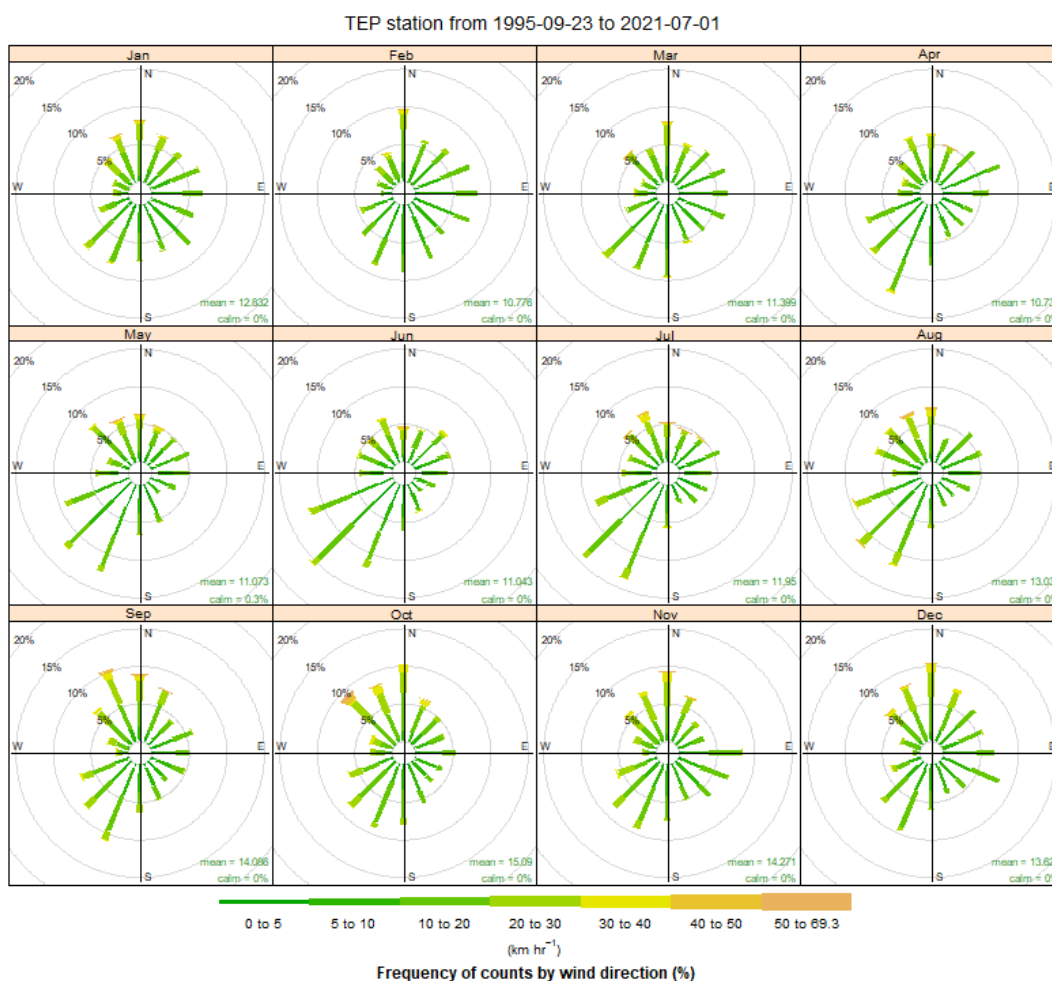
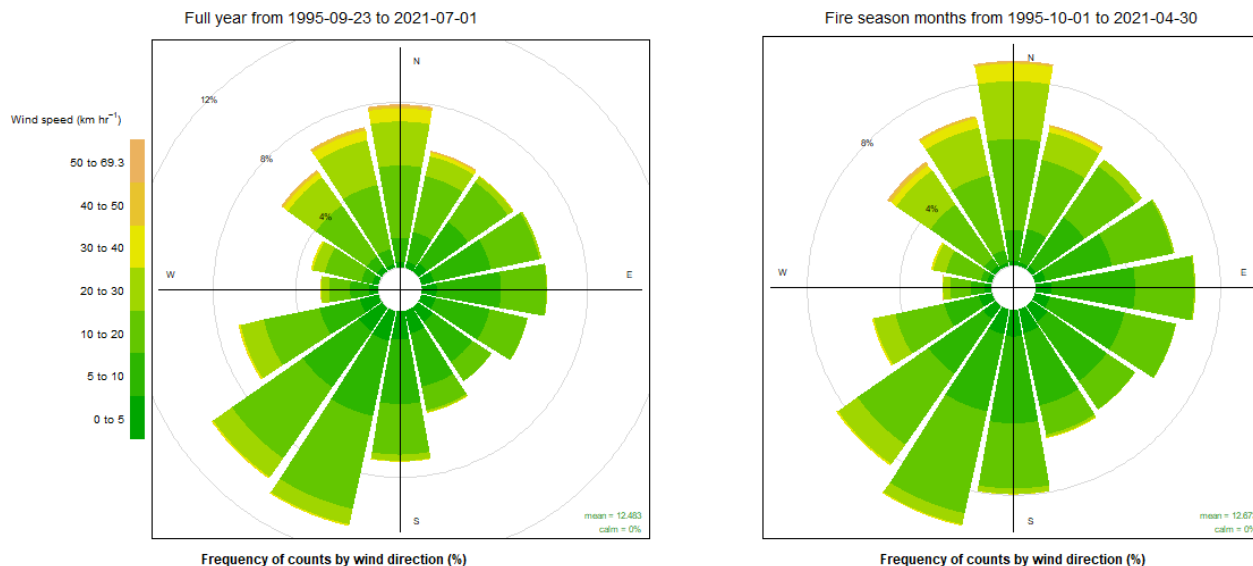
Station Name: Te Pohue Raws (TEP)

Period: 1995-09-23 - 2021-07-01

Length of record: 25 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	14.4	15.9	19.3	23.6	27.7	29.3	30.9	30.6	26.4	21.9	16.8	18.6	275.5	130.2
max	26	29	31	30	31	30	31	31	30	30	29	31	311	168
min	3	4	2	10	12	21	29	24	14	9	5	4	204	59
<b>Moderate</b>														
mean	10.7	9.0	9.4	5.9	3.2	0.6	0.1	0.4	3.5	8.6	11.2	9.5	72.1	64.8
max	17	19	19	19	17	6	2	7	16	17	20	18	107	91
min	1	0	0	0	0	0	0	0	0	1	1	0	39	42
<b>High</b>														
mean	4.0	2.5	1.5	0.4	0.0	0.1	0.0	0.0	0.0	0.4	1.8	2.3	13.2	12.8
max	13	10	11	4	1	3	0	0	1	5	8	11	37	45
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<b>Very High</b>														
mean	1.0	0.4	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	2.7	2.7
max	6	5	6	3	1	0	0	0	0	0	2	3	17	22
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.6	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.6	1.5
max	5	6	4	1	0	0	0	0	0	0	0	6	15	21
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	2	0	0	0	0	0	0	0	0	0	0	1	2	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source	Eastern (Hastings / Napier)													
Curing%	90	95	80	70	50	40	40	40	40	50	60	70		
<b>Low</b>														
mean	5.9	5.4	7.6	9.0	9.9	11.8	14.3	11.2	9.1	6.6	7.0	6.2	103.9	47.2
max	13	12	15	22	16	21	25	23	20	15	17	15	137	71
min	1	0	1	4	0	4	6	0	2	0	1	3	78	21
<b>Moderate</b>														
mean	10.5	11.1	15.2	18.5	20.2	17.9	16.2	19.4	19.3	20.1	19.3	17.8	205.6	113.2
max	19	17	21	24	28	25	25	29	27	27	27	24	226	137
min	5	3	7	8	10	9	6	8	10	15	12	7	177	74
<b>High</b>														
mean	10.0	9.3	7.3	2.4	0.8	0.3	0.5	0.4	1.6	4.0	3.7	6.5	46.7	43.1
max	15	17	21	8	5	1	2	2	6	10	15	15	70	83
min	4	0	0	0	0	0	0	0	0	0	0	0	21	24
<b>Very High</b>														
mean	3.7	1.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.5	7.2	6.9
max	9	7	3	1	1	0	0	1	1	2	1	5	20	24
min	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Extreme</b>														
mean	0.9	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.8	1.8
max	4	5	2	0	0	0	0	0	0	0	0	1	11	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	1	0	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	7.3	7.3	8.8	10.0	10.1	11.7	14.4	11.0	9.2	7.4	7.1	7.5	111.8	54.8
max	15	16	17	22	16	21	24	22	20	15	17	17	146	81
min	1	2	1	4	0	4	6	0	1	1	1	3	81	27
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
max	0	0	0	0	0	1	0	1	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.9	3.4	3.8	4.1	4.6	6.0	4.7	4.0	2.9	3.5	2.6	3.6	46.1	23.9
max	9	9	8	10	10	12	10	10	7	8	8	11	72	37
min	1	0	1	1	1	2	1	0	1	1	0	1	26	12
<b>Very High</b>														
mean	3.0	2.6	3.0	4.4	5.1	5.0	4.0	4.9	4.0	3.4	3.2	3.0	45.4	22.8
max	7	6	7	9	13	10	10	9	9	9	8	7	62	36
min	1	0	0	1	2	0	1	1	1	0	1	0	34	8
<b>Extreme</b>														
mean	5.3	6.6	8.2	7.6	8.1	5.2	6.2	7.5	7.0	7.6	6.8	7.3	83.4	49.9
max	14	14	15	11	16	10	16	13	12	15	13	12	100	64
min	2	1	2	1	1	1	1	2	1	2	3	2	44	26
<b>Very Extreme</b>														
mean	12.6	8.5	7.2	4.0	3.1	1.9	1.8	3.5	6.8	9.2	10.4	9.6	78.4	60.9
max	23	22	20	12	11	8	5	12	14	19	21	22	132	121
min	2	0	0	0	0	0	0	0	2	4	3	2	39	30

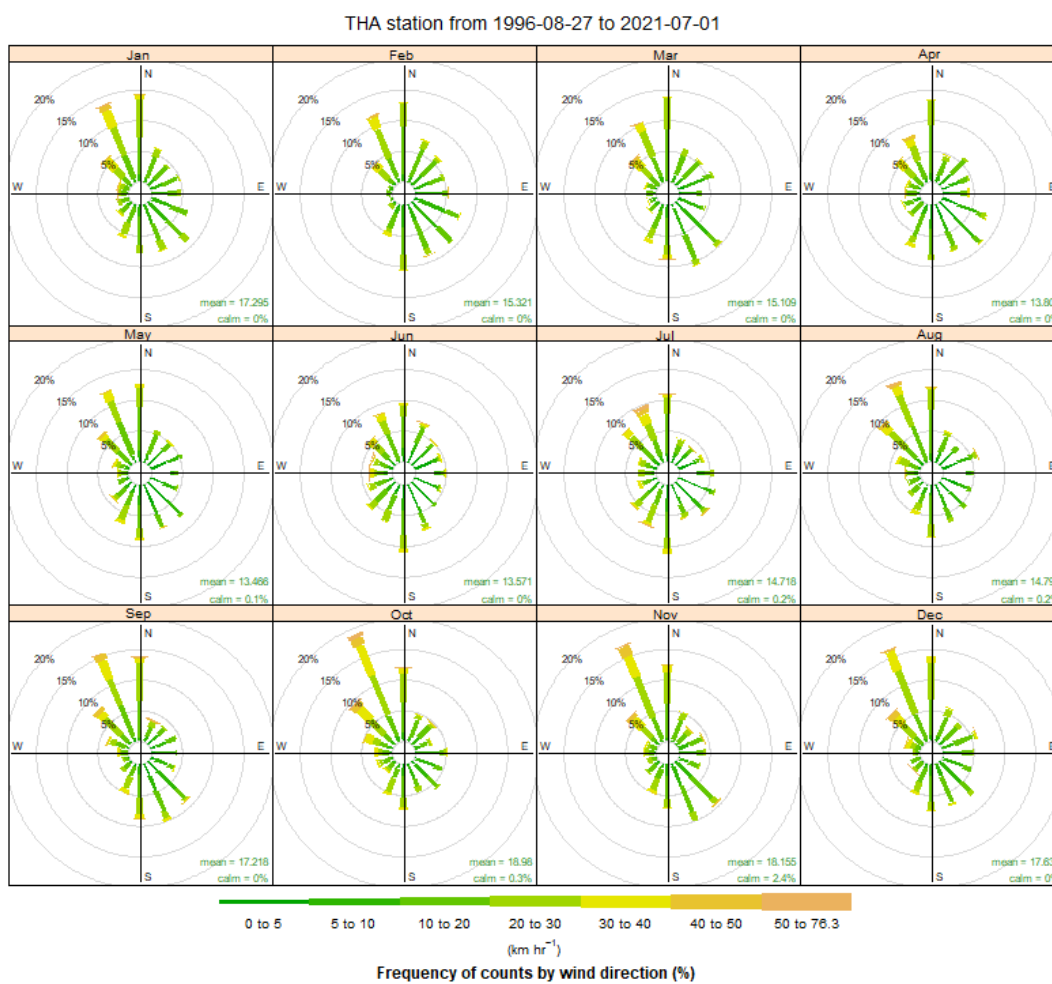
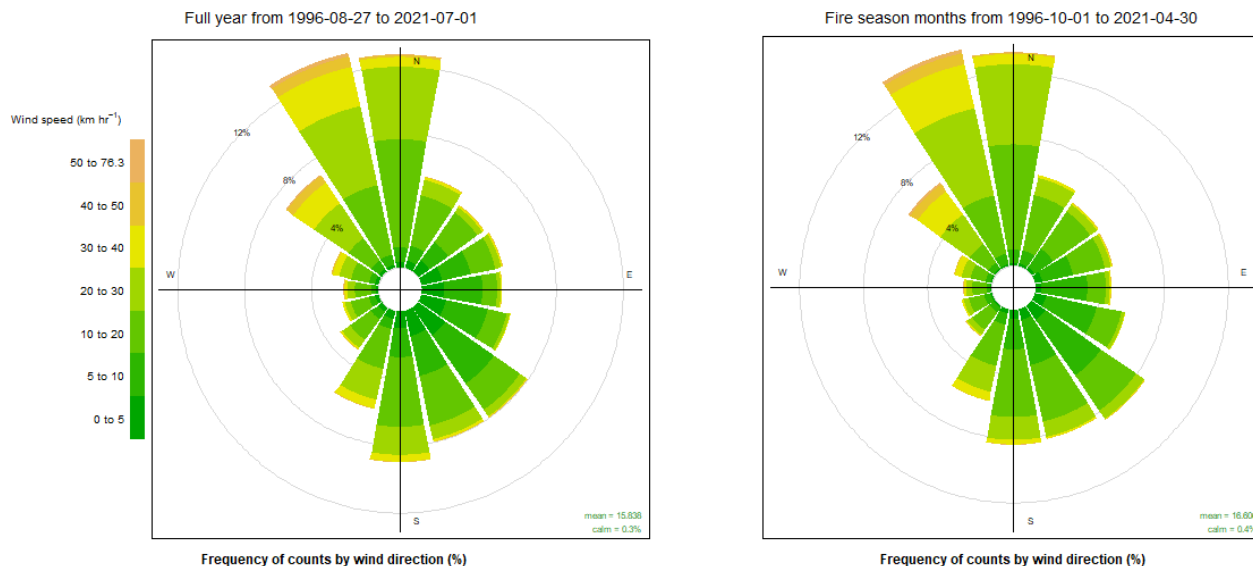
### Windroses for Te Pohue Raws (TEP)



Station Name: Te Haroto Raws (THA)													Period: 1996-08-27 - 2021-07-01		Length of record: 24 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	20.4	20.1	18.0	15.2	12.6	9.7	9.1	10.0	11.9	14.4	16.3	18.4	14.7	17.5		
median	20.7	20.5	18.3	15.1	12.6	9.8	8.7	9.8	12.1	14.5	16.3	18.8	14.4	17.5		
max	32.6	32.2	30.0	28.9	24.7	26.2	24.8	23.8	22.5	26.0	28.0	27.1	32.6	32.6		
min	8.2	9.1	5.2	4.0	0.9	-0.7	0.2	0.8	0.0	2.1	2.0	6.6	-0.7	2.0		
<b>Relative Humidity, %</b>																
mean	60.4	62.3	65.2	70.5	74.5	77.6	76.8	72.7	66.9	63.2	62.4	62.9	67.9	63.8		
median	58.0	60.1	63.0	68.9	73.0	77.0	77.0	72.0	66.0	62.0	60.5	61.0	67.0	62.0		
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
min	16.0	25.3	24.0	33.0	42.4	42.0	33.0	10.0	21.2	12.0	22.0	24.0	10.0	12.0		
<b>Wind Speed, km/h</b>																
mean	17.2	15.7	15.0	13.7	13.7	13.9	14.7	15.0	17.8	19.2	18.5	18.1	16.0	16.8		
median	15.9	14.0	13.3	12.2	12.2	12.7	13.5	14.0	16.6	17.5	17.4	16.9	14.6	15.1		
max	57.3	58.0	53.5	44.7	49.0	56.1	57.7	59.0	57.6	76.3	68.7	59.8	76.3	76.3		
min	0.9	1.3	1.7	0.9	0.0	0.3	0.0	0.0	2.0	0.0	0.0	1.0	0.0	0.0		
<b>24-hr Rainfall, millimetres</b>																
mean	2.6	2.0	2.0	3.1	2.7	3.6	4.5	2.9	2.8	2.5	2.2	2.6	2.8	2.4		
median	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2	0.0		
max	108.0	58.0	56.4	142.2	77.4	133.4	133.4	89.6	71.2	69.4	47.0	52.4	142.2	142.2		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	80.5	55.4	61.6	93.8	80.8	104.6	138.8	89.9	85.2	78.1	68.1	80.1	84.8	74.0		
max	274.8	138.8	159.6	279.6	189.0	237.8	293.6	240.4	252.6	188.8	143.0	176.8	293.6	279.6		
min	8.8	8.6	12.8	21.0	14.6	24.8	9.4	19.2	20.6	23.0	9.2	36.6	8.6	8.6		
<b>Seasonal Rainfall, millimetres</b>																
mean													1017.1	517.6		
max													1470	880		
min													638.6	256.4		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	76.9	77.1	74.4	69.8	65.8	58.3	56.2	61.8	67.8	71.7	73.2	74.1	68.9	73.8		
median	84.5	84.3	83.2	78.6	75.0	65.0	61.7	68.2	77.6	79.0	81.9	82.0	78.0	82.2		
max	95.0	93.5	91.5	89.9	87.5	87.3	87.4	89.7	92.2	95.5	92.8	93.3	95.5	95.5		
min	2.1	1.3	1.9	2.3	3.5	0.0	0.8	0.0	1.6	2.6	3.7	2.5	0.0	1.3		
<b>Duff Moisture Code, DMC</b>																
mean	23.9	26.0	21.8	13.5	6.2	2.2	1.6	2.7	6.5	9.8	14.8	16.6	12.1	18.0		
median	19.3	20.7	17.6	8.5	4.3	1.2	0.8	1.7	5.0	8.5	12.8	13.1	7.5	13.3		
max	100.4	99.6	85.2	54.9	25.2	26.8	14.5	18.3	30.4	37.7	48.3	76.9	100.4	100.4		
min	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0		
<b>Drought Code, DC</b>																
mean	232.5	283.5	307.9	276.2	209.9	120.2	41.1	24.7	35.2	54.4	108.9	160.3	154.5	202.4		
median	219.1	266.5	307.3	310.3	189.9	73.5	8.0	8.5	16.1	38.4	98.2	155.4	114.3	182.6		
max	516.7	604.2	641.1	644.3	545.4	521.7	427.8	274.3	283.5	303.2	324.7	343.9	644.3	644.3		
min	6.2	6.4	27.6	1.4	0.4	0.0	0.0	0.0	0.3	1.3	3.6	5.8	0.0	1.3		
<b>Initial Spread Index, ISI</b>																
mean	5.7	4.9	4.0	2.7	2.0	1.4	1.4	1.8	3.3	4.3	4.9	4.5	3.4	4.4		
median	4.1	3.9	3.3	1.9	1.4	0.8	0.8	1.1	1.9	2.8	3.3	3.4	2.0	3.2		
max	63.9	42.9	24.5	23.5	22.4	16.5	16.4	17.4	25.1	33.6	37.6	28.8	63.9	63.9		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	36.5	40.5	35.7	22.8	10.7	3.8	2.5	3.7	7.7	12.3	20.6	24.9	18.4	27.5		
median	31.1	33.2	30.5	15.5	7.1	2.0	1.2	2.2	5.6	10.8	19.0	20.6	11.9	20.9		
max	120.3	140.5	127.9	90.5	38.9	47.2	25.3	31.4	32.8	37.7	60.5	93.5	140.5	140.5		
min	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	11.7	10.9	8.8	4.7	2.4	1.0	0.8	1.2	3.3	5.1	7.6	7.9	5.4	8.1		
median	8.7	8.4	6.5	2.4	0.7	0.3	0.2	0.4	1.0	2.8	5.3	5.5	1.9	5.3		
max	81.1	74.6	47.4	51.9	23.6	28.3	18.7	16.7	23.8	39.2	53.6	55.1	81.1	81.1		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	3.4	3.0	2.1	0.9	0.3	0.1	0.1	0.1	0.5	1.0	1.8	1.8	1.2	2.0		
median	1.3	1.2	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5	0.1	0.5		
max	65.1	56.2	25.1	29.6	7.3	10.1	4.8	4.0	7.5	18.0	31.3	32.8	65.1	65.1		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	107.5	86.9	68.3	26.5	9.1	3.2	2.1	3.1	14.1	28.7	51.7	56.3	38.1	60.8		
max	352.8	265.5	317.3	84.8	33.5	31.5	25.2	18.2	52.7	94.5	172.0	266.2	352.8	352.8		
min	10.9	8.8	2.3	0.5	0.1	0.0	0.0	0.1	1.3	2.8	6.4	7.0	0.0	0.5		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													457.2	421.0		
max													1328.6	1472.7		
min													81.7	72.2		

Station Name: Te Haroto Raws (THA)      Period: 1996-08-27 - 2021-07-01      Length of record: 24 years														FIRE SEASON
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	11.0	9.8	12.8	19.6	25.6	29.2	30.4	30.0	24.8	21.6	15.6	14.9	245.4	105.0
max	23	21	31	30	31	30	31	31	30	31	28	27	315	170
min	1	2	2	6	8	21	18	17	13	9	4	4	177	56
<b>Moderate</b>														
mean	11.2	11.1	12.2	8.5	5.3	0.6	0.6	1.0	5.0	8.3	11.0	12.0	86.9	75.1
max	18	25	22	20	22	6	13	14	17	19	20	18	136	105
min	5	3	0	0	0	0	0	0	0	0	2	4	36	40
<b>High</b>														
mean	4.8	4.2	3.7	1.5	0.1	0.1	0.0	0.0	0.2	0.9	2.6	2.7	20.8	20.6
max	11	12	17	8	1	2	0	0	4	5	10	9	43	55
min	0	0	0	0	0	0	0	0	0	0	0	0	1	2
<b>Very High</b>														
mean	2.0	1.7	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.5	1.1	7.0	6.7
max	6	8	7	2	0	1	0	0	0	3	4	11	20	25
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.5	1.2	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	4.2	4.0
max	9	7	9	1	0	0	0	0	0	0	3	3	24	30
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	0.9
max	6	4	3	1	0	0	0	0	0	0	0	2	12	14
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Eastern (Hastings / Napier)														
Curing%	90	95	80	70	50	40	40	40	40	50	60	70		
<b>Low</b>														
mean	3.2	2.8	4.2	6.1	8.6	13.7	14.6	12.0	7.8	5.7	5.5	4.3	88.6	31.2
max	10	9	11	13	21	24	29	23	21	13	16	12	157	49
min	0	0	0	0	0	4	2	4	1	1	1	2	48	12
<b>Moderate</b>														
mean	9.9	8.9	14.5	19.8	21.1	15.8	16.0	18.3	19.3	19.5	19.2	16.8	199.2	108.7
max	23	19	22	27	29	25	26	26	28	27	27	25	233	143
min	5	2	4	9	10	6	2	8	7	15	9	7	161	64
<b>High</b>														
mean	10.5	11.0	10.1	3.8	1.3	0.5	0.4	0.7	2.8	5.2	4.7	8.6	59.6	54.9
max	16	16	23	11	4	3	3	4	9	13	16	19	83	83
min	4	5	2	0	0	0	0	0	0	0	0	2	19	20
<b>Very High</b>														
mean	4.5	3.7	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.7	0.5	1.1	12.3	12.1
max	14	9	9	2	1	0	0	0	1	4	3	4	30	31
min	0	0	0	0	0	0	0	0	0	0	0	0	2	2
<b>Extreme</b>														
mean	2.6	1.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	5.2	5.0
max	9	8	5	0	0	0	0	0	0	0	0	1	23	23
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
max	2	1	0	0	0	0	0	0	0	0	0	0	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.7	3.9	6.0	7.0	9.3	13.3	14.8	12.5	8.6	7.1	6.2	5.9	99.4	40.4
max	12	10	15	13	20	26	27	23	23	15	14	13	164	61
min	1	0	1	2	0	5	2	5	1	2	0	2	58	20
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
max	0	0	0	0	0	1	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.9	1.8	2.4	4.3	5.4	5.8	5.2	4.3	2.8	2.9	2.3	2.5	41.6	18.0
max	5	4	7	11	11	20	11	11	10	7	7	8	60	32
min	0	0	0	2	2	2	0	0	0	0	0	0	26	8
<b>Very High</b>														
mean	2.7	3.0	3.3	4.6	5.7	4.2	4.2	5.3	4.2	3.2	3.3	3.3	47.1	23.5
max	6	9	7	14	14	10	8	11	12	7	7	7	63	35
min	0	0	0	1	1	0	0	1	1	1	0	0	33	14
<b>Extreme</b>														
mean	6.4	6.9	7.6	8.1	7.0	4.5	4.7	5.6	6.7	7.1	6.2	6.8	77.5	49.4
max	17	16	12	15	17	10	10	13	14	11	11	11	102	66
min	1	2	0	2	1	0	0	0	2	3	1	2	46	24
<b>Very Extreme</b>														
mean	15.3	12.6	11.6	6.0	3.6	2.1	2.0	3.3	7.8	10.6	12.0	12.5	99.5	80.9
max	25	23	26	15	9	7	11	9	18	20	23	24	173	135
min	1	1	2	0	0	0	0	0	0	3	2	4	41	29

### Windroses for Te Haroto Raws (THA)



Station Name: Hawera Aws (HAW)

Period: 2004-01-29 - 2021-07-01

Length of record: 17 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	19.6	20.2	19.0	16.6	14.5	12.1	11.5	12.1	13.2	14.4	16.1	18.1	15.6	17.7
median	19.5	20.0	19.0	16.8	14.5	12.2	11.5	12.4	13.4	14.3	16.0	18.0	15.4	17.9
max	27.2	26.8	25.0	22.3	20.7	18.0	16.8	17.0	18.3	20.4	22.5	24.3	27.2	27.2
min	13.0	12.0	12.0	6.9	5.5	4.1	5.3	6.0	5.8	6.4	7.0	10.0	4.1	6.4
<b>Relative Humidity, %</b>														
mean	74.6	72.8	71.5	76.0	78.7	80.3	79.7	77.6	76.4	77.4	76.7	76.0	76.5	75.0
median	74	72	70	75	78	80	79	77	76	77	76	76	76	74
max	100	100	100	100	100	100	100	100	100	99	100	100	100	100
min	47	42	44	48	41	51	50	48	45	49	51	46	41	42
<b>Wind Speed, km/h</b>														
mean	23.6	21.5	21.9	20.6	19.4	20.3	21.0	20.4	23.8	24.9	24.9	23.4	22.1	22.9
median	24.0	21.1	21.4	20.5	18.4	19.1	20.2	20.5	23.2	25.9	25.6	23.0	22.0	22.3
max	61.2	61.2	59.4	56.5	57.2	50.0	66.6	55.4	54.7	57.6	61.2	48.6	66.6	61.2
min	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	1.4	0.0	1.8	0.0	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	2.3	2.1	2.3	3.5	3.7	3.6	3.7	3.6	3.3	3.5	2.7	3.5	3.2	2.8
median	0.0	0.0	0.0	0.0	0.2	0.6	0.6	0.4	0.4	0.2	0.0	0.0	0.0	0.0
max	99.6	37.2	60.2	95.4	68.4	48.2	46.2	51.8	81.2	67.6	77.8	82.2	99.6	99.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	69.8	47.8	69.4	109.9	119.6	106.3	116.7	112.3	99.4	107.8	80.6	106.5	95.5	84.5
max	140.8	111.2	129.4	271.4	183.6	211.0	187.4	207.4	177.8	172.0	216.6	209.8	271.4	271.4
min	9.4	15.4	18.4	21.4	53.4	51.8	48.2	46.6	22.4	51.4	26.4	31.2	9.4	9.4
<b>Seasonal Rainfall, millimetres</b>														
mean													1146.0	594.2
max													1463.6	851.0
min													912.4	374.6
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	74.0	75.1	74.6	67.9	62.0	58.7	57.7	59.8	63.8	64.6	69.2	68.5	66.3	70.6
median	81.5	81.6	82.0	76.5	68.8	62.9	61.2	65.0	69.4	70.2	76.8	76.5	73.7	78.7
max	88.2	88.1	87.9	86.8	85.1	83.3	83.8	85.1	86.0	85.7	86.1	86.9	88.2	88.2
min	0.6	13.5	1.7	9.1	6.6	4.4	2.7	8.0	10.0	3.8	9.8	7.6	0.6	0.6
<b>Duff Moisture Code, DMC</b>														
mean	12.5	14.6	14.6	7.2	2.6	1.1	0.8	1.4	2.9	3.0	6.0	7.9	6.2	9.4
median	9.9	11.7	11.9	4.8	1.7	0.8	0.5	0.9	2.1	2.6	5.0	6.1	3.3	6.6
max	51.5	56.9	54.0	39.1	17.6	5.8	5.1	7.0	13.8	11.6	23.0	39.4	56.9	56.9
min	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	176.2	248.5	287.3	210.4	119.6	41.0	8.1	8.3	13.2	24.8	59.6	112.0	110.1	161.1
median	174.4	248.0	284.9	177.2	110.9	16.1	5.8	6.2	8.9	20.6	58.9	101.4	56.8	134.6
max	345.7	468.8	582.2	468.3	434.6	230.0	59.6	34.4	55.9	79.8	177.4	307.7	582.2	582.2
min	6.4	5.3	4.2	2.3	1.2	0.4	0.8	0.8	0.7	2.3	4.4	5.6	0.4	2.3
<b>Initial Spread Index, ISI</b>														
mean	4.5	4.2	4.4	2.8	1.9	1.5	1.5	1.7	2.5	2.6	3.4	3.3	2.9	3.6
median	3.8	3.5	3.6	2.3	1.4	1.2	1.1	1.3	1.9	2.1	2.9	2.7	2.1	2.9
max	22.4	32.9	21.2	16.2	12.0	10.2	17.4	13.9	16.4	12.8	20.9	18.7	32.9	32.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	20.3	24.7	25.1	12.7	4.6	1.9	1.2	1.9	3.6	4.4	9.4	12.7	10.2	15.7
median	16.9	20.8	21.1	8.8	3.0	1.3	0.8	1.3	2.6	3.7	7.9	10.2	5.3	11.3
max	73.6	84.0	81.6	64.7	31.9	10.7	6.1	8.7	17.1	17.0	34.0	57.8	84.0	84.0
min	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	7.1	7.4	7.9	3.6	1.4	0.7	0.6	0.8	1.7	1.9	3.6	4.3	3.4	5.1
median	5.4	5.4	6.5	1.8	0.5	0.3	0.3	0.4	0.7	0.8	2.4	2.7	0.9	3.3
max	32.6	57.3	38.6	26.6	16.5	8.8	10.7	11.9	15.7	10.4	22.8	29.1	57.3	57.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.3	1.5	1.6	0.5	0.1	0.0	0.0	0.0	0.2	0.2	0.4	0.6	0.5	0.9
median	0.5	0.5	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.2
max	13.0	35.2	17.5	9.1	3.9	1.3	1.8	2.2	3.5	1.7	6.9	10.6	35.2	35.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	43.1	44.7	51.1	17.1	3.7	1.0	1.1	1.4	4.8	5.2	13.9	20.6	17.3	28.0
max	110.4	167.7	147.0	38.9	14.9	2.2	3.1	3.7	11.5	12.2	32.3	83.3	167.7	167.7
min	11.7	9.2	10.7	1.3	0.2	0.1	0.1	0.2	0.3	1.0	1.8	2.4	0.1	1.0
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													207.9	191.3
max													452.6	465.3
min													103.4	74.9



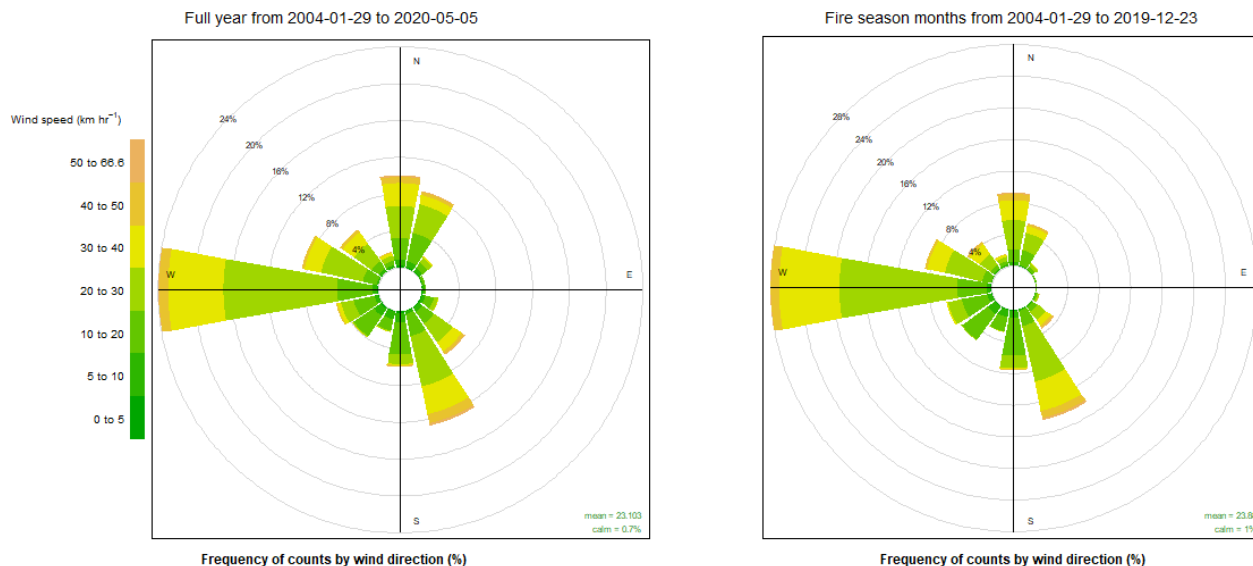
Station Name: Hawera Aws (HAW)

Period: 2004-01-29 - 2021-07-01

Length of record: 17 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	15.0	12.6	13.2	21.9	30.1	30.0	31.0	30.9	29.1	30.1	23.6	21.8	289.2	139.4
max	26	23	25	30	31	30	31	31	30	31	30	31	320	184
min	2	2	0	8	24	30	31	30	27	28	12	3	258	95
<b>Moderate</b>														
mean	13.3	12.7	14.1	7.4	0.9	0.0	0.0	0.1	0.9	0.9	6.3	8.7	65.4	62.5
max	25	20	21	19	7	0	0	1	3	3	18	23	91	96
min	5	5	5	0	0	0	0	0	0	0	0	0	44	27
<b>High</b>														
mean	2.3	2.4	2.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	8.3	8.0
max	10	8	8	3	0	0	0	0	0	0	1	3	20	21
min	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Very High</b>														
mean	0.4	0.3	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.8	1.8
max	3	2	3	2	0	0	0	0	0	0	0	2	5	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
max	0	3	3	0	0	0	0	0	0	0	0	0	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	1	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Taranaki (Taranaki)														
Curing%	55	75	75	50	40	30	25	25	35	40	40	50		
<b>Low</b>														
mean	3.2	2.2	3.2	6.2	10.1	12.2	14.1	12.9	7.6	6.9	4.4	5.5	88.8	32.5
max	9	8	9	13	18	19	21	20	15	11	12	12	129	56
min	0	0	0	1	3	7	9	7	1	2	0	0	71	16
<b>Moderate</b>														
mean	20.2	15.6	16.2	21.4	20.5	17.7	16.6	18.0	21.3	22.8	23.6	22.1	236.0	141.6
max	25	22	23	29	28	23	22	24	28	26	27	27	262	158
min	12	8	7	15	13	11	10	11	14	18	18	15	208	125
<b>High</b>														
mean	7.3	9.4	9.8	2.4	0.4	0.1	0.3	0.1	1.1	1.3	1.9	3.4	37.4	35.2
max	15	16	19	6	2	1	1	1	4	3	5	7	61	58
min	3	4	2	0	0	0	0	0	0	0	0	0	19	18
<b>Very High</b>														
mean	0.2	1.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.8
max	2	3	5	0	0	0	0	0	0	0	0	0	9	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	0	1	1	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	5.2	3.4	5.4	8.2	12.1	13.8	15.0	13.7	10.8	10.3	7.0	7.8	112.7	48.2
max	11	8	12	15	20	20	20	22	22	17	13	12	144	77
min	1	0	1	3	5	8	9	7	4	5	1	1	95	30
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.8	0.9	0.8	1.1	2.9	3.5	3.1	2.2	1.7	1.8	0.8	1.0	20.6	7.1
max	2	4	4	5	6	6	7	7	5	6	3	3	34	16
min	0	0	0	0	1	0	1	0	0	0	0	0	14	2
<b>Very High</b>														
mean	2.1	3.4	2.2	3.9	4.9	5.4	5.5	5.8	4.1	3.2	3.1	3.2	46.9	21.5
max	5	8	6	8	10	11	10	11	9	8	7	7	64	33
min	0	0	0	1	2	2	2	3	1	0	1	0	34	12
<b>Extreme</b>														
mean	8.4	9.1	9.9	10.7	7.7	5.1	5.6	6.4	8.2	9.6	10.1	10.2	100.9	68.0
max	14	14	14	17	14	10	10	13	12	15	13	14	119	77
min	3	5	4	4	3	0	1	3	4	5	7	6	88	55
<b>Very Extreme</b>														
mean	14.4	11.4	12.6	6.1	3.3	2.2	1.9	2.9	5.2	6.1	9.1	8.8	84.1	67.5
max	24	20	24	13	9	5	5	9	11	13	13	19	110	99
min	6	5	2	0	0	0	0	0	1	0	0	0	40	39

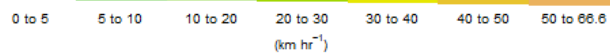
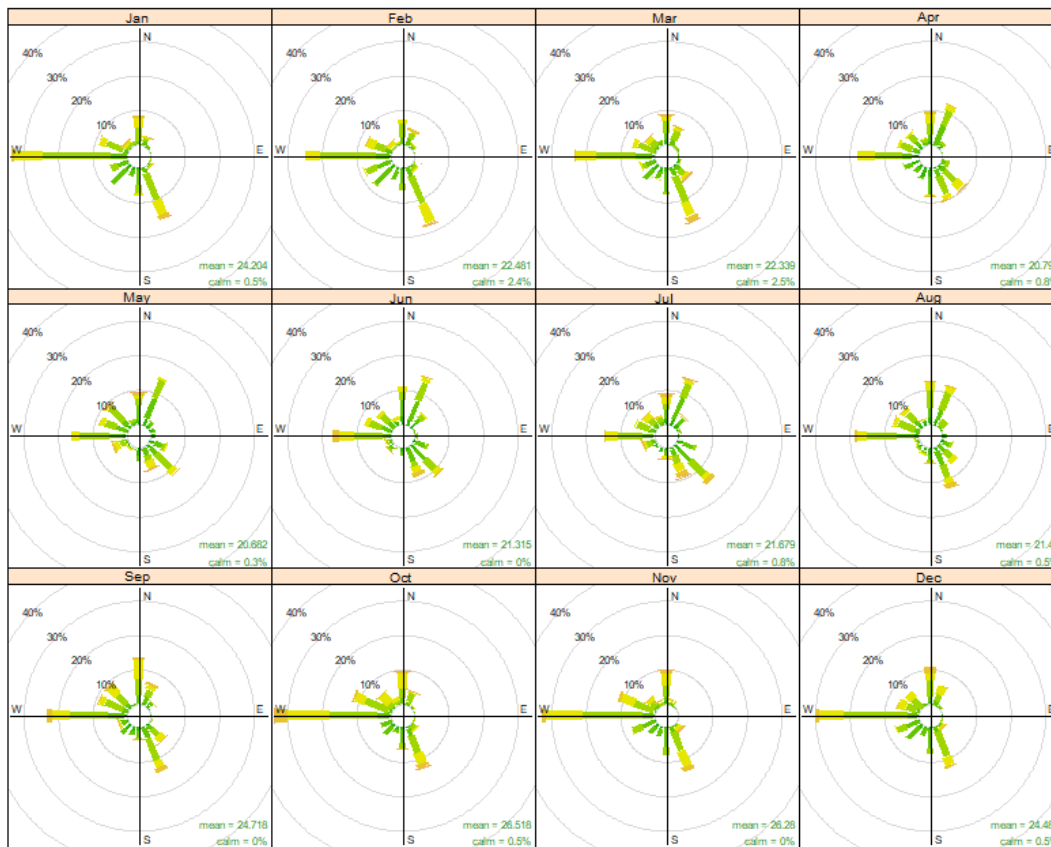
### Windroses for Hawera Aws (HAW)



Frequency of counts by wind direction (%)

Frequency of counts by wind direction (%)

### HAW station from 2004-01-29 to 2020-05-05



Frequency of counts by wind direction (%)

Station Name: New Plymouth SYNOP  
(NPA)

Period: 1963-01-01 - 2021-07-01

Length of record: 58 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	20.2	20.8	19.7	17.4	14.9	12.8	12.0	12.6	13.8	15.0	16.6	18.6	16.2	18.3
median	20.0	21.0	20.0	17.7	15.0	13.0	12.0	12.9	14.0	15.0	16.6	18.6	16.0	18.2
max	26.1	28.0	26.1	23.3	20.1	23.2	18.0	18.7	20.8	25.7	24.0	27.0	28.0	28.0
min	12.0	11.1	11.0	6.0	6.0	6.0	5.0	4.0	6.0	8.0	9.4	9.4	4.0	6.0
<b>Relative Humidity, %</b>														
mean	72.8	70.1	71.1	73.1	76.1	77.6	77.0	76.2	76.2	77.1	75.1	74.4	74.7	73.4
median	73.0	70.0	71.0	73.0	75.9	77.0	76.2	76.0	76.2	77.0	74.2	73.3	74.0	73.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	36.0	31.0	28.0	38.0	43.0	38.5	32.0	39.0	36.8	41.0	39.0	28.0	28.0	28.0
<b>Wind Speed, km/h</b>														
mean	21.3	19.9	20.1	20.4	20.9	21.4	20.7	21.8	23.4	24.6	23.9	22.5	21.7	21.8
median	19.0	18.4	18.5	19.0	20.0	20.0	20.0	20.5	22.3	24.0	22.2	22.0	20.0	20.0
max	66.7	72.3	74.0	69.0	68.4	72.4	66.7	64.8	72.4	61.0	70.6	61.2	74.0	74.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	2.3	2.4	2.5	3.2	3.4	3.6	3.7	3.3	3.0	3.2	2.7	3.0	3.0	2.8
median	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
max	96.2	83.0	134.7	118.2	63.5	94.0	69.0	68.6	101.2	88.6	101.8	95.2	134.7	134.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	71.3	67.5	76.5	95.7	106.5	108.5	113.4	103.3	90.4	97.9	81.8	92.2	92.1	83.3
max	288.4	409.2	362.1	321.7	262.9	270.8	268.0	287.4	231.0	437.4	283.0	380.4	437.4	437.4
min	0.0	0.0	0.0	0.3	0.0	0.0	0.3	1.5	0.4	0.0	0.1	0.0	0.0	0.0
<b>Seasonal Rainfall, millimetres</b>														
mean													1105.1	590.2
max													1940.6	1296.4
min													33.1	11.6
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	75.4	77.2	75.6	72.1	67.4	63.9	62.8	64.1	66.2	67.9	71.5	71.8	69.6	73.0
median	82.3	83.3	83.0	80.8	76.7	72.9	71.0	71.9	74.6	76.1	79.0	80.3	78.7	80.9
max	89.9	91.2	91.0	88.8	86.7	86.1	85.9	87.1	87.5	88.3	88.4	90.6	91.2	91.2
min	1.1	3.4	0.0	2.0	0.0	1.2	1.7	0.7	2.3	2.8	1.4	0.0	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	31.7	36.8	39.0	34.8	26.7	22.0	17.6	15.7	16.3	19.5	24.7	30.5	26.3	31.0
median	12.8	15.9	13.2	7.6	3.1	1.5	1.3	1.9	3.0	3.9	6.7	8.7	5.9	9.4
max	213.3	195.8	234.8	247.8	225.3	166.5	139.4	142.6	117.5	139.3	167.9	195.9	247.8	247.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	465.9	508.7	529.1	486.0	397.1	352.7	328.8	313.9	316.0	330.0	378.0	439.0	403.6	447.9
median	176.0	238.6	241.9	162.4	44.1	12.7	8.2	8.8	12.0	25.6	59.3	106.3	74.9	139.9
max	2355.3	2548.9	2708.2	2710.3	2724.9	2021.9	2037.0	2048.6	1852.3	1937.4	2096.8	2299.0	2724.9	2710.3
min	6.6	5.3	4.5	2.3	0.9	1.0	0.6	0.4	0.8	2.6	4.4	5.7	0.4	2.3
<b>Initial Spread Index, ISI</b>														
mean	4.4	4.8	4.3	3.7	2.8	2.5	2.3	2.6	3.0	3.3	3.8	4.0	3.4	4.0
median	3.6	3.9	3.6	2.9	2.1	1.7	1.6	1.9	2.4	2.5	3.1	3.2	2.7	3.3
max	28.8	30.7	27.4	28.6	24.0	16.5	18.2	23.3	21.2	21.9	24.4	29.4	30.7	30.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	53.2	61.0	64.6	57.7	44.6	37.4	30.4	27.1	27.9	33.2	41.6	51.3	44.2	51.8
median	21.0	25.8	22.3	13.0	4.7	2.2	1.8	2.4	3.6	5.4	10.1	14.0	9.3	15.2
max	344.2	319.0	374.5	393.2	373.5	241.3	237.9	236.4	201.4	235.1	278.5	323.0	393.2	393.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	9.8	11.5	10.4	8.4	5.8	4.9	4.4	4.6	5.2	6.1	7.5	8.9	7.3	8.9
median	6.9	8.7	7.6	4.0	1.2	0.7	0.6	0.7	1.1	1.9	3.7	4.8	2.9	5.1
max	64.6	78.1	64.2	76.5	60.2	52.6	57.3	64.1	59.8	58.3	59.8	68.6	78.1	78.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.6	3.3	2.8	2.5	1.6	1.4	1.2	1.2	1.3	1.7	1.9	2.6	2.0	2.5
median	0.8	1.2	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.2	0.5
max	43.5	60.8	43.1	58.7	38.4	30.3	35.2	42.9	38.0	36.3	37.9	48.4	60.8	60.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	80.8	94.3	87.4	75.7	48.9	42.3	36.5	36.3	38.9	51.8	58.1	80.6	61.0	75.5
max	428.3	421.6	378.7	475.8	318.2	322.4	335.5	268.0	280.6	332.6	346.1	510.7	510.7	510.7
min	4.5	1.9	4.8	0.7	0.6	0.1	0.1	0.1	0.1	0.7	2.1	2.8	0.1	0.7
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													731.6	518.6
max													3630.9	2265.8
min													61.7	54.5

Station Name: New Plymouth SYNOP  
(NPA)

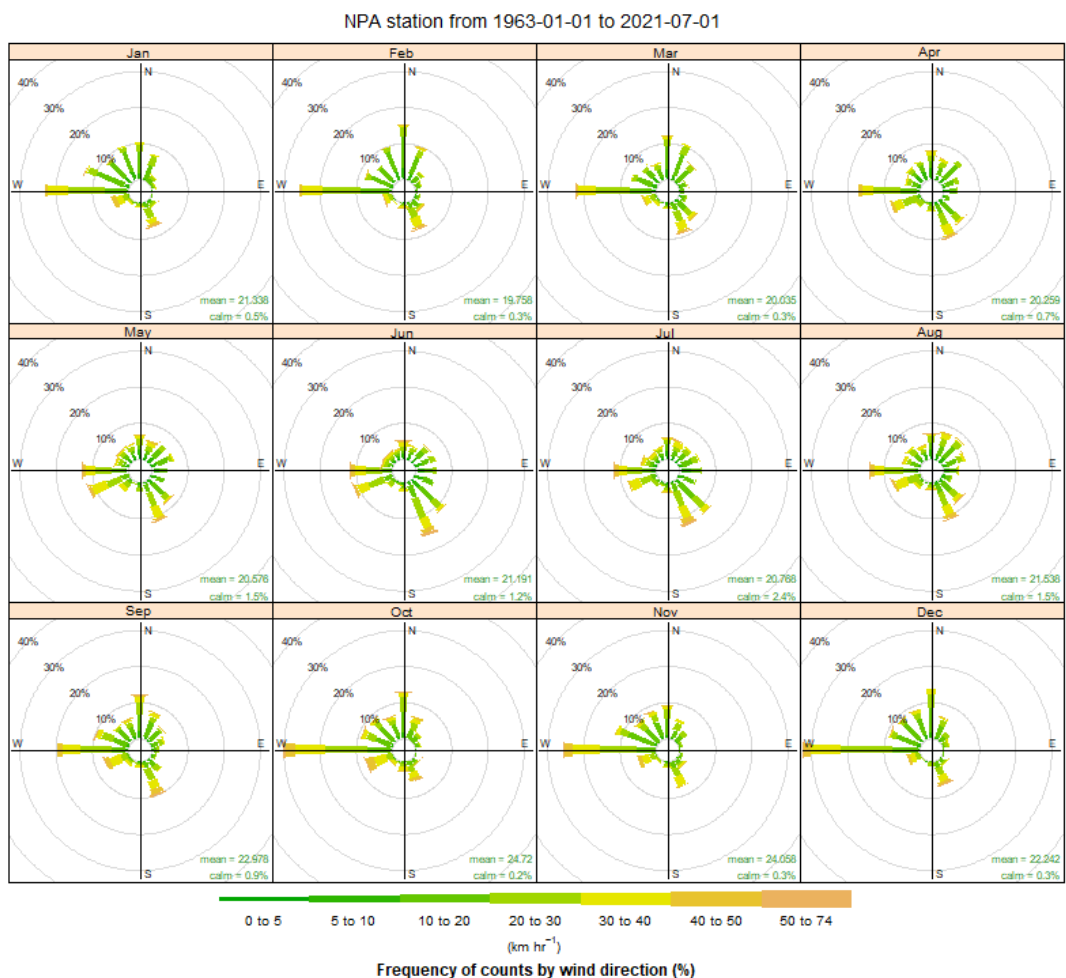
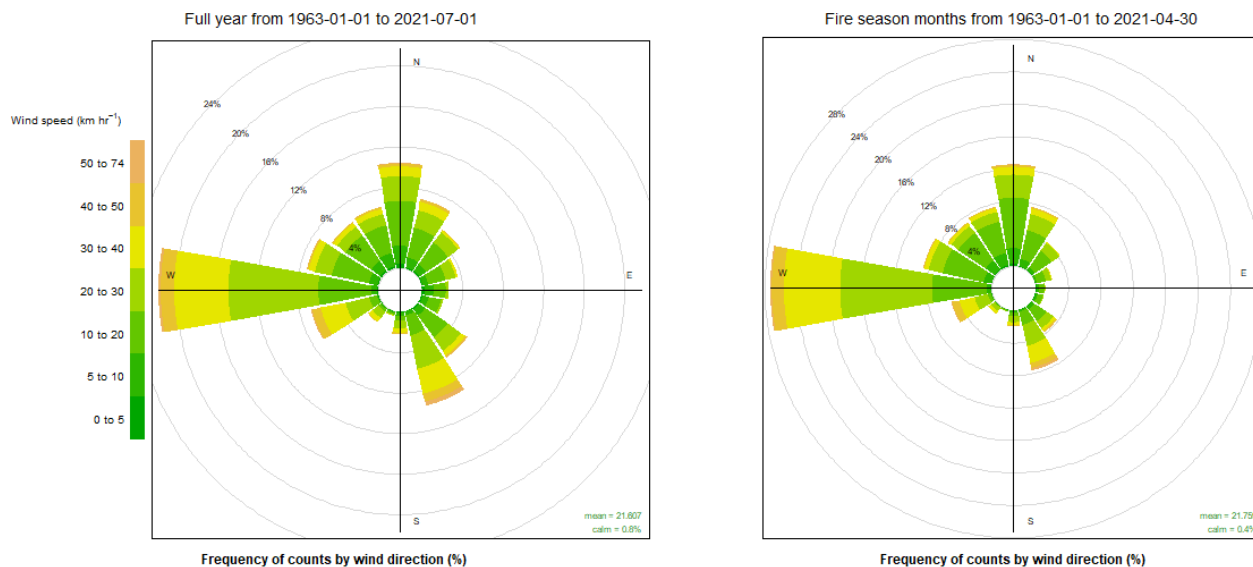
Period: 1963-01-01 - 2021-07-01

Length of record: 58 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	13.0	10.0	12.8	17.6	23.0	23.6	24.7	24.3	23.3	23.1	19.0	17.3	231.8	114.1
max	30	29	30	30	31	30	31	31	30	31	30	31	342	189
min	0	0	0	0	0	0	0	0	0	0	0	0	3	0
<b>Moderate</b>														
mean	12.2	11.2	11.1	7.4	4.5	3.4	3.1	3.9	3.5	4.0	6.6	8.3	79.2	60.7
max	25	23	23	21	21	22	21	21	20	23	20	21	178	110
min	1	0	1	0	0	0	0	0	0	0	0	0	24	24
<b>High</b>														
mean	3.4	3.8	4.2	2.4	1.7	1.4	1.8	1.5	1.9	2.1	2.6	2.8	29.6	20.7
max	12	13	17	13	10	13	12	11	12	18	14	15	122	82
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	1.2	1.7	1.4	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.9	11.1	7.4
max	10	11	8	8	7	8	5	6	7	6	6	10	69	51
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.8	0.9	1.0	1.1	1.0	0.6	0.5	0.4	0.5	0.7	0.6	1.0	9.2	6.1
max	7	7	9	11	11	7	6	5	7	10	6	9	61	40
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.4	0.6	0.3	0.6	0.2	0.3	0.1	0.2	0.1	0.3	0.3	0.7	4.3	3.3
max	7	6	5	8	4	6	5	4	2	5	5	14	47	31
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Taranaki (Taranaki)														
Curing%	55	75	75	50	40	30	25	25	35	40	40	50		
<b>Low</b>														
mean	2.9	2.3	2.6	4.5	6.7	9.5	11.2	10.0	7.6	6.1	4.1	4.4	71.9	27.2
max	10	11	11	14	16	21	23	23	20	16	11	12	130	50
min	0	0	0	0	0	0	0	0	0	0	0	0	3	0
<b>Moderate</b>														
mean	22.1	14.5	17.1	21.6	22.5	19.6	19.4	20.4	21.0	22.6	23.2	22.0	246.0	143.1
max	27	23	26	28	29	29	30	30	28	31	29	29	294	165
min	15	6	10	13	14	9	8	8	10	13	16	14	212	123
<b>High</b>														
mean	5.6	9.7	9.7	3.7	1.8	0.9	0.4	0.6	1.4	2.3	2.7	4.4	43.2	37.8
max	14	19	17	15	9	7	5	5	7	13	9	16	96	74
min	0	2	3	0	0	0	0	0	0	0	0	0	17	17
<b>Very High</b>														
mean	0.3	1.5	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.7	3.7
max	2	6	5	2	1	0	0	0	0	0	1	4	14	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
max	0	4	1	0	0	0	0	0	0	0	0	0	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.6	3.3	4.5	6.0	8.7	10.5	11.6	10.9	9.5	8.4	6.3	6.2	90.4	39.6
max	14	13	14	16	21	23	26	24	22	20	16	17	158	68
min	0	0	0	0	0	0	0	0	0	0	0	0	2	0
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	1	1	0	0	0	1	1	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.0	0.9	0.9	1.4	2.3	2.4	2.9	2.1	1.4	1.4	1.0	0.8	18.5	7.3
max	5	4	5	6	8	9	8	6	5	6	5	4	31	18
min	0	0	0	0	0	0	0	0	0	0	0	0	5	1
<b>Very High</b>														
mean	2.4	2.5	2.7	3.3	4.7	4.6	4.0	3.8	3.0	3.1	2.9	3.0	40.0	20.0
max	7	8	7	10	11	12	8	10	7	9	7	8	60	36
min	0	0	0	0	1	0	0	0	0	0	0	0	25	9
<b>Extreme</b>														
mean	10.9	9.1	10.6	10.0	8.8	6.7	7.6	8.2	8.7	9.8	10.1	10.2	110.6	70.5
max	20	19	19	17	18	15	15	18	18	20	18	18	164	105
min	5	2	2	1	1	0	0	3	3	2	3	2	79	49
<b>Very Extreme</b>														
mean	12.1	12.5	12.3	9.3	6.6	5.8	5.0	5.9	7.4	8.3	9.7	10.7	105.7	74.8

max	25	24	22	21	24	20	18	18	20	23	20	24	201	129
min	3	2	4	0	0	0	0	0	0	0	2	3	50	38

### Windroses for New Plymouth SYNOP (NPA)



Station Name: Marco Raws (WHG)													Period: 1994-07-31 - 2021-07-02		Length of record: 26 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	21.5	21.8	20.1	17.1	13.9	11.4	10.7	11.8	13.7	15.4	17.3	19.6	16.2	19.0		
median	21.6	21.9	20.1	17.2	14.0	11.7	11.0	11.8	13.8	15.5	17.3	19.7	16.0	19.0		
max	29.9	30.6	26.9	24.8	21.6	19.0	18.0	17.4	21.7	22.6	26.0	29.4	30.6	30.6		
min	10.3	13.1	12.0	5.6	3.0	2.4	0.3	4.7	2.6	6.8	6.1	10.5	0.3	5.6		
<b>Relative Humidity, %</b>																
mean	64.7	65.2	67.2	75.1	81.3	83.5	81.7	76.6	72.0	69.1	66.7	67.4	72.6	67.9		
median	63.0	64.0	66.0	75.0	83.0	85.0	83.0	77.0	72.2	68.0	65.0	66.0	72.0	67.0		
max	99.0	99.0	99.0	100.0	100.0	100.0	100.0	100.0	99.0	98.9	99.0	99.0	100.0	100.0		
min	31	27	30	39	36	38	24	29	26	34	34	24	24	24		
<b>Wind Speed, km/h</b>																
mean	9.8	8.8	9.0	8.2	8.3	8.0	8.2	8.9	10.3	11.3	10.9	10.3	9.3	9.8		
median	9.0	7.9	8.1	7.2	7.2	6.8	7.1	8.0	9.2	10.7	10.2	9.8	8.6	9.0		
max	36.0	32.1	31.9	30.5	37.0	42.8	31.0	39.0	37.8	33.0	31.7	28.7	42.8	36.0		
min	1.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	1.4	1.6	2.1	1.5	0.0	0.0		
<b>24-hr Rainfall, millimeters</b>																
mean	3.4	3.5	3.5	4.9	5.6	5.7	5.8	5.7	5.9	6.0	5.4	5.1	5.0	4.5		
median	0.0	0.0	0.0	0.2	0.4	0.6	0.4	1.0	0.8	0.6	0.2	0.2	0.2	0.2		
max	77.2	71.0	87.6	120.0	81.2	124.6	87.0	69.6	78.0	114.4	94.8	74.2	124.6	120.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	104.8	101.5	104.8	149.3	173.8	170.3	179.7	175.4	174.9	187.6	148.8	158.2	152.4	136.4		
max	246.8	385.8	251.8	346.6	319.0	346.2	419.0	284.4	347.6	605.0	310.2	341.4	605.0	605.0		
min	30.8	19.2	34.4	36.8	82.8	53.8	42.2	43.0	34.4	50.4	34.8	35.8	19.2	19.2		
<b>Seasonal Rainfall, millimetres</b>																
mean													1829.2	964.5		
max													2592.9	1543.2		
min													1255.4	531.4		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	73.5	73.5	71.5	62.5	53.9	45.9	47.2	50.3	57.5	61.1	66.4	67.0	60.8	67.9		
median	82.0	83.7	81.4	71.2	57.0	45.7	47.1	50.6	60.8	66.2	74.4	75.5	67.4	77.1		
max	90.5	92.0	91.4	88.9	86.9	85.9	90.9	89.7	89.4	88.6	90.2	91.8	92.0	92.0		
min	5.8	10.3	3.6	2.7	1.6	2.3	2.0	0.0	2.6	6.9	5.3	3.0	0.0	2.7		
<b>Duff Moisture Code, DMC</b>																
mean	15.0	17.3	14.0	6.3	2.3	0.7	0.9	1.6	3.3	4.7	9.2	10.0	7.1	10.9		
median	12.6	14.3	10.8	4.9	1.4	0.4	0.4	0.6	1.9	3.3	6.7	7.7	3.6	8.0		
max	64.4	63.2	80.7	29.4	20.0	7.2	10.0	25.1	28.6	28.0	44.1	43.1	80.7	80.7		
min	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>Drought Code, DC</b>																
mean	110.8	164.1	168.0	101.7	38.1	9.0	6.9	7.4	10.4	19.5	44.6	71.5	62.3	96.5		
median	100.3	163.5	170.5	86.1	14.3	5.4	4.6	4.4	6.6	12.5	31.0	50.2	21.5	66.5		
max	314.2	375.6	398.2	346.1	242.7	130.3	80.0	81.7	55.2	92.3	188.6	291.2	398.2	398.2		
min	6.4	5.4	4.2	1.7	0.2	0.4	0.0	0.9	0.2	2.2	3.5	5.9	0.0	1.7		
<b>Initial Spread Index, ISI</b>																
mean	2.5	2.5	2.2	1.3	0.8	0.5	0.6	0.7	1.1	1.3	1.9	1.9	1.4	2.0		
median	2.3	2.5	2.0	0.9	0.5	0.1	0.2	0.3	0.7	0.9	1.3	1.4	0.9	1.4		
max	11.6	9.6	10.5	8.9	7.5	5.7	9.1	13.4	10.8	9.0	9.7	10.5	13.4	11.6		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	21.4	26.3	21.8	10.2	3.5	1.1	1.2	1.9	3.6	5.7	11.6	13.9	10.1	15.7		
median	18.6	22.6	17.3	8.2	2.2	0.6	0.7	0.9	2.1	3.9	8.5	10.8	4.9	11.7		
max	81.3	88.2	106.7	41.3	29.9	10.0	15.2	24.8	28.2	31.8	52.2	51.7	106.7	106.7		
min	0.7	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	4.5	5.2	4.1	1.6	0.5	0.2	0.2	0.5	0.8	1.2	2.5	2.8	2.0	3.1		
median	3.6	4.1	2.5	0.5	0.2	0.0	0.0	0.1	0.2	0.3	0.7	0.9	0.4	0.9		
max	20.3	24.2	26.5	11.6	10.9	5.8	8.3	15.7	14.1	11.3	16.3	18.4	26.5	26.5		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	0.6	0.8	0.6	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.3	0.4		
median	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
max	5.6	7.7	9.0	2.1	1.9	0.6	1.2	3.6	3.0	2.0	3.8	4.7	9.0	9.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	19.5	23.4	18.3	4.4	1.1	0.2	0.4	1.3	2.0	2.9	8.8	9.8	7.7	12.4		
max	67.4	67.8	84.8	16.3	11.0	2.9	3.4	27.4	22.7	11.7	33.5	29.9	84.8	84.8		
min	2.2	0.3	3.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.8	0.0	0.1		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													91.9	86.5		
max													188.1	220.0		
min													24.3	13.3		

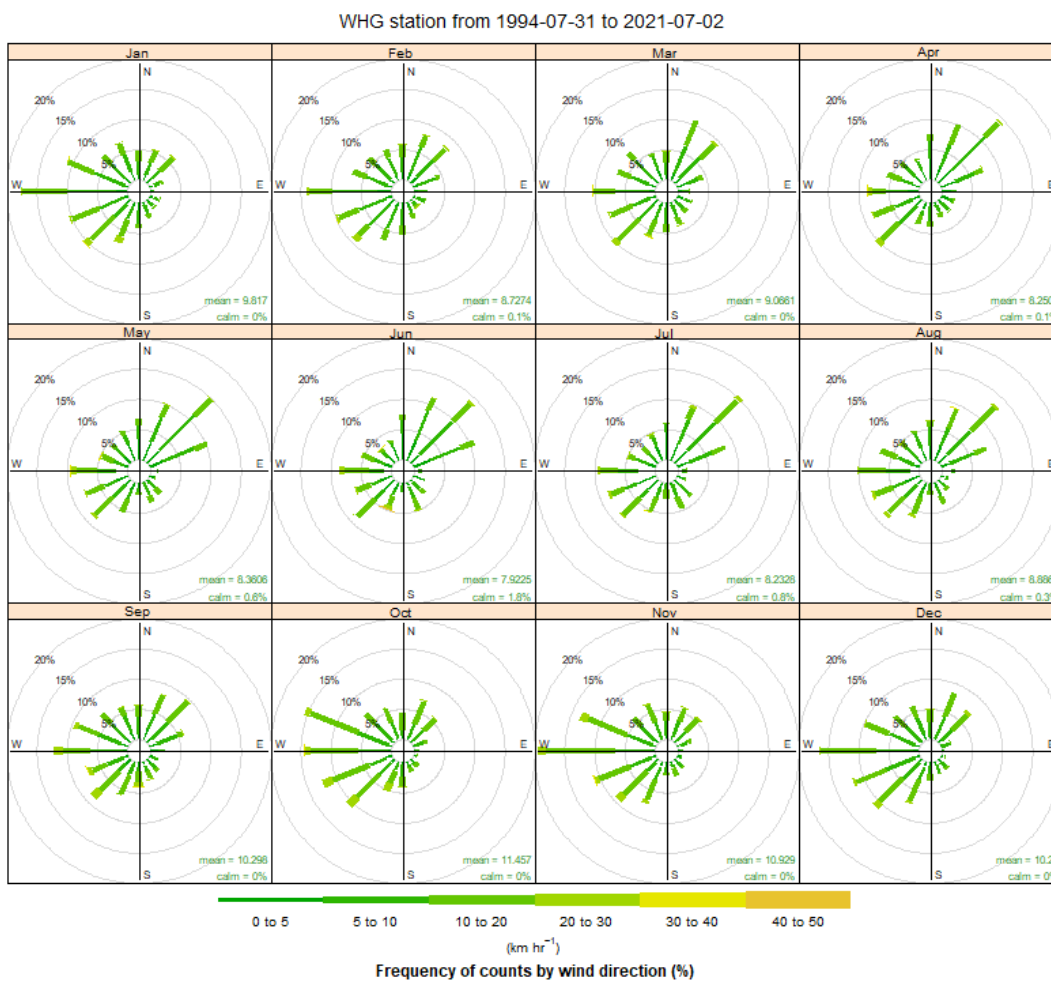
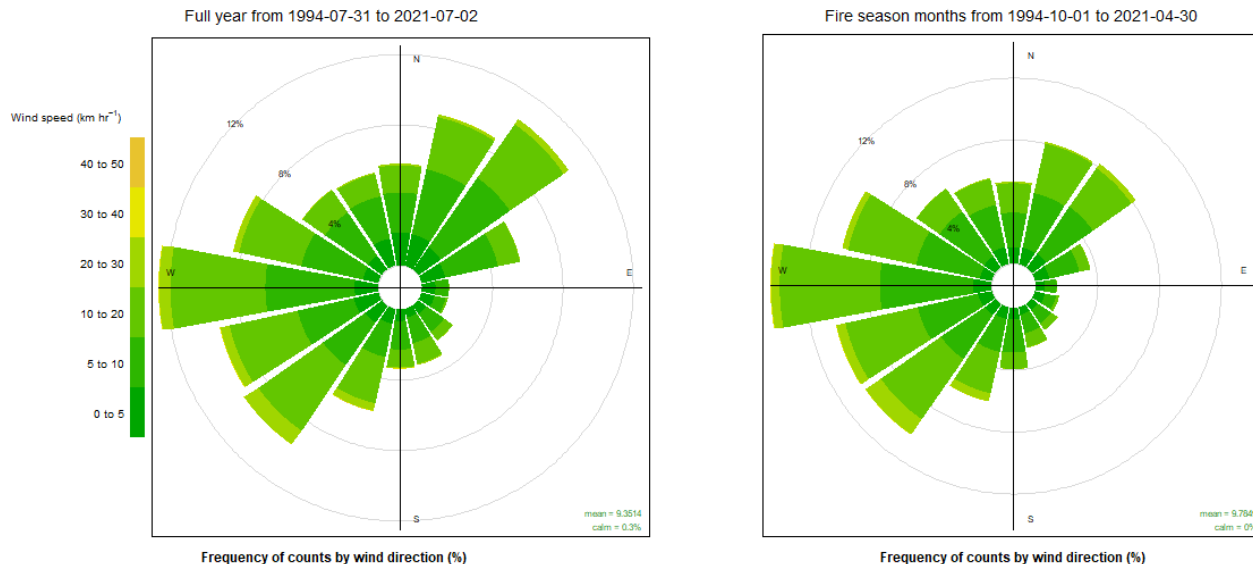
Station Name: Marco Raws (WHG)

Period: 1994-07-31 - 2021-07-02

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	18.1	15.3	20.0	26.7	30.5	30.0	31.0	30.5	29.5	29.4	23.7	24.5	309.2	157.7
max	31	29	29	30	31	30	31	31	30	31	30	31	353	205
min	5	4	7	18	23	30	31	18	20	20	5	10	260	105
<b>Moderate</b>														
mean	12.5	11.7	10.3	3.3	0.5	0.0	0.0	0.5	0.5	1.6	6.2	6.5	53.5	52.0
max	25	22	24	12	8	0	0	13	10	11	24	21	104	92
min	0	0	2	0	0	0	0	0	0	0	0	0	12	7
<b>High</b>														
mean	0.4	1.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	2.5	2.4
max	8	6	12	0	0	0	0	0	0	0	2	1	14	16
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	1	1	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Taranaki (Taranaki)														
Curing%	55	75	75	50	40	30	25	25	35	40	40	50		
<b>Low</b>														
mean	6.1	5.1	5.8	11.2	17.6	24.0	24.7	22.8	15.6	13.6	10.1	9.6	166.2	61.7
max	12	19	11	22	31	29	31	30	26	20	18	18	217	96
min	1	1	2	3	8	10	12	4	3	5	1	3	89	34
<b>Moderate</b>														
mean	24.2	19.0	21.8	18.7	13.4	6.0	6.3	8.2	14.2	17.3	19.8	21.2	190.3	141.9
max	30	24	28	27	23	20	19	26	25	25	29	28	262	159
min	19	10	17	8	0	1	0	1	4	11	12	13	146	112
<b>High</b>														
mean	0.7	4.2	3.3	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.2	8.8	8.7
max	4	13	10	3	0	0	0	1	3	1	1	2	24	21
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	6.5	6.3	7.1	11.3	16.4	21.3	20.1	18.7	14.6	13.5	10.0	10.0	155.8	64.9
max	11	20	13	22	31	29	30	27	27	20	18	20	209	97
min	2	1	3	4	7	11	9	2	3	6	2	3	90	38
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	1	1	1	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	3.6	3.5	5.1	6.3	7.8	5.7	6.8	6.5	5.3	5.4	4.5	4.7	65.3	33.0
max	8	8	10	13	16	14	14	14	10	11	9	9	80	47
min	0	1	1	1	0	0	1	2	0	3	0	1	40	15
<b>Very High</b>														
mean	4.4	3.0	3.6	4.7	3.8	1.8	2.2	3.4	4.3	4.0	4.2	4.1	43.7	27.9
max	9	7	7	10	12	8	7	9	8	8	8	9	62	47
min	0	0	0	1	0	0	0	0	0	1	2	1	26	17
<b>Extreme</b>														
mean	11.0	10.0	11.2	6.4	2.4	1.1	1.6	1.5	4.7	6.6	8.3	8.3	73.0	62.2
max	20	16	20	16	13	11	10	8	12	17	16	16	118	86
min	5	2	5	0	0	0	0	0	0	1	1	2	47	38
<b>Very Extreme</b>														
mean	5.5	5.5	4.0	1.3	0.6	0.1	0.3	0.7	1.2	1.5	3.0	3.8	27.4	24.3
max	19	15	11	10	6	3	4	17	11	6	12	12	89	63
min	0	0	0	0	0	0	0	0	0	0	0	0	6	4

### Windroses for Marco Raws (WHG)

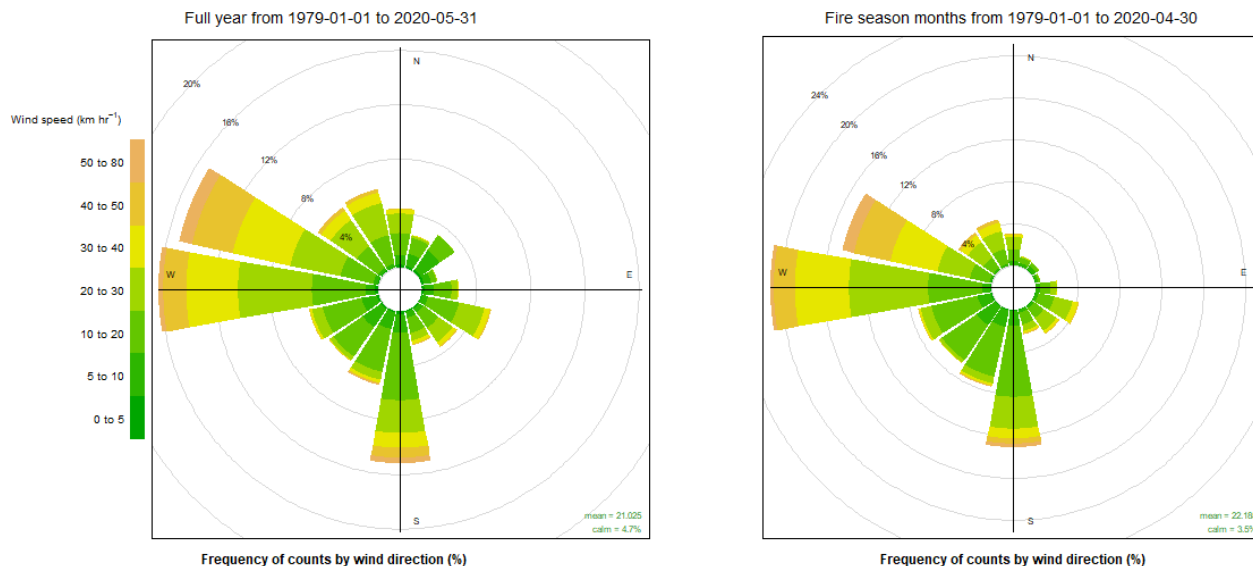




Station Name: Wanganui Aero (WUA)													Period: 1979-01-01 - 2021-07-02		Length of record: 42 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	20.5	20.8	19.6	17.3	15.0	12.7	11.9	12.7	14.0	15.4	17.0	19.0	16.3	18.5		
median	20.4	21.0	19.7	17.2	15.0	12.9	12.0	13.0	14.0	15.5	17.0	19.0	16.0	18.5		
max	29.0	30.0	29.0	25.1	23.4	20.5	18.6	24.9	21.5	26.0	25.4	28.0	30.0	30.0		
min	11.0	12.9	12.0	8.0	7.0	5.1	3.3	5.0	6.0	7.0	7.0	11.0	3.3	7.0		
<b>Relative Humidity, %</b>																
mean	67.2	67.2	67.1	68.3	71.6	75.2	74.5	71.9	69.8	70.2	67.7	68.3	69.9	68.0		
median	67.0	66.6	66.0	68.0	70.4	74.2	73.0	71.0	69.0	69.1	67.0	68.0	69.0	67.6		
max	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.0	100.0	100.0	100.0	100.0	100.0		
min	31.0	28.0	33.0	34.8	37.0	34.7	43.8	38.1	40.0	32.1	29.0	23.0	23.0	23.0		
<b>Wind Speed, km/h</b>																
mean	23.2	20.2	20.0	18.4	18.8	18.3	18.1	19.4	22.6	24.9	25.7	23.3	21.1	22.3		
median	22.0	19.0	18.5	17.0	17.0	17.0	17.0	19.0	22.0	22.2	24.0	22.0	19.0	20.0		
max	64.8	59.4	75.0	65.0	68.4	72.0	78.0	83.0	67.0	80.0	65.0	72.0	83.0	80.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>24-hr Rainfall, millimeters</b>																
mean	2.0	2.3	2.1	2.6	2.9	3.4	3.2	2.8	2.6	3.0	2.9	2.9	2.7	2.5		
median	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0		
max	102.2	64.0	89.6	70.0	99.6	144.2	173.4	48.0	38.0	45.8	200.0	66.6	200.0	200.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	62.4	65.4	63.5	78.5	90.6	101.3	98.6	86.2	78.3	92.5	86.9	89.7	82.8	77.0		
max	143.4	208.8	197.2	170.0	188.2	250.8	279.0	201.0	192.0	234.3	379.4	204.6	379.4	379.4		
min	3.8	14.2	8.6	22.4	26.0	29.0	8.6	19.2	4.8	32.0	9.0	17.8	3.8	3.8		
<b>Seasonal Rainfall, millimetres</b>																
mean													994.0	540.3		
max													1692	1034		
min													676.6	315.8		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	78.0	76.9	76.1	72.9	68.8	63.1	63.0	64.8	69.3	69.9	73.6	73.9	70.8	74.5		
median	83.6	83.6	83.1	80.8	76.4	68.7	69.2	70.8	76.2	77.0	80.8	81.1	78.8	81.8		
max	91.3	91.5	90.0	88.5	87.8	86.7	86.2	88.4	88.3	89.4	89.8	91.5	91.5	91.5		
min	2.6	11.0	4.3	10.0	8.5	3.1	4.3	2.1	4.3	4.5	3.4	5.0	2.1	2.6		
<b>Duff Moisture Code, DMC</b>																
mean	18.1	19.3	17.0	10.3	5.1	2.3	2.1	3.1	5.2	6.1	10.1	12.7	9.3	13.4		
median	14.9	14.6	13.6	8.3	3.9	1.6	1.5	2.0	4.1	5.2	8.5	10.0	6.0	10.0		
max	85.7	86.5	68.1	71.2	22.1	18.1	15.1	23.7	32.3	40.6	41.5	77.8	86.5	86.5		
min	1.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>Drought Code, DC</b>																
mean	219.7	276.8	295.1	253.1	178.0	93.6	48.0	35.2	34.6	40.2	82.1	138.0	141.4	186.4		
median	213.3	272.1	305.4	270.1	167.9	81.6	29.4	12.8	24.9	33.6	81.4	133.4	103.3	162.4		
max	471.7	592.9	577.4	609.9	507.1	357.9	213.8	197.3	197.8	157.1	237.2	400.9	609.9	609.9		
min	6.6	6.2	4.4	2.7	1.1	0.6	0.4	0.8	0.8	2.4	3.7	6.1	0.4	2.4		
<b>Initial Spread Index, ISI</b>																
mean	6.0	5.1	4.7	3.6	2.8	2.0	2.0	2.3	3.4	4.0	5.1	4.8	3.8	4.8		
median	4.8	4.1	3.7	2.7	2.1	1.4	1.4	1.7	2.5	3.0	4.1	3.9	2.7	3.7		
max	34.0	28.7	26.7	25.4	22.3	17.3	16.1	18.7	20.7	24.6	32.6	23.4	34.0	34.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	29.1	31.7	28.7	18.2	9.1	4.0	3.3	4.4	6.7	8.3	14.8	19.8	14.8	21.5		
median	24.9	25.1	23.7	15.2	7.0	3.0	2.3	2.8	5.4	7.2	13.1	16.3	9.6	16.6		
max	111.8	119.1	101.3	110.2	38.6	27.0	21.9	25.6	32.4	41.8	56.3	99.9	119.1	119.1		
min	2.1	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	10.7	9.9	8.8	5.4	2.8	1.3	1.2	1.7	3.0	3.8	6.5	7.2	5.2	7.5		
median	9.1	7.5	7.0	3.7	1.3	0.5	0.5	0.6	1.7	2.6	5.1	5.6	2.7	5.4		
max	56.1	57.7	46.2	37.4	25.7	12.5	14.7	18.5	23.2	23.0	35.4	42.5	57.7	57.7		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	2.6	2.4	1.9	0.9	0.3	0.1	0.1	0.2	0.4	0.5	1.2	1.4	1.0	1.6		
median	1.3	1.0	0.8	0.3	0.0	0.0	0.0	0.0	0.1	0.1	0.5	0.6	0.2	0.5		
max	33.9	35.6	24.1	16.5	8.5	2.4	3.2	4.7	7.1	7.0	15.0	20.7	35.6	35.6		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	81.5	66.8	58.9	28.0	10.0	3.2	2.8	4.9	11.1	15.9	35.4	43.7	30.2	47.2		
max	244.1	234.2	200.3	90.9	30.0	11.5	14.3	20.3	49.1	38.5	81.0	182.0	244.1	244.1		
min	11.8	7.5	8.5	2.4	0.8	0.3	0.0	0.0	0.5	1.2	8.7	2.8	0.0	1.2		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													362.1	334.0		
max													719.3	762.0		
min													56.5	115.6		

Station Name: Wanganui Aero (WUA)														Period: 1979-01-01 - 2021-07-02	Length of record: 42 years
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Forest Fire Danger Class (FFDC) Frequency</b>															
<b>Low</b>															
mean	10.0	10.6	12.5	18.4	26.2	29.3	30.6	29.5	26.5	25.5	16.9	15.7	251.6	108.9	
max	25	26	31	30	31	30	31	31	30	31	29	30	352	178	
min	0	1	1	5	12	21	24	17	12	17	1	1	198	62	
<b>Moderate</b>															
mean	14.0	12.3	13.9	10.2	4.7	0.7	0.4	1.5	3.3	5.5	12.0	12.8	91.2	81.0	
max	21	20	24	21	18	9	7	14	15	14	24	21	130	107	
min	4	3	0	0	0	0	0	0	0	0	1	1	14	35	
<b>High</b>															
mean	5.1	3.7	3.5	1.2	0.1	0.0	0.0	0.0	0.2	0.0	1.1	2.1	17.0	16.9	
max	17	14	13	6	2	0	0	0	3	1	7	11	38	41	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very High</b>															
mean	1.2	1.0	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.4	3.5	
max	7	5	4	2	0	0	0	0	0	0	1	2	15	15	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Extreme</b>															
mean	0.6	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.9	1.9	
max	6	7	5	0	0	0	0	0	0	0	0	5	9	9	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	
max	2	3	0	0	0	0	0	0	0	0	0	0	5	5	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Grass Fire Danger Class (GFDC) Frequency</b>															
Curing source Taranaki (Whanganui)															
Curing%	65	80	80	60	40	30	25	25	35	40	40	50			
<b>Low</b>															
mean	2.1	2.1	2.6	5.1	6.9	10.8	11.8	10.6	6.0	5.3	3.6	3.5	70.6	24.3	
max	7	6	13	14	15	23	26	31	17	14	8	13	140	46	
min	0	0	0	0	1	5	1	0	0	1	0	0	38	8	
<b>Moderate</b>															
mean	18.0	12.0	14.1	22.4	22.4	18.6	18.9	20.1	21.8	22.0	20.8	20.5	231.6	128.9	
max	27	18	20	27	28	25	30	31	28	28	27	28	284	156	
min	8	3	4	12	12	7	5	0	13	15	9	12	167	100	
<b>High</b>															
mean	9.6	11.2	11.3	2.5	1.7	0.5	0.2	0.3	2.1	3.7	5.5	6.7	55.4	51.2	
max	19	19	21	8	9	4	2	2	8	10	15	14	85	79	
min	2	4	5	0	0	0	0	0	0	0	1	1	25	30	
<b>Very High</b>															
mean	1.2	2.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	6.2	6.3	
max	5	9	8	1	0	0	0	0	0	1	3	3	15	14	
min	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
<b>Extreme</b>															
mean	0.0	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.5	
max	1	3	4	0	0	0	0	0	0	0	0	0	6	6	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Scrub Fire Danger Class (SFDC) Frequency</b>															
<b>Low</b>															
mean	3.0	3.7	4.4	6.0	8.5	11.1	11.7	10.9	7.9	7.3	5.2	5.3	85.2	34.9	
max	9	9	14	16	19	27	26	31	22	17	11	17	159	60	
min	0	0	1	0	1	3	0	2	0	2	0	0	54	17	
<b>Moderate</b>															
mean	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	
max	1	1	1	1	1	1	1	2	0	1	0	0	3	2	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>High</b>															
mean	1.0	1.1	1.3	2.3	3.0	4.0	3.7	3.1	2.0	1.4	1.0	1.4	25.3	9.4	
max	3	4	4	7	8	8	9	6	7	4	6	4	36	18	
min	0	0	0	0	0	0	1	0	0	0	0	0	11	4	
<b>Very High</b>															
mean	2.1	2.2	3.0	3.9	4.5	4.5	4.7	4.3	3.3	3.1	2.3	2.5	40.5	19.0	
max	6	8	8	8	9	8	10	10	9	9	6	7	63	33	
min	0	0	0	0	0	0	1	0	1	0	0	0	25	7	
<b>Extreme</b>															
mean	7.4	7.7	8.9	8.5	9.3	7.1	7.2	7.5	8.4	8.2	7.1	7.8	95.1	55.1	
max	17	15	15	16	17	15	15	15	17	14	12	15	124	75	
min	1	1	2	3	3	1	0	0	2	2	2	2	49	38	
<b>Very Extreme</b>															
mean	17.4	13.5	13.4	9.2	5.6	3.2	3.7	5.1	8.5	11.0	14.3	14.0	118.7	93.7	
max	29	25	24	19	15	10	13	13	17	19	22	24	159	133	
min	6	6	7	2	0	0	0	0	2	3	7	3	52	61	

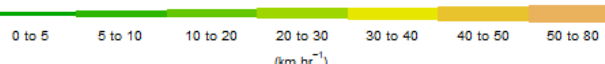
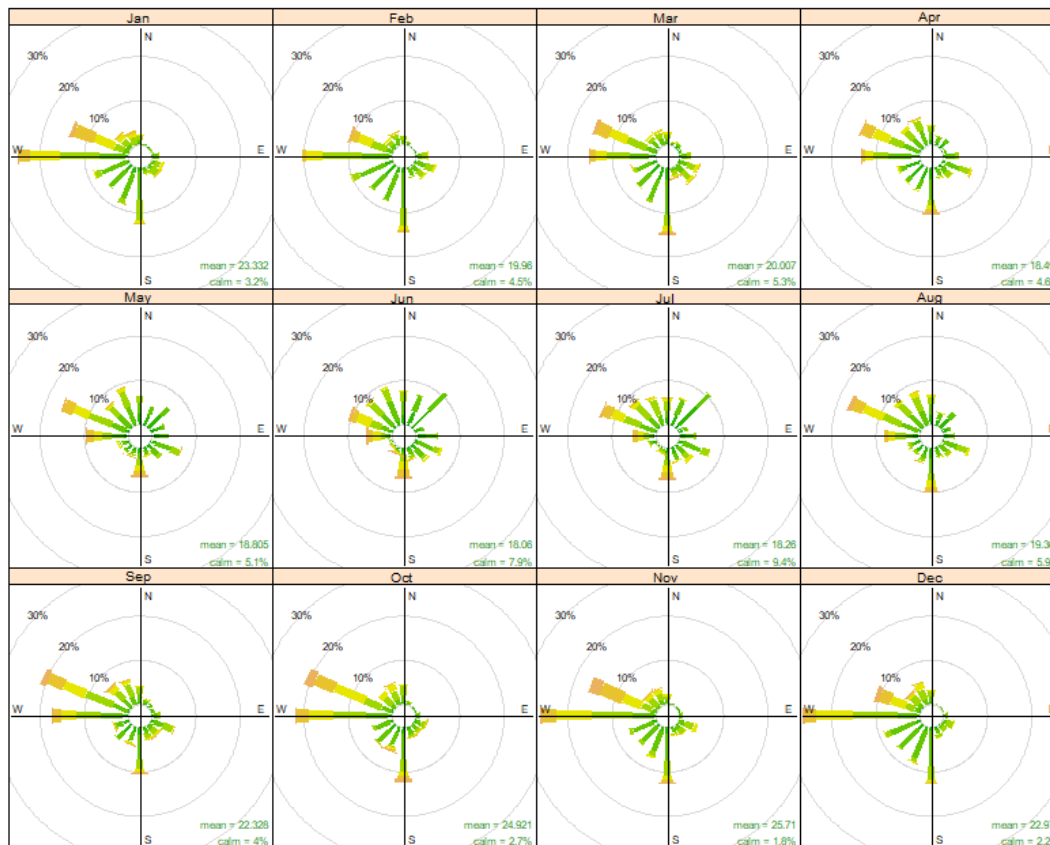
### Windroses for Wanganui Aero (WUA)



Frequency of counts by wind direction (%)

Frequency of counts by wind direction (%)

### WUA station from 1979-01-01 to 2020-05-31



Frequency of counts by wind direction (%)

Station Name: Levin Aws (LNX)

Period: 1991-10-01 - 2021-07-01

Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	20.5	21.0	19.5	17.2	14.8	12.3	11.6	12.4	13.8	15.0	16.5	18.8	16.1	18.3
median	20.0	21.0	19.4	17.2	15.0	12.4	11.7	12.5	14.0	15.0	16.0	18.3	16.0	18.0
max	30.6	30.0	28.7	24.4	22.2	19.0	18.8	18.5	21.6	24.0	26.0	29.0	30.6	30.6
min	14.0	12.0	12.0	5.0	7.4	6.0	3.5	6.1	7.0	6.0	10.0	10.0	3.5	5.0
<b>Relative Humidity, %</b>														
mean	65.8	63.8	64.5	68.2	73.3	76.0	74.5	71.9	70.9	71.4	68.7	68.4	69.8	67.3
median	66.0	64.0	64.0	68.0	73.0	76.6	74.0	72.0	71.0	71.0	68.0	68.0	70.0	67.0
max	99.0	97.0	98.0	98.0	98.0	99.0	100.0	98.8	100.0	100.0	99.0	99.0	100.0	100.0
min	24.0	31.0	33.0	34.0	41.0	45.0	38.4	28.9	38.0	29.0	32.0	27.0	24.0	24.0
<b>Wind Speed, km/h</b>														
mean	15.4	14.2	13.3	11.7	11.4	11.5	11.8	13.4	15.2	16.8	16.9	15.7	13.9	14.9
median	13.1	13.0	11.1	9.0	8.5	9.0	9.0	11.1	13.1	14.8	14.8	13.1	11.3	13.0
max	78.8	69.8	52.5	41.3	54.4	69.4	69.9	79.1	48.2	57.0	75.0	61.9	79.1	78.8
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.1	2.6	2.2	2.8	3.1	3.6	3.1	2.8	3.2	3.1	3.3	3.4	2.9	2.8
median	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
max	65.0	65.0	81.1	75.6	53.0	78.6	54.8	49.8	74.0	67.4	77.6	81.7	81.7	81.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	65.5	73.7	66.4	84.5	97.0	107.6	94.7	86.2	95.2	97.8	98.0	101.5	89.0	83.9
max	162.3	271.8	209.5	189.2	192.6	247.7	306.7	179.2	201.1	250.6	215.2	175.2	306.7	271.8
min	13.0	13.8	21.6	22.6	17.8	30.8	26.8	18.8	9.4	39.4	15.6	10.2	9.4	10.2
<b>Seasonal Rainfall, millimetres</b>														
mean													1068.0	592.5
max													2186.0	1206.2
min													801.6	269.8
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	76.3	77.3	75.9	71.9	65.7	59.8	62.3	64.3	66.1	67.2	70.2	70.5	69.0	72.7
median	83.0	84.4	83.4	80.5	73.8	64.6	68.4	70.1	72.6	73.4	77.7	78.3	76.8	80.7
max	93.3	90.8	91.0	88.6	86.8	85.1	85.5	89.6	88.0	89.6	88.3	90.9	93.3	93.3
min	7.9	10.0	16.7	9.9	7.5	2.8	6.4	6.1	4.2	5.5	7.6	7.2	2.8	5.5
<b>Duff Moisture Code, DMC</b>														
mean	16.7	20.9	18.8	10.9	5.2	2.1	2.1	3.0	4.7	5.4	9.2	11.8	9.2	13.3
median	14.4	17.9	15.0	8.9	3.8	1.4	1.6	2.2	3.6	4.4	7.4	8.4	5.7	9.9
max	77.3	62.3	92.5	42.3	31.0	11.5	13.4	14.6	23.1	27.3	53.2	104.1	104.1	104.1
min	0.4	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	181.7	245.9	277.0	246.8	166.1	77.5	33.3	25.8	21.7	31.8	66.3	111.5	123.9	164.9
median	172.4	237.6	261.6	222.7	151.8	58.9	15.3	12.9	13.9	25.1	59.2	109.7	81.7	134.8
max	513.3	532.2	696.4	627.7	623.4	287.0	164.8	143.9	115.6	131.1	252.3	455.8	696.4	696.4
min	6.4	5.9	4.4	3.0	1.3	1.0	1.1	0.8	1.0	2.4	4.5	5.2	0.8	2.4
<b>Initial Spread Index, ISI</b>														
mean	3.7	3.8	3.4	2.3	1.7	1.1	1.3	1.6	1.9	2.1	2.8	2.7	2.4	3.0
median	3.4	3.6	3.1	2.1	1.3	0.8	1.0	1.2	1.5	1.7	2.4	2.3	1.8	2.6
max	22.7	20.3	27.7	16.7	18.2	13.7	17.3	19.7	12.1	18.8	23.7	16.3	27.7	27.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	26.2	33.4	31.0	19.0	9.1	3.6	3.3	4.1	5.7	7.2	13.1	17.6	14.4	21.0
median	23.2	29.8	26.0	15.9	6.8	2.3	2.4	3.0	4.4	6.0	10.6	13.4	8.8	15.8
max	110.8	94.0	138.7	69.5	55.1	20.1	18.6	19.4	26.4	35.9	69.7	127.3	138.7	138.7
min	0.7	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	7.0	8.3	7.0	3.7	1.7	0.7	0.8	1.0	1.5	1.9	3.6	4.3	3.4	5.1
median	5.7	7.5	5.7	2.6	0.7	0.3	0.3	0.4	0.6	0.8	2.4	2.7	1.0	3.4
max	40.4	39.7	43.7	28.2	21.2	8.8	16.4	19.0	11.9	15.5	28.9	47.5	47.5	47.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.3	1.6	1.3	0.5	0.2	0.0	0.0	0.1	0.1	0.2	0.5	0.7	0.5	0.9
median	0.6	1.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.2
max	18.9	18.4	21.8	10.1	6.1	1.3	3.9	5.0	2.2	3.5	10.5	25.3	25.3	25.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	40.4	46.1	41.2	15.1	4.6	1.0	1.5	2.4	3.4	5.0	13.9	22.3	16.4	26.3
max	121.5	151.4	170.6	39.0	13.3	3.7	7.7	18.6	14.3	14.4	62.0	234.6	234.6	234.6
min	5.9	4.2	5.9	0.9	0.1	0.1	0.1	0.1	0.1	0.2	2.8	2.1	0.1	0.2
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													196.7	182.6
max													522.5	518.0
min													72.8	49.6

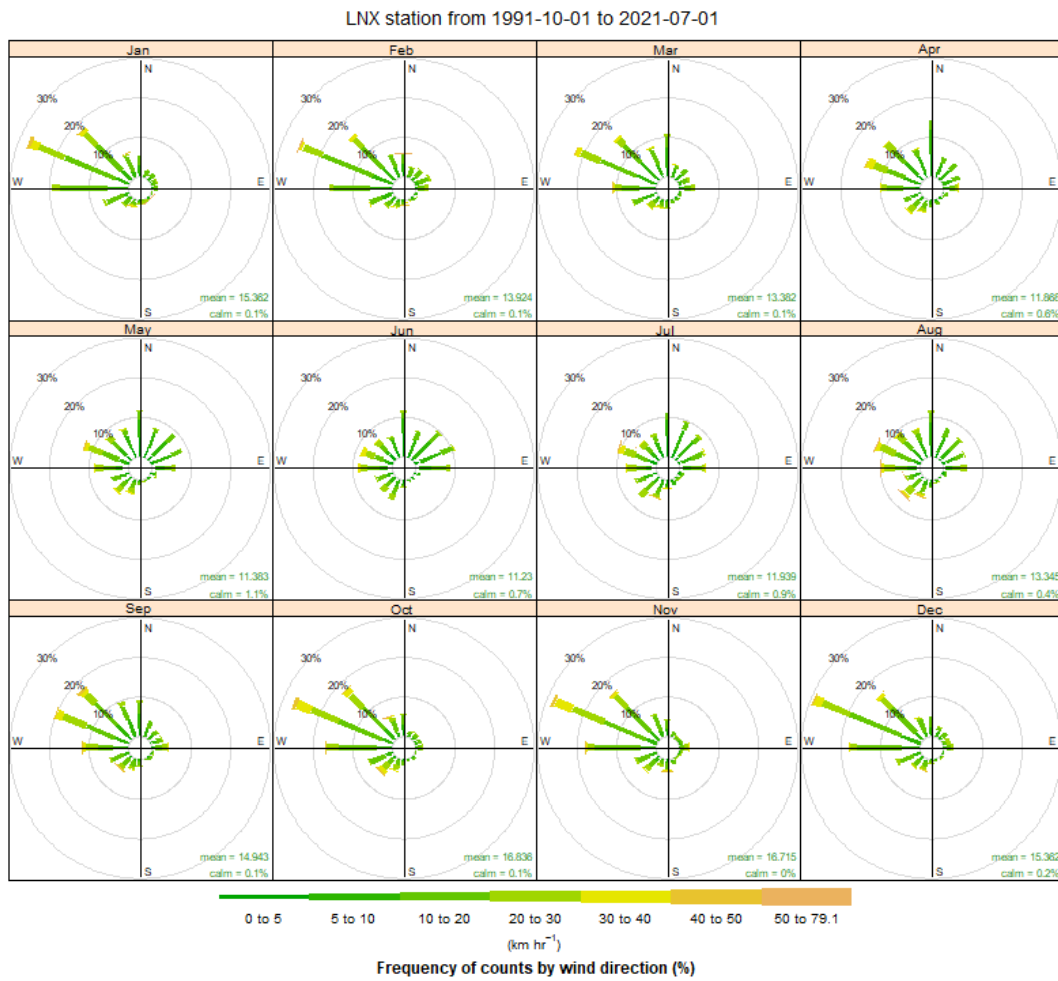
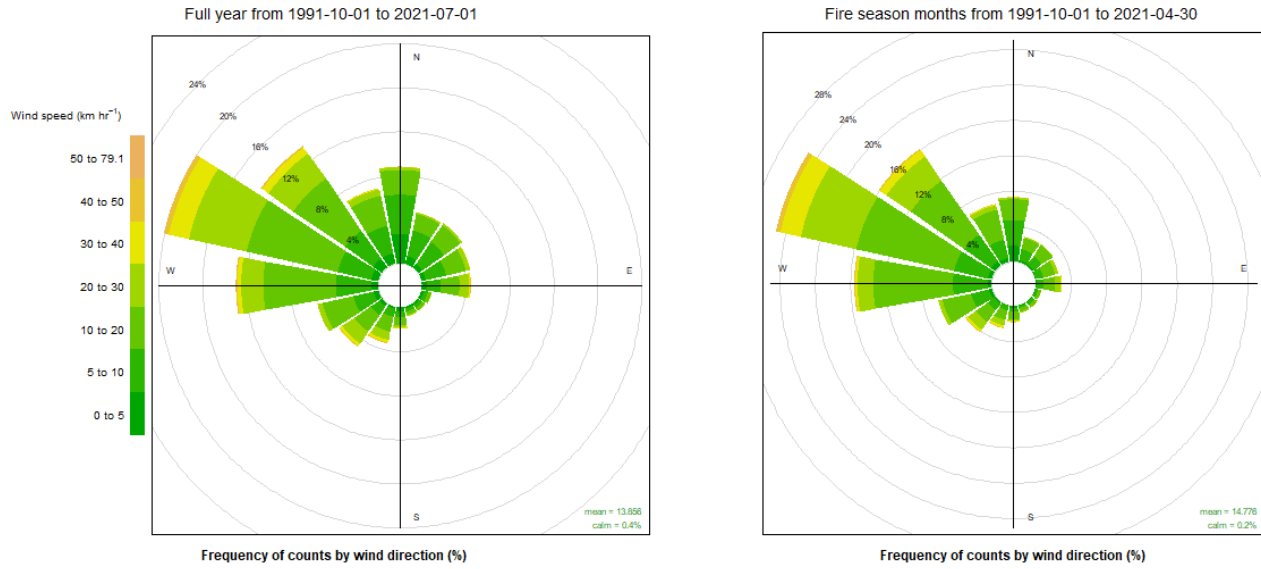
Station Name: Levin Aws (LNX)

Period: 1991-10-01 - 2021-07-01

Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	14.2	10.5	14.1	20.1	29.0	30.0	30.7	30.3	28.8	28.7	22.6	21.2	280.1	131.4
max	28	26	26	30	31	30	31	31	30	31	30	31	331	190
min	1	0	3	7	20	29	25	22	17	21	3	1	239	80
<b>Moderate</b>														
mean	14.1	14.0	13.9	9.6	1.9	0.0	0.3	0.7	1.2	2.3	7.2	8.8	74.1	70.1
max	23	21	23	23	11	1	6	9	13	10	23	23	107	98
min	3	3	3	0	0	0	0	0	0	0	0	0	34	22
<b>High</b>														
mean	2.4	3.1	2.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	9.2	9.0
max	11	14	22	2	1	0	0	0	0	0	4	12	50	49
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.2	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.5	1.5
max	3	4	3	1	0	0	0	0	0	0	0	11	11	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3
max	1	2	2	0	0	0	0	0	0	0	0	2	5	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	1	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Wanganui/Manawatu (Horowhenua)														
Curing%	80	90	70	50	40	40	40	40	40	40	50	60		
<b>Low</b>														
mean	2.9	2.5	3.5	6.2	10.0	13.4	12.3	10.7	8.8	7.8	5.8	6.7	90.7	35.3
max	6	8	9	14	19	21	20	20	14	15	12	13	120	59
min	0	0	0	1	3	7	4	1	1	1	0	1	69	12
<b>Moderate</b>														
mean	16.3	10.8	21.5	23.1	20.8	16.6	18.5	20.0	21.0	22.9	22.5	23.4	237.3	140.6
max	27	17	28	29	28	23	27	30	28	30	29	29	262	154
min	7	3	14	16	12	9	11	11	16	16	18	18	196	123
<b>High</b>														
mean	10.6	13.2	5.8	0.8	0.2	0.0	0.2	0.4	0.2	0.3	1.7	0.9	34.3	33.4
max	21	21	16	4	1	1	1	3	2	2	7	7	52	54
min	2	7	0	0	0	0	0	0	0	0	0	0	19	17
<b>Very High</b>														
mean	1.0	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.6
max	4	6	1	0	0	0	0	0	0	0	0	0	8	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
max	1	1	1	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.5	3.9	4.8	6.8	10.1	13.2	11.7	10.8	9.4	9.1	7.6	7.7	99.6	44.1
max	10	12	10	15	18	22	23	20	16	15	15	14	139	71
min	0	0	1	1	3	7	4	1	1	2	0	1	74	18
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	1	0	1	1	1	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.1	1.9	2.9	3.9	4.9	6.4	7.2	6.1	4.1	3.4	2.7	3.2	49.0	20.1
max	6	5	5	10	9	10	13	11	9	11	7	9	65	31
min	0	0	0	0	1	0	2	2	1	0	0	0	33	13
<b>Very High</b>														
mean	3.2	2.6	3.4	4.5	6.0	5.6	5.7	6.4	5.0	4.8	3.7	3.8	54.7	26.2
max	7	7	8	9	13	12	12	14	10	10	8	11	66	36
min	0	0	0	0	3	1	2	2	1	1	0	0	44	14
<b>Extreme</b>														
mean	10.3	8.4	9.6	11.3	8.0	3.9	5.0	5.6	8.8	10.4	9.7	9.1	100.0	69.0
max	17	18	16	20	14	9	11	14	18	19	17	18	130	85
min	6	3	3	1	2	1	1	0	2	2	4	3	78	50
<b>Very Extreme</b>														
mean	10.8	11.4	10.2	3.6	2.0	0.9	1.5	2.0	2.7	3.3	6.4	7.2	61.9	52.8
max	22	22	25	9	6	5	6	9	8	9	19	26	93	92
min	2	1	2	0	0	0	0	0	0	0	0	0	39	20

Windroses for Levin Aws (LNX)



Station Name: Ngamatea Raws (NTA)

Period: 1993-10-22 - 2021-07-01

Length of record: 27 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	16.8	16.9	15.0	12.1	9.5	6.8	6.3	7.0	8.8	10.7	12.4	15.2	11.5	14.2
median	17.4	17.1	15.2	12.2	9.3	6.7	6.0	6.9	8.9	10.9	12.5	15.5	11.3	14.2
max	28.5	26.5	29.8	28.3	24.4	23.1	24.6	18.2	20.4	21.4	25.2	27.7	29.8	29.8
min	4.9	5.0	3.2	-1.3	-0.6	-4.1	-3.9	-4.4	-0.8	-1.8	1.0	1.5	-4.4	-1.8
<b>Relative Humidity, %</b>														
mean	68.6	70.4	72.0	76.6	81.0	84.0	82.8	78.3	74.7	72.1	69.9	70.0	75.0	71.4
median	67.7	68.0	71.0	76.8	82.0	85.0	84.0	79.0	74.0	72.0	68.9	68.8	75.0	70.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	19.0	27.0	22.0	28.5	21.0	25.0	25.5	24.1	18.0	23.0	21.0	26.0	18.0	19.0
<b>Wind Speed, km/h</b>														
mean	23.5	21.0	21.2	21.5	24.4	24.8	24.3	23.9	25.8	28.4	27.4	24.5	24.2	23.9
median	21.1	18.4	18.2	19.1	22.0	22.0	23.0	21.4	24.1	25.9	24.8	22.0	21.9	21.1
max	68.0	65.3	74.1	69.5	69.1	65.9	81.3	67.9	66.4	86.8	92.9	69.4	92.9	92.9
min	2.5	2.9	1.1	1.5	2.0	0.0	0.0	0.0	3.2	1.8	2.2	1.9	0.0	1.1
<b>24-hr Rainfall, millimetres</b>														
mean	2.7	1.9	2.2	3.1	2.7	3.2	4.5	2.7	2.6	2.5	2.5	2.8	2.8	2.5
median	0.0	0.0	0.2	0.2	0.4	0.8	0.9	0.4	0.2	0.2	0.2	0.2	0.2	0.2
max	191.0	87.4	81.8	104.0	58.6	108.2	122.2	69.4	69.4	69.0	119.0	74.0	191.0	191.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	85.1	56.2	68.3	95.9	85.2	95.0	140.1	83.8	76.7	74.2	74.5	87.8	85.2	77.4
max	321.4	187.0	159.2	255.2	202.0	241.0	284.6	233.2	235.4	160.4	183.0	183.4	321.4	321.4
min	13.4	5.8	5.8	22.4	10.0	14.2	4.4	13.4	0.0	6.0	14.6	9.4	0.0	5.8
<b>Seasonal Rainfall, millimetres</b>														
mean													1022.7	536.9
max													1349.8	962.5
min													616.4	172.0
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	72.0	71.4	68.2	62.3	56.2	49.4	44.7	55.6	61.8	65.1	67.7	68.9	61.9	67.9
median	82.0	81.1	78.2	73.6	62.6	52.1	45.6	59.5	72.1	72.9	77.0	78.2	71.3	77.9
max	93.1	91.8	92.1	89.8	88.7	86.8	84.7	88.0	91.9	90.3	91.8	93.0	93.1	93.1
min	0.0	3.0	2.4	1.5	2.0	0.0	0.1	2.1	0.6	2.6	1.0	1.0	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	16.7	17.0	13.2	6.8	2.8	0.8	0.6	1.2	3.5	5.6	8.1	11.4	7.3	11.2
median	12.5	13.4	9.0	4.0	1.5	0.3	0.1	0.6	2.3	3.5	6.8	8.1	3.5	7.4
max	100.1	71.0	74.2	58.6	20.9	11.7	6.0	7.2	19.7	39.6	33.9	66.0	100.1	100.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	193.4	255.3	275.7	231.4	169.8	94.9	22.0	10.2	15.1	31.6	76.0	121.1	125.1	168.7
median	185.7	248.3	254.8	203.7	87.9	27.2	2.6	3.5	6.3	20.8	66.0	110.3	69.7	139.3
max	489.6	602.0	653.2	681.6	656.7	571.3	547.4	147.0	185.7	281.1	290.6	350.8	681.6	681.6
min	5.8	3.9	8.4	1.8	0.0	0.0	0.0	0.0	0.0	0.9	2.6	4.6	0.0	0.9
<b>Initial Spread Index, ISI</b>														
mean	5.9	4.7	4.1	2.8	2.4	1.5	1.4	2.1	3.5	4.5	5.3	4.8	3.6	4.6
median	4.0	3.4	2.7	1.8	1.3	0.7	0.4	1.2	2.0	2.8	3.6	3.2	2.0	3.1
max	46.3	39.5	37.5	27.2	21.0	14.5	15.2	22.5	25.3	37.6	39.5	34.7	46.3	46.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	26.2	28.2	22.8	12.1	5.0	1.4	0.9	1.6	3.9	7.3	12.1	17.4	11.6	18.0
median	20.9	22.6	16.5	7.5	2.6	0.5	0.2	0.8	2.4	4.9	10.1	13.5	5.4	12.2
max	131.8	105.6	114.3	96.4	35.9	21.5	10.7	12.6	27.1	58.6	44.8	89.8	131.8	131.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	9.9	8.7	6.8	3.5	2.0	0.7	0.7	1.0	2.5	4.1	6.2	6.9	4.4	6.6
median	6.9	6.1	4.2	0.9	0.5	0.2	0.1	0.3	0.8	1.8	3.7	4.1	0.9	3.6
max	71.0	66.6	56.5	58.5	25.7	13.0	11.0	13.9	19.8	47.3	40.9	45.1	71.0	71.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.8	2.3	1.6	0.6	0.2	0.0	0.1	0.1	0.3	0.7	1.3	1.6	1.0	1.5
median	0.8	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.0	0.3
max	51.5	45.9	34.3	36.5	8.5	2.5	1.9	2.9	5.4	25.1	19.4	23.0	51.5	51.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	86.6	63.1	50.7	17.7	7.7	1.5	1.6	2.5	9.3	21.9	39.0	50.3	29.3	47.0
max	456.7	271.0	301.0	132.1	37.2	10.0	11.2	11.2	33.3	108.8	160.5	288.7	456.7	456.7
min	7.1	4.8	4.0	1.1	0.3	0.0	0.0	0.1	0.7	1.5	3.3	2.4	0.0	1.1
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													351.8	332.4
max													1337.5	1627.1
min													112.1	96.6

Station Name: Ngamatea Raws (NTA)

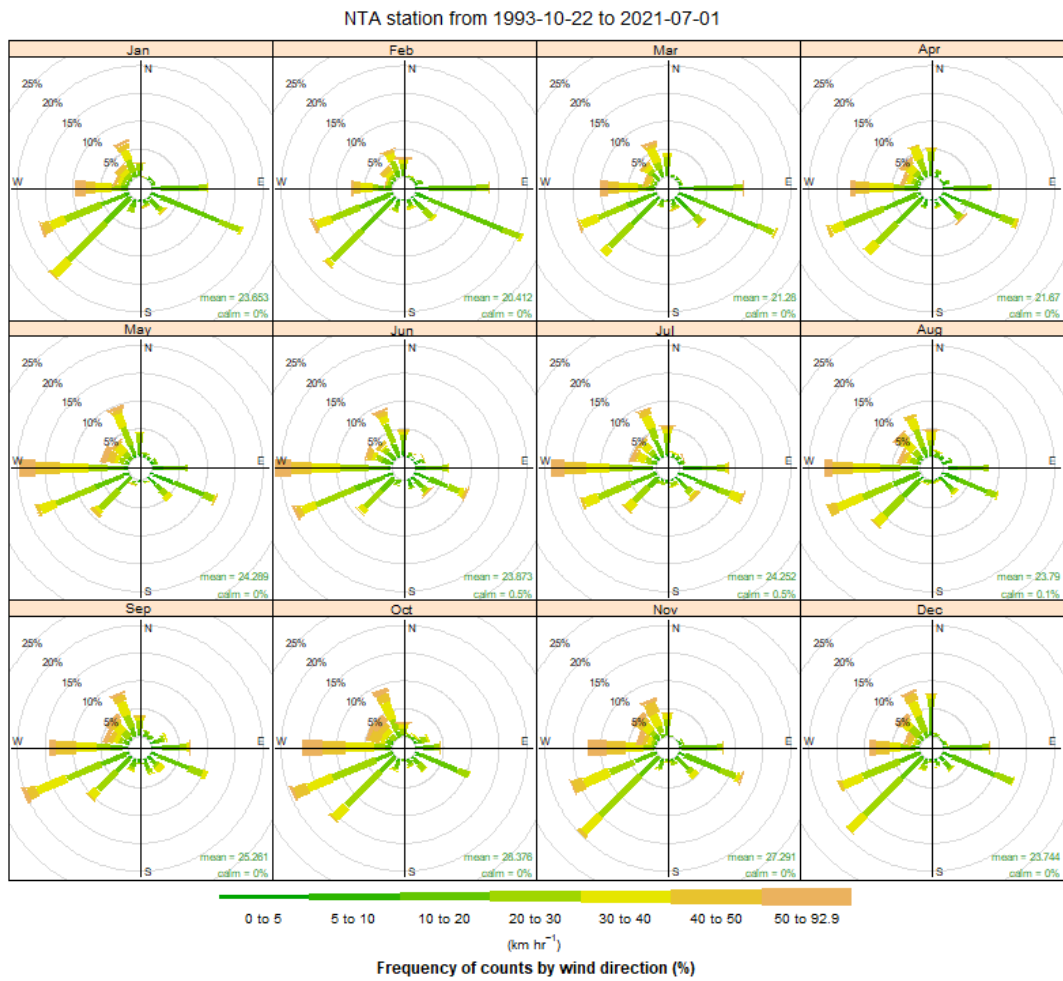
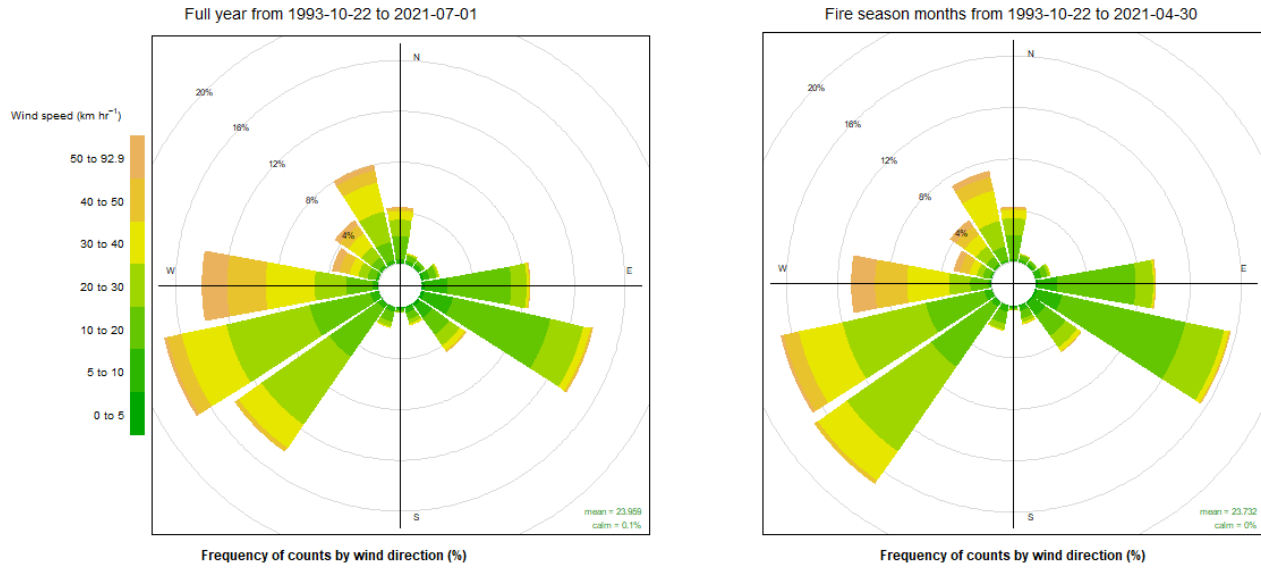
Period: 1993-10-22 - 2021-07-01

Length of record: 27 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	13.8	13.5	17.7	23.5	28.5	29.8	30.9	31.0	27.7	26.0	19.0	18.2	279.6	130.6
max	29	29	29	30	31	30	31	31	30	31	30	31	333	174
min	3	3	1	5	13	25	28	30	14	2	3	1	211	45
<b>Moderate</b>														
mean	11.3	10.3	10.1	5.8	2.3	0.2	0.1	0.0	2.2	4.5	9.6	9.5	66.0	61.9
max	22	18	17	18	14	5	3	1	16	23	19	20	106	97
min	2	0	2	0	0	0	0	0	0	0	0	0	29	34
<b>High</b>														
mean	3.6	3.0	2.0	0.4	0.2	0.0	0.0	0.0	0.0	0.4	1.1	2.3	13.0	13.0
max	10	15	13	4	4	0	0	0	1	6	7	13	38	45
min	0	0	0	0	0	0	0	0	0	0	0	0	3	1
<b>Very High</b>														
mean	1.2	0.7	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	3.5	3.7
max	5	4	7	1	0	0	0	0	0	2	3	10	17	30
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.7	0.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.2	2.3
max	5	4	6	2	0	0	0	0	0	1	0	7	16	23
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
max	9	4	3	1	0	0	0	0	0	0	0	0	17	17
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Wanganui/Manawatu (Rangitikei)														
Curing%	90	95	90	80	60	40	40	40	40	60	70	80		
<b>Low</b>														
mean	4.4	4.2	5.6	8.1	12.3	15.3	17.7	12.9	9.2	7.7	6.0	5.0	108.4	40.7
max	11	10	11	17	22	25	27	22	19	17	15	14	158	64
min	1	0	0	2	3	3	0	5	0	1	0	0	65	15
<b>Moderate</b>														
mean	9.2	9.2	11.8	14.7	16.7	14.2	12.5	16.6	16.7	17.9	13.5	12.4	165.4	88.9
max	18	17	18	22	28	25	28	23	25	24	21	22	213	107
min	4	3	4	8	9	5	4	7	10	13	4	0	129	56
<b>High</b>														
mean	9.7	9.7	9.7	6.1	2.0	0.5	0.7	1.4	4.0	5.0	7.4	9.7	66.0	57.3
max	21	16	18	18	5	2	3	7	10	12	11	18	92	88
min	5	2	5	1	0	0	0	0	0	0	1	1	33	39
<b>Very High</b>														
mean	4.4	3.0	2.3	0.9	0.0	0.0	0.0	0.0	0.1	0.4	2.5	2.4	16.1	16.0
max	9	7	9	3	0	0	0	0	2	3	11	10	34	44
min	0	0	0	0	0	0	0	0	0	0	0	0	5	6
<b>Extreme</b>														
mean	3.0	2.0	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.4	8.8	8.8
max	11	7	8	1	0	0	0	0	0	0	5	7	26	35
min	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Very Extreme</b>														
mean	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
max	3	2	2	0	0	0	0	0	0	0	0	0	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	6.3	6.4	8.2	10.9	14.7	17.8	20.0	15.7	10.8	10.3	8.4	7.9	137.3	58.1
max	14	14	14	20	26	29	28	24	23	20	16	16	194	78
min	1	0	0	3	4	5	1	8	0	1	0	1	86	24
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.1	1.3	1.9	2.0	2.1	1.9	1.7	1.9	1.9	1.1	1.1	1.5	19.4	10.1
max	4	4	6	6	6	5	10	5	8	6	4	4	34	19
min	0	0	0	0	0	0	0	0	0	0	0	0	9	1
<b>Very High</b>														
mean	2.7	3.0	3.1	3.4	3.4	3.4	2.3	3.9	2.9	2.3	2.0	3.0	35.3	19.6
max	7	6	6	8	7	8	7	11	8	6	5	7	50	31
min	0	0	0	0	0	0	0	0	0	0	0	0	26	13
<b>Extreme</b>														
mean	5.9	6.1	6.7	6.9	5.0	3.7	3.9	4.5	5.7	5.2	5.4	5.8	64.9	42.1
max	13	12	11	13	13	10	16	8	12	10	9	12	101	59
min	2	1	3	3	0	0	0	1	1	2	1	0	44	27
<b>Very Extreme</b>														
mean	15.1	11.4	11.0	6.8	5.8	3.3	3.0	5.0	8.8	12.1	13.1	12.9	108.3	82.3
max	23	21	24	18	14	14	9	11	18	24	26	30	168	146
min	6	3	3	1	1	0	0	0	2	4	5	1	60	52



Windroses for Ngamatea Raws (NTA)



Station Name: Palmerston North SYNOP  
(PMA)

Period: 1995-09-30 - 2021-07-01

Length of record: 25 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	21.4	21.9	20.2	17.4	14.9	12.4	11.5	12.3	14.0	15.5	17.2	19.8	16.6	19.0
median	21.0	22.0	20.0	17.8	15.0	12.4	11.7	12.6	14.0	15.5	17.0	20.0	16.0	19.0
max	31.0	30.0	28.0	26.0	22.1	20.0	18.0	18.8	22.0	24.0	26.0	29.0	31.0	31.0
min	12.0	12.0	12.0	8.0	7.5	6.0	3.0	4.4	5.0	7.0	7.0	10.0	3.0	7.0
<b>Relative Humidity, %</b>														
mean	60.4	58.7	60.9	66.9	72.3	76.4	75.2	72.7	68.9	68.2	64.8	63.2	67.4	63.3
median	59	57	60	66	72	76	75	72	69	67	64	62	67	62
max	99	99	98	99	100	100	100	100	100	99	99	98	100	99
min	22	24	22	30	43	47	38	49	41	29	29	21	21	21
<b>Wind Speed, km/h</b>														
mean	20.6	19.9	19.2	18.0	17.0	16.0	17.0	17.3	21.0	21.9	22.7	20.8	19.3	20.5
median	20.0	19.0	19.0	18.0	16.7	15.0	17.0	16.7	20.4	20.4	22.0	20.0	19.0	20.0
max	50.0	54.0	57.0	50.0	53.0	53.0	50.0	48.0	52.0	57.4	57.4	59.0	59.0	59.0
min	2.0	2.0	1.9	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	1.9	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	1.9	2.1	1.7	2.7	2.6	3.2	3.3	2.8	2.7	3.1	2.6	2.9	2.6	2.4
median	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
max	48.8	57.8	48.0	82.2	56.6	84.4	49.9	35.1	40.4	51.0	48.8	45.0	84.4	82.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	58.7	60.8	51.9	81.6	82.7	95.9	103.1	85.3	82.1	96.8	75.5	90.0	80.4	73.6
max	156.4	278.2	139.6	252.2	212.8	273.6	654.1	235.5	214.2	202.2	148.8	192.4	654.1	278.2
min	10.8	14.6	4.0	28.8	19.0	30.6	19.9	19.8	12.2	29.4	23.3	20.1	4.0	4.0
<b>Seasonal Rainfall, millimetres</b>														
mean													964.3	517.1
max													1671.8	748.8
min													666.2	297.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	79.7	80.3	79.2	73.4	69.4	62.4	62.9	64.1	69.7	69.9	74.6	75.2	71.7	76.0
median	84.9	86.2	85.2	81.1	77.2	68.1	68.6	69.4	76.3	77.0	81.0	82.0	79.3	82.8
max	93.0	92.7	93.3	88.9	88.0	85.0	84.5	86.2	86.9	89.9	89.3	92.7	93.3	93.3
min	11.2	18.0	15.7	12.5	2.1	1.5	7.1	4.8	8.0	14.2	15.6	16.2	1.5	11.2
<b>Duff Moisture Code, DMC</b>														
mean	21.8	26.4	26.5	12.8	6.2	2.2	1.9	2.7	5.2	6.5	11.7	15.5	11.6	17.3
median	18.3	24.4	21.1	9.7	5.0	1.6	1.3	1.8	4.1	5.0	10.3	11.2	6.9	12.5
max	96.3	77.4	110.7	92.8	33.1	13.8	12.2	17.1	22.3	31.7	45.4	93.0	110.7	110.7
min	1.3	0.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.0
<b>Drought Code, DC</b>														
mean	218.9	297.2	343.8	298.8	223.6	126.9	65.0	46.4	39.8	38.2	83.0	141.3	160.5	201.9
median	220.9	301.6	349.8	338.8	232.4	137.6	28.5	18.2	19.3	26.1	81.1	136.5	135.1	180.1
max	421.5	506.7	624.0	658.2	572.5	418.5	229.3	182.5	205.5	236.4	213.1	404.2	658.2	658.2
min	35.3	5.2	4.2	2.7	1.3	1.0	0.4	0.5	1.0	2.6	4.7	5.9	0.4	2.6
<b>Initial Spread Index, ISI</b>														
mean	6.3	6.6	5.8	3.6	2.5	1.6	1.8	1.9	3.1	3.5	4.5	4.9	3.8	5.0
median	5.2	5.6	5.0	2.9	2.0	1.1	1.3	1.5	2.5	2.8	3.8	3.9	2.7	4.1
max	39.2	32.8	29.4	29.5	20.7	16.7	15.3	14.6	19.1	23.7	30.7	25.4	39.2	39.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	33.8	42.0	42.9	22.1	11.2	3.9	3.2	4.0	7.0	8.3	16.6	23.1	18.2	26.9
median	30.0	40.3	36.3	17.7	9.1	2.8	2.1	2.7	5.3	6.6	15.2	17.9	10.9	20.3
max	114.6	106.5	144.2	136.1	57.8	24.6	18.6	21.8	33.9	47.3	57.9	112.9	144.2	144.2
min	2.4	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.6	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	12.3	14.2	12.9	6.1	3.0	1.0	1.1	1.3	2.8	3.4	6.3	8.2	6.0	9.0
median	10.5	12.7	11.5	4.1	1.6	0.4	0.4	0.5	1.4	2.1	5.1	6.0	2.9	6.5
max	61.5	61.0	53.8	37.6	38.5	15.9	17.6	15.9	28.9	22.2	38.6	52.5	61.5	61.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	3.3	4.1	3.5	1.1	0.4	0.1	0.1	0.1	0.3	0.4	1.1	1.9	1.4	2.2
median	1.7	2.4	2.1	0.3	0.1	0.0	0.0	0.0	0.1	0.1	0.5	0.7	0.2	0.8
max	39.8	39.4	31.5	16.7	17.4	3.6	4.4	3.6	10.5	6.5	17.5	30.2	39.8	39.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	104.4	115.8	111.4	34.9	11.3	2.1	2.6	3.1	9.8	13.4	33.6	54.1	41.4	66.8
max	304.7	258.1	281.0	89.7	39.0	6.3	15.0	13.1	36.9	39.2	103.0	309.6	309.6	309.6
min	28.8	10.6	23.9	2.8	1.0	0.1	0.0	0.1	0.2	2.0	6.0	5.0	0.0	2.0
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													496.5	464.5
max													789.0	888.8
min													188.4	165.6

Station Name: Palmerston North SYNOP  
(PMA)

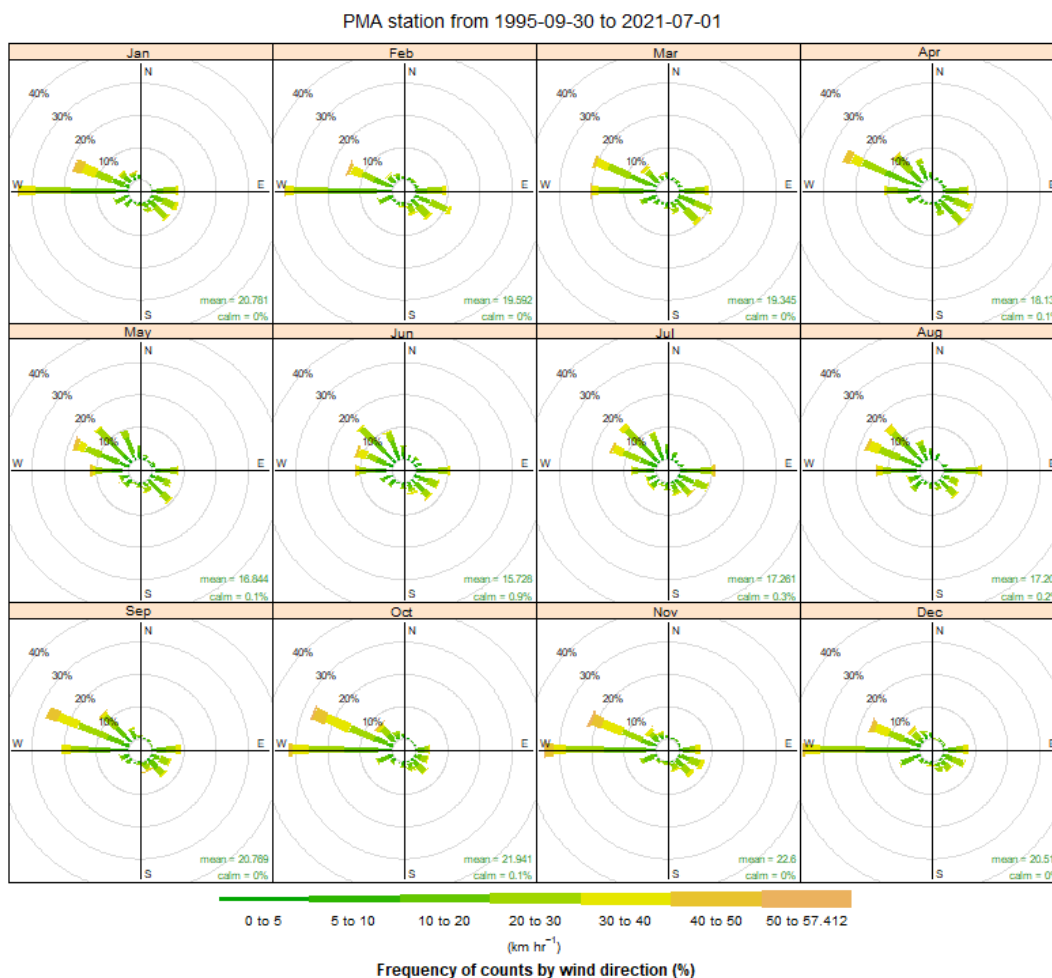
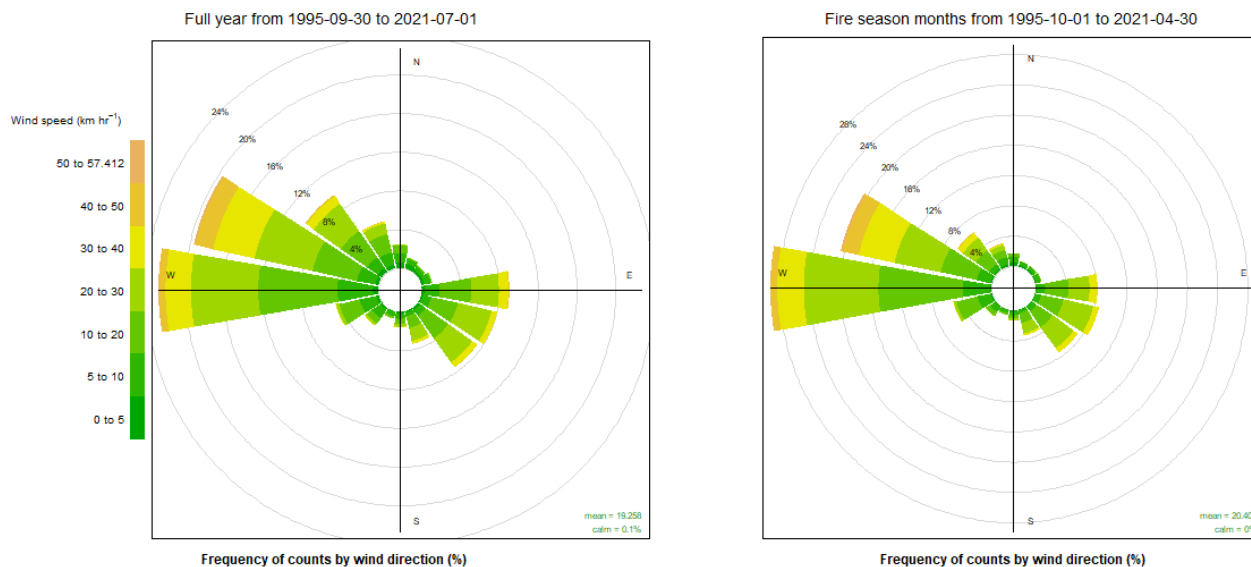
Period: 1995-09-30 - 2021-07-01

Length of record: 25 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	7.6	6.4	8.1	16.4	25.2	29.5	30.7	30.0	26.2	25.9	16.0	15.4	237.3	96.0
max	17	26	19	29	31	30	31	31	30	31	28	30	284	144
min	0	1	0	4	12	27	26	20	11	11	5	0	192	59
<b>Moderate</b>														
mean	14.7	11.0	12.0	11.2	5.6	0.5	0.3	1.0	3.7	4.9	12.8	12.0	89.9	78.7
max	20	17	20	18	17	3	5	11	18	18	23	17	132	98
min	7	3	3	1	0	0	0	0	0	0	2	1	66	58
<b>High</b>														
mean	5.3	6.4	7.0	2.0	0.2	0.0	0.0	0.0	0.0	0.2	1.1	2.4	24.7	24.5
max	11	13	18	11	3	0	0	0	1	2	6	12	38	47
min	0	0	0	0	0	0	0	0	0	0	0	0	5	4
<b>Very High</b>														
mean	1.9	2.3	2.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	7.3	7.2
max	8	6	6	1	0	0	0	0	0	0	2	5	18	22
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.2	1.9	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	5.2	5.0
max	8	9	7	2	1	0	0	0	0	0	0	9	15	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.3	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	0.8
max	5	2	3	0	0	0	0	0	0	0	0	2	5	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Wanganui/Manawatu (Palmerston North)														
Curing%	80	90	70	50	40	40	40	40	40	40	50	60		
<b>Low</b>														
mean	1.4	1.5	2.2	4.4	6.8	10.2	10.7	9.2	5.6	5.8	2.9	4.3	65.0	22.4
max	5	6	8	10	14	21	30	20	12	11	8	8	101	37
min	0	0	0	0	1	4	2	1	0	2	0	0	44	12
<b>Moderate</b>														
mean	10.0	6.4	14.2	21.7	23.2	19.5	19.8	21.4	22.4	22.5	20.8	20.8	222.5	116.4
max	19	11	24	27	30	26	29	30	27	28	26	26	250	137
min	2	3	7	16	14	9	1	11	17	16	13	14	166	93
<b>High</b>														
mean	13.8	12.2	12.5	3.8	1.0	0.3	0.5	0.4	2.1	2.7	6.1	5.8	61.2	57.2
max	19	17	23	10	4	3	3	2	7	6	14	17	79	78
min	8	7	4	0	0	0	0	0	0	0	2	0	46	40
<b>Very High</b>														
mean	4.4	5.8	2.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	12.5	12.3
max	12	10	6	1	0	0	0	0	0	1	4	0	21	21
min	0	2	0	0	0	0	0	0	0	0	0	0	3	3
<b>Extreme</b>														
mean	1.4	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.9
max	6	8	1	0	0	0	0	0	0	0	0	0	10	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	1	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	2.9	2.5	3.4	5.6	7.6	11.3	11.8	10.9	7.5	7.6	4.9	5.6	81.4	32.4
max	6	8	8	11	17	21	30	21	19	15	11	12	118	47
min	0	0	0	0	1	5	2	1	0	4	0	0	55	18
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
max	0	0	0	0	0	1	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.0	0.6	0.8	1.7	3.5	5.0	4.1	3.7	2.3	1.8	1.3	1.7	27.4	9.0
max	5	2	3	4	11	11	8	10	6	4	5	5	44	19
min	0	0	0	0	0	2	1	0	1	0	0	0	19	3
<b>Very High</b>														
mean	2.1	1.6	2.2	3.1	5.1	6.0	5.3	5.4	3.0	3.3	2.3	2.4	41.8	17.2
max	6	5	7	9	10	11	12	9	8	8	7	7	58	32
min	0	0	0	0	1	1	0	2	1	0	0	0	28	8
<b>Extreme</b>														
mean	6.2	5.7	6.6	10.0	9.6	5.6	7.0	8.0	9.3	8.2	7.6	7.3	91.0	51.4
max	13	12	12	18	16	10	12	19	18	12	12	12	121	67
min	2	2	3	3	5	1	0	0	3	5	2	4	54	31
<b>Very Extreme</b>														
mean	18.8	17.9	18.0	9.7	5.2	2.0	2.8	3.0	7.8	10.2	13.9	14.0	123.4	102.3

max	27	24	27	18	13	6	11	6	11	16	23	26	144	131
min	10	9	12	1	1	0	0	0	0	4	6	4	90	71

### Windroses for Palmerston North SYNOP (PMA)



Station Name: Raunui Raws (RAU)													Period: 1995-09-30 - 2021-07-02		Length of record: 25 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	20.4	20.7	19.6	17.3	14.9	12.5	11.7	12.4	13.8	15.0	16.5	18.8	16.1	18.3		
median	20.1	20.7	19.6	17.4	15.0	12.6	11.8	12.5	14.0	15.0	16.2	18.7	15.9	18.3		
max	29.9	28.3	29.5	24.2	21.4	19.3	17.6	17.8	20.1	22.1	24.5	27.1	29.9	29.9		
min	12.0	11.2	11.9	8.2	6.4	5.2	6.0	6.0	5.5	6.5	6.5	11.3	5.2	6.5		
<b>Relative Humidity, %</b>																
mean	68.1	67.3	67.4	70.7	74.9	78.3	76.9	74.8	72.1	72.2	70.5	70.1	72.0	69.5		
median	68.7	68.0	68.0	70.0	74.0	78.0	76.0	75.0	72.0	72.0	69.0	70.0	72.0	69.0		
max	97.0	100.0	97.0	96.0	100.0	100.0	100.0	98.4	99.0	96.0	99.0	100.0	100.0	100.0		
min	26.0	37.0	35.4	43.0	39.0	47.0	43.0	44.0	41.0	29.0	41.0	37.0	26.0	26.0		
<b>Wind Speed, km/h</b>																
mean	19.7	18.2	18.1	16.0	15.2	14.8	15.1	15.9	18.5	20.3	21.5	20.0	17.8	19.1		
median	18.7	16.9	16.5	13.8	12.8	11.8	12.5	13.6	16.3	18.9	20.2	18.9	16.3	17.9		
max	52.9	56.2	52.8	49.0	70.7	64.7	50.0	58.6	57.7	61.4	54.2	60.1	70.7	61.4		
min	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>24-hr Rainfall, millimetres</b>																
mean	1.7	2.1	1.8	2.4	2.6	3.0	2.3	2.3	2.5	2.5	2.6	2.5	2.4	2.2		
median	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0		
max	72.8	77.2	142.2	55.4	108.7	158.8	54.6	41.2	53.4	42.4	56.9	52.0	158.8	142.2		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	50.7	61.7	55.3	72.6	80.6	91.0	70.2	70.3	74.1	78.4	76.8	77.8	71.6	67.6		
max	105.8	338.6	232.2	179.8	225.3	305.3	183.2	134.4	221.8	198.4	182.9	131.2	338.6	338.6		
min	4.4	16.5	13.4	12.4	0.2	2.0	0.0	8.3	6.3	20.6	15.6	22.6	0.0	4.4		
<b>Seasonal Rainfall, millimetres</b>																
mean													859.5	474.6		
max													1521.4	768.2		
min													487.7	327.2		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	77.7	77.4	77.0	72.5	68.2	62.5	65.3	65.1	68.9	69.7	72.2	73.3	70.8	74.2		
median	83.3	83.9	83.7	80.2	77.0	69.6	72.6	72.5	76.5	77.0	80.1	80.7	78.9	81.6		
max	93.1	89.8	89.6	88.1	87.2	84.7	84.5	86.8	87.6	89.4	87.9	90.2	93.1	93.1		
min	17.9	5.0	7.4	7.2	4.6	6.5	4.0	10.3	12.0	11.0	11.5	8.4	4.0	5.0		
<b>Duff Moisture Code, DMC</b>																
mean	18.8	22.3	21.4	11.5	6.3	3.3	3.4	4.1	5.9	6.2	10.3	13.2	10.5	14.7		
median	14.9	18.7	17.6	9.6	4.5	1.7	1.9	2.4	4.4	5.1	8.3	9.5	6.5	10.8		
max	86.0	70.2	77.2	64.6	32.0	29.3	35.2	39.3	36.8	44.7	47.7	88.9	88.9	88.9		
min	1.4	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0		
<b>Drought Code, DC</b>																
mean	239.7	316.6	354.6	309.6	240.5	158.1	105.3	84.6	74.4	69.3	105.1	163.0	185.3	221.5		
median	235.8	331.9	365.4	317.0	240.1	149.7	73.3	30.6	33.4	42.2	91.3	144.4	163.6	210.1		
max	462.6	539.3	644.0	654.0	530.2	496.5	543.9	568.7	414.6	352.9	329.7	391.5	654.0	654.0		
min	34.9	5.2	4.4	3.2	1.7	1.3	1.0	0.9	1.0	2.4	4.7	5.8	0.9	2.4		
<b>Initial Spread Index, ISI</b>																
mean	4.7	4.6	4.3	2.9	2.3	1.6	1.8	1.9	2.6	2.8	3.6	3.8	3.1	3.8		
median	4.3	4.4	4.0	2.6	1.8	1.1	1.4	1.5	2.3	2.5	3.3	3.3	2.4	3.3		
max	27.7	30.1	21.2	21.5	16.5	17.2	16.4	20.1	17.7	14.1	25.0	21.9	30.1	30.1		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	30.2	36.8	36.1	20.4	11.4	6.0	5.9	6.5	8.5	8.9	15.6	20.9	17.3	24.0		
median	25.3	32.6	30.7	17.6	8.3	3.2	3.3	3.5	6.2	7.4	12.9	16.2	11.0	18.2		
max	111.0	105.5	117.6	101.9	55.6	51.1	60.6	66.9	57.4	68.0	62.4	110.7	117.6	117.6		
min	2.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	9.3	10.1	9.3	4.7	2.7	1.3	1.4	1.6	2.5	2.8	5.1	6.2	4.8	6.8		
median	7.8	9.4	8.1	3.6	0.9	0.4	0.5	0.6	1.3	1.8	4.2	4.7	2.4	4.9		
max	43.7	50.7	41.2	26.5	24.2	21.8	21.6	23.4	24.0	16.8	34.5	44.9	50.7	50.7		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	2.1	2.3	2.0	0.7	0.3	0.1	0.1	0.2	0.3	0.3	0.8	1.1	0.9	1.3		
median	1.0	1.4	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.1	0.5		
max	21.8	28.3	19.7	9.0	7.7	6.4	6.3	7.2	7.5	4.0	14.4	22.8	28.3	28.3		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	65.5	65.9	61.9	21.8	10.5	3.5	3.8	5.0	8.2	9.2	23.5	35.7	26.2	40.5		
max	194.5	160.6	176.4	53.9	70.8	31.9	33.4	33.5	58.9	20.9	92.6	183.9	194.5	194.5		
min	10.2	2.7	8.6	2.6	0.3	0.0	0.3	0.1	0.2	1.6	4.0	7.4	0.0	1.6		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													314.3	279.0		
max													529.5	606.4		
min													134.9	67.9		

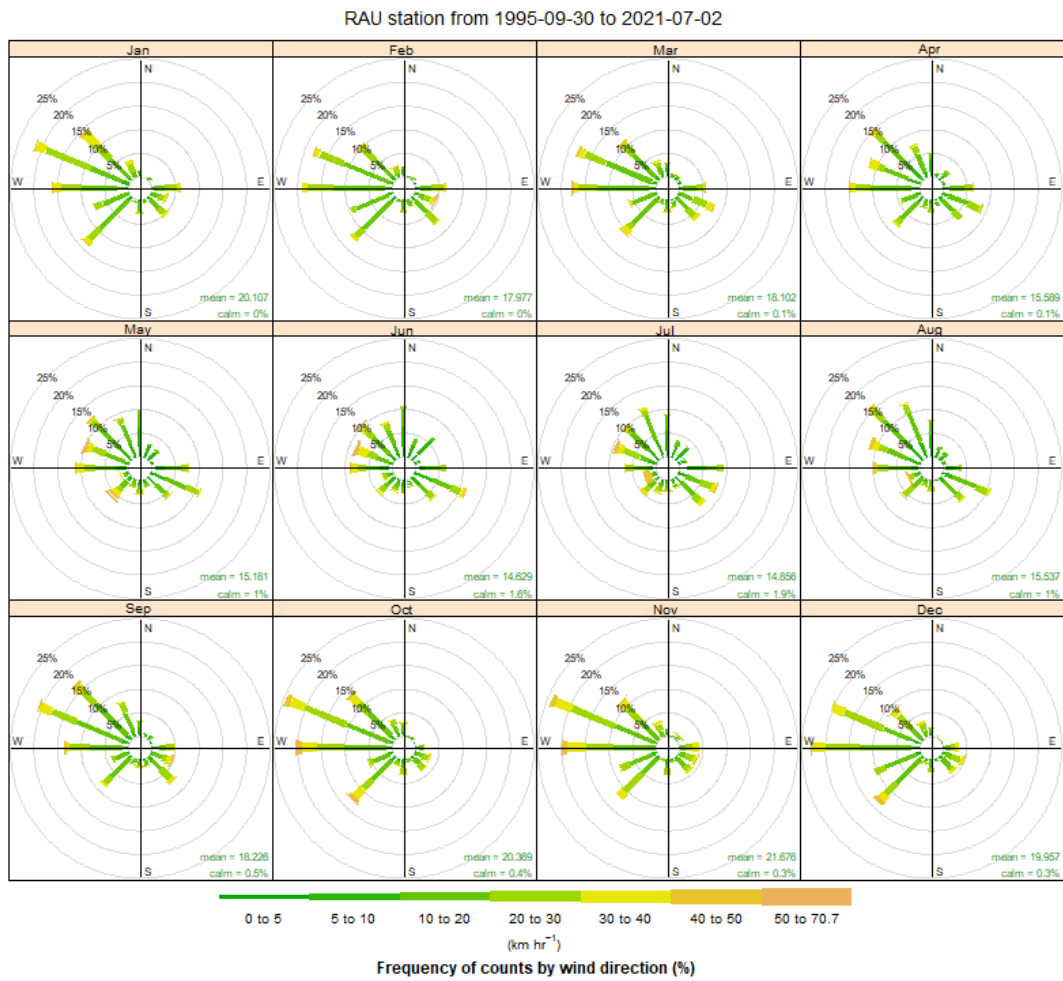
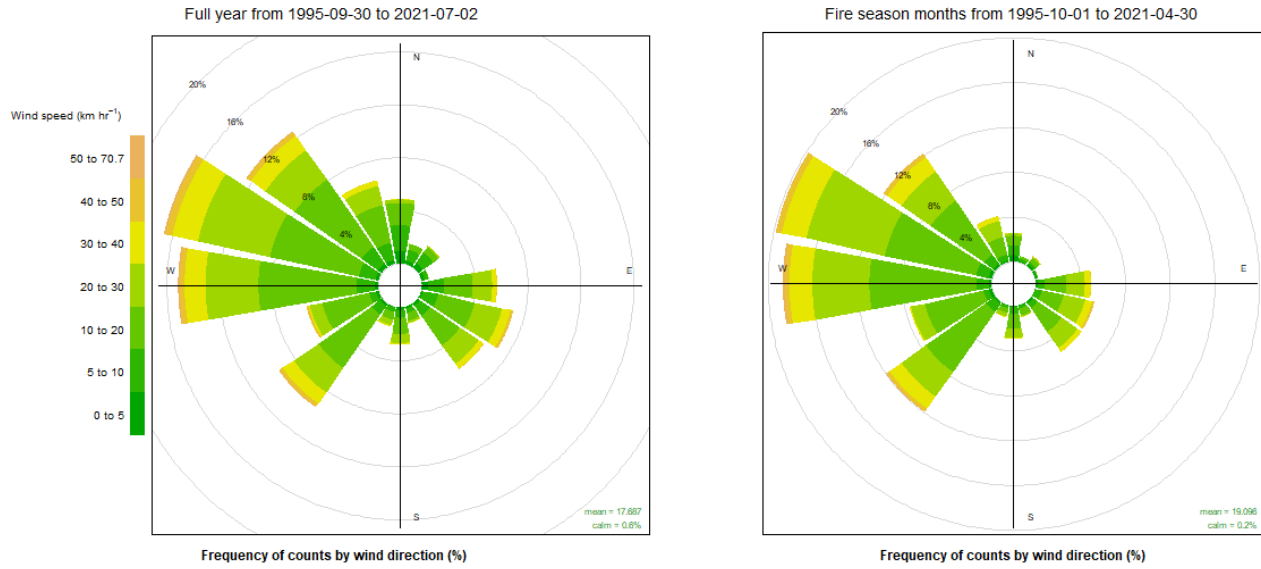
Station Name: Raumai Raws (RAU)

Period: 1995-09-30 - 2021-07-02

Length of record: 25 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	10.6	8.5	10.7	17.7	25.3	28.7	29.6	29.3	26.9	27.1	18.0	16.9	249.3	110.4
max	25	28	25	29	31	30	31	31	30	31	30	28	300	170
min	1	1	1	7	4	13	3	15	0	18	2	0	182	62
<b>Moderate</b>														
mean	14.9	12.9	14.8	11.5	5.4	1.1	1.4	1.6	3.0	3.9	11.3	12.0	93.7	80.9
max	25	21	24	22	23	13	26	14	26	13	26	21	148	111
min	6	1	6	1	0	0	0	0	0	0	0	3	61	43
<b>High</b>														
mean	4.4	5.7	4.5	0.8	0.2	0.2	0.1	0.1	0.2	0.0	0.6	1.4	18.2	17.1
max	18	17	18	3	4	4	2	2	4	1	9	8	41	40
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.9	2.8
max	4	5	6	0	0	0	0	0	0	0	1	10	11	11
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0
max	4	3	2	0	0	0	0	0	0	0	0	0	7	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	1	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Wanganui/Manawatu (Rangitikei)														
Curing%	90	95	90	80	60	40	40	40	40	60	70	80		
<b>Low</b>														
mean	2.0	2.2	2.0	4.0	8.2	10.9	9.4	9.7	6.2	5.5	3.6	3.4	67.0	22.8
max	5	8	5	9	17	18	19	17	13	12	10	6	97	42
min	0	0	0	0	0	0	0	0	0	2	0	0	29	9
<b>Moderate</b>														
mean	10.1	8.0	11.4	18.9	22.0	18.7	21.0	20.8	23.1	24.4	19.3	15.4	213.0	107.3
max	21	21	23	30	31	30	30	30	29	28	26	24	282	149
min	2	2	5	12	14	12	11	14	17	19	12	8	180	73
<b>High</b>														
mean	14.9	14.3	14.6	6.6	0.8	0.4	0.6	0.6	0.7	1.1	6.9	10.8	72.4	69.4
max	22	22	21	15	7	3	8	7	3	6	14	19	97	97
min	6	4	7	0	0	0	0	0	0	0	1	1	52	31
<b>Very High</b>														
mean	3.2	3.0	2.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	10.3	10.2
max	10	9	7	2	0	0	0	0	0	0	2	6	27	23
min	0	0	0	0	0	0	0	0	0	0	0	0	3	2
<b>Extreme</b>														
mean	0.9	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.5	2.5
max	5	3	2	5	0	0	0	0	0	0	1	1	9	11
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	1	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.4	3.8	4.4	6.3	8.6	11.2	9.7	10.7	7.7	7.4	5.9	5.7	84.8	37.3
max	8	13	10	15	19	19	18	18	18	14	12	9	114	60
min	0	0	0	1	0	0	0	0	0	3	0	0	46	21
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
max	0	0	0	0	1	1	0	0	1	0	0	0	3	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.0	0.8	1.3	2.0	3.4	5.7	5.0	3.2	2.6	1.9	1.3	1.6	29.8	10.0
max	7	4	4	5	9	13	12	7	8	6	4	7	47	30
min	0	0	0	0	0	0	1	1	0	0	0	0	11	2
<b>Very High</b>														
mean	2.7	1.8	2.8	4.2	6.3	5.7	6.4	5.9	4.1	4.2	3.0	3.2	50.4	21.7
max	6	5	8	9	12	13	13	10	7	9	9	9	79	37
min	0	0	1	1	0	1	1	3	1	1	1	0	32	9
<b>Extreme</b>														
mean	8.1	7.4	8.2	11.2	9.0	5.3	7.4	8.7	10.6	10.9	8.6	9.2	104.6	63.9
max	18	15	15	19	16	14	13	19	18	18	16	14	140	92
min	2	2	2	5	1	0	1	1	2	5	4	4	83	43
<b>Very Extreme</b>														
mean	15.8	14.4	14.2	6.3	3.6	2.0	2.6	2.5	5.0	6.6	11.2	11.3	95.5	79.3
max	28	23	23	15	19	6	9	12	12	12	19	21	144	126
min	4	1	4	0	0	0	0	0	0	1	2	1	54	28

Windroses for Raumai Raws (RAU)

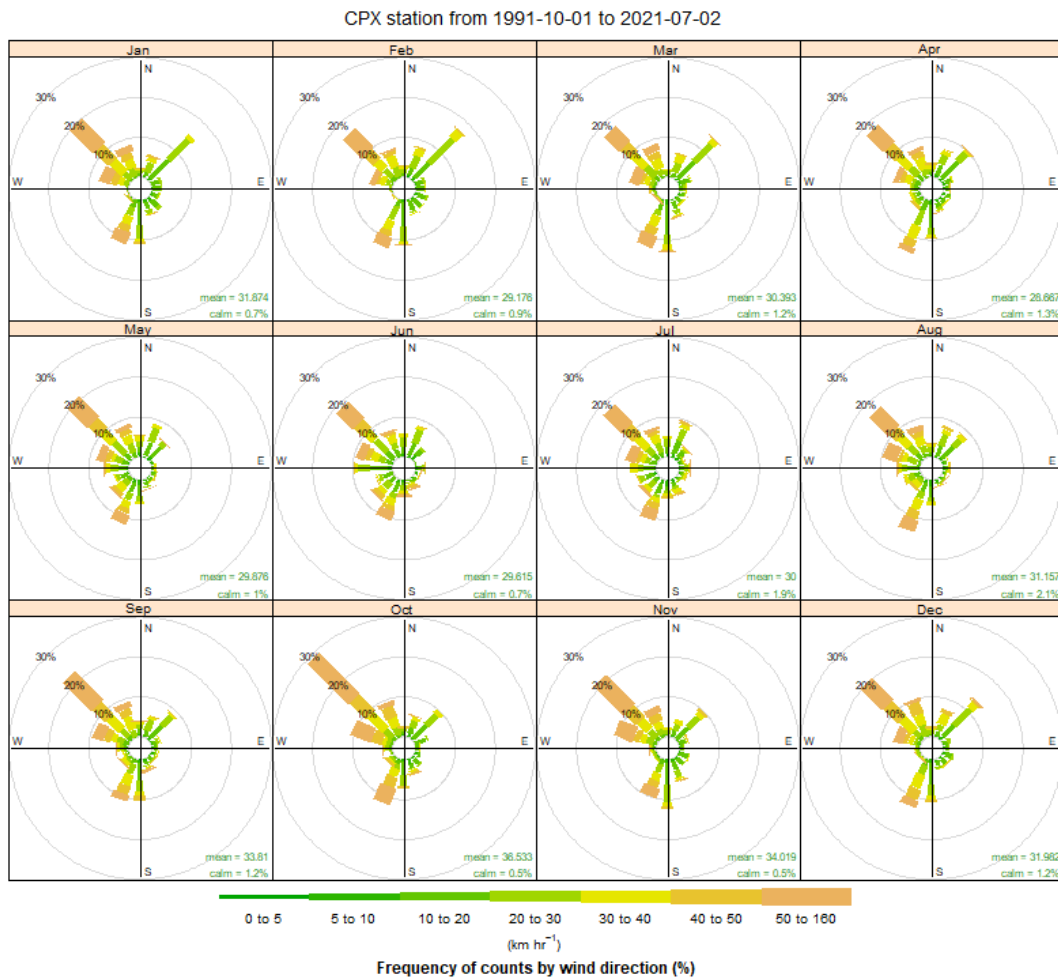
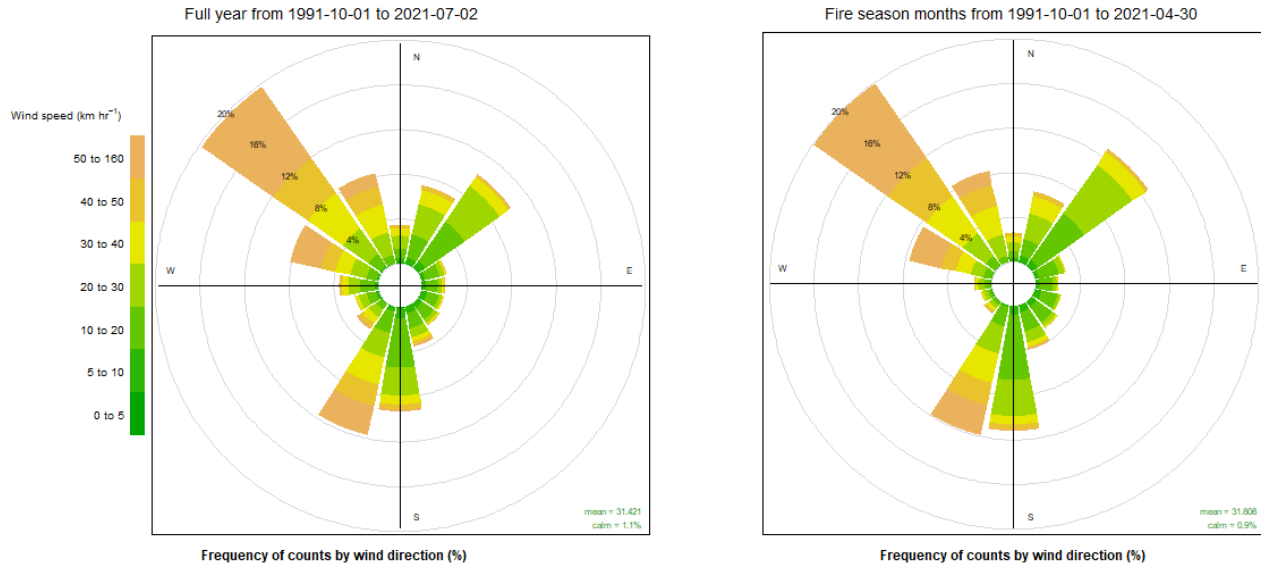


Station Name: Castlepoint SYNOP (CPX)		Period: 1991-10-01 - 2021-07-02		Length of record: 29 years										
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	19.1	19.3	18.0	16.0	14.0	11.8	10.9	11.3	12.8	14.2	15.4	17.5	15.0	17.1
median	19.0	19.0	18.0	16.0	14.0	11.9	11.0	11.3	13.0	14.0	15.2	17.0	15.0	17.0
max	30.0	28.5	27.0	24.2	21.8	19.6	17.4	18.1	20.0	22.0	25.6	26.7	30.0	30.0
min	9.0	9.0	9.0	6.0	3.0	5.0	3.0	3.0	3.8	5.0	7.0	7.5	3.0	5.0
<b>Relative Humidity, %</b>														
mean	67.7	68.4	68.6	71.1	72.1	74.4	74.4	73.1	69.8	68.7	68.4	69.2	70.5	68.9
median	67	69	68	70	71	72	73	72	68	67	68	68	70	68
max	100	100	100	100	100	99	100	100	100	100	99	100	100	100
min	30.0	23.0	30.0	34.9	27.0	32.0	38.0	37.0	33.0	23.0	28.0	29.0	23.0	23.0
<b>Wind Speed, km/h</b>														
mean	31.8	29.8	30.3	28.5	30.2	30.3	29.7	31.2	34.4	36.4	34.8	32.4	31.7	32.0
median	26.0	26.0	27.8	25.9	26.0	26.0	26.0	28.0	31.2	32.0	29.6	29.6	28.0	28.0
max	104.0	119.0	99.0	96.0	94.0	93.0	98.2	107.0	107.0	160.0	108.0	111.0	160.0	160.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	2.2	2.3	2.5	2.6	2.6	3.1	3.7	2.8	2.2	2.4	2.5	2.1	2.6	2.4
median	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
max	170.2	123.6	138.4	74.0	93.2	86.0	63.8	96.2	46.0	56.6	220.6	61.2	220.6	220.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	70.6	65.9	78.1	78.5	81.5	93.6	113.6	86.2	65.1	75.4	75.8	65.2	79.1	72.8
max	293.8	238.0	280.2	267.2	214.0	193.4	303.0	215.6	184.8	174.2	235.8	203.6	303.0	293.8
min	7.8	1.6	13.4	13.6	14.6	31.2	20.8	17.0	19.0	11.6	10.2	7.0	1.6	1.6
<b>Seasonal Rainfall, millimetres</b>														
mean													949.4	505.3
max													1367.4	790.8
min													391.8	187.6
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	76.2	76.4	74.8	72.2	68.9	64.0	62.8	66.0	71.2	71.4	73.4	73.9	70.9	74.0
median	83.1	83.2	82.6	80.7	77.9	71.6	71.7	74.0	79.5	80.0	81.3	81.7	80.0	82.0
max	91.3	92.8	91.2	89.9	89.4	90.1	87.2	87.2	89.2	91.5	91.1	91.7	92.8	92.8
min	4.2	3.3	0.6	0.8	7.7	3.8	0.5	1.6	5.3	2.0	2.8	2.7	0.5	0.6
<b>Duff Moisture Code, DMC</b>														
mean	20.5	22.3	18.7	10.6	7.4	2.9	2.0	2.9	6.5	7.5	11.9	17.0	10.9	15.5
median	18.2	18.9	13.9	8.2	4.7	1.8	1.3	2.1	5.2	6.2	10.7	13.9	6.8	11.7
max	71.6	86.1	90.4	39.7	40.8	26.6	12.4	15.6	32.4	29.4	43.5	67.7	90.4	90.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	258.2	308.9	306.2	263.2	214.3	135.8	76.4	58.3	58.4	64.2	110.8	182.1	169.9	212.4
median	271.1	308.4	297.4	233.9	160.9	57.0	20.2	14.9	25.6	34.4	91.4	171.6	104.2	166.0
max	645.2	735.2	825.5	782.3	835.8	709.1	592.1	588.1	458.8	490.8	495.5	551.5	835.8	825.5
min	6.2	5.2	4.2	2.3	1.1	0.6	0.2	0.2	0.8	1.9	3.8	5.4	0.2	1.9
<b>Initial Spread Index, ISI</b>														
mean	10.1	9.1	8.4	6.5	6.1	4.3	4.2	4.9	7.4	8.2	9.1	9.0	7.3	8.6
median	5.6	5.4	4.8	3.6	3.2	2.2	2.2	2.7	4.6	4.3	4.9	5.1	4.0	4.9
max	57.4	46.4	50.1	40.0	44.0	48.7	26.8	26.1	32.8	38.5	59.2	52.4	59.2	59.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	33.1	36.9	31.4	18.6	12.8	5.0	3.2	4.2	8.3	10.3	17.5	26.2	17.3	24.8
median	30.8	31.5	23.2	14.4	7.6	2.8	2.0	2.9	6.6	8.3	16.1	22.8	10.6	18.8
max	100.1	133.2	139.1	68.6	72.7	47.3	23.6	27.0	34.0	39.1	62.0	90.7	139.1	139.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	16.1	15.9	13.6	8.8	6.9	3.4	2.9	3.6	6.8	7.9	11.0	13.6	9.2	12.4
median	11.8	11.7	9.6	5.3	3.4	0.8	0.7	1.2	4.2	4.8	7.5	8.8	4.8	8.2
max	79.7	81.6	77.9	59.2	56.2	36.5	28.5	24.7	37.0	39.1	73.7	83.5	83.5	83.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	5.9	5.8	4.6	2.3	1.7	0.6	0.4	0.6	1.4	1.9	3.2	4.7	2.8	4.1
median	2.1	2.1	1.5	0.5	0.2	0.0	0.0	0.0	0.3	0.4	1.0	1.3	0.4	1.1
max	63.1	65.7	60.6	37.3	34.1	15.9	10.2	7.9	16.2	17.9	55.0	68.5	68.5	68.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	182.7	161.7	141.1	70.1	51.0	17.4	13.0	17.2	42.6	59.2	97.7	150.8	83.7	123.3
max	357.7	546.5	419.6	242.4	271.6	67.9	67.7	45.6	133.0	160.0	292.8	542.7	546.5	546.5
min	17.0	16.7	11.5	0.7	0.5	0.4	0.4	1.3	3.0	3.9	8.1	1.3	0.4	0.7
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1004.5	860.3
max													2076.2	2262.1
min													167.5	180.0



Station Name: Castlepoint SYNOP (CPX)      Period: 1991-10-01 - 2021-07-02      Length of record: 29 years														
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	9.1	8.1	11.7	15.9	21.2	26.3	29.1	27.6	21.3	19.7	12.4	11.6	213.9	88.5
max	20	23	27	30	31	30	31	31	30	31	25	31	315	177
min	0	0	1	2	4	9	16	13	7	7	2	0	124	41
<b>Moderate</b>														
mean	10.8	10.7	11.3	10.3	7.2	3.3	1.8	3.4	7.9	9.7	12.2	11.0	99.8	75.8
max	17	19	19	20	18	18	11	18	17	19	20	17	142	101
min	5	0	3	0	0	0	0	0	0	0	5	0	45	23
<b>High</b>														
mean	5.2	4.5	4.1	2.2	2.0	0.3	0.1	0.0	0.8	1.4	4.0	4.0	28.7	25.6
max	10	11	12	10	8	5	4	0	8	9	12	11	47	43
min	0	0	0	0	0	0	0	0	0	0	0	0	6	6
<b>Very High</b>														
mean	2.3	2.0	1.6	0.7	0.1	0.0	0.0	0.0	0.0	0.3	1.1	1.9	10.1	9.7
max	7	7	5	8	1	1	0	0	1	3	7	5	23	21
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	2.9	1.9	1.3	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.2	1.8	9.6	9.3
max	7	8	8	5	9	1	0	0	0	0	3	10	28	32
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.6	1.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.3	3.3
max	4	9	7	1	1	0	0	0	0	0	1	6	17	23
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Wairarapa (Wairarapa)														
Curing%	90	95	95	80	60	50	45	45	50	65	70	80		
<b>Low</b>														
mean	2.7	2.5	2.9	3.5	6.4	7.6	8.6	7.3	4.4	4.3	3.1	3.2	56.6	22.4
max	11	10	11	17	20	15	21	17	18	14	9	11	128	69
min	0	0	0	0	0	1	1	1	1	0	0	0	22	8
<b>Moderate</b>														
mean	8.3	5.9	7.7	12.7	16.8	16.1	16.5	17.0	14.3	13.7	11.9	9.8	150.5	70.1
max	19	13	19	21	22	23	23	24	22	20	20	20	182	103
min	1	0	0	4	10	8	9	11	7	5	3	4	126	38
<b>High</b>														
mean	8.3	9.2	9.6	7.3	6.6	5.4	5.2	5.8	7.7	6.9	6.8	8.4	87.2	56.9
max	17	19	15	13	14	11	12	13	11	12	13	14	114	76
min	3	1	4	1	0	0	1	1	2	0	2	3	39	21
<b>Very High</b>														
mean	3.1	3.9	3.7	3.0	1.2	0.9	0.7	0.9	3.6	5.8	4.4	3.0	34.2	26.6
max	9	9	8	6	8	4	4	3	13	12	11	7	51	37
min	0	0	1	0	0	0	0	0	0	1	0	0	17	10
<b>Extreme</b>														
mean	6.2	4.1	4.9	3.4	0.0	0.0	0.0	0.0	0.0	0.2	3.8	6.6	29.2	29.1
max	12	9	13	12	0	1	0	0	0	2	11	17	46	51
min	0	1	0	0	0	0	0	0	0	0	0	0	6	6
<b>Very Extreme</b>														
mean	2.4	2.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	7.5	7.3
max	5	9	10	0	0	0	0	0	0	0	0	1	24	24
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.5	3.7	5.1	6.1	8.6	10.5	11.5	9.6	6.2	7.1	5.1	5.5	83.3	37.1
max	13	10	12	18	22	19	27	19	19	15	12	17	154	83
min	0	0	0	1	1	4	2	1	2	0	1	0	53	18
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	0	2	0	0	0	0	0	2	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.7	0.8	0.9	1.1	1.0	1.9	1.5	1.7	0.9	1.0	0.8	0.8	13.2	6.4
max	5	5	4	7	3	5	5	6	5	4	5	7	41	32
min	0	0	0	0	0	0	0	0	0	0	0	0	6	2
<b>Very High</b>														
mean	1.9	1.6	1.6	2.7	3.1	2.6	3.0	3.1	2.4	2.6	2.0	2.4	29.0	14.7
max	5	6	4	7	7	7	7	8	9	6	7	8	49	29
min	0	0	0	0	0	0	0	0	0	0	0	0	19	6
<b>Extreme</b>														
mean	6.0	5.1	6.4	7.0	5.5	5.1	5.2	5.6	4.8	4.4	5.3	4.7	65.1	39.1
max	12	12	12	13	9	10	15	14	9	8	12	10	82	58
min	2	0	2	2	3	0	1	0	1	0	1	0	50	20
<b>Very Extreme</b>														
mean	17.9	17.1	17.0	13.1	12.8	10.0	9.8	11.0	15.7	15.9	16.9	17.6	174.6	115.0
max	28	28	28	23	25	20	18	19	25	23	27	26	213	158
min	7	4	5	1	2	2	1	3	3	3	3	2	68	36

### Windroses for Castlepoint SYNOP (CPX)



Station Name: Holdsworth Station Raws  
(HWT)

Period: 1994-08-22 - 2021-07-01

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	21.6	21.6	19.6	16.9	14.5	11.8	10.9	11.7	13.8	15.5	17.2	19.5	16.2	18.8
median	21.8	21.8	19.9	17.1	14.8	11.9	10.9	11.9	14.0	15.9	17.0	19.7	15.9	18.9
max	33.4	32.6	29.6	25.1	23.9	19.8	18.2	20.0	23.4	26.2	29.6	30.7	33.4	33.4
min	9.3	9.7	9.4	5.9	3.4	3.0	1.0	1.6	3.4	4.5	6.6	7.8	1.0	4.5
<b>Relative Humidity, %</b>														
mean	56.3	56.4	59.9	65.4	68.5	72.8	72.9	69.5	63.1	60.7	59.1	59.0	63.6	59.6
median	54.0	53.0	56.8	63.6	66.5	72.0	72.8	69.0	60.0	58.0	56.7	57.0	62.0	57.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	13.0	19.0	17.0	31.0	26.0	36.0	33.0	32.3	27.0	20.1	20.1	23.0	13.0	13.0
<b>Wind Speed, km/h</b>														
mean	11.9	11.3	11.1	10.2	10.0	10.3	10.2	11.1	12.8	13.6	13.6	12.9	11.6	12.1
median	10.4	9.9	9.4	8.6	7.8	8.0	8.2	9.6	11.0	11.5	11.4	11.2	9.8	10.4
max	57.5	44.4	45.5	52.8	53.6	63.8	71.3	56.4	55.4	59.8	56.3	49.7	71.3	59.8
min	1.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.1	0.0	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.7	2.8	2.9	3.5	3.6	4.7	4.9	4.2	4.0	4.7	4.3	3.1	3.8	3.4
median	0.0	0.0	0.0	0.2	0.2	0.8	1.0	1.0	0.2	0.4	0.2	0.0	0.2	0.0
max	62.8	91.6	78.0	101.6	72.8	90.2	84.8	69.4	64.0	89.0	138.4	48.4	138.4	138.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	85.8	79.9	92.9	105.0	111.2	138.4	153.0	133.2	117.5	147.3	119.2	98.5	115.2	104.1
max	175.2	367.6	174.6	302.8	196.4	229.8	279.6	245.2	259.4	382.2	268.8	205.4	382.2	382.2
min	9.8	16.6	27.4	26.4	17.6	47.4	66.4	24.2	22.0	59.6	26.2	33.4	9.8	9.8
<b>Seasonal Rainfall, millimetres</b>														
mean													1382.0	730.6
max													2148.6	1176.2
min													794	396
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	77.2	77.3	73.6	67.6	62.5	54.3	52.7	57.2	65.2	66.0	70.2	73.7	66.5	72.2
median	85.0	85.1	83.5	76.8	68.9	57.6	55.6	59.8	72.2	72.8	78.0	81.5	75.0	81.2
max	96.7	94.1	94.0	90.6	88.7	87.8	87.2	87.9	90.3	92.6	93.3	93.8	96.7	96.7
min	0.3	0.9	6.8	0.3	7.4	0.0	0.6	2.5	0.1	1.9	3.5	0.2	0.0	0.2
<b>Duff Moisture Code, DMC</b>														
mean	23.0	26.2	19.5	9.1	5.2	2.2	1.4	2.5	5.9	6.9	11.6	16.5	10.8	16.0
median	18.7	22.2	14.6	7.7	3.5	1.2	0.9	1.4	4.3	5.5	9.1	13.2	6.2	11.6
max	91.1	92.7	90.9	40.1	27.4	33.2	10.2	17.9	29.7	28.3	49.3	85.4	92.7	92.7
min	1.2	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
<b>Drought Code, DC</b>														
mean	183.4	241.7	235.7	172.8	106.9	37.9	12.4	11.5	19.3	21.7	50.1	108.0	99.8	143.8
median	177.2	238.6	223.8	169.8	75.6	9.0	5.2	6.1	11.4	15.8	40.9	98.2	42.9	108.6
max	511.5	649.4	655.4	484.4	486.2	457.4	224.6	101.1	118.0	101.2	184.4	334.6	655.4	655.4
min	6.0	5.0	3.5	2.1	0.9	0.2	0.0	0.0	0.3	1.8	3.7	5.0	0.0	1.8
<b>Initial Spread Index, ISI</b>														
mean	4.3	4.2	3.5	2.2	1.6	1.1	1.0	1.2	2.2	2.5	3.1	3.5	2.5	3.3
median	3.6	3.6	2.8	1.5	1.0	0.6	0.5	0.7	1.2	1.4	1.9	2.6	1.4	2.4
max	38.5	28.5	28.8	29.0	26.9	33.4	24.2	12.2	24.2	19.2	30.5	23.8	38.5	38.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	33.7	39.9	30.6	15.2	8.3	3.2	1.7	3.0	6.5	7.6	14.2	22.5	15.5	23.3
median	29.0	34.7	23.7	12.6	5.3	1.7	1.1	1.7	4.6	6.1	11.5	18.7	8.4	17.0
max	122.1	129.7	119.7	56.8	47.4	56.2	11.2	24.8	36.0	33.3	59.1	101.9	129.7	129.7
min	1.7	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	9.1	9.8	7.2	3.2	1.8	0.7	0.5	0.7	2.1	2.5	4.3	6.0	4.0	6.0
median	7.3	7.9	5.0	1.2	0.4	0.2	0.1	0.2	0.5	0.7	1.9	3.8	0.8	3.2
max	56.3	47.4	46.8	43.1	30.3	24.8	17.7	11.4	20.0	22.1	33.5	38.9	56.3	56.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.1	2.4	1.5	0.5	0.2	0.1	0.0	0.0	0.2	0.3	0.7	1.2	0.8	1.2
median	0.9	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.2
max	34.1	25.2	24.6	21.3	11.4	8.0	4.4	2.0	5.5	6.5	13.6	17.7	34.1	34.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	65.7	65.8	46.7	13.7	6.2	2.4	0.8	1.3	7.1	9.4	21.5	36.3	23.1	37.0
max	249.3	207.4	124.1	49.7	28.8	30.6	6.2	7.0	23.5	28.0	68.5	124.5	249.3	249.3
min	13.3	9.5	8.3	0.4	0.1	0.0	0.0	0.0	0.7	0.9	4.7	8.0	0.0	0.4
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													277.0	261.8
max													617.9	732.0
min													96.0	66.8

Station Name: Holdsworth Station Raws  
(HWT)

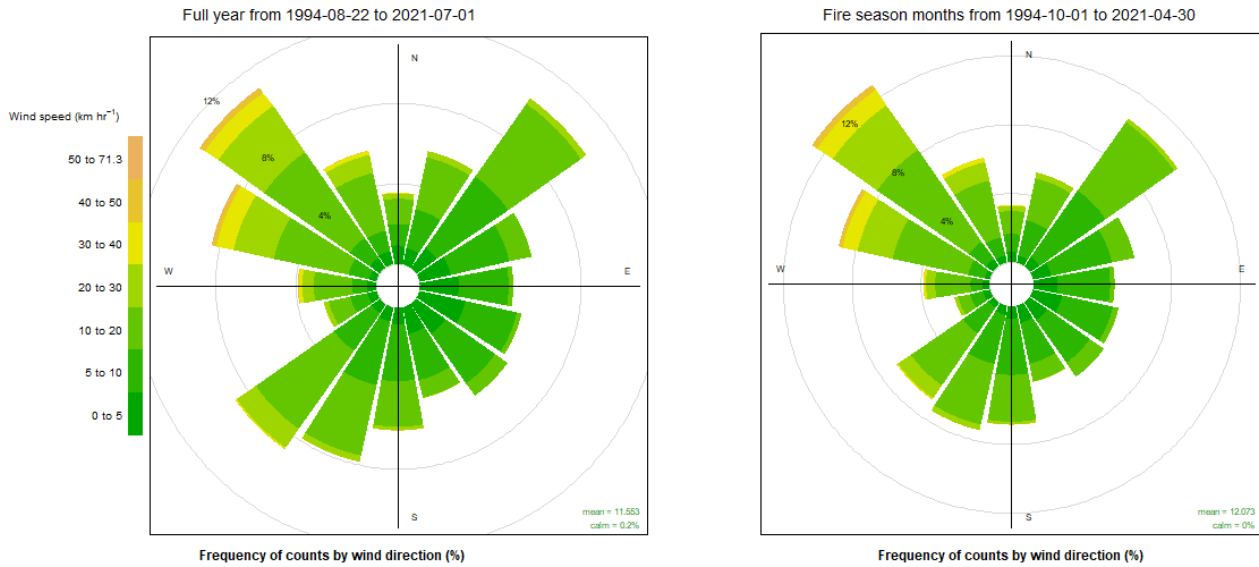
Period: 1994-08-22 - 2021-07-01

Length of record: 26 years

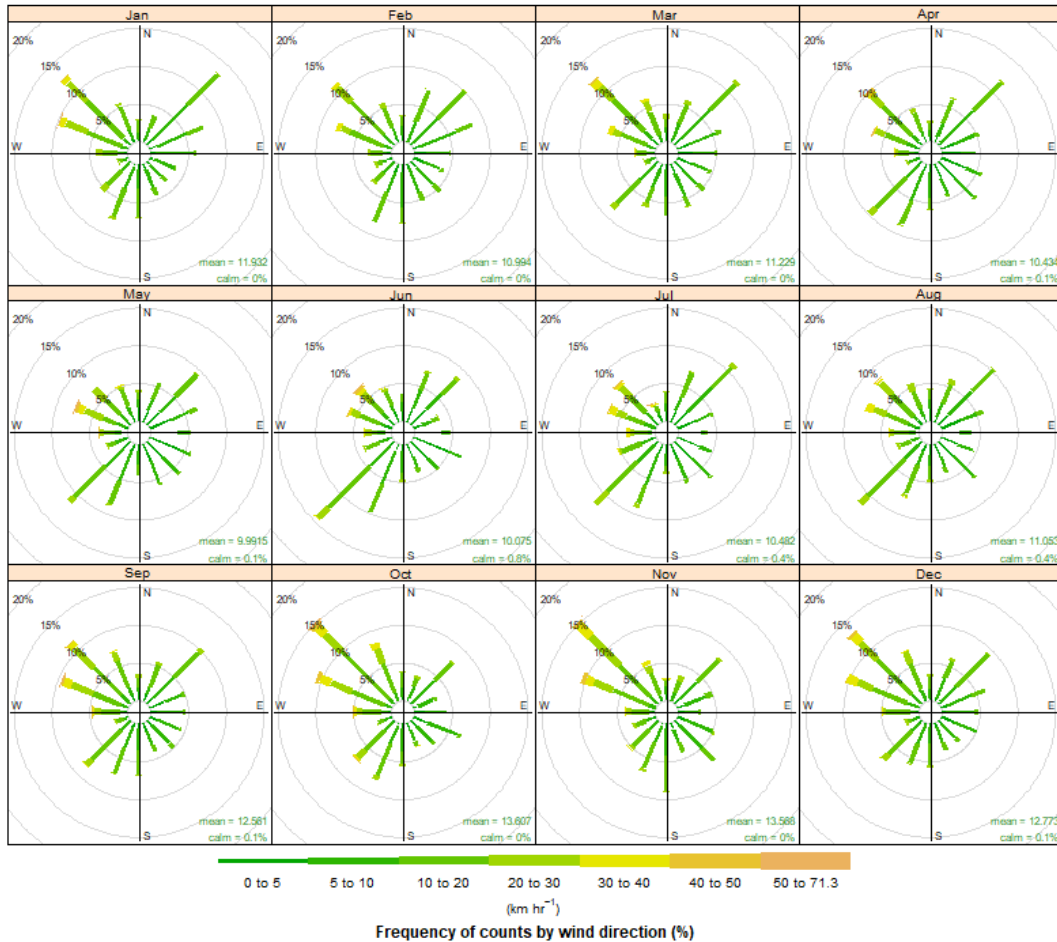
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	12.7	10.9	15.8	23.1	27.7	29.5	30.9	30.7	27.0	27.0	20.9	17.6	273.7	127.0
max	23	24	27	30	31	30	31	31	30	31	29	27	324	175
min	1	1	4	11	13	20	30	29	15	15	8	4	200	73
<b>Moderate</b>														
mean	12.5	11.1	11.3	6.4	3.2	0.3	0.1	0.3	3.0	4.0	8.2	10.7	71.0	64.5
max	18	20	19	17	18	5	1	2	15	16	20	21	116	91
min	6	5	4	0	0	0	0	0	0	0	1	4	39	37
<b>High</b>														
mean	4.0	4.3	3.0	0.5	0.1	0.2	0.0	0.0	0.0	0.0	0.9	2.0	15.0	15.3
max	11	11	12	3	2	5	0	0	0	1	6	13	37	33
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	1.4	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.1	4.0
max	11	6	5	1	0	0	0	0	0	0	1	8	17	18
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.4	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	1.3
max	2	6	3	1	0	0	0	0	0	0	0	2	8	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	2	0	1	0	0	0	0	0	0	0	0	0	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Wairarapa (Wairarapa)														
Curing%	90	95	95	80	60	50	45	45	50	65	70	80		
<b>Low</b>														
mean	3.3	3.1	4.8	7.2	13.1	15.3	17.2	15.2	9.3	9.0	6.5	4.1	108.0	37.5
max	10	8	11	19	21	25	29	24	18	18	13	10	135	60
min	0	0	0	2	2	9	10	6	3	3	0	1	85	23
<b>Moderate</b>														
mean	12.0	9.7	11.7	17.7	17.4	14.2	13.7	15.5	19.0	18.9	17.7	16.2	183.9	103.9
max	20	16	22	23	29	21	20	25	25	24	26	21	207	120
min	5	2	3	10	9	5	2	7	11	11	11	8	160	85
<b>High</b>														
mean	11.3	11.0	11.4	4.9	0.4	0.4	0.1	0.3	1.6	3.0	5.2	9.2	58.8	56.7
max	20	20	23	17	2	4	2	3	7	6	10	18	82	80
min	4	6	4	0	0	0	0	0	0	0	0	4	37	25
<b>Very High</b>														
mean	3.5	3.8	2.3	0.1	0.1	0.0	0.0	0.0	0.1	0.2	0.5	1.3	12.0	11.7
max	8	12	8	1	2	1	1	0	1	1	2	8	26	26
min	0	0	0	0	0	0	0	0	0	0	0	0	5	4
<b>Extreme</b>														
mean	0.7	0.6	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	2.4	2.3
max	3	4	3	2	0	0	0	0	0	0	1	2	7	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	1	1	1	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.9	4.1	6.8	9.3	12.4	15.9	16.8	15.7	10.1	10.7	8.0	6.5	121.3	49.8
max	11	10	13	21	23	24	29	23	18	19	14	13	149	73
min	0	0	2	3	2	8	10	4	3	4	1	2	95	32
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	0	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	3.0	3.3	3.7	4.6	5.5	6.0	6.2	5.0	4.9	4.4	3.9	3.8	54.1	26.3
max	6	7	9	8	11	12	10	9	9	10	7	9	75	35
min	1	1	1	2	0	1	1	2	1	0	0	1	41	19
<b>Very High</b>														
mean	3.0	2.9	2.8	3.8	3.3	3.6	3.6	4.4	3.4	3.5	3.5	3.2	41.2	22.8
max	7	9	10	7	6	8	8	11	7	7	9	6	52	33
min	0	0	0	0	0	0	0	1	0	1	1	0	31	12
<b>Extreme</b>														
mean	6.7	6.2	7.2	7.7	7.2	3.4	3.3	4.3	6.6	6.1	6.0	7.5	72.2	47.6
max	13	11	14	12	19	12	8	13	14	12	14	13	102	60
min	2	1	3	1	3	0	0	0	2	3	1	3	55	35
<b>Very Extreme</b>														
mean	13.3	11.8	10.5	4.6	2.6	1.1	1.0	1.6	5.0	6.3	8.7	10.1	76.5	65.8

max	22	23	21	15	9	6	4	6	11	14	17	22	109	96
min	5	4	3	0	0	0	0	0	1	1	3	6	44	31

Windroses for Holdsworth Station Raws (HWT)



HWT station from 1994-08-22 to 2021-07-01

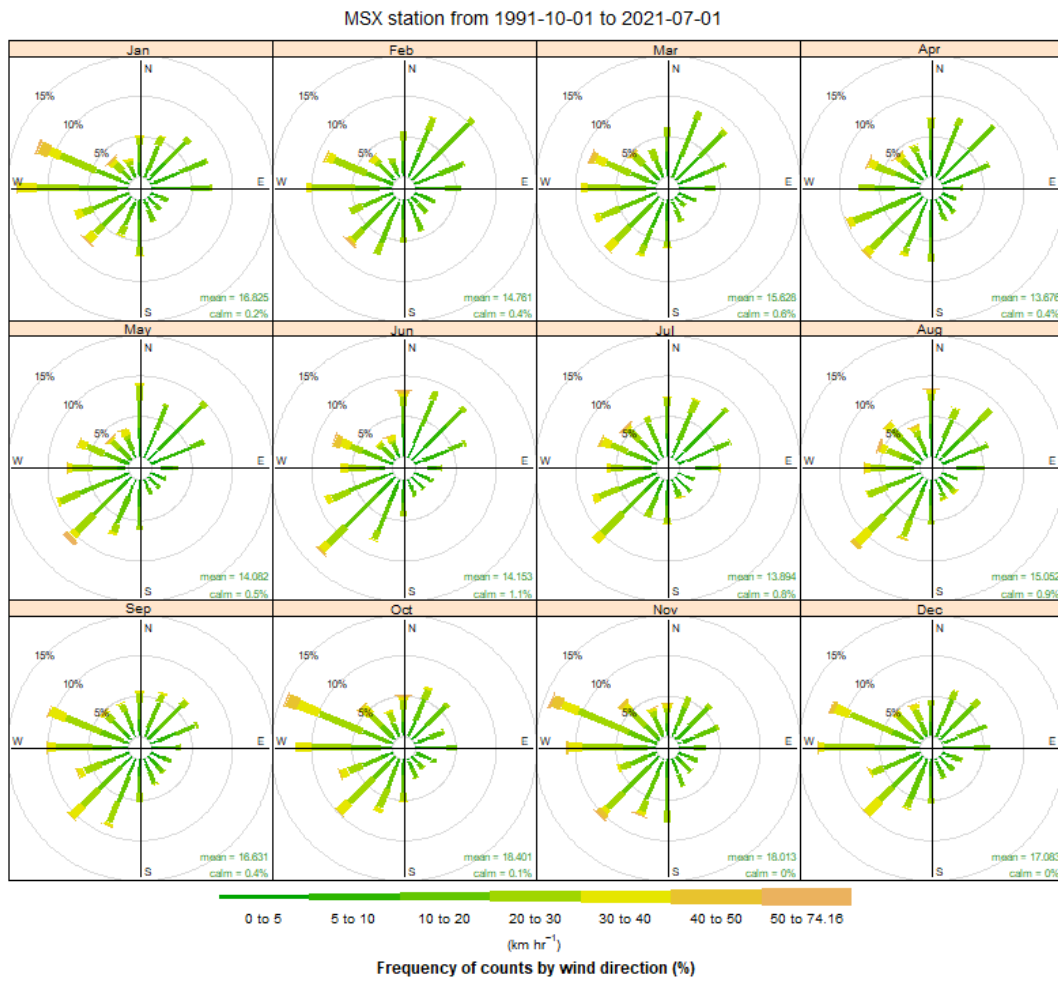
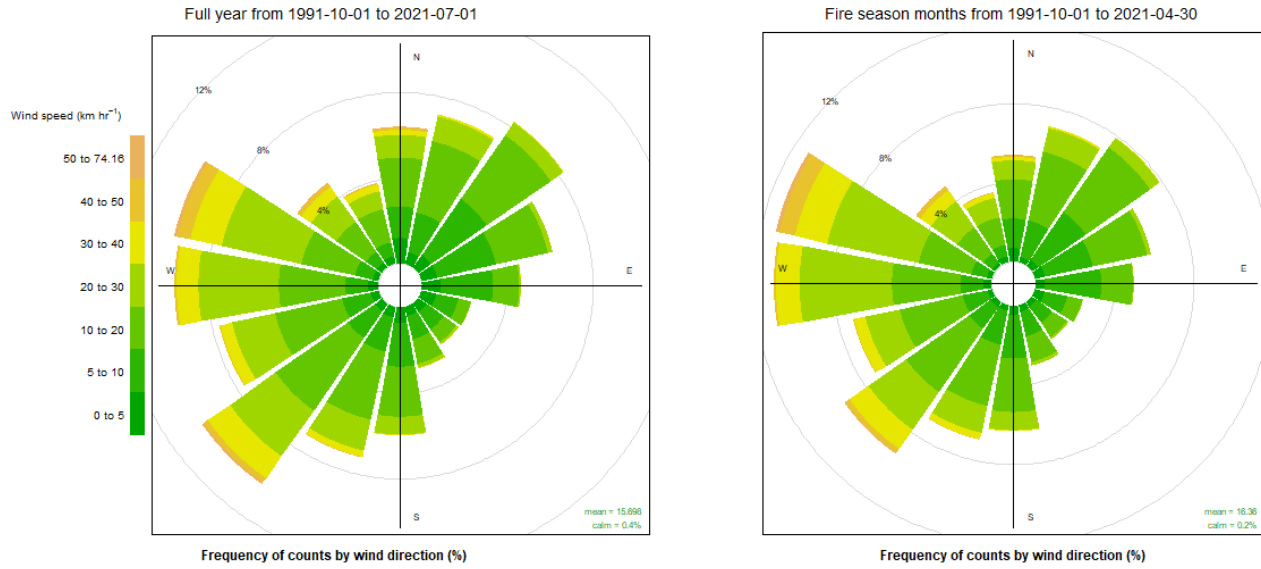


Station Name: Masterton Aero Aws (MSX)      Period: 1991-10-01 - 2021-07-01      Length of record: 29 years														
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.1	22.1	20.0	17.1	14.4	11.7	11.0	11.7	14.0	15.8	17.7	20.0	16.5	19.2
median	22.1	22.0	20.0	17.1	14.4	11.7	11.0	12.0	14.0	16.0	18.0	20.0	16.0	19.0
max	32.4	31.3	29.0	25.1	24.4	20.6	18.7	19.7	22.1	23.4	28.1	30.0	32.4	32.4
min	9.0	11.0	9.0	6.0	3.9	2.1	1.8	0.3	3.8	5.0	6.0	8.0	0.3	5.0
<b>Relative Humidity, %</b>														
mean	54.2	54.8	59.2	65.9	71.1	74.8	75.2	70.8	64.9	63.0	60.3	58.7	64.4	59.5
median	52	52	57	65	70	75	75	70	63	61	58	57	63	57
max	98	98	100	100	100	100	100	100	98	98	96	98	100	100
min	13.0	19.0	26.0	35.0	28.0	36.0	41.0	31.2	26.0	31.0	24.0	19.0	13.0	13.0
<b>Wind Speed, km/h</b>														
mean	16.8	15.1	15.2	13.4	13.7	14.2	13.6	15.1	16.5	18.2	18.0	17.3	15.6	16.3
median	15.0	13.0	13.0	11.4	11.6	11.8	11.2	13.0	15.1	17.0	17.0	17.0	14.0	15.0
max	57.2	61.0	57.0	61.0	59.0	61.2	74.2	71.9	55.0	54.0	64.0	54.7	74.2	64.0
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.0	2.2	2.7	2.5	2.8	3.4	3.4	3.1	2.9	2.7	2.5	2.0	2.7	2.4
median	0.0	0.0	0.0	0.1	0.2	0.4	0.4	0.3	0.2	0.2	0.0	0.0	0.1	0.0
max	87.4	85.5	98.6	83.1	82.5	79.3	84.8	70.8	79.3	51.8	86.6	53.6	98.6	98.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	63.9	61.6	85.4	75.7	89.1	101.8	104.3	94.6	86.3	85.6	74.5	62.3	82.1	72.7
max	184.2	266.2	327.7	213.3	243.5	208.6	263.6	240.3	314.4	166.4	187.0	168.0	327.7	327.7
min	13.4	11.8	17.9	13.2	10.4	32.2	25.0	20.4	16.8	19.0	8.0	15.6	8.0	8.0
<b>Seasonal Rainfall, millimetres</b>														
mean													985.1	505.5
max													2253.3	1028.2
min													574.2	276.8
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	80.3	80.4	76.1	72.0	65.8	58.9	58.8	62.9	69.4	71.5	75.2	77.7	70.8	76.2
median	86.5	86.7	84.8	81.1	73.5	63.8	65.0	68.7	76.4	79.5	83.0	84.4	79.4	83.9
max	96.7	94.7	93.1	90.3	89.0	89.3	86.0	88.2	90.1	89.9	93.1	94.1	96.7	96.7
min	8.8	6.6	8.5	4.9	6.1	1.8	2.0	2.5	5.6	5.3	6.1	7.6	1.8	4.9
<b>Duff Moisture Code, DMC</b>														
mean	30.6	36.1	26.3	13.9	7.4	2.6	1.7	3.1	6.8	8.9	15.4	23.4	14.7	22.0
median	27.3	31.8	19.5	10.8	4.5	1.4	1.3	2.2	5.6	7.6	13.3	19.0	8.2	16.1
max	105.8	109.9	122.5	56.1	43.3	37.7	10.0	15.5	35.0	29.1	56.0	102.5	122.5	122.5
min	2.4	0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
<b>Drought Code, DC</b>														
mean	276.0	349.3	353.7	284.8	220.4	117.7	56.3	35.0	34.5	41.2	94.1	174.0	169.9	223.5
median	290.7	364.7	369.3	275.6	185.0	89.9	18.2	15.2	23.9	35.4	90.4	176.0	108.7	198.2
max	523.5	671.2	767.5	688.1	695.1	544.0	363.5	247.9	222.5	147.8	237.4	376.3	767.5	767.5
min	7.5	5.0	4.0	2.0	1.0	0.6	0.2	0.0	0.6	1.9	4.7	6.1	0.0	1.9
<b>Initial Spread Index, ISI</b>														
mean	6.9	6.2	4.9	3.0	2.2	1.6	1.4	1.9	2.9	3.7	4.7	5.3	3.7	4.9
median	5.1	5.0	3.8	2.3	1.4	0.8	0.8	1.2	1.9	2.5	3.6	4.2	2.2	3.6
max	54.6	39.0	36.6	45.6	28.5	29.0	10.9	26.9	23.0	29.7	31.0	36.6	54.6	54.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	46.4	55.7	42.4	23.8	13.0	4.6	2.8	4.1	8.2	11.0	21.0	33.6	22.2	33.2
median	44.0	52.0	34.4	18.6	8.1	2.5	2.1	2.9	6.9	9.6	18.8	29.4	12.3	24.4
max	131.3	154.6	160.1	86.4	65.5	64.3	12.7	19.8	34.9	35.8	70.2	117.4	160.1	160.1
min	4.5	0.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	15.2	15.7	11.1	5.4	2.9	1.3	0.8	1.3	2.9	4.2	7.3	10.5	6.5	9.9
median	12.5	13.4	8.0	3.3	0.8	0.3	0.3	0.4	0.9	2.4	5.5	8.3	2.4	6.6
max	85.2	67.5	71.8	73.6	37.3	48.0	9.6	18.9	22.3	27.8	41.1	61.9	85.2	85.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	5.0	5.2	3.3	1.1	0.5	0.2	0.0	0.1	0.4	0.6	1.5	2.8	1.7	2.8
median	2.4	2.7	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.2	0.1	0.8
max	71.0	47.0	52.5	54.8	16.5	25.7	1.5	5.0	6.6	9.8	19.5	40.3	71.0	71.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	156.7	143.6	97.9	31.4	13.9	6.2	1.4	3.3	11.0	19.8	44.8	88.7	51.6	83.3
max	395.2	373.3	272.0	114.0	62.8	89.3	6.3	12.2	49.5	41.9	142.8	281.2	395.2	395.2
min	15.7	8.5	5.4	2.1	0.3	0.0	0.0	0.3	0.2	4.2	11.1	6.9	0.0	2.1
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													618.7	586.8
max													1181.3	1289.9
min													98.1	129.2

Station Name: Masterton Aero Aws (MSX)      Period: 1991-10-01 - 2021-07-01      Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	8.2	7.0	12.3	18.6	25.3	29.2	30.9	30.5	25.4	22.2	14.0	11.2	234.9	92.9
max	22	27	30	29	31	30	31	31	30	31	22	28	325	152
min	1	0	3	2	6	22	30	28	14	8	2	2	163	52
<b>Moderate</b>														
mean	11.0	9.5	10.8	9.2	4.9	0.6	0.1	0.5	4.4	8.6	13.2	12.4	85.3	74.7
max	18	18	23	21	24	6	1	3	15	23	25	18	131	106
min	5	0	1	1	0	0	0	0	0	0	8	2	40	45
<b>High</b>														
mean	5.4	5.8	3.9	1.8	0.7	0.0	0.0	0.0	0.1	0.2	2.5	4.4	24.8	24.2
max	10	13	12	6	4	0	0	0	3	2	9	10	46	46
min	0	0	0	0	0	0	0	0	0	0	0	0	1	3
<b>Very High</b>														
mean	2.8	2.1	2.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.2	1.8	9.4	9.8
max	9	9	10	3	2	0	0	0	0	0	3	6	23	22
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	2.9	2.9	1.4	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.1	1.0	8.6	8.5
max	10	12	10	2	0	5	0	0	0	0	1	6	24	25
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.7	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.2	2.2
max	5	8	5	1	0	0	0	0	0	0	0	3	12	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Wairarapa (Wairarapa)														
Curing%	90	95	95	80	60	50	45	45	50	65	70	80		
<b>Low</b>														
mean	2.1	2.0	3.6	5.0	10.7	12.4	13.6	10.6	6.2	5.5	3.4	2.3	77.4	23.6
max	6	8	8	13	19	22	26	21	20	13	10	7	126	39
min	0	0	0	0	2	5	5	3	1	0	0	0	60	8
<b>Moderate</b>														
mean	8.7	7.6	9.7	17.3	19.1	16.5	16.9	19.4	20.6	19.3	16.5	12.5	184.0	91.6
max	17	15	17	24	28	25	26	28	26	24	25	24	230	123
min	3	1	2	11	12	8	5	7	10	12	7	5	150	62
<b>High</b>														
mean	11.2	10.1	11.9	7.0	1.1	1.0	0.5	0.9	3.1	5.9	8.7	12.0	73.3	66.6
max	19	16	20	18	4	6	3	4	9	16	19	19	92	84
min	6	2	5	2	0	0	0	0	0	2	3	3	46	43
<b>Very High</b>														
mean	5.1	5.3	3.4	0.6	0.1	0.1	0.0	0.0	0.1	0.3	1.3	3.4	19.8	19.8
max	10	13	13	3	1	2	0	1	1	3	5	9	33	41
min	0	0	0	0	0	0	0	0	0	0	0	0	7	7
<b>Extreme</b>														
mean	3.6	3.2	2.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	10.1	10.0
max	10	10	10	1	0	0	0	0	0	0	2	3	29	31
min	0	0	0	0	0	0	0	0	0	0	0	0	3	3
<b>Very Extreme</b>														
mean	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
max	3	1	1	1	0	0	0	0	0	0	0	0	5	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.4	3.1	5.4	6.8	10.5	13.6	13.7	11.7	7.8	6.9	5.0	4.0	91.8	34.3
max	9	11	13	16	18	22	27	19	22	14	13	11	148	55
min	0	0	0	0	2	5	5	3	2	1	0	0	68	15
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.0
max	0	0	0	0	0	1	1	1	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.8	1.8	2.2	3.2	4.6	5.3	5.6	4.6	4.0	3.1	2.4	2.2	40.9	16.7
max	4	7	8	8	8	11	11	8	9	7	4	8	61	28
min	0	0	0	0	0	0	1	1	0	0	0	0	30	9
<b>Very High</b>														
mean	2.7	2.1	2.1	4.0	4.9	4.1	5.1	4.7	3.9	3.7	3.1	3.1	43.5	20.8
max	6	7	5	8	11	9	10	11	8	6	8	7	64	33
min	0	0	0	0	0	0	0	1	0	1	0	1	29	11
<b>Extreme</b>														
mean	5.2	5.0	7.4	9.0	6.9	4.4	4.6	6.7	8.0	7.5	6.6	6.0	77.2	46.8
max	11	10	15	17	13	10	10	15	15	13	14	17	102	65
min	1	0	1	4	1	0	0	2	1	2	1	1	57	25
<b>Very Extreme</b>														
mean	18.0	16.2	13.8	7.0	4.1	2.6	2.0	3.3	6.4	9.8	12.8	15.7	111.7	93.7
max	25	25	26	16	12	9	7	8	15	19	23	25	143	133
min	7	4	3	1	0	0	0	0	1	4	6	3	53	53

Windroses for Masterton Aero Aws (MSX)





Station Name: Ngaumu (NMU)													Period: 1993-11-04 - 2021-07-01		Length of record: 27 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	21.4	21.4	19.3	16.6	14.1	11.3	10.5	11.4	13.5	15.3	16.8	19.5	15.9	18.6		
median	21.8	21.8	19.7	16.9	14.4	11.3	10.5	11.7	13.9	15.8	17.1	19.8	15.7	18.7		
max	31.9	30.9	27.5	24.9	21.9	18.8	17.9	19.0	22.6	28.1	29.5	32.4	32.4	32.4		
min	9.8	9.4	7.9	6.0	2.0	2.3	0.5	0.7	5.3	3.9	4.6	8.5	0.5	3.9		
<b>Relative Humidity, %</b>																
mean	59.8	59.0	62.8	69.0	74.2	79.2	78.8	74.4	67.8	65.6	64.5	63.6	68.2	63.5		
median	58.0	58.0	61.0	67.0	74.0	79.5	79.3	74.0	66.0	64.0	63.0	62.0	67.0	62.0		
max	99	99	100	100	100	100	100	100	100	99	100	100	100	100		
min	15.0	23.0	18.4	28.6	30.9	40.6	37.4	37.5	36.0	32.0	30.4	14.3	14.3	14.3		
<b>Wind Speed, km/h</b>																
mean	14.4	14.0	13.5	12.5	12.5	12.0	12.5	13.7	15.4	15.4	15.6	15.0	13.9	14.3		
median	13.6	12.8	12.2	11.5	11.2	10.8	11.5	13.0	14.8	14.2	14.7	13.7	12.7	13.2		
max	64.1	45.0	49.3	40.4	46.1	46.4	51.8	44.0	50.0	57.5	46.8	48.7	64.1	64.1		
min	2.3	0.0	0.0	0.0	0.9	0.9	0.0	0.7	0.0	2.5	0.9	1.8	0.0	0.0		
<b>24-hr Rainfall, millimetres</b>																
mean	1.9	2.2	2.8	2.8	2.8	4.0	5.0	3.5	2.4	2.5	2.4	1.7	2.8	2.3		
median	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0		
max	83.8	139.2	129.6	79.0	63.6	88.0	107.2	102.8	105.6	58.0	79.4	67.2	139.2	139.2		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	60.2	62.7	88.6	84.8	88.3	116.4	153.9	108.1	72.1	76.2	71.1	53.8	86.4	71.0		
max	186.0	292.2	292.4	295.6	211.8	215.8	371.0	265.8	196.8	180.8	191.2	187.2	371.0	295.6		
min	7.4	8.0	12.0	8.0	10.8	39.0	31.6	22.6	7.8	21.2	11.0	7.6	7.4	7.4		
<b>Seasonal Rainfall, millimetres</b>																
mean													1036.3	497.6		
max													1653.4	1017.2		
min													588.4	178.4		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	78.7	78.4	74.8	69.3	62.0	52.2	52.0	59.6	68.8	70.8	73.3	76.5	68.0	74.5		
median	85.4	85.6	83.9	79.8	70.3	56.7	57.1	66.3	77.4	79.3	82.2	83.7	78.5	83.1		
max	95.8	93.1	93.0	91.7	89.7	86.3	87.6	88.3	88.9	91.5	90.0	94.6	95.8	95.8		
min	2.0	2.6	2.6	2.5	2.7	1.4	1.1	2.2	4.1	4.0	4.0	8.2	1.1	2.0		
<b>Duff Moisture Code, DMC</b>																
mean	32.0	34.4	27.7	14.3	7.1	1.9	1.3	2.6	6.8	9.0	14.7	24.0	14.7	22.3		
median	27.7	29.0	19.2	10.1	3.8	1.0	0.8	1.7	5.6	7.4	13.0	19.3	7.8	16.0		
max	103.0	137.3	124.4	77.1	56.9	23.9	11.0	19.7	25.8	33.1	44.1	95.5	137.3	137.3		
min	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0		
<b>Drought Code, DC</b>																
mean	301.8	359.5	348.8	271.6	199.7	95.2	36.9	20.0	31.7	47.5	103.1	190.9	167.8	231.7		
median	325.0	399.0	341.6	270.1	158.6	41.1	12.1	10.8	23.3	40.1	100.0	194.1	100.5	197.4		
max	569.1	731.5	803.3	685.7	716.4	541.0	303.2	301.8	145.7	195.5	234.5	402.1	803.3	803.3		
min	7.2	5.1	3.5	2.3	1.2	0.1	0.0	0.0	0.7	1.7	4.4	5.3	0.0	1.7		
<b>Initial Spread Index, ISI</b>																
mean	5.0	5.0	4.1	2.6	1.9	1.1	1.1	1.5	2.6	2.9	3.5	4.2	3.0	3.9		
median	4.3	4.3	3.4	1.9	1.1	0.5	0.6	1.0	1.9	2.2	2.9	3.4	2.0	3.1		
max	42.3	34.2	34.2	29.7	27.5	22.3	16.5	16.2	23.5	30.7	24.4	23.5	42.3	42.3		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	49.1	53.7	44.4	24.3	12.3	3.2	2.0	3.3	8.2	11.4	20.7	35.1	22.4	34.1		
median	44.5	47.9	33.5	17.4	6.6	1.6	1.4	2.3	6.8	9.6	18.8	30.7	11.8	24.8		
max	130.1	186.9	168.9	118.6	94.6	43.1	13.1	20.6	30.2	38.3	58.7	113.0	186.9	186.9		
min	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	12.5	13.1	10.0	5.0	2.7	0.7	0.6	1.0	2.6	3.5	5.8	9.1	5.6	8.4		
median	10.5	10.9	7.0	2.8	0.6	0.1	0.2	0.3	0.9	2.0	4.6	7.2	1.9	5.7		
max	72.7	82.2	73.5	61.9	45.1	18.6	12.2	12.8	24.8	28.2	35.2	47.5	82.2	82.2		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	3.5	3.9	2.7	1.0	0.4	0.1	0.0	0.1	0.3	0.5	1.0	2.2	1.3	2.1		
median	1.8	1.9	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.9	0.1	0.6		
max	53.7	66.7	54.7	40.3	23.0	4.8	2.3	2.5	8.0	10.0	14.9	25.3	66.7	66.7		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	108.9	108.1	80.6	29.7	13.1	1.8	1.1	2.3	8.9	14.4	31.0	68.2	39.0	63.0		
max	426.4	517.9	301.1	161.1	111.4	10.7	7.2	13.2	28.4	46.8	113.2	280.9	517.9	517.9		
min	19.1	6.2	4.8	1.3	0.1	0.0	0.0	0.0	0.5	0.8	4.1	6.4	0.0	0.8		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													468.1	444.1		
max													1526.9	1762.2		
min													114.7	84.4		

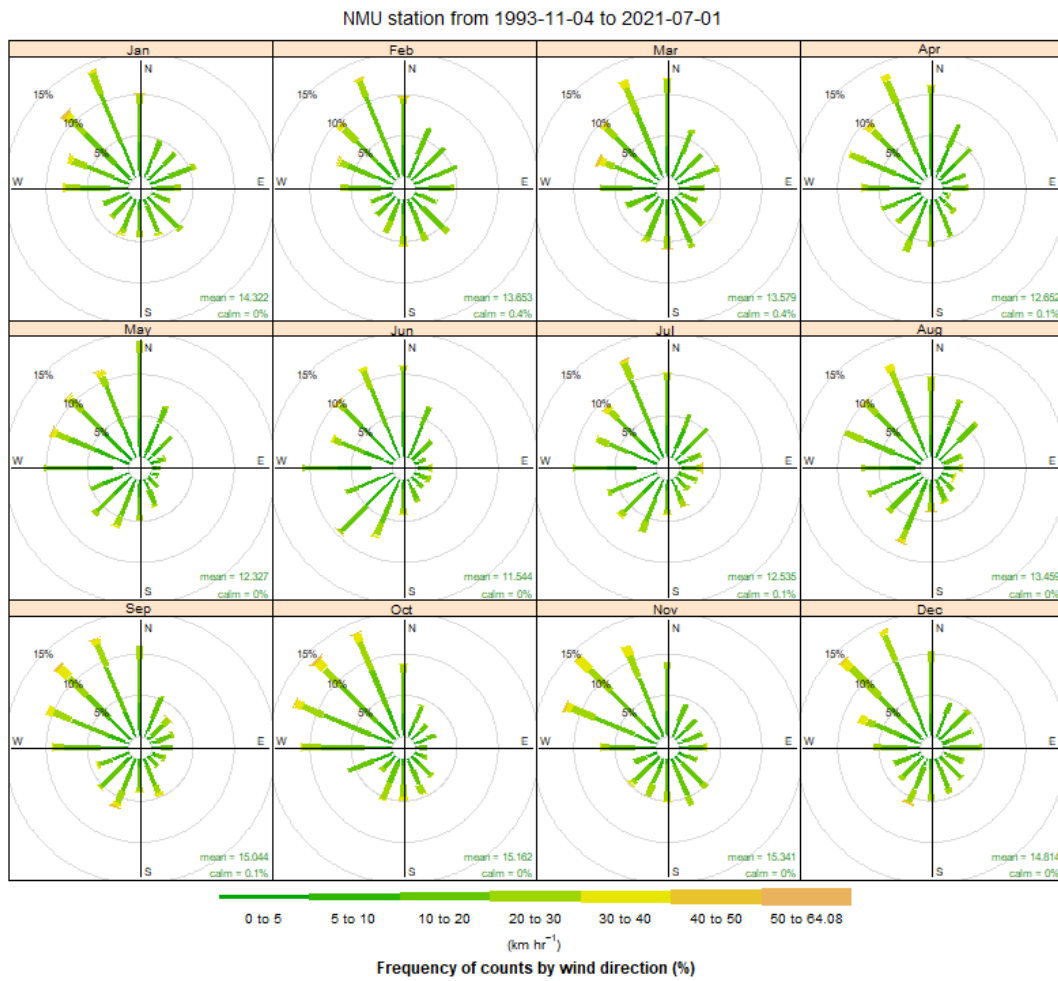
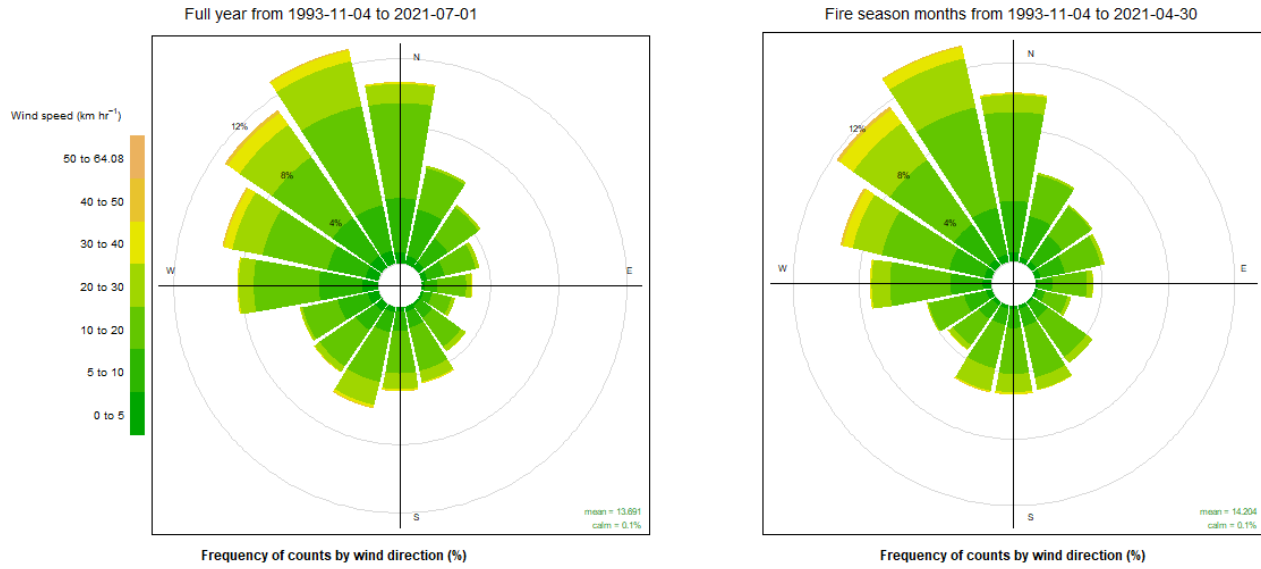
Station Name: Ngaumu (NMU)

Period: 1993-11-04 - 2021-07-01

Length of record: 27 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	8.9	8.3	13.0	19.4	25.7	29.5	30.9	30.5	25.9	23.5	15.4	11.7	242.9	99.9
max	19	27	27	30	31	30	31	31	30	31	28	27	300	154
min	1	1	2	4	12	24	29	24	15	6	3	1	184	41
<b>Moderate</b>														
mean	11.5	10.1	10.9	8.5	4.6	0.5	0.1	0.5	4.1	7.3	13.2	13.5	84.7	75.3
max	21	21	22	22	16	6	2	7	15	23	25	23	125	114
min	4	2	3	0	0	0	0	0	0	0	2	4	40	51
<b>High</b>														
mean	7.1	6.0	4.3	1.6	0.4	0.0	0.0	0.0	0.0	0.2	1.2	3.7	24.4	23.9
max	16	14	14	9	4	0	0	0	1	2	9	11	52	57
min	0	0	0	0	0	0	0	0	0	0	0	0	3	0
<b>Very High</b>														
mean	1.7	2.0	1.6	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.1	1.3	7.2	7.1
max	5	8	8	3	3	0	0	0	0	0	2	8	19	24
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.2	1.4	1.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.5	4.4
max	6	8	7	2	2	0	0	0	0	0	0	7	19	26
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.6	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6	1.6
max	9	9	3	2	1	0	0	0	0	0	0	2	22	24
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Wairarapa (Wairarapa)														
Curing%	90	95	95	80	60	50	45	45	50	65	70	80		
<b>Low</b>														
mean	2.7	2.6	4.3	6.0	12.4	15.9	15.9	12.4	6.6	6.0	4.2	3.3	92.3	29.0
max	8	7	11	18	23	26	30	27	15	14	11	10	133	47
min	0	0	0	0	1	6	5	2	1	1	0	0	61	10
<b>Moderate</b>														
mean	10.1	8.3	10.7	17.3	17.9	13.9	14.9	18.3	21.6	21.7	18.8	14.6	187.9	101.7
max	21	19	25	26	28	24	24	28	26	28	27	27	210	139
min	4	2	3	10	8	4	1	4	13	13	10	4	165	62
<b>High</b>														
mean	13.3	11.8	12.2	6.1	0.6	0.2	0.2	0.3	1.8	3.2	6.5	10.8	67.1	63.8
max	21	22	21	18	4	2	3	3	5	11	17	18	88	89
min	6	1	2	0	0	0	0	0	0	0	0	0	33	26
<b>Very High</b>														
mean	3.4	4.1	2.8	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.9	13.3	13.2
max	8	10	8	3	1	1	0	0	1	1	2	12	31	38
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.3	1.3	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	4.1	4.2
max	8	8	10	2	0	0	0	0	0	0	1	4	28	33
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
max	1	2	2	0	0	0	0	0	0	0	0	0	5	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.1	3.7	5.6	8.0	11.8	16.2	16.3	13.2	7.8	7.1	5.7	4.8	104.4	38.9
max	10	11	11	19	22	26	30	28	16	15	12	14	143	59
min	0	0	0	1	2	7	6	3	2	2	0	1	76	15
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	1	0	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.1	2.2	2.5	3.8	4.7	4.7	4.9	4.5	3.6	3.5	2.6	1.7	41.1	18.4
max	5	5	6	10	10	11	10	10	7	10	6	5	63	32
min	0	1	0	0	0	0	1	1	0	0	1	0	19	8
<b>Very High</b>														
mean	2.6	1.7	3.1	4.1	4.2	3.7	4.5	5.0	4.4	4.1	3.3	3.3	44.1	22.1
max	8	7	12	9	9	7	11	10	7	8	8	7	55	34
min	0	0	1	1	1	0	0	1	1	1	0	1	32	11
<b>Extreme</b>														
mean	6.4	6.6	7.6	7.9	6.5	4.2	4.0	5.9	8.4	8.8	7.9	8.6	82.7	54.9
max	15	14	14	16	15	13	13	13	18	15	14	20	106	79
min	1	2	2	2	0	0	0	0	3	4	4	3	52	34
<b>Very Extreme</b>														
mean	15.6	14.0	12.2	6.1	3.8	1.1	1.3	2.5	5.7	7.5	10.4	12.6	93.0	78.0
max	26	24	24	18	11	9	8	13	13	17	21	25	149	140
min	6	2	1	0	0	0	0	0	0	0	0	0	27	21

Windroses for Ngaumu (NMU)



Station Name: Ngawihi (NWX)

Period: 1994-11-16 - 2021-07-01

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	20.4	20.4	18.9	16.9	14.9	12.7	11.8	12.4	14.0	15.5	17.0	19.2	16.2	18.3
median	20.2	20.4	19.0	17.0	15.0	12.4	11.8	12.4	14.0	16.0	17.0	19.4	16.0	18.0
max	30.9	30.0	29.0	24.0	30.0	20.1	21.1	19.7	22.0	25.8	29.0	28.0	30.9	30.9
min	11.0	10.0	10.0	8.0	3.7	5.0	5.0	4.0	6.0	7.0	6.0	6.2	3.7	6.0
<b>Relative Humidity, %</b>														
mean	61.0	62.3	65.0	67.0	68.7	69.9	69.8	68.8	64.5	63.5	61.3	60.9	65.2	63.0
median	60.0	61.0	64.0	67.0	68.0	69.6	69.0	68.0	64.0	62.0	61.0	60.0	64.6	62.0
max	99	97	99	99	100	99	98	100	99	100	99	100	100	100
min	16	20	31	24	30	33	39	26	21	18	16	24	16	16
<b>Wind Speed, km/h</b>														
mean	20.1	19.2	19.7	19.1	19.1	19.9	19.5	19.8	22.6	23.5	22.6	21.9	20.6	20.8
median	18.5	17.0	18.5	18.5	18.4	19.0	19.0	20.0	24.0	24.0	20.4	20.0	20.0	19.0
max	57.0	57.0	65.0	62.0	64.8	68.6	57.4	61.0	69.0	69.0	61.0	63.0	69.0	69.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	2.0	2.0	2.2	2.8	2.6	3.5	4.1	3.2	2.3	2.3	2.7	2.2	2.6	2.3
median	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
max	67.2	153.0	84.2	116.0	56.4	160.4	115.0	78.4	161.0	109.4	187.4	97.4	187.4	187.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	63.3	58.0	70.1	83.4	80.5	102.4	126.5	98.5	70.2	69.9	82.3	67.4	81.0	70.6
max	133.0	283.2	166.8	310.2	166.8	265.8	414.0	230.8	263.4	171.4	348.8	192.2	414.0	348.8
min	6.6	7.4	9.0	5.0	6.6	34.2	17.6	7.4	7.0	4.2	13.8	10.6	4.2	4.2
<b>Seasonal Rainfall, millimetres</b>														
mean													972.6	477.1
max													1652.2	935.2
min													347.2	169.4
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	78.0	78.9	76.7	73.8	69.8	65.5	64.2	65.7	73.9	74.0	75.7	77.3	72.8	76.3
median	85.3	85.0	84.1	82.1	79.9	73.2	72.2	74.1	81.8	82.7	83.9	84.6	82.1	84.0
max	94.9	94.0	91.5	92.4	89.5	89.4	87.2	89.4	92.2	94.1	93.9	92.2	94.9	94.9
min	4.8	13.9	1.9	6.3	0.0	3.0	3.2	3.0	6.3	4.1	2.0	8.8	0.0	1.9
<b>Duff Moisture Code, DMC</b>														
mean	26.1	30.3	24.4	15.3	9.6	3.9	3.0	4.2	9.5	13.4	19.0	21.9	15.1	21.5
median	22.2	22.7	16.7	11.0	6.9	2.6	2.2	2.9	8.2	9.7	15.2	18.2	9.8	16.3
max	100.8	101.1	86.2	88.0	88.9	30.2	15.2	30.3	34.2	60.6	76.6	68.1	101.1	101.1
min	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.0	0.0
<b>Drought Code, DC</b>														
mean	271.5	337.4	341.3	285.1	227.7	129.9	66.3	45.9	50.4	66.4	122.1	193.0	178.8	231.0
median	270.9	333.8	312.9	255.5	201.7	72.8	19.8	14.6	28.4	42.9	103.7	177.4	128.7	196.0
max	693.9	703.5	814.0	856.8	861.8	575.9	525.1	425.5	340.7	460.1	523.7	679.8	861.8	856.8
min	6.4	5.0	5.5	2.5	1.1	0.6	0.6	1.0	1.0	2.2	4.3	5.5	0.6	2.2
<b>Initial Spread Index, ISI</b>														
mean	7.9	6.9	6.2	4.9	4.1	3.3	3.1	3.3	5.8	6.4	7.4	7.7	5.6	6.8
median	4.4	4.1	3.6	2.7	2.3	1.8	1.5	1.8	3.4	3.8	4.2	4.4	3.1	3.8
max	69.6	44.0	45.5	31.6	27.5	28.2	30.1	24.2	34.2	49.7	43.0	43.9	69.6	69.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	40.5	47.8	40.1	25.8	16.3	6.3	4.4	5.6	11.5	17.0	26.1	32.8	22.9	32.8
median	35.8	38.4	28.4	19.1	11.7	4.1	3.2	3.7	9.5	12.0	21.3	28.1	14.8	25.4
max	143.4	129.0	136.3	140.0	141.3	48.7	17.6	36.2	43.7	87.4	88.8	90.2	143.4	143.4
min	0.0	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.7	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	14.9	14.8	12.1	8.1	5.6	2.9	2.4	2.8	6.3	8.3	11.6	13.2	8.6	11.9
median	10.7	11.1	8.6	4.6	2.9	0.7	0.6	0.7	3.8	5.1	7.9	8.7	4.5	8.1
max	84.9	77.2	65.6	64.7	48.1	32.6	26.9	34.0	42.2	50.4	62.5	62.7	84.9	84.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	5.3	5.1	3.7	2.1	1.2	0.4	0.3	0.4	1.3	2.1	3.6	4.3	2.5	3.7
median	1.8	1.9	1.2	0.4	0.2	0.0	0.0	0.0	0.3	0.5	1.0	1.3	0.4	1.1
max	70.6	59.7	44.7	43.7	25.8	13.0	9.2	14.0	20.5	28.1	41.1	41.2	70.6	70.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	159.1	141.0	108.0	63.0	36.3	13.6	9.2	12.2	37.9	63.7	107.2	133.9	73.8	110.8
max	334.0	420.6	252.0	284.2	164.4	51.7	25.7	62.3	92.3	264.0	319.7	426.8	426.8	426.8
min	25.1	34.6	30.5	10.7	4.5	0.5	1.1	1.0	8.0	7.9	20.4	20.1	0.5	7.9
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													885.1	796.8
max													1747.8	1804.2
min													504.1	247.4

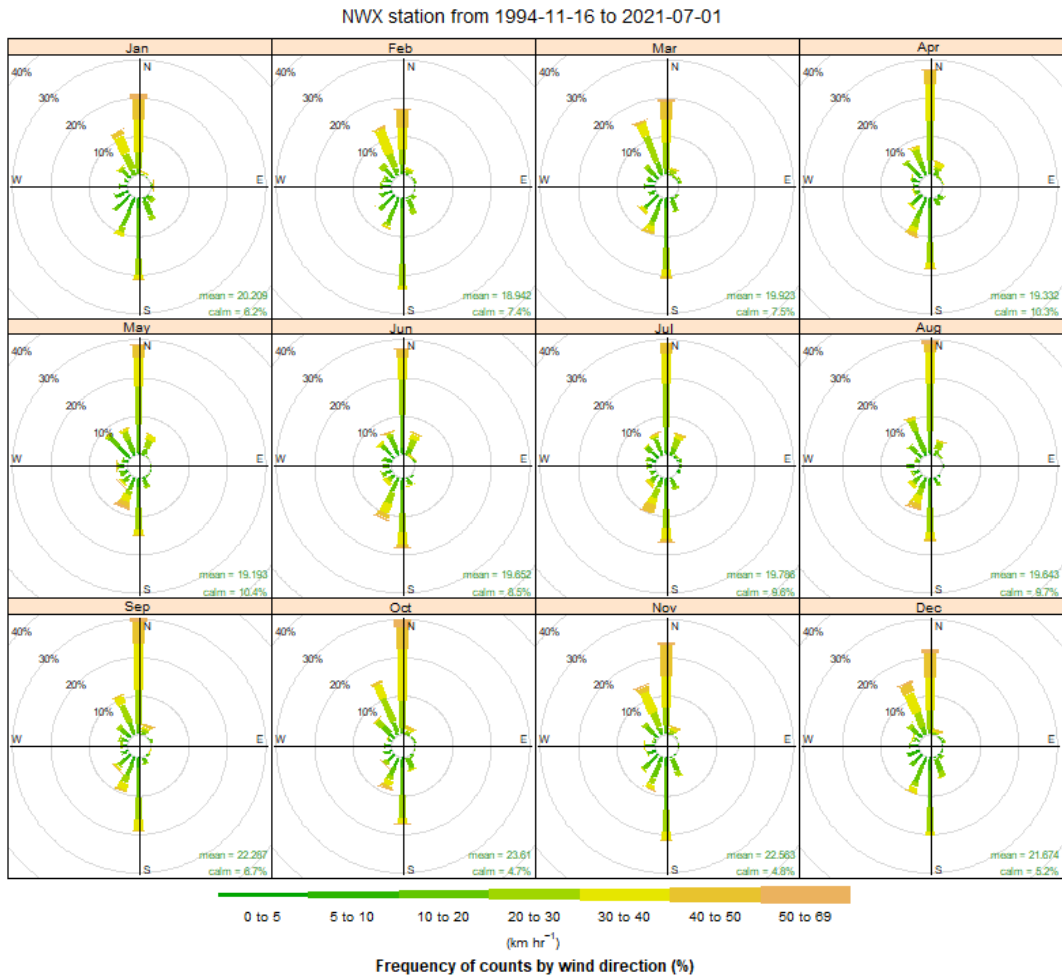
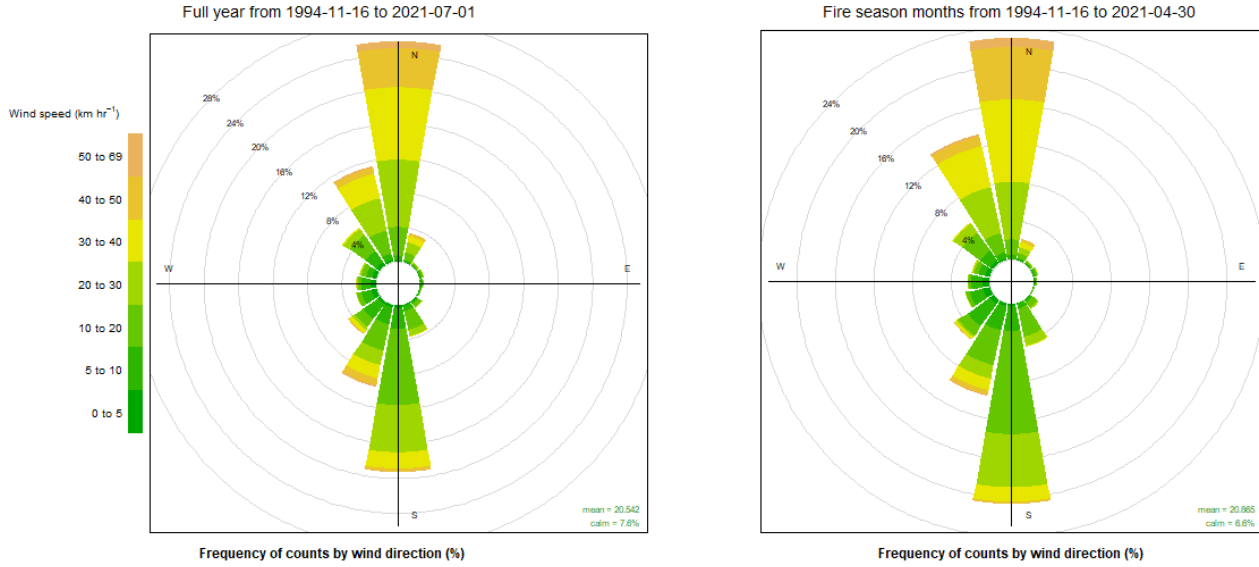
Station Name: Ngawihi (NWX)

Period: 1994-11-16 - 2021-07-01

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	9.7	7.9	10.6	16.3	21.0	26.3	28.7	27.4	19.5	17.7	12.2	10.1	207.4	82.5
max	23	18	20	27	31	30	31	31	30	30	23	21	261	130
min	1	0	1	2	5	17	22	6	6	1	2	1	115	22
<b>Moderate</b>														
mean	10.7	10.8	12.8	9.5	7.8	3.5	2.3	3.5	9.2	9.9	11.0	12.3	103.2	77.7
max	15	17	19	17	21	12	9	22	20	21	19	19	157	100
min	5	3	5	2	0	0	0	0	0	1	5	5	60	49
<b>High</b>														
mean	4.9	4.8	4.3	2.7	1.4	0.2	0.0	0.1	1.1	2.2	3.7	4.1	29.5	26.8
max	10	11	11	9	7	3	0	2	5	10	8	10	53	46
min	0	0	0	0	0	0	0	0	0	0	0	0	15	9
<b>Very High</b>														
mean	2.5	1.8	1.3	0.7	0.2	0.0	0.0	0.0	0.1	0.8	1.7	1.7	10.9	10.5
max	7	6	4	5	3	1	0	1	1	6	7	6	25	24
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<b>Extreme</b>														
mean	2.5	2.0	1.6	0.7	0.4	0.0	0.0	0.0	0.0	0.3	1.2	2.4	11.2	11.3
max	11	5	8	5	5	0	0	0	1	7	8	12	29	39
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<b>Very Extreme</b>														
mean	0.8	1.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	3.2	3.5
max	7	8	5	4	1	0	0	0	0	2	4	5	16	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Wairarapa (Wairarapa)														
Curing%	90	95	95	80	60	50	45	45	50	65	70	80		
<b>Low</b>														
mean	2.8	1.8	2.8	3.7	7.4	8.7	9.9	8.8	4.6	4.5	3.9	2.9	61.7	21.7
max	7	6	6	13	17	17	26	19	11	12	11	9	91	37
min	0	0	0	0	0	1	1	0	0	0	0	0	21	8
<b>Moderate</b>														
mean	9.8	8.8	10.6	15.2	18.7	16.6	17.3	17.5	16.1	15.7	13.2	11.4	170.8	84.5
max	17	16	18	23	25	23	24	22	22	22	20	20	192	105
min	5	3	4	8	10	9	4	10	9	10	5	3	154	59
<b>High</b>														
mean	9.1	9.4	9.3	6.4	4.7	4.4	3.8	4.6	8.1	7.7	6.7	8.8	83.0	58.2
max	15	22	17	12	9	13	10	9	13	14	11	15	115	85
min	2	5	2	3	0	0	1	1	4	2	2	2	62	39
<b>Very High</b>														
mean	3.2	3.2	3.3	3.2	0.2	0.3	0.1	0.1	1.2	2.9	4.3	3.1	25.2	23.1
max	7	6	5	7	2	3	1	1	4	6	11	7	33	31
min	1	0	1	0	0	0	0	0	0	0	0	0	17	15
<b>Extreme</b>														
mean	4.9	4.2	4.3	1.6	0.0	0.0	0.0	0.0	0.0	0.3	1.8	4.7	21.7	22.1
max	12	9	10	5	0	0	0	0	0	3	9	12	38	52
min	1	1	1	0	0	0	0	0	0	0	0	0	11	7
<b>Very Extreme</b>														
mean	1.2	0.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.9	2.7
max	3	3	3	0	0	0	0	0	0	0	0	2	9	11
min	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.4	3.4	4.2	5.7	8.0	9.9	10.9	10.3	5.4	5.6	5.3	4.3	77.5	32.1
max	11	11	9	14	17	20	28	19	11	12	12	9	117	50
min	0	0	0	0	1	1	1	0	0	0	0	1	33	12
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.2	0.1	0.0	0.0	0.1	0.7	0.3
max	1	1	0	1	0	0	1	1	1	0	0	1	3	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.2	1.5	2.0	2.5	2.7	3.2	3.4	2.5	2.2	2.1	1.9	1.4	27.7	13.2
max	6	5	5	6	8	8	11	7	7	7	5	6	46	22
min	0	0	0	0	0	0	0	0	0	0	0	0	8	3
<b>Very High</b>														
mean	2.2	2.3	2.7	4.1	3.7	3.6	3.1	4.0	3.2	2.3	2.2	2.5	35.9	18.2
max	7	6	8	11	10	7	8	9	8	6	5	5	52	35
min	0	0	0	1	1	1	0	0	0	0	0	0	17	7
<b>Extreme</b>														
mean	6.5	7.2	9.1	6.9	6.5	5.7	5.6	5.5	5.9	6.7	5.8	6.3	77.6	49.3
max	12	14	17	13	13	11	12	10	13	12	12	11	99	67
min	3	1	3	1	2	1	0	0	1	1	1	1	51	23
<b>Very Extreme</b>														
mean	15.7	13.8	13.0	10.7	10.0	7.7	7.8	8.5	13.2	14.3	14.8	16.3	145.8	99.2
max	22	24	21	20	19	16	16	18	22	21	26	25	183	132
min	6	8	6	4	1	0	2	2	7	5	10	9	127	75

Windroses for Ngawihi (NWX)



Station Name: Paraparaumu Aero SYNOP  
(PPA)

Period: 1963-01-01 - 2020-07-01

Length of record: 57 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	19.5	19.9	18.8	16.6	14.3	12.2	11.4	12.0	13.3	14.5	16.1	18.1	15.6	17.7
median	19.4	20.0	19.0	17.0	14.4	12.1	11.4	12.0	13.4	15.0	16.0	18.0	15.4	18.0
max	28.0	28.8	28.6	25.1	21.0	18.5	17.6	19.0	21.1	22.0	25.0	28.0	28.8	28.8
min	11.0	10.0	8.8	6.5	6.8	5.0	4.0	4.0	5.5	6.4	8.0	10.0	4.0	6.4
<b>Relative Humidity, %</b>														
mean	68.7	68.2	68.3	69.5	72.0	73.4	73.0	71.6	70.9	71.2	69.7	69.9	70.5	69.3
median	68.9	68.2	68.2	69.5	71.8	73.0	72.6	71.1	71.0	71.0	70.0	70.0	70.4	69.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	23.2	30.6	35.0	34.4	32.7	38.5	37.2	31.0	29.9	32.5	32.0	29.9	23.2	23.2
<b>Wind Speed, km/h</b>														
mean	21.2	19.9	19.3	18.6	18.8	18.0	17.9	19.6	21.3	22.4	22.3	21.1	20.0	20.7
median	20.0	19.0	19.0	19.0	19.0	19.0	18.5	19.0	20.0	22.0	22.0	20.0	20.0	20.0
max	63.0	54.0	61.0	89.0	74.0	59.0	56.0	57.4	70.0	63.0	70.4	55.6	89.0	89.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	2.2	2.1	2.1	2.6	3.1	3.4	3.3	3.1	2.8	3.2	2.6	2.7	2.8	2.5
median	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
max	66.0	64.6	97.9	94.0	110.4	75.8	76.2	65.3	64.4	91.6	72.3	76.6	110.4	97.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	67.7	58.5	66.0	79.5	94.4	101.0	102.0	96.4	83.3	98.2	78.1	85.1	84.2	76.2
max	156.5	363.4	221.6	202.8	220.0	190.0	233.1	245.3	214.5	310.8	204.0	228.3	363.4	363.4
min	9.2	2.1	11.7	13.2	26.0	10.6	23.4	21.6	16.0	16.6	5.8	15.2	2.1	2.1
<b>Seasonal Rainfall, millimetres</b>														
mean													1010.4	532.4
max													1408.6	996.3
min													634.4	268.1
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	77.1	77.8	76.2	73.7	69.0	65.0	64.5	66.2	69.3	69.5	73.3	73.3	71.2	74.4
median	83.1	83.8	83.3	81.5	77.4	72.4	71.6	72.9	76.0	76.9	80.1	80.6	79.3	81.7
max	91.2	91.3	89.8	88.6	87.3	86.8	86.5	87.1	87.6	88.2	89.3	89.6	91.3	91.3
min	6.2	1.9	0.0	0.9	1.3	1.1	2.1	7.2	2.6	2.0	0.0	9.1	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	16.9	21.6	18.5	11.1	5.4	2.6	2.2	2.8	4.7	6.0	10.6	13.2	9.6	13.9
median	14.6	18.4	14.2	9.6	4.2	1.9	1.6	2.2	3.8	5.0	8.6	10.3	6.2	10.6
max	74.8	75.8	103.0	65.8	37.1	15.5	15.2	16.4	20.6	27.5	48.4	77.6	103.0	103.0
min	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	211.0	280.9	297.3	252.9	167.0	78.3	35.0	20.7	20.9	32.2	74.7	142.3	134.3	184.2
median	210.2	284.8	302.9	237.6	143.0	50.7	12.5	9.9	14.2	26.6	68.9	135.6	91.0	160.9
max	475.2	594.5	656.0	660.2	629.6	439.0	252.9	147.1	151.2	130.3	283.1	405.5	660.2	660.2
min	6.8	5.2	5.1	2.7	1.1	0.8	0.4	0.7	0.7	2.4	4.0	5.6	0.4	2.4
<b>Initial Spread Index, ISI</b>														
mean	4.8	4.8	4.2	3.4	2.8	2.1	2.0	2.3	3.0	3.2	3.9	3.9	3.4	4.0
median	4.4	4.5	3.9	3.0	2.2	1.7	1.6	1.8	2.5	2.7	3.4	3.4	2.8	3.6
max	36.7	28.1	22.3	22.3	22.0	17.8	22.2	21.1	28.9	19.9	24.1	24.0	36.7	36.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	27.2	35.1	30.8	19.4	9.5	4.3	3.3	3.6	5.7	7.8	15.1	20.5	15.1	22.2
median	24.3	30.8	25.0	17.1	7.4	3.2	2.3	2.7	4.5	6.6	12.5	16.7	9.6	17.2
max	102.5	110.9	145.2	105.4	64.6	25.1	20.0	19.0	27.9	35.7	67.8	104.9	145.2	145.2
min	0.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	8.7	10.2	8.4	5.4	2.9	1.4	1.2	1.5	2.4	3.1	5.3	6.3	4.7	6.8
median	7.8	9.4	7.3	4.4	1.7	0.6	0.5	0.6	1.1	2.1	4.2	5.0	2.6	5.3
max	61.1	42.2	42.9	32.8	25.8	17.5	21.8	13.5	27.4	28.6	36.1	49.1	61.1	61.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.8	2.3	1.7	0.8	0.3	0.1	0.1	0.1	0.2	0.4	0.8	1.1	0.8	1.3
median	1.0	1.4	0.9	0.4	0.1	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.1	0.5
max	39.5	20.5	21.1	13.1	8.6	4.3	6.3	2.7	9.5	10.3	15.5	26.8	39.5	39.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	55.3	64.0	54.2	24.9	10.3	3.5	2.7	3.5	7.0	11.3	25.1	34.9	24.7	38.5
max	216.7	188.2	278.4	66.9	36.1	19.2	17.6	18.2	29.5	38.3	102.0	204.4	278.4	278.4
min	13.9	3.8	6.4	4.0	0.6	0.3	0.1	0.3	0.9	1.0	2.9	3.3	0.1	1.0
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													296.6	269.4
max													726.8	663.0
min													94.8	87.1

Station Name: Paraparaumu Aero SYNOP  
(PPA)

Period: 1963-01-01 - 2020-07-01

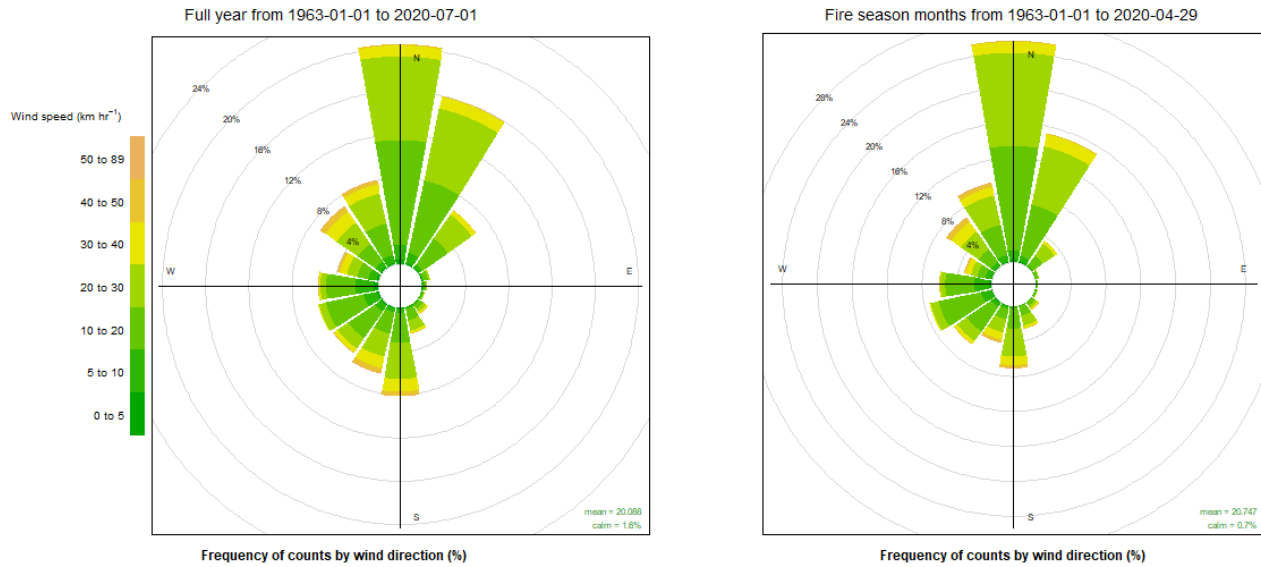
Length of record: 57 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	10.6	8.1	12.0	16.9	25.9	29.2	30.6	30.4	27.7	26.3	18.5	16.3	252.4	108.5
max	23	28	29	30	31	30	31	31	30	31	30	30	320	166
min	1	0	0	2	11	21	25	21	14	13	0	1	193	58
<b>Moderate</b>														
mean	16.5	14.7	14.7	12.3	4.9	0.8	0.4	0.6	2.3	4.7	10.6	12.7	95.4	86.5
max	25	24	24	24	19	9	6	10	16	17	24	22	154	123
min	8	1	2	0	0	0	0	0	0	0	0	1	46	45
<b>High</b>														
mean	3.1	4.3	3.3	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.8	1.7	14.1	13.9
max	13	15	15	4	2	0	0	0	0	1	12	17	42	40
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.5	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	2.4	2.4
max	7	7	8	1	0	0	0	0	0	0	1	7	16	16
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9	0.9
max	5	3	10	1	0	0	0	0	0	0	0	2	15	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	1	0	0	0	0	0	0	0	0	0	0	1	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Wellington (Wellington West)														
Curing%	60	70	60	40	20	20	20	20	30	40	40	50		
<b>Low</b>														
mean	2.7	2.2	3.3	4.6	8.8	11.4	12.0	10.7	6.4	5.6	3.6	4.0	75.2	25.9
max	7	10	10	12	16	20	23	21	14	11	8	8	104	48
min	0	0	0	0	3	3	4	4	1	0	0	0	56	13
<b>Moderate</b>														
mean	24.2	14.9	24.4	24.0	22.0	18.5	19.0	20.2	23.1	23.7	23.9	22.5	260.4	157.8
max	29	23	30	29	28	27	27	27	29	29	30	27	287	176
min	17	6	16	17	15	10	8	10	15	18	19	11	240	139
<b>High</b>														
mean	4.0	10.7	3.3	1.4	0.2	0.1	0.0	0.1	0.5	1.7	2.4	4.4	29.0	27.9
max	13	20	10	4	1	2	1	2	5	8	10	17	55	50
min	0	1	0	0	0	0	0	0	0	0	0	0	5	8
<b>Very High</b>														
mean	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.6
max	1	3	0	0	0	0	0	0	0	0	1	1	3	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	1	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.7	3.3	4.3	5.7	8.3	9.9	10.9	9.7	7.6	7.7	5.3	5.8	82.2	35.7
max	9	15	11	14	17	18	21	21	16	14	11	14	110	60
min	0	0	0	1	3	2	3	3	1	2	0	1	59	21
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.1
max	0	0	0	1	0	1	1	1	0	1	0	0	2	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.8	0.8	1.1	1.5	2.0	3.0	2.5	2.8	1.6	1.6	1.0	1.2	19.9	8.1
max	5	3	4	5	8	8	7	8	4	5	4	7	40	20
min	0	0	0	0	0	0	0	0	0	0	0	0	10	3
<b>Very High</b>														
mean	2.6	1.8	3.0	3.3	4.5	5.0	5.4	4.7	3.8	3.7	3.3	3.1	44.3	21.0
max	6	9	8	8	10	10	10	10	11	10	9	7	66	41
min	0	0	0	0	1	2	2	0	0	0	0	0	30	13
<b>Extreme</b>														
mean	8.1	7.1	8.8	10.2	9.5	8.3	8.9	8.8	9.4	8.9	8.5	9.0	105.5	60.6
max	15	16	16	19	19	15	19	14	17	20	15	14	131	82
min	1	1	1	4	3	3	2	3	4	4	3	3	78	41
<b>Very Extreme</b>														
mean	15.9	15.2	13.7	9.3	6.8	3.7	3.3	4.9	7.6	9.1	11.9	11.9	113.2	86.9

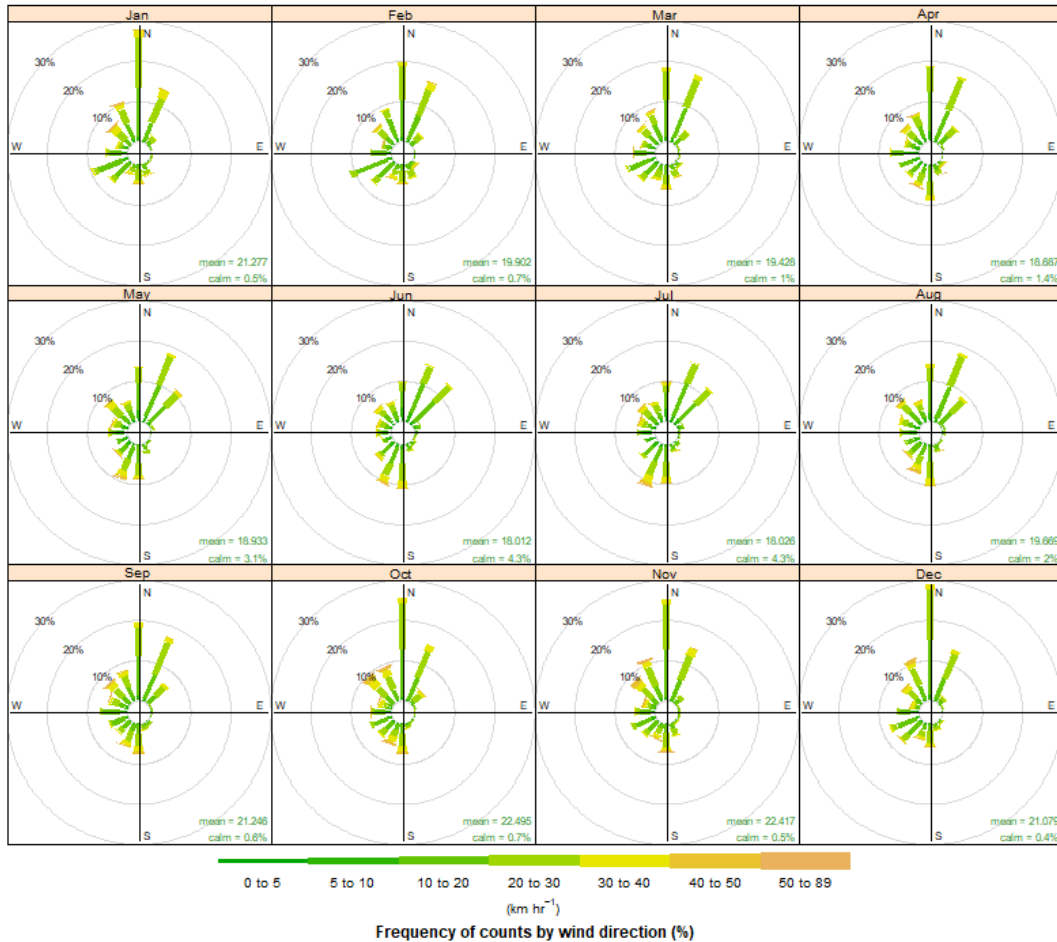


max	27	23	25	17	17	15	9	13	17	17	25	26	168	118
min	5	4	3	2	1	0	0	1	1	0	1	3	70	46

Windroses for Paraparaumu Aero SYNOP (PPA)



PPA station from 1963-01-01 to 2020-07-01



Station Name: Remutaka Forest Park Raws  
(RFP)

Period: 1994-08-03 - 2021-07-01

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	21.3	21.7	20.1	17.5	15.0	12.5	11.6	12.8	14.3	15.8	17.4	19.8	16.6	19.1
median	21.4	22.0	20.4	18.0	15.2	12.7	11.8	13.0	14.4	16.0	17.5	19.8	16.5	19.1
max	32.2	29.9	29.7	28.3	25.7	20.4	18.3	21.6	21.8	24.9	26.4	31.0	32.2	32.2
min	10.3	10.1	10.1	6.6	4.4	3.9	4.2	1.1	6.3	6.2	7.1	9.2	1.1	6.2
<b>Relative Humidity, %</b>														
mean	63.4	63.0	64.8	69.7	75.4	79.8	78.4	72.8	69.2	67.8	65.1	65.2	69.5	65.6
median	61.3	60.9	62.5	68.2	75.0	81.0	79.0	72.0	68.0	65.7	63.0	63.0	68.0	64.0
max	99.0	100.0	98.0	98.0	99.0	100.0	100.0	100.0	100.0	98.0	100.0	97.4	100.0	100.0
min	31.0	29.0	33.0	32.0	35.9	39.0	35.0	24.0	34.0	29.0	24.0	27.0	24.0	24.0
<b>Wind Speed, km/h</b>														
mean	15.8	15.1	14.4	13.0	12.2	11.2	11.9	12.8	15.5	16.5	17.1	16.4	14.3	15.5
median	14.8	14.4	13.8	11.9	11.5	10.0	11.2	11.8	15.3	16.6	16.9	15.9	13.4	14.8
max	38.1	42.5	42.1	35.0	34.9	36.6	41.0	37.7	44.0	42.3	42.8	44.0	44.0	44.0
min	2.5	0.0	1.8	0.5	0.3	0.0	0.0	0.0	1.1	0.0	1.8	1.1	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	2.7	2.6	3.1	4.0	4.6	5.1	5.8	4.8	3.8	3.9	3.6	2.9	3.9	3.3
median	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0
max	94.4	103.8	108.4	132.2	83.6	140.8	150.6	124.2	88.0	85.2	107.4	75.8	150.6	132.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	86.5	74.8	98.1	123.0	143.2	150.4	181.2	151.9	115.3	120.2	106.1	93.2	120.3	100.3
max	200.8	379.8	229.0	451.2	382.8	299.6	596.0	434.2	249.2	222.8	307.6	281.0	596.0	451.2
min	7.0	15.4	17.0	13.0	50.6	42.4	42.8	39.4	4.4	38.0	13.9	40.8	4.4	7.0
<b>Seasonal Rainfall, millimetres</b>														
mean													1444.0	694.5
max													2023.0	1135.4
min													985.6	299.9
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	76.2	76.9	73.9	68.1	60.3	51.7	52.6	58.5	66.3	67.1	71.9	73.4	66.4	72.5
median	84.5	84.4	83.7	78.3	69.1	53.4	56.7	64.5	75.4	75.5	81.6	82.3	76.6	82.1
max	91.9	91.3	91.0	89.9	88.8	86.2	85.4	88.0	88.5	90.0	92.2	91.0	92.2	92.2
min	7.0	12.4	3.1	3.8	5.4	1.4	3.5	2.5	2.2	6.8	1.8	10.8	1.4	1.8
<b>Duff Moisture Code, DMC</b>														
mean	19.9	22.8	19.5	10.3	4.4	1.7	1.2	2.7	5.7	6.6	12.7	16.8	10.3	15.5
median	16.9	19.4	15.1	6.9	3.0	0.9	0.7	1.6	4.6	5.2	10.3	13.8	6.0	11.7
max	89.1	90.0	86.0	46.0	38.5	18.8	9.8	16.3	26.7	30.9	53.7	86.5	90.0	90.0
min	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	196.9	255.2	254.5	185.5	103.7	35.6	9.8	12.8	17.9	24.8	67.7	137.4	108.0	159.4
median	201.2	247.6	249.2	120.9	34.6	9.6	5.8	7.2	12.4	20.4	59.9	125.1	45.7	122.4
max	441.4	579.5	654.1	706.7	700.0	272.4	79.0	80.0	81.8	109.2	236.8	385.6	706.7	706.7
min	6.0	5.0	3.7	2.1	1.0	0.4	0.5	0.0	1.0	2.1	3.7	5.6	0.0	2.1
<b>Initial Spread Index, ISI</b>														
mean	4.5	4.5	3.8	2.4	1.6	1.0	0.9	1.5	2.4	2.7	3.7	3.9	2.7	3.6
median	4.2	3.9	3.5	1.9	1.0	0.4	0.5	0.9	1.7	2.0	3.1	3.4	1.8	3.0
max	19.3	19.9	14.7	12.3	10.4	7.7	6.6	9.3	13.5	19.2	23.8	18.3	23.8	23.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	30.5	36.1	31.4	17.2	7.3	2.6	1.7	3.3	6.3	7.7	16.8	24.8	15.4	23.4
median	26.8	32.5	25.2	10.9	4.5	1.3	1.0	2.0	5.0	6.2	14.2	21.2	8.4	17.8
max	116.4	117.8	110.4	79.1	67.7	31.4	11.7	18.3	29.4	34.1	66.7	105.8	117.8	117.8
min	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	9.1	9.8	8.0	3.9	1.6	0.6	0.4	1.0	2.2	2.7	5.5	7.1	4.3	6.6
median	8.0	8.0	6.3	1.6	0.5	0.1	0.1	0.3	0.8	0.9	4.2	5.7	1.0	4.4
max	44.9	49.8	35.7	24.5	16.1	8.4	6.6	10.6	18.4	19.5	28.7	36.9	49.8	49.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.0	2.4	1.7	0.6	0.2	0.0	0.0	0.1	0.2	0.3	0.9	1.4	0.8	1.3
median	1.1	1.1	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.4
max	22.8	27.5	15.3	7.8	3.7	1.2	0.8	1.8	4.7	5.2	10.3	16.1	27.5	27.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	63.2	69.0	53.8	19.0	4.7	1.0	0.6	1.8	6.6	10.0	28.6	43.9	25.2	41.1
max	210.5	217.3	153.0	95.7	15.6	5.5	4.0	6.5	28.8	33.6	95.5	173.4	217.3	217.3
min	15.9	6.6	9.8	0.3	0.1	0.0	0.0	0.1	0.4	1.5	1.8	5.3	0.0	0.3
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													302.2	283.7
max													656.3	594.2
min													114.8	74.8

Station Name: Remutaka Forest Park Raws  
(RFP)

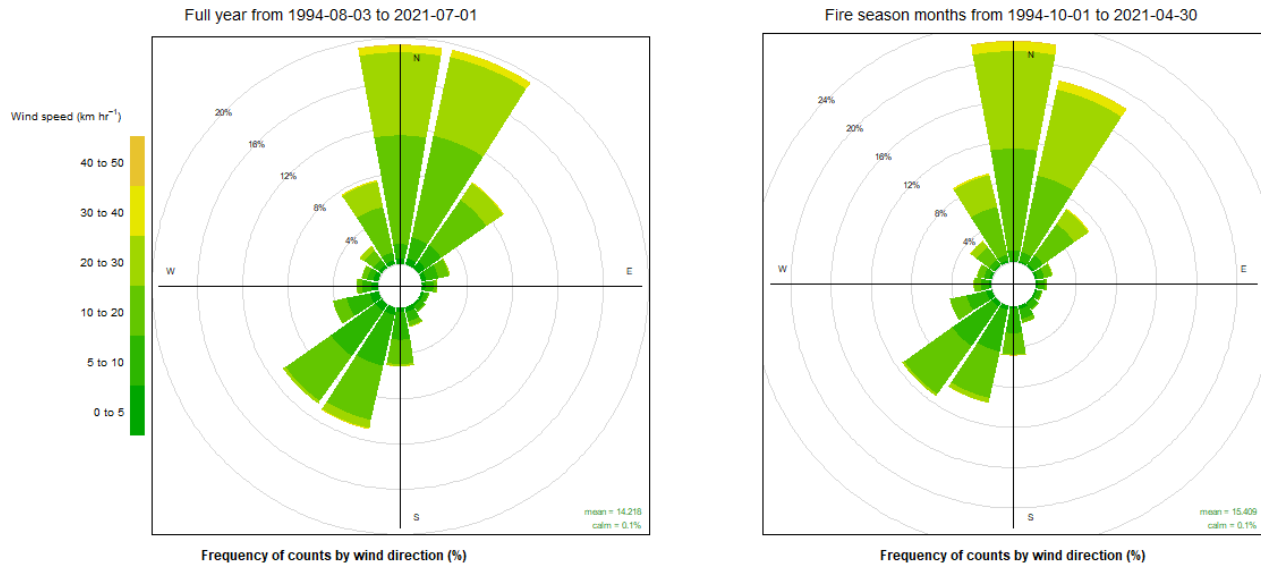
Period: 1994-08-03 - 2021-07-01

Length of record: 26 years

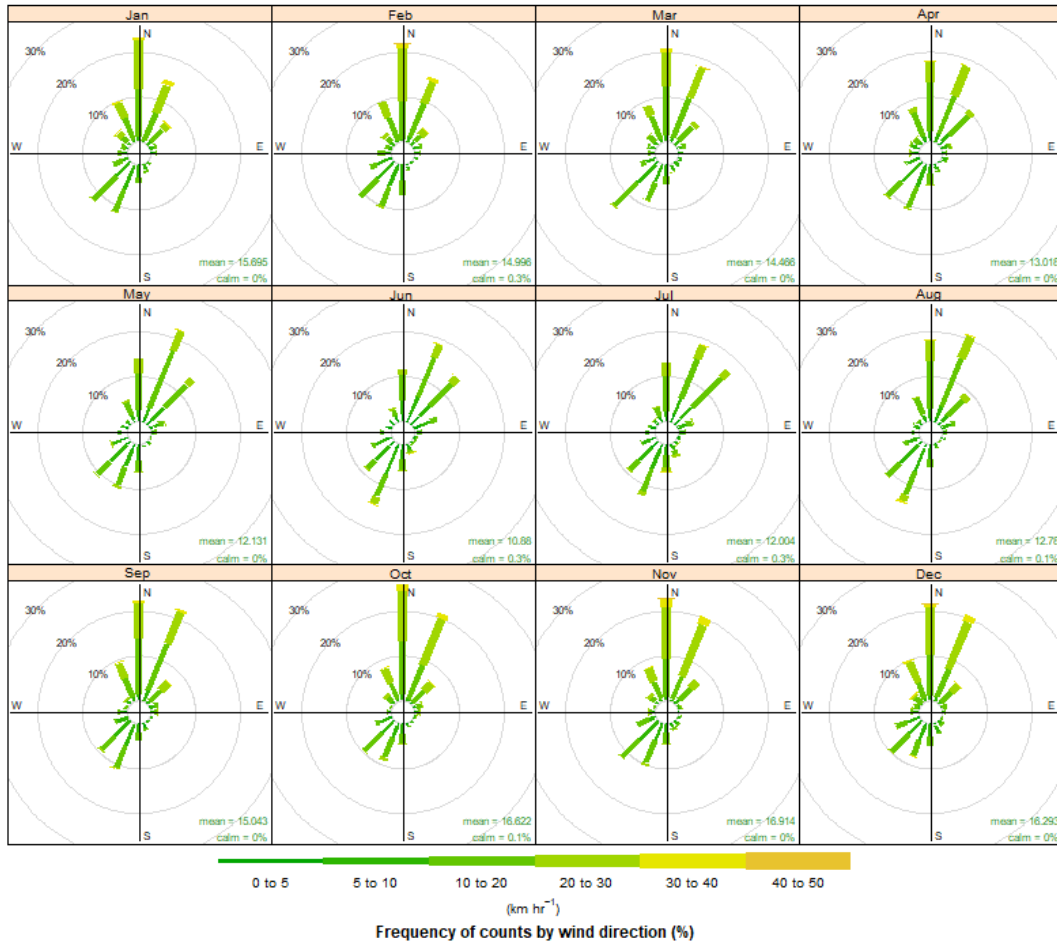
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	11.5	10.1	13.7	22.0	28.6	29.7	31.0	30.8	27.5	26.3	17.8	14.9	264.0	116.3
max	19	24	27	30	31	30	31	31	30	31	30	29	304	169
min	1	1	3	2	21	25	30	29	17	15	2	7	216	63
<b>Moderate</b>														
mean	13.6	11.3	12.6	6.7	2.3	0.3	0.0	0.2	2.5	4.7	10.8	12.9	78.0	73.3
max	22	19	23	20	10	5	1	2	13	15	25	21	109	102
min	9	5	4	0	0	0	0	0	0	0	0	2	58	42
<b>High</b>														
mean	4.7	4.8	3.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	17.8	17.3
max	14	12	15	12	1	0	0	0	1	1	8	10	50	54
min	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<b>Very High</b>														
mean	1.0	1.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	4.3	4.2
max	10	7	8	1	0	0	0	0	0	0	2	6	18	18
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.2	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	0.9
max	2	3	3	0	0	0	0	0	0	0	0	3	6	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	1	4	0	0	0	0	0	0	0	0	0	0	5	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source	Wellington (Wellington East)													
Curing%	60	70	50	30	20	20	20	20	30	40	50	60		
<b>Low</b>														
mean	4.9	3.4	5.4	9.7	15.7	20.5	20.6	17.6	9.4	8.6	5.7	5.9	127.3	43.3
max	9	9	13	23	26	29	30	26	20	14	17	13	176	71
min	0	0	1	1	4	9	8	8	2	3	0	1	105	22
<b>Moderate</b>														
mean	21.1	14.2	20.2	20.2	15.3	9.5	10.4	13.4	20.3	21.3	19.3	21.7	207.0	138.7
max	27	20	28	28	27	21	23	23	27	27	26	27	233	154
min	16	6	14	7	5	1	1	5	10	16	10	16	169	120
<b>High</b>														
mean	5.0	9.9	5.4	0.1	0.0	0.0	0.0	0.0	0.3	1.0	5.0	3.4	30.2	29.5
max	15	19	13	1	0	0	0	0	2	6	15	10	48	57
min	0	2	1	0	0	0	0	0	0	0	0	0	15	9
<b>Very High</b>														
mean	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
max	0	4	0	0	0	0	0	0	0	0	1	0	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.9	4.4	5.9	8.7	12.7	17.4	17.1	14.0	9.2	9.3	6.6	6.5	116.8	46.1
max	8	13	14	22	26	29	25	24	19	15	17	13	167	72
min	0	0	1	1	4	6	6	4	2	4	0	2	96	27
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	1	0	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.2	1.8	2.8	3.7	4.2	4.0	5.0	4.6	2.8	2.7	2.5	2.0	38.3	17.5
max	4	7	6	8	8	11	12	8	8	6	6	5	53	26
min	0	0	1	0	0	0	1	1	0	1	0	0	25	9
<b>Very High</b>														
mean	2.0	2.6	2.7	3.7	4.6	3.2	4.2	4.1	4.2	3.8	2.6	2.8	40.7	20.7
max	5	5	6	7	11	6	10	8	8	8	5	7	54	29
min	0	0	0	0	1	0	0	2	1	2	0	0	28	13
<b>Extreme</b>														
mean	6.4	5.8	6.8	8.0	6.9	4.3	4.0	6.3	7.8	7.0	7.4	7.2	78.0	49.7
max	13	14	15	12	15	9	12	13	16	11	14	13	95	70
min	1	2	3	3	1	0	0	1	2	3	3	2	56	34
<b>Very Extreme</b>														
mean	15.4	13.6	12.7	5.8	2.7	1.0	0.7	2.0	6.0	8.1	10.9	12.5	91.3	78.3

max	26	25	22	17	7	8	6	9	12	14	22	21	120	116
min	6	4	6	0	0	0	0	0	0	2	2	5	58	34

Windroses for Remutaka Forest Park Raws (RFP)



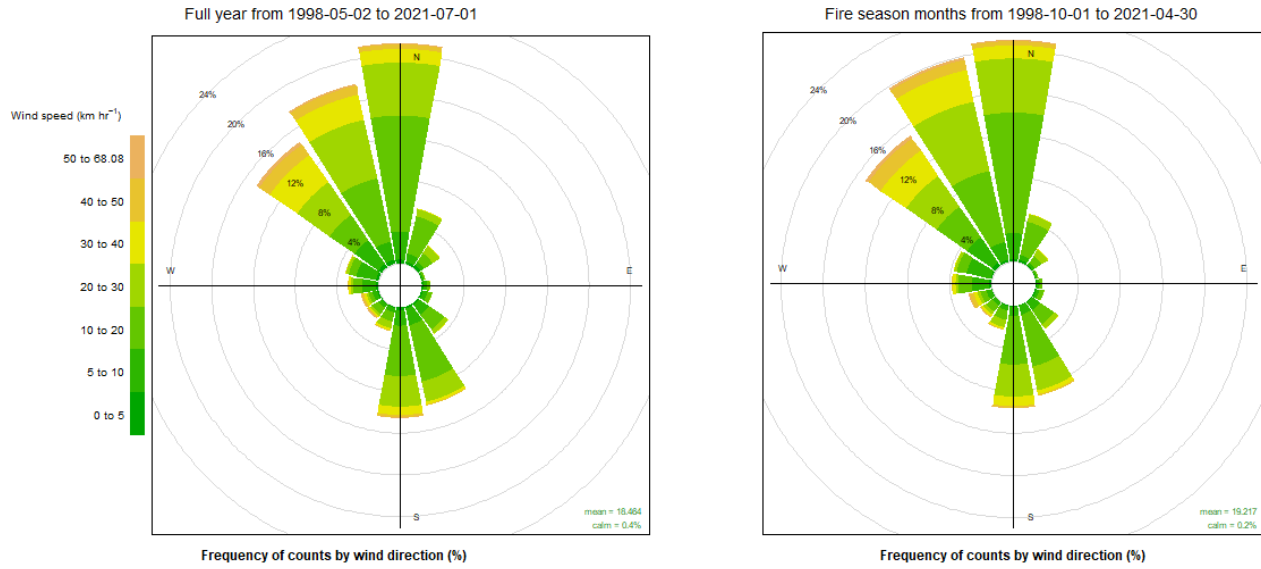
RFP station from 1994-08-03 to 2021-07-01



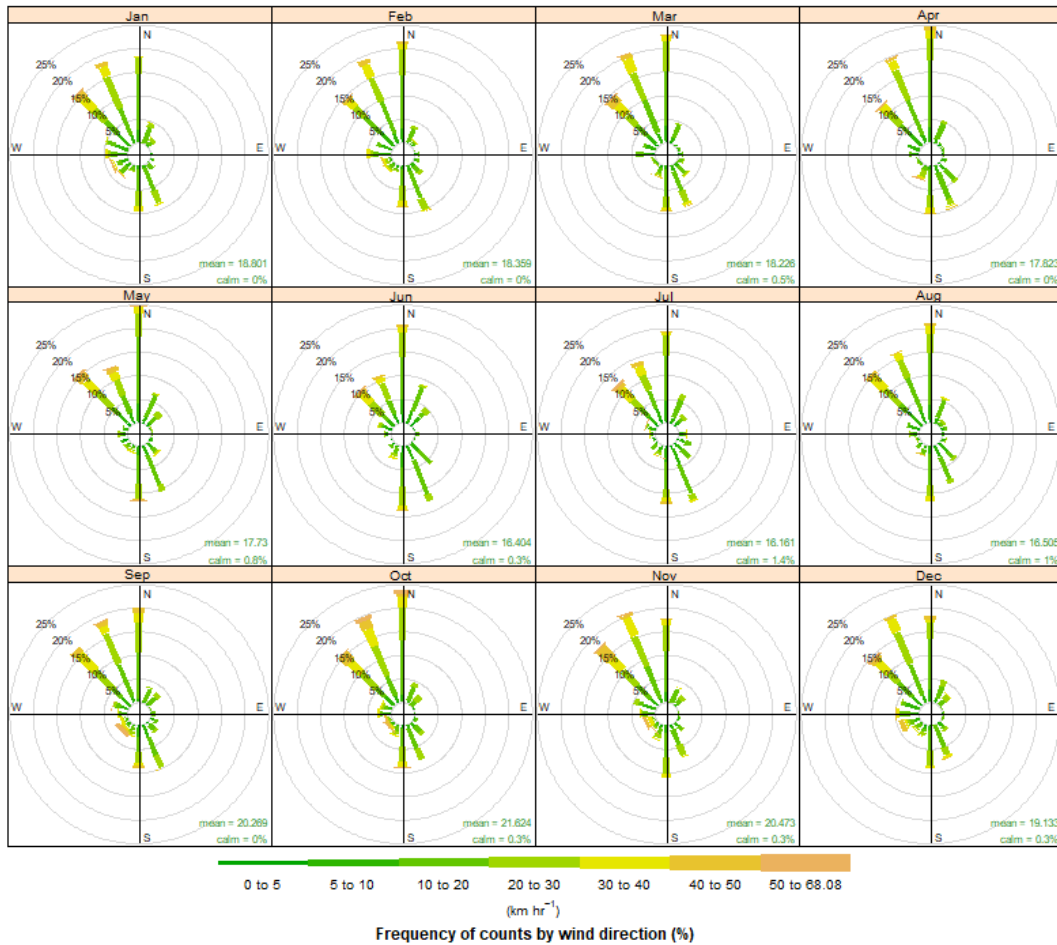
Station Name: Titahi Bay Raws (TTB)													Period: 1998-05-02 - 2021-07-01		Length of record: 23 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	19.5	19.8	18.8	16.3	14.5	12.5	11.7	12.1	13.2	14.5	16.3	18.3	15.6	17.6		
median	19.6	20.0	19.1	16.9	14.8	12.8	12.0	12.4	13.5	14.8	16.4	18.3	15.4	17.8		
max	29.1	26.2	24.5	23.0	21.1	18.6	17.2	18.0	20.0	20.7	23.8	26.8	29.1	29.1		
min	10.5	10.2	10.3	6.0	2.3	3.2	2.9	2.6	5.3	5.6	6.7	10.3	2.3	5.6		
<b>Relative Humidity, %</b>																
mean	68.5	66.9	68.1	70.3	72.3	73.5	72.2	72.2	71.8	71.7	68.4	69.6	70.5	69.1		
median	69	66	68	70	72	73	72	72	72	71	67	69	70	69		
max	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0		
min	33	32	36	38	35	37	32	43	34	34	36	36	32	32		
<b>Wind Speed, km/h</b>																
mean	19.1	18.9	18.1	17.4	17.9	16.9	16.2	16.9	21.0	21.8	20.8	19.7	18.7	19.4		
median	17.3	17.2	16.1	15.9	16.2	14.8	14.4	14.8	18.9	20.4	19.0	17.5	16.7	17.5		
max	68.1	60.2	67.2	62.9	61.3	58.9	55.0	65.0	60.5	60.8	66.3	59.3	68.1	68.1		
min	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0		
<b>24-hr Rainfall, millimeters</b>																
mean	1.8	2.1	2.0	2.2	3.1	3.3	3.3	3.1	2.3	3.3	2.4	2.6	2.6	2.3		
median	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0		
max	45.3	74.9	68.6	58.8	96.6	54.1	73.6	85.4	49.0	74.9	76.4	72.2	96.6	76.4		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	57.1	59.3	61.1	66.7	97.0	101.8	101.9	99.3	68.8	93.5	72.6	83.0	80.2	70.5		
max	122.3	328.4	133.5	168.9	219.7	213.9	234.9	204.1	133.2	159.2	192.6	176.6	328.4	328.4		
min	2.9	10.4	19.4	12.4	43.4	24.0	24.8	39.5	17.3	31.7	8.9	15.3	2.9	2.9		
<b>Seasonal Rainfall, millimetres</b>																
mean													962.0	493.4		
max													1358.4	804.8		
min													579.7	190.2		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	77.2	78.2	75.9	73.8	68.1	63.6	63.1	65.1	69.7	68.6	73.8	73.1	70.8	74.3		
median	83.3	84.2	83.5	81.4	76.4	70.8	68.0	70.9	76.7	75.9	81.4	80.4	79.0	81.9		
max	89.7	89.9	89.4	87.6	87.6	87.2	85.5	86.6	87.4	87.6	88.8	88.8	89.9	89.9		
min	9.3	9.1	4.2	1.6	2.2	7.2	12.0	11.1	8.9	1.6	5.3	13.8	1.6	1.6		
<b>Duff Moisture Code, DMC</b>																
mean	19.4	25.4	20.4	13.1	6.7	2.8	2.0	3.0	5.2	6.1	12.7	15.2	10.9	16.0		
median	16.1	22.0	18.1	10.0	4.4	2.1	1.5	2.3	4.4	4.6	10.5	10.9	6.3	11.8		
max	69.9	75.9	61.8	55.3	38.9	13.8	12.1	15.7	19.9	23.1	53.1	78.6	78.6	78.6		
min	0.3	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0		
<b>Drought Code, DC</b>																
mean	240.4	317.2	342.7	302.6	207.8	104.0	49.7	34.4	36.8	37.6	88.0	162.0	159.4	211.8		
median	225.9	318.5	361.6	280.6	171.7	48.8	14.4	12.1	17.1	25.7	84.8	145.9	110.0	181.6		
max	517.7	638.5	648.2	686.8	706.4	578.3	311.4	317.6	247.2	212.6	281.7	406.8	706.4	686.8		
min	6.8	4.8	4.0	3.3	1.3	0.7	0.7	0.2	1.1	2.0	3.7	5.9	0.2	2.0		
<b>Initial Spread Index, ISI</b>																
mean	4.4	4.8	4.1	3.1	2.7	2.0	1.8	2.0	3.1	3.2	4.1	3.7	3.2	3.9		
median	3.9	4.3	3.7	2.9	2.0	1.4	1.2	1.4	2.5	2.5	3.4	3.1	2.6	3.4		
max	20.6	28.8	20.3	21.9	24.2	17.8	17.6	14.1	20.3	26.0	25.7	23.5	28.8	28.8		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	31.0	41.1	34.4	22.6	11.9	4.9	2.9	4.1	6.6	7.8	18.1	23.4	17.2	25.3		
median	26.8	37.6	31.6	17.5	7.6	3.5	2.1	3.0	5.3	6.0	15.5	17.7	9.9	19.2		
max	91.9	103.2	90.5	79.8	68.4	25.3	20.8	18.3	26.8	28.0	65.4	96.2	103.2	103.2		
min	0.6	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	8.8	11.0	8.7	5.5	3.3	1.5	1.0	1.4	2.7	3.1	6.2	6.4	4.9	7.0		
median	8.0	9.7	7.7	4.1	1.4	0.6	0.4	0.5	1.6	1.8	4.9	4.7	2.5	5.3		
max	42.7	57.5	33.9	40.5	38.0	20.3	15.6	14.5	19.7	20.8	37.4	49.5	57.5	57.5		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	1.8	2.6	1.8	0.9	0.5	0.1	0.1	0.1	0.3	0.4	1.1	1.2	0.9	1.4		
median	1.1	1.5	1.0	0.3	0.1	0.0	0.0	0.0	0.1	0.1	0.5	0.4	0.1	0.5		
max	20.9	35.4	13.9	19.1	17.0	5.6	3.5	3.1	5.3	5.8	16.6	27.2	35.4	35.4		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	57.7	75.3	56.8	27.7	15.3	4.2	2.2	3.6	8.8	11.2	33.9	34.7	27.6	42.5		
max	157.7	290.4	139.3	95.9	70.8	20.2	10.3	14.3	27.8	30.5	120.5	140.3	290.4	290.4		
min	18.4	7.6	10.4	2.1	0.9	0.1	0.1	0.4	1.1	0.8	2.1	2.9	0.1	0.8		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													331.3	297.1		
max													769.3	787.6		
min													123.5	98.0		

Station Name: Titahi Bay Raws (TTB)      Period: 1998-05-02 - 2021-07-01      Length of record: 23 years														FIRE SEASON
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	10.5	7.5	12.1	17.3	25.0	28.8	30.8	30.2	27.1	26.0	16.3	17.0	248.5	105.7
max	22	26	27	30	31	30	31	31	30	31	30	31	305	155
min	1	0	1	2	9	21	28	25	15	14	0	1	183	48
<b>Moderate</b>														
mean	16.3	13.7	13.3	11.5	5.4	1.2	0.2	0.8	2.9	5.0	11.9	11.7	93.8	84.4
max	24	21	21	24	19	9	3	6	15	17	24	20	143	122
min	9	3	4	0	0	0	0	0	0	0	0	0	55	54
<b>High</b>														
mean	3.2	5.5	4.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	1.6	2.1	18.4	17.8
max	12	16	13	9	4	0	0	0	0	1	7	16	42	42
min	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Very High</b>														
mean	0.7	0.7	1.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.1	2.9	2.8
max	7	3	4	2	1	0	0	0	0	0	3	1	15	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.3	0.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.3
max	4	6	2	2	1	0	0	0	0	0	1	1	10	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	0	4	0	0	0	0	0	0	0	0	0	1	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Wellington (Wellington West)														
Curing%	60	70	60	40	20	20	20	20	30	40	40	50		
<b>Low</b>														
mean	3.4	2.4	3.9	4.5	10.3	13.0	14.4	12.9	6.7	6.2	4.2	4.6	86.4	28.7
max	9	8	9	12	19	21	21	21	15	11	10	10	117	52
min	0	0	0	0	4	7	5	7	1	1	0	0	63	10
<b>Moderate</b>														
mean	24.5	15.7	24.4	24.5	20.3	16.8	16.5	18.0	22.3	23.0	21.9	22.7	250.6	156.8
max	30	24	29	30	26	23	26	24	29	29	28	29	267	178
min	17	6	17	16	12	9	10	10	15	19	17	16	216	126
<b>High</b>														
mean	3.2	9.3	2.8	1.0	0.4	0.1	0.1	0.0	1.0	1.8	3.9	3.5	27.1	25.6
max	14	17	8	5	3	1	1	1	4	7	12	9	57	58
min	0	1	0	0	0	0	0	0	0	0	0	0	7	9
<b>Very High</b>														
mean	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	1.0
max	0	5	0	0	0	0	0	0	0	0	1	1	6	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	2	0	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.8	3.4	4.7	5.2	9.0	10.9	11.7	10.7	7.4	8.2	5.5	6.0	86.6	36.3
max	9	11	10	13	16	20	22	16	13	14	12	13	116	57
min	0	0	2	0	4	4	4	5	2	2	0	0	62	14
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	1	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.2	0.8	2.2	2.0	2.5	3.7	4.2	4.0	2.3	1.6	1.6	2.3	28.5	11.7
max	5	3	6	5	7	8	9	8	10	4	6	6	39	20
min	0	0	0	0	0	1	0	0	0	0	0	0	18	4
<b>Very High</b>														
mean	2.3	2.2	3.0	3.7	4.5	4.6	5.2	5.2	3.5	4.4	3.0	3.4	44.9	21.9
max	4	5	6	8	8	8	10	10	6	9	7	6	56	37
min	0	0	0	0	0	1	2	2	1	1	0	1	29	9
<b>Extreme</b>														
mean	9.5	7.5	8.6	11.6	9.3	7.2	7.5	7.3	9.4	7.9	8.8	8.7	103.3	62.8
max	19	15	14	19	15	12	16	16	16	14	17	13	132	77
min	3	2	3	7	3	2	2	4	2	3	3	5	77	42
<b>Very Extreme</b>														
mean	14.3	14.4	12.5	7.5	5.6	3.5	2.3	3.7	7.5	8.9	11.1	10.5	101.9	79.5
max	25	25	20	15	16	11	6	11	14	17	21	20	161	122
min	8	4	4	0	0	0	0	0	1	1	1	2	51	38

Windroses for Titahi Bay Raws (TTB)



TTB station from 1998-05-02 to 2021-07-01



Station Name: Wellington Aero SYNOP  
(WNA)

Period: 1961-01-01 - 2020-07-01

Length of record: 59 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	19.4	19.5	18.3	16.1	14.0	11.9	11.2	11.6	13.0	14.5	16.1	18.0	15.3	17.4
median	19.4	19.9	18.0	16.0	14.0	12.0	11.0	12.0	13.0	15.0	16.1	18.0	15.0	17.2
max	27.0	29.0	26.1	24.0	21.0	18.0	16.6	18.0	21.1	21.1	25.0	27.0	29.0	29.0
min	10.0	10.0	9.0	8.0	4.0	4.4	5.0	2.0	4.4	5.0	6.0	10.0	2.0	5.0
<b>Relative Humidity, %</b>														
mean	67.1	67.3	69.5	71.0	73.5	75.6	74.9	73.3	70.9	69.6	67.2	68.1	70.7	68.6
median	66.0	67.0	68.2	71.0	73.0	76.0	75.0	73.0	71.0	68.2	66.0	67.0	70.0	68.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	28.0	32.0	30.0	27.0	32.0	27.0	26.2	34.7	32.0	22.3	27.0	30.0	22.3	22.3
<b>Wind Speed, km/h</b>														
mean	31.2	29.5	28.9	27.8	27.5	26.9	26.2	27.4	30.0	32.6	32.8	31.7	29.4	30.6
median	30.0	28.0	28.0	26.0	26.0	26.0	24.0	26.0	30.0	32.0	32.0	31.5	28.0	30.0
max	76.0	78.0	85.0	119.0	106.0	96.0	89.0	89.0	79.6	83.0	89.0	102.0	119.0	119.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	2.1	1.8	2.2	2.7	3.1	3.6	3.5	3.2	2.7	2.8	2.4	2.3	2.7	2.3
median	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
max	100.6	57.8	97.6	85.5	98.5	70.0	95.6	149.4	53.7	58.1	89.6	83.4	149.4	100.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	65.4	52.7	68.2	83.0	96.1	106.5	109.8	99.1	79.5	85.3	72.4	71.4	82.5	71.2
max	218.8	295.6	221.1	306.2	208.4	181.6	257.5	233.9	176.8	228.4	187.1	179.0	306.2	306.2
min	6.8	4.3	9.1	11.2	20.6	21.3	17.0	31.3	7.6	3.1	7.6	14.2	3.1	3.1
<b>Seasonal Rainfall, millimetres</b>														
mean													989.5	496.9
max													1494.0	810.8
min													679.3	203.6
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	78.1	78.5	75.6	73.1	69.0	64.1	63.6	65.6	69.4	72.0	75.3	76.0	71.7	75.5
median	83.7	84.0	82.9	81.0	77.5	70.7	69.9	71.7	77.8	79.4	82.2	82.5	79.9	82.5
max	91.6	90.5	90.5	90.7	88.8	89.6	86.5	87.3	89.1	90.4	90.3	91.1	91.6	91.6
min	3.8	9.1	1.3	0.0	0.0	1.3	0.6	0.8	0.0	0.6	1.6	0.0	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	19.1	22.1	17.1	10.9	5.1	2.2	1.7	2.6	4.7	7.0	12.5	16.0	10.0	14.9
median	16.8	18.8	13.1	8.1	3.6	1.4	1.2	1.7	3.8	5.8	10.4	13.2	6.2	11.7
max	68.3	74.0	70.9	49.3	44.7	19.0	10.7	15.2	26.0	34.9	52.4	82.1	82.1	82.1
min	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	233.6	306.0	314.9	261.7	169.7	79.1	31.0	18.4	20.3	37.4	86.5	161.2	143.1	199.8
median	228.9	306.5	307.2	247.7	136.5	36.4	10.5	9.7	13.6	32.0	81.0	152.7	94.7	176.9
max	490.0	610.5	700.5	751.6	756.4	542.7	359.5	186.1	206.9	232.1	251.9	405.8	756.4	751.6
min	6.0	5.3	4.4	2.5	1.0	0.5	0.6	0.1	0.8	2.2	4.0	5.6	0.1	2.2
<b>Initial Spread Index, ISI</b>														
mean	9.1	8.5	7.1	5.7	4.3	3.2	2.9	3.4	5.0	6.4	7.9	8.0	5.9	7.5
median	7.1	6.8	5.2	4.1	3.1	2.0	1.9	2.3	3.7	4.7	6.3	6.2	4.2	5.7
max	50.0	39.0	35.5	33.1	29.9	22.5	21.4	20.4	30.4	30.7	33.9	35.5	50.0	50.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	30.8	36.4	29.1	19.0	9.0	3.7	2.5	3.3	5.6	9.1	17.7	24.7	15.9	23.8
median	27.7	31.9	22.9	14.6	6.4	2.4	1.7	2.3	4.5	7.6	15.6	21.2	9.6	19.1
max	99.3	111.3	111.0	84.6	77.9	31.8	14.8	17.2	39.5	48.7	66.0	100.2	111.3	111.3
min	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	15.0	15.6	12.0	8.2	4.3	2.2	1.7	2.3	4.1	6.4	10.4	12.4	7.9	11.4
median	13.1	13.8	9.6	5.9	2.5	0.7	0.6	0.8	2.6	4.5	8.7	10.4	4.5	9.1
max	63.5	77.3	55.8	47.2	40.2	19.9	17.0	18.8	32.6	32.9	44.2	59.3	77.3	77.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	4.5	4.8	3.4	1.9	0.7	0.2	0.2	0.3	0.6	1.2	2.6	3.4	2.0	3.1
median	2.6	2.8	1.5	0.6	0.1	0.0	0.0	0.0	0.1	0.4	1.2	1.7	0.4	1.3
max	42.3	59.8	33.6	25.0	18.8	5.4	4.1	4.9	12.9	13.2	22.2	37.4	59.8	59.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	140.7	135.6	103.1	55.6	21.3	7.1	5.0	7.9	18.1	37.7	76.8	106.0	59.6	93.7
max	359.8	344.9	413.4	207.2	68.2	26.2	21.3	30.6	96.1	125.1	224.5	440.2	440.2	440.2
min	27.7	18.5	17.5	5.5	3.3	0.8	0.1	0.5	1.7	3.3	13.9	23.7	0.1	3.3
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													715.0	662.1
max													1246.1	1348.3
min													296.3	294.1



Station Name: Wellington Aero SYNOP  
(WNA)

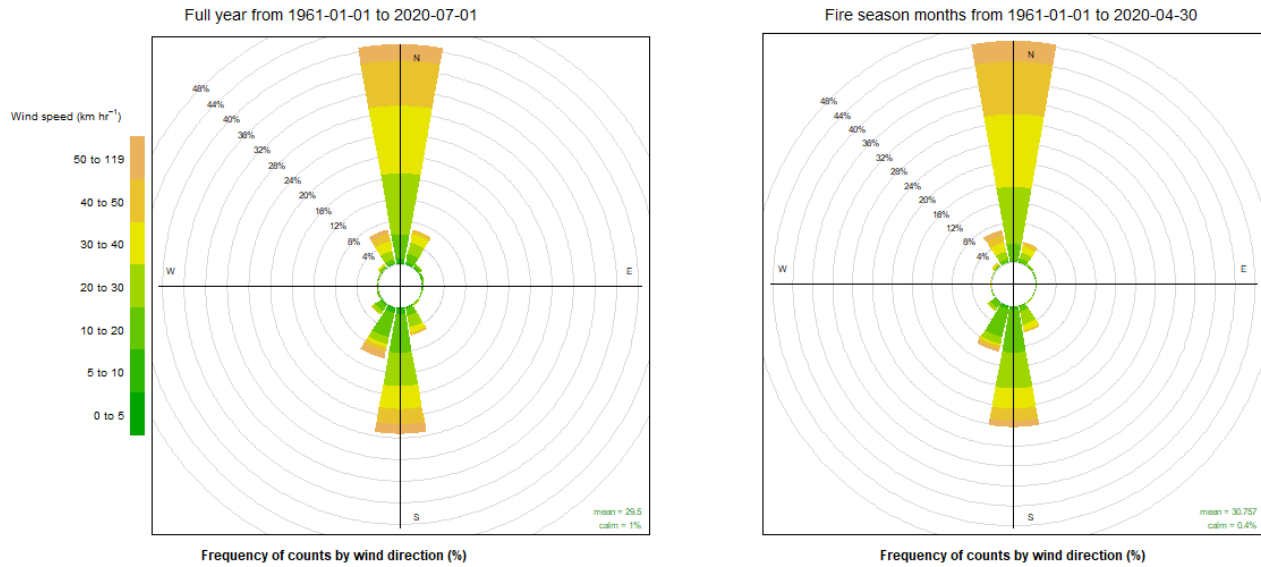
Period: 1961-01-01 - 2020-07-01

Length of record: 59 years

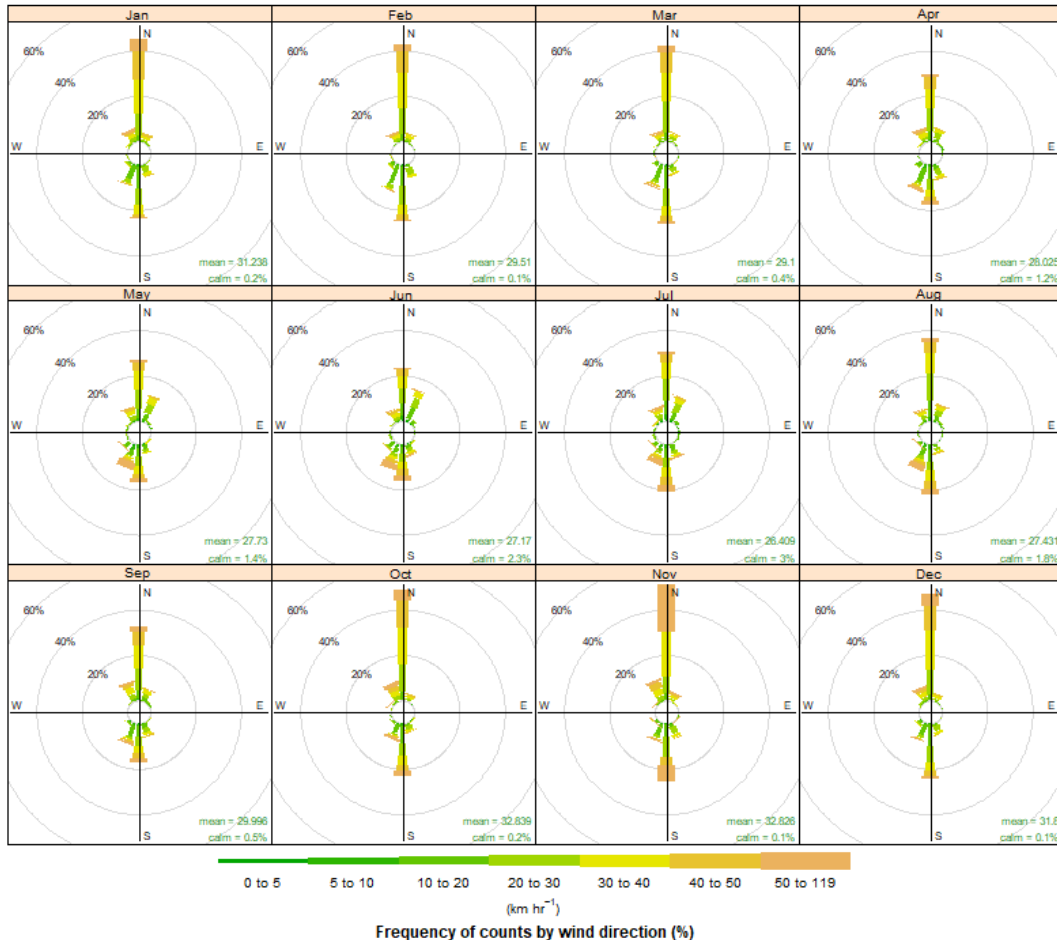
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	7.2	6.2	10.6	15.3	24.3	28.6	30.5	29.4	25.5	20.8	11.9	9.6	219.9	80.9
max	19	22	26	29	31	30	31	31	30	31	27	25	282	121
min	0	0	0	1	10	18	25	19	9	6	0	1	172	30
<b>Moderate</b>														
mean	12.5	11.1	12.9	10.9	6.1	1.4	0.5	1.6	4.3	9.3	13.3	14.1	97.9	84.0
max	20	18	22	22	17	12	6	12	19	20	23	20	135	109
min	4	2	3	1	0	0	0	0	0	0	3	4	63	52
<b>High</b>														
mean	6.9	6.4	4.3	2.8	0.6	0.0	0.0	0.0	0.1	0.8	3.9	4.8	30.5	30.2
max	16	17	14	11	6	0	0	0	7	6	11	12	59	62
min	0	0	0	0	0	0	0	0	0	0	0	0	11	10
<b>Very High</b>														
mean	2.8	2.4	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.4	9.7	9.8
max	8	7	7	9	1	0	0	0	2	4	4	6	27	33
min	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Extreme</b>														
mean	1.5	1.9	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	6.3	6.4
max	7	9	14	5	0	0	0	0	0	0	5	9	20	20
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.2	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.9
max	5	6	4	0	0	0	0	0	0	0	0	7	8	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Wellington (Wellington West)														
Curing%	60	70	60	40	20	20	20	20	30	40	40	50		
<b>Low</b>														
mean	2.1	1.5	2.9	3.8	7.4	10.0	11.0	9.5	5.6	3.8	2.6	2.5	62.7	19.1
max	6	7	10	10	17	21	21	19	14	10	7	10	92	38
min	0	0	0	0	0	1	0	2	0	0	0	0	40	5
<b>Moderate</b>														
mean	15.2	9.9	18.1	19.2	22.2	19.4	19.7	20.7	20.2	17.3	15.5	14.3	211.6	109.3
max	22	18	26	26	30	27	31	28	27	22	21	22	249	135
min	9	3	7	14	12	8	10	12	15	10	8	8	170	85
<b>High</b>														
mean	12.4	10.9	9.7	6.8	1.4	0.6	0.4	0.8	4.2	9.6	11.0	11.5	79.2	72.1
max	20	17	23	15	9	3	2	3	10	21	17	17	106	100
min	5	5	3	0	0	0	0	0	0	2	4	5	58	52
<b>Very High</b>														
mean	1.3	5.2	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.9	2.6	10.9	10.9
max	6	11	4	2	0	0	0	0	0	3	6	10	25	23
min	0	1	0	0	0	0	0	0	0	0	0	0	1	2
<b>Extreme</b>														
mean	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
max	0	4	0	0	0	0	0	0	0	0	0	0	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.3	2.7	4.2	5.8	8.0	10.5	11.3	10.1	7.4	6.2	4.3	4.2	78.1	30.5
max	8	8	12	13	17	25	21	21	18	14	10	12	115	49
min	0	0	0	1	2	3	3	2	0	0	0	0	54	11
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	1	0	0	1	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.4	0.3	0.6	1.0	1.5	2.3	2.5	2.0	0.8	0.8	0.4	0.4	12.9	3.9
max	4	3	3	3	6	6	7	6	3	3	3	4	24	12
min	0	0	0	0	0	0	0	0	0	0	0	0	4	1
<b>Very High</b>														
mean	1.4	1.4	1.9	2.1	2.7	3.3	3.4	3.0	2.1	1.9	1.3	1.5	25.9	11.4
max	6	4	6	6	7	7	8	7	6	5	6	5	39	23
min	0	0	0	0	0	0	1	0	0	0	0	0	12	3
<b>Extreme</b>														
mean	4.2	4.5	6.2	6.8	7.1	5.8	6.3	6.8	6.0	5.4	4.6	4.8	68.6	36.5
max	8	9	12	17	13	12	11	13	15	13	9	9	91	52
min	1	1	1	1	3	1	1	2	0	1	1	1	45	21
<b>Very Extreme</b>														
mean	21.7	19.2	18.1	14.4	11.7	8.1	7.5	9.0	13.7	16.7	19.3	20.1	179.5	130.0

max	29	28	28	25	20	18	18	20	21	28	27	27	220	167
min	13	12	8	5	5	1	0	2	4	7	8	12	150	101

Windroses for Wellington Aero SYNOP (WNA)



WNA station from 1961-01-01 to 2020-07-01



Station Name: Hira Raws (HIR)

Period: 1993-12-07 - 2021-07-01

Length of record: 27 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	20.6	20.8	18.9	15.8	13.2	10.5	9.8	11.0	13.0	15.0	16.9	18.9	15.4	18.1
median	20.7	20.9	18.9	15.9	13.3	10.5	9.9	11.1	12.9	15.0	16.8	18.9	15.1	18.0
max	32.9	31.2	27.6	22.3	21.3	17.2	17.2	19.4	24.7	24.0	26.2	29.7	32.9	32.9
min	10.9	11.6	8.4	6.4	5.6	2.1	4.1	4.8	3.0	4.1	8.4	7.1	2.1	4.1
<b>Relative Humidity, %</b>														
mean	66.4	65.8	67.4	72.4	75.4	77.8	75.1	74.4	71.8	68.8	65.8	67.8	70.8	67.8
median	64.0	64.6	66.0	71.0	74.0	77.0	75.0	74.0	71.0	67.0	65.0	66.0	70.0	66.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	18.3	17.1	24.0	24.0	35.0	37.0	6.0	17.8	11.0	23.0	15.1	17.3	6.0	15.1
<b>Wind Speed, km/h</b>														
mean	12.3	11.3	11.2	9.5	8.5	7.7	8.2	8.7	10.7	12.4	13.3	12.4	10.5	11.8
median	10.8	10.4	10.4	8.4	6.8	5.5	6.1	7.2	9.2	11.1	11.5	11.2	9.0	10.4
max	51.1	48.7	45.2	41.0	41.7	50.0	45.4	47.7	43.0	48.0	53.6	48.0	53.6	53.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	2.9	2.6	2.8	3.2	3.3	3.9	3.1	3.0	3.2	3.5	2.8	3.1	3.1	3.0
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	124.4	112.6	117.5	96.5	94.2	77.8	125.2	62.2	100.0	133.0	64.0	80.4	133.0	133.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	91.6	71.0	83.9	95.1	101.8	116.1	96.9	93.1	97.2	108.6	84.0	97.2	94.7	90.2
max	263.5	285.5	175.8	278.0	169.0	395.6	341.2	194.5	340.8	361.2	234.6	199.0	395.6	361.2
min	4.5	3.4	12.8	5.4	19.8	17.0	8.4	5.4	0.0	24.0	8.6	9.6	0.0	3.4
<b>Seasonal Rainfall, millimetres</b>														
mean													1136.5	636.7
max													1723.9	1039.4
min													468.4	267.1
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	73.3	74.6	72.0	65.9	60.3	54.7	58.6	56.4	62.1	66.0	69.9	68.8	65.2	70.1
median	83.6	83.9	82.6	77.2	71.7	63.4	68.9	64.8	74.4	77.0	80.3	80.5	77.1	81.1
max	93.6	94.2	92.3	90.6	89.0	87.4	91.0	88.9	92.7	91.5	95.1	94.2	95.1	95.1
min	0.0	2.6	0.6	0.9	0.2	0.3	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	20.1	26.1	20.0	10.6	5.6	2.7	2.8	3.0	6.4	10.3	15.7	18.8	11.8	17.4
median	17.8	19.1	14.0	7.6	3.6	1.5	2.1	1.9	4.4	7.2	11.9	13.2	6.5	12.3
max	71.0	119.5	87.8	62.0	38.4	24.4	13.3	23.2	42.3	69.8	67.2	93.1	119.5	119.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	197.2	248.4	243.3	189.4	124.4	58.6	34.1	24.9	30.5	46.3	94.2	156.5	121.1	168.1
median	195.6	239.7	231.4	147.7	80.8	15.3	10.7	8.7	14.7	29.7	83.9	142.2	73.8	138.7
max	576.0	582.2	660.0	667.3	537.8	478.3	307.7	219.7	257.8	243.0	315.4	502.1	667.3	667.3
min	5.9	5.8	4.5	2.4	1.2	0.1	0.7	0.7	0.2	2.4	4.0	5.1	0.1	2.4
<b>Initial Spread Index, ISI</b>														
mean	3.7	3.4	3.1	1.9	1.3	1.0	1.2	1.2	1.7	2.5	3.5	3.2	2.3	3.0
median	2.9	3.0	2.5	1.4	1.0	0.7	0.8	0.7	1.3	1.6	2.2	2.1	1.5	2.1
max	45.8	41.4	27.3	24.0	14.4	18.4	13.5	17.5	16.8	33.2	57.7	42.4	57.7	57.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	30.9	39.5	31.7	17.7	9.0	4.1	3.9	3.9	7.7	12.3	21.3	27.5	17.4	25.8
median	28.1	30.8	23.0	12.5	5.5	2.2	2.7	2.3	4.9	8.9	17.3	20.2	9.5	19.2
max	108.6	155.8	128.6	100.7	65.1	30.2	20.7	36.7	48.3	73.0	87.4	126.8	155.8	155.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	7.7	8.0	6.7	3.2	1.5	0.7	0.8	0.9	1.7	3.2	5.9	6.2	3.9	5.8
median	6.1	6.3	4.3	0.9	0.4	0.2	0.3	0.3	0.6	0.9	3.5	3.4	0.8	3.4
max	61.6	52.9	42.5	31.8	19.2	13.4	10.5	17.0	14.8	54.4	66.9	52.7	66.9	66.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.7	1.7	1.4	0.4	0.1	0.0	0.1	0.1	0.2	0.5	1.3	1.4	0.7	1.2
median	0.7	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.2
max	40.1	30.6	20.7	12.4	5.1	2.7	1.7	4.1	3.2	32.1	46.3	30.4	46.3	46.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	54.1	49.5	45.4	13.9	4.8	1.5	1.6	2.2	5.1	15.5	38.1	42.4	22.8	37.0
max	162.5	199.9	191.4	74.4	24.5	12.5	7.7	16.4	23.8	85.7	216.5	148.8	216.5	216.5
min	1.9	4.0	3.1	0.4	0.0	0.0	0.0	0.0	0.0	1.0	0.1	1.9	0.0	0.1
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													274.0	256.3
max													576.1	657.3
min													22.6	37.2

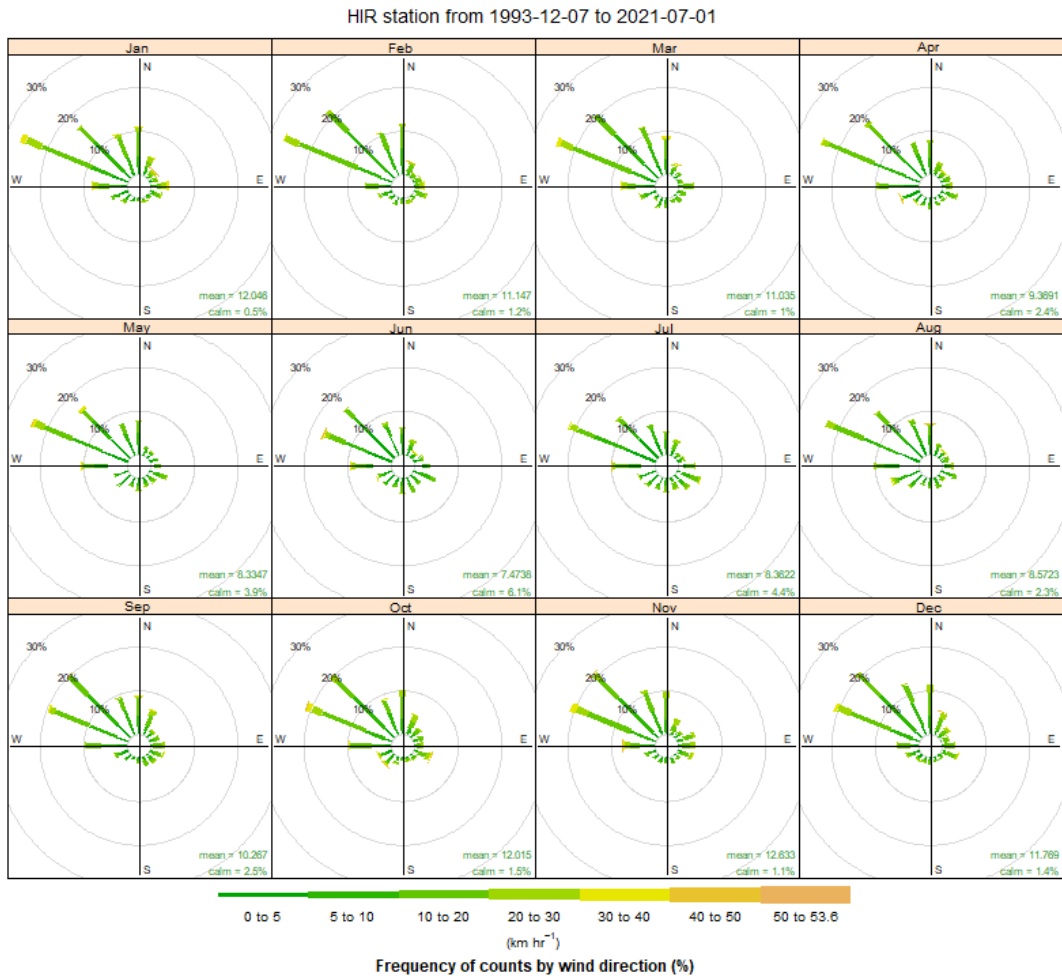
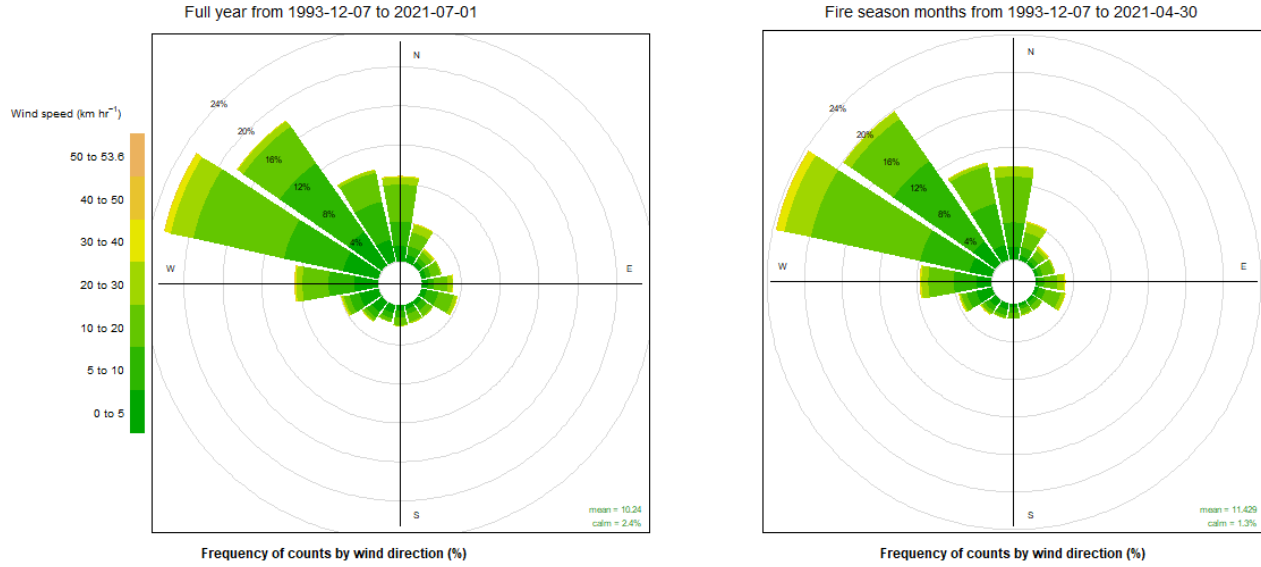
Station Name: Hira Raws (HIR)

Period: 1993-12-07 - 2021-07-01

Length of record: 27 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	13.2	11.8	15.9	21.9	28.3	29.3	30.5	29.9	27.3	24.6	17.6	17.6	267.8	123.5
max	30	27	31	30	31	30	31	31	30	31	30	30	350	180
min	2	1	3	4	15	20	24	16	10	12	2	0	197	56
<b>Moderate</b>														
mean	14.0	12.5	11.2	7.7	2.7	0.7	0.5	1.1	2.7	5.9	9.9	10.3	79.0	70.4
max	25	21	20	24	16	10	7	15	20	16	21	22	123	108
min	1	2	0	0	0	0	0	0	0	0	0	1	15	32
<b>High</b>														
mean	2.9	3.3	3.1	0.3	0.0	0.0	0.0	0.0	0.0	0.4	1.8	2.4	14.3	14.1
max	9	22	20	3	1	0	0	0	0	5	9	14	43	43
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.6	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.6	2.8	2.8
max	6	3	8	1	0	0	0	0	0	2	3	5	15	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.3	1.3
max	3	3	3	0	0	0	0	0	0	0	5	2	7	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	1	2	0	0	0	0	0	0	0	1	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Nelson (Nelson/Tasman)														
Curing%	80	90	95	80	60	50	40	40	50	65	70	80		
<b>Low</b>														
mean	5.0	3.7	5.0	7.6	13.4	14.2	14.0	15.2	10.7	8.6	6.3	7.0	110.7	43.6
max	14	9	12	17	26	26	27	26	27	19	20	21	166	75
min	0	0	1	0	3	5	1	1	0	3	0	0	66	11
<b>Moderate</b>														
mean	14.6	11.3	13.2	18.9	17.3	15.5	16.8	15.5	18.7	20.2	17.1	14.5	193.7	111.0
max	25	19	22	26	28	24	30	30	30	27	25	19	230	144
min	8	5	2	11	5	4	4	5	3	11	7	8	135	73
<b>High</b>														
mean	9.6	11.7	10.7	3.3	0.2	0.3	0.2	0.3	0.6	1.8	5.5	8.2	52.3	49.3
max	20	22	24	16	1	2	2	5	5	8	14	18	96	105
min	0	2	2	0	0	0	0	0	0	0	0	0	4	1
<b>Very High</b>														
mean	1.3	1.2	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.9	0.9	6.3	6.1
max	6	4	5	3	0	0	0	0	0	4	7	5	23	27
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.5	0.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	2.1	2.1
max	4	4	7	1	0	0	0	0	0	1	2	3	11	11
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	1	1	1	0	0	0	0	0	0	0	0	1	1	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	5.9	4.9	6.9	8.8	12.4	13.7	12.8	14.2	11.2	9.3	7.2	8.5	115.7	51.7
max	15	11	14	19	23	26	28	23	27	19	24	21	165	79
min	0	0	2	0	3	6	0	0	0	3	0	0	65	16
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.2
max	0	1	1	2	1	1	2	0	0	0	1	1	6	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.9	2.5	2.8	4.9	5.3	7.1	6.2	6.1	3.7	4.2	3.0	3.4	52.2	24.3
max	9	7	8	12	15	14	14	10	8	9	7	11	87	43
min	0	0	0	0	0	2	1	1	0	1	0	0	30	7
<b>Very High</b>														
mean	3.1	3.3	3.5	5.3	5.6	4.7	5.7	4.3	4.9	4.7	4.3	3.4	52.8	28.1
max	6	7	9	10	12	10	16	10	12	10	10	7	71	46
min	1	0	0	0	0	0	0	0	0	1	0	0	34	16
<b>Extreme</b>														
mean	9.0	8.3	9.3	8.0	6.1	3.7	5.1	5.1	7.4	7.6	6.8	6.6	83.1	55.5
max	20	14	14	17	18	13	14	16	17	14	15	13	120	77
min	4	1	0	0	0	0	0	0	0	3	0	1	44	34
<b>Very Extreme</b>														
mean	10.1	9.3	8.5	3.0	1.5	0.8	1.1	1.3	2.8	5.1	8.7	9.0	61.1	52.4
max	20	19	21	15	7	3	7	8	11	17	20	21	103	109
min	0	0	0	0	0	0	0	0	0	0	0	0	1	3

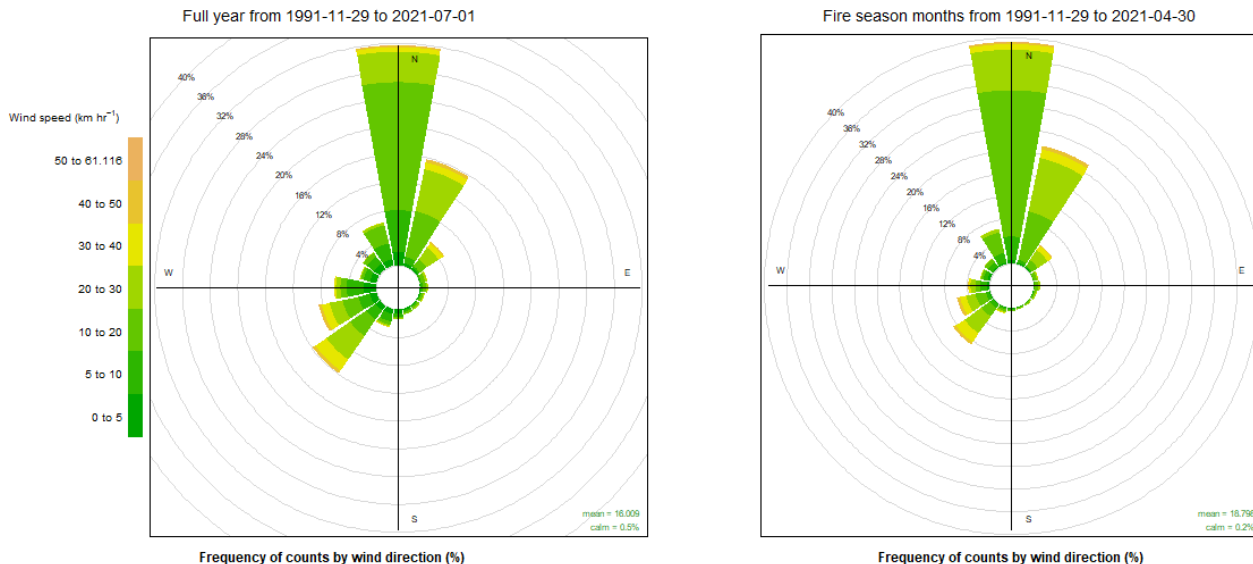
### Windroses for Hira Raws (HIR)



Station Name: Nelson Aero (NSA)													Period: 1963-01-01 - 2021-07-01		Length of record: 58 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	20.7	20.9	19.5	16.8	13.8	10.9	10.2	11.6	13.5	15.4	17.2	19.1	15.8	18.5		
median	21.0	21.0	19.7	17.0	14.0	11.0	10.0	11.6	13.5	15.0	17.0	19.0	16.0	18.6		
max	31.1	33.0	28.0	25.0	21.0	18.5	25.0	20.0	21.0	24.0	26.0	28.0	33.0	33.0		
min	13.0	12.0	9.0	9.0	6.0	3.8	4.4	5.0	6.6	7.7	11.0	10.0	3.8	7.7		
<b>Relative Humidity, %</b>																
mean	64.8	64.4	64.9	66.2	69.7	73.0	72.3	69.7	67.3	66.9	65.9	67.5	67.7	65.8		
median	65.0	65.0	65.0	66.0	69.0	73.0	72.0	70.0	67.0	67.1	67.0	69.0	68.0	66.0		
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
min	18	21	12	31	28	29	21	29	29	26	19	25	12	12		
<b>Wind Speed, km/h</b>																
mean	21.6	19.1	17.1	13.7	11.4	9.6	9.3	11.9	16.8	20.3	22.5	22.3	16.3	19.5		
median	20.4	18.5	15.0	11.1	7.4	5.7	6.0	9.3	14.8	19.0	22.0	22.0	15.0	18.5		
max	64.8	55.6	66.7	57.4	64.8	57.0	59.3	57.4	59.3	66.7	63.0	63.0	66.7	66.7		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>24-hr Rainfall, millimeters</b>																
mean	2.2	2.0	2.4	3.0	3.2	3.2	2.9	2.9	2.7	2.7	2.5	2.7	2.7	2.5		
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
max	138.4	97.8	145.2	113.8	94.0	84.2	83.2	137.4	85.0	78.4	95.4	148.0	148.0	148.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	70.2	57.5	74.4	88.7	97.4	96.3	91.4	91.4	81.6	82.3	73.6	83.6	82.4	75.8		
max	253.6	228.8	214.7	315.8	354.2	432.5	335.9	257.7	229.3	210.8	221.5	445.2	445.2	445.2		
min	4.0	2.9	8.2	3.4	15.6	10.2	8.4	15.0	12.4	6.4	4.4	9.0	2.9	2.9		
<b>Seasonal Rainfall, millimetres</b>																
mean													988.5	529.2		
max													2205.1	1143.2		
min													587.8	242.4		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	78.8	79.5	77.3	73.5	68.5	63.8	64.3	65.4	69.5	72.2	75.1	75.6	71.9	76.0		
median	84.2	84.9	84.1	82.7	79.2	74.2	75.4	74.9	78.7	80.7	82.4	82.6	81.2	83.3		
max	94.7	95.0	94.7	89.8	88.3	88.2	87.8	88.8	90.1	91.1	93.2	92.2	95.0	95.0		
min	2.4	5.0	2.1	1.3	0.6	0.5	0.0	1.3	1.5	0.8	0.9	2.6	0.0	0.8		
<b>Duff Moisture Code, DMC</b>																
mean	23.1	29.2	23.3	15.1	7.5	3.8	3.4	3.8	6.2	9.7	14.9	18.0	13.1	19.0		
median	20.4	23.6	17.7	11.6	5.8	2.8	2.8	3.2	5.2	7.8	12.6	14.7	8.2	14.8		
max	78.8	104.1	107.2	89.3	48.7	28.0	14.1	18.4	27.9	41.5	69.7	87.1	107.2	107.2		
min	0.8	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>Drought Code, DC</b>																
mean	238.5	308.9	297.5	240.9	148.0	70.1	36.7	27.0	24.1	41.0	95.2	162.4	140.6	197.3		
median	234.6	313.0	289.5	226.7	127.4	34.6	14.5	15.2	18.4	33.9	84.6	156.2	90.0	175.3		
max	547.6	742.7	759.0	716.9	605.2	411.3	369.7	275.2	109.5	169.2	278.6	423.2	759.0	759.0		
min	7.1	6.3	4.2	2.9	1.3	0.6	0.6	1.0	0.9	2.4	4.4	5.7	0.6	2.4		
<b>Initial Spread Index, ISI</b>																
mean	6.4	5.7	4.8	3.4	2.4	1.6	1.6	2.0	3.0	4.2	5.4	5.4	3.8	5.0		
median	5.1	5.0	4.0	2.6	1.6	1.1	1.1	1.3	2.2	3.1	4.2	4.4	2.5	4.0		
max	51.1	72.7	44.7	38.4	28.3	24.3	18.2	23.5	31.0	38.1	45.0	66.2	72.7	72.7		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	35.8	45.6	37.2	24.6	12.2	5.9	4.7	4.8	7.2	11.8	20.6	26.9	19.7	28.8		
median	32.6	38.1	30.0	19.1	9.5	4.2	3.6	4.1	6.0	9.7	17.7	23.2	12.2	22.7		
max	105.6	154.2	158.4	136.2	77.2	40.2	23.9	24.4	31.7	46.4	80.5	108.4	158.4	158.4		
min	1.4	0.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	12.6	13.1	10.1	5.9	2.9	1.3	1.1	1.4	2.8	4.9	8.2	9.5	6.1	9.2		
median	10.7	11.8	8.4	4.5	1.0	0.5	0.5	0.6	1.3	3.2	6.5	7.8	2.9	7.2		
max	70.5	112.1	68.8	49.8	42.1	26.6	17.7	20.6	27.6	45.4	53.7	83.6	112.1	112.1		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	3.5	3.7	2.5	1.1	0.4	0.1	0.1	0.1	0.3	0.8	1.8	2.3	1.4	2.2		
median	1.8	2.1	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.0	0.2	0.9		
max	50.8	115.4	48.6	27.5	20.4	9.1	4.4	5.7	9.6	23.3	31.4	68.7	115.4	115.4		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	109.9	104.2	79.5	33.0	12.8	4.1	2.5	3.9	10.3	26.2	55.0	70.0	42.6	68.3		
max	327.1	548.7	275.3	96.4	42.7	26.1	12.2	18.9	39.9	81.0	181.5	284.4	548.7	548.7		
min	11.6	14.5	8.9	1.2	0.8	0.1	0.1	0.1	1.0	3.0	3.7	8.6	0.1	1.2		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													511.4	476.5		
max													1192.6	1213.4		
min													156.3	93.6		

Station Name: Nelson Aero (NSA)														Period: 1963-01-01 - 2021-07-01	Length of record: 58 years
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Forest Fire Danger Class (FFDC) Frequency</b>															
<b>Low</b>															
mean	8.1	6.5	10.4	16.0	25.6	28.7	30.6	30.2	26.2	20.9	13.4	11.5	228.4	86.9	
max	22	25	24	30	31	30	31	31	30	31	29	29	293	155	
min	0	0	0	0	11	16	27	24	13	4	0	0	177	42	
<b>Moderate</b>															
mean	13.6	12.7	14.1	12.2	5.0	1.2	0.4	0.8	3.8	9.4	13.2	14.2	100.6	89.6	
max	24	22	27	27	18	13	4	7	16	27	25	24	139	124	
min	4	1	4	0	0	0	0	0	0	0	1	2	60	57	
<b>High</b>															
mean	6.3	6.0	4.6	1.5	0.3	0.1	0.0	0.0	0.0	0.6	2.5	4.0	25.8	25.5	
max	17	20	23	9	4	2	0	0	1	6	15	14	58	58	
min	0	0	0	0	0	0	0	0	0	0	0	0	3	1	
<b>Very High</b>															
mean	1.6	1.6	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	5.8	5.7	
max	7	11	6	2	2	0	0	0	0	1	4	7	21	21	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Extreme</b>															
mean	1.2	1.2	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	3.9	3.8	
max	8	9	8	1	1	0	0	0	0	1	3	3	14	15	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.7	
max	4	4	5	0	0	0	0	0	0	0	0	4	6	6	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Grass Fire Danger Class (GFDC) Frequency</b>															
Curing source Nelson (Nelson/Tasman)															
Curing%	80	90	95	80	60	50	40	40	50	65	70	80			
<b>Low</b>															
mean	1.8	1.7	2.5	4.3	8.9	10.2	11.2	10.4	6.7	4.9	3.1	2.9	68.6	21.2	
max	7	8	9	13	16	18	24	19	15	11	11	15	104	48	
min	0	0	0	0	3	0	1	2	1	0	0	0	48	7	
<b>Moderate</b>															
mean	9.8	6.7	9.3	18.1	20.4	18.7	19.1	19.5	20.7	20.5	15.0	11.4	189.1	90.7	
max	19	17	17	26	28	29	30	27	26	26	24	20	220	117	
min	1	1	2	10	11	10	6	12	14	10	7	3	159	59	
<b>High</b>															
mean	14.8	15.0	14.5	6.0	1.6	1.0	0.7	1.1	2.3	4.6	10.0	13.1	84.7	78.2	
max	22	23	26	15	6	5	3	6	7	14	20	24	114	114	
min	8	5	5	0	0	0	0	0	0	0	0	4	53	43	
<b>Very High</b>															
mean	2.8	3.3	2.8	1.1	0.1	0.1	0.0	0.0	0.3	0.9	1.4	2.8	15.6	15.1	
max	9	9	9	7	1	1	0	1	2	4	6	10	32	30	
min	0	0	0	0	0	0	0	0	0	0	0	0	4	4	
<b>Extreme</b>															
mean	1.7	1.4	1.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	6.8	6.7	
max	6	7	8	6	0	0	0	0	0	1	3	5	16	14	
min	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
<b>Very Extreme</b>															
mean	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	
max	1	3	2	0	0	0	0	0	0	0	0	2	3	3	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Scrub Fire Danger Class (SFDC) Frequency</b>															
<b>Low</b>															
mean	3.3	2.7	4.2	5.7	8.0	10.1	10.2	9.9	7.8	6.4	4.8	4.7	77.7	31.8	
max	8	9	11	16	16	18	23	19	16	13	13	17	115	57	
min	0	0	0	0	2	1	0	2	1	0	0	0	56	12	
<b>Moderate</b>															
mean	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.6	0.1	
max	0	0	2	1	1	2	1	2	1	1	0	0	6	3	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>High</b>															
mean	1.0	0.8	1.6	3.0	4.8	5.9	6.2	5.1	2.8	1.7	1.1	0.9	34.8	10.1	
max	4	4	5	8	10	14	15	12	7	6	4	3	59	18	
min	0	0	0	0	0	0	1	0	0	0	0	0	18	3	
<b>Very High</b>															
mean	2.1	1.8	2.4	3.4	6.2	6.7	7.0	5.9	3.9	3.3	2.4	2.3	47.5	17.7	
max	7	5	8	9	13	15	20	15	10	7	7	5	63	32	
min	0	0	0	0	1	1	2	0	0	0	0	0	31	8	
<b>Extreme</b>															
mean	6.0	5.6	8.4	11.0	7.7	4.8	5.5	6.9	8.8	8.3	6.8	7.1	86.8	53.3	
max	13	14	16	21	21	17	18	14	16	17	15	15	121	70	
min	0	1	1	3	1	0	0	1	1	1	2	3	62	37	
<b>Very Extreme</b>															
mean	18.7	17.3	14.3	6.9	4.3	2.3	1.9	3.2	6.7	11.2	14.9	16.0	117.8	99.3	
max	30	26	23	17	11	8	7	11	17	23	25	27	168	134	
min	5	7	4	0	0	0	0	0	0	3	3	5	63	52	

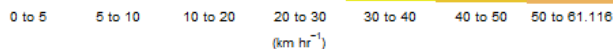
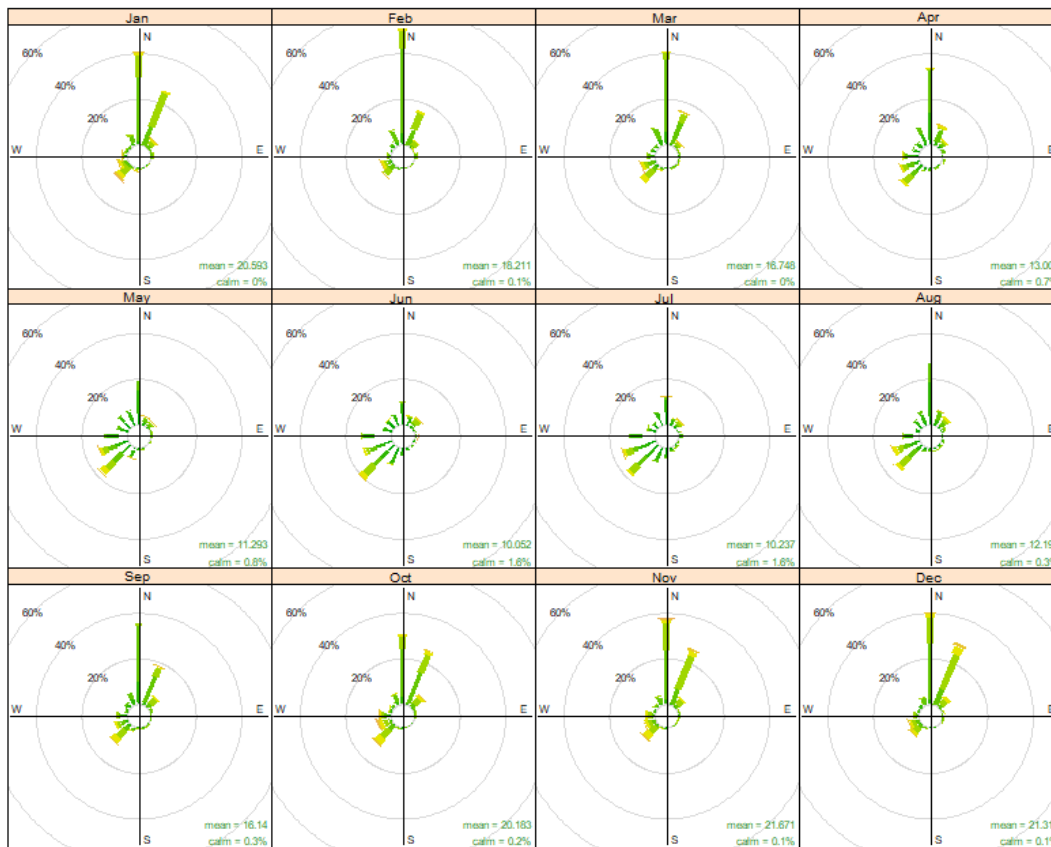
### Windroses for Nelson Aero (NSA)



Frequency of counts by wind direction (%)

Frequency of counts by wind direction (%)

### NSA station from 1991-11-29 to 2021-07-01



Frequency of counts by wind direction (%)



Station Name: Awatere Valley, Dashwood

Period: 1994-09-02 - 2021-07-01

Length of record: 26 years

Raws (AWV)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	21.1	21.2	19.6	16.9	14.6	11.9	11.2	12.3	14.0	16.0	17.7	19.9	16.4	18.9
median	21.2	21.3	19.8	16.9	14.6	11.9	11.4	12.3	14.0	15.9	17.7	20.0	16.0	18.9
max	34.8	32.6	28.4	24.7	24.9	19.1	17.4	19.4	21.9	33.3	33.8	35.0	35.0	35.0
min	9.7	9.0	8.7	8.1	0.9	1.9	3.8	3.0	2.9	6.5	7.4	8.7	0.9	6.5
<b>Relative Humidity, %</b>														
mean	57.5	57.8	58.2	61.0	62.0	64.7	63.8	63.1	62.2	61.5	58.8	57.6	60.7	58.9
median	57.8	57.0	58.0	59.6	61.0	64.0	62.0	62.0	61.8	62.0	59.0	58.0	60.0	58.7
max	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	99.9	100.0	100.0
min	18.0	20.8	20.7	24.0	22.0	27.0	29.0	27.0	22.0	18.0	15.5	18.0	15.5	15.5
<b>Wind Speed, km/h</b>														
mean	21.2	20.4	19.7	17.8	16.4	14.9	15.5	17.4	20.8	22.3	22.8	21.7	19.3	20.9
median	19.5	19.1	17.7	16.5	14.8	13.0	14.3	15.9	19.2	20.6	21.0	20.5	18.2	19.4
max	52.7	50.0	55.7	52.6	70.6	57.0	50.1	60.7	58.6	62.1	61.1	60.9	70.6	62.1
min	0.0	0.0	2.1	0.4	0.0	0.0	0.7	0.2	0.0	2.1	3.6	3.0	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	1.2	1.2	1.2	1.9	1.8	2.2	1.8	1.7	1.6	1.6	1.6	1.4	1.6	1.4
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	77.8	69.4	42.4	73.8	54.0	52.2	77.0	45.4	42.4	32.4	56.0	54.6	77.8	77.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	38.0	35.7	36.6	56.5	54.5	66.5	57.4	52.8	46.0	51.4	46.8	43.6	48.8	44.1
max	119.8	148.6	73.0	189.2	173.8	184.6	132.4	147.2	101.6	116.6	139.6	100.0	189.2	189.2
min	3.0	5.2	8.8	2.2	13.2	15.0	7.8	9.4	7.4	8.8	4.2	9.8	2.2	2.2
<b>Seasonal Rainfall, millimetres</b>														
mean													585.9	305.8
max													966.6	554.8
min													404.0	90.6
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	82.0	82.7	81.7	77.6	75.1	71.1	72.8	73.6	75.7	76.6	79.4	81.1	77.5	80.1
median	86.3	86.3	86.0	84.7	83.1	80.4	81.0	81.5	83.0	83.5	84.9	85.9	84.2	85.4
max	95.2	94.2	93.3	92.3	91.3	90.2	88.8	89.8	91.7	94.6	95.8	94.2	95.8	95.8
min	12.0	8.5	11.9	2.6	2.8	7.1	2.7	7.4	17.6	7.2	11.7	20.0	2.6	2.6
<b>Duff Moisture Code, DMC</b>														
mean	42.9	50.0	41.1	28.2	17.6	8.6	6.1	8.2	12.5	15.1	26.8	34.9	24.3	34.0
median	37.6	41.7	35.3	20.9	12.4	6.5	5.5	6.7	11.1	13.0	22.0	27.6	16.0	27.1
max	143.4	157.0	165.1	113.5	98.5	40.3	21.2	28.6	42.0	50.1	116.8	117.0	165.1	165.1
min	0.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7	0.0	0.0
<b>Drought Code, DC</b>														
mean	414.0	517.6	536.7	485.0	403.5	280.9	196.6	157.8	147.7	147.1	213.1	310.1	317.3	373.2
median	404.7	499.2	530.9	486.0	430.9	286.0	214.9	141.0	147.3	139.2	189.5	292.2	288.2	354.1
max	917.7	1116.0	1182.5	1163.9	1087.4	931.8	614.9	477.2	455.0	441.3	498.0	689.3	1182.5	1182.5
min	102.3	114.4	115.8	4.3	1.7	0.5	1.2	0.7	1.4	3.2	4.8	57.9	0.5	3.2
<b>Initial Spread Index, ISI</b>														
mean	8.8	8.2	7.5	5.5	4.5	3.3	3.3	3.9	5.5	6.6	8.2	8.5	6.2	7.6
median	6.8	6.3	5.7	4.4	3.3	2.3	2.4	3.0	4.0	4.5	5.5	6.4	4.4	5.7
max	64.6	60.6	54.3	31.7	32.1	44.1	33.9	38.2	41.2	66.0	77.9	65.4	77.9	77.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	66.2	78.2	67.6	47.9	30.6	15.3	10.3	13.1	18.8	22.3	39.0	52.5	38.4	53.2
median	60.3	68.8	60.5	37.0	22.5	12.0	8.5	10.8	16.3	19.0	33.6	43.9	26.7	43.6
max	206.2	224.2	244.8	182.5	160.6	72.7	37.2	40.8	61.3	72.5	147.2	159.5	244.8	244.8
min	0.9	6.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	4.9	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	21.3	21.9	19.1	13.2	8.5	4.6	3.6	4.9	8.0	9.8	15.7	18.6	12.4	17.0
median	18.4	19.3	16.6	10.6	5.9	2.5	2.1	3.5	5.9	7.0	12.0	15.5	8.5	14.0
max	104.9	112.5	88.7	67.1	59.2	65.9	39.1	36.4	41.9	67.1	121.7	111.4	121.7	121.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	8.3	8.4	7.0	4.0	2.1	0.9	0.5	0.8	1.8	2.6	5.7	7.0	4.1	6.1
median	4.7	5.1	3.9	1.8	0.6	0.1	0.1	0.2	0.6	0.9	2.2	3.5	1.2	2.9
max	102.7	116.1	76.3	46.5	37.3	45.0	17.9	15.8	20.2	46.6	133.5	114.1	133.5	133.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	259.1	240.8	216.1	120.9	65.2	26.6	14.7	25.0	53.4	82.4	174.0	213.8	124.3	186.8
max	630.9	545.5	526.4	385.0	249.1	118.6	41.6	68.8	137.5	186.6	875.0	736.8	875.0	875.0
min	40.8	40.3	26.5	7.1	11.9	0.7	1.5	2.6	14.6	10.1	17.6	15.5	0.7	7.1
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1492.2	1299.3
max													2441.7	3249.5
min													397.1	588.8

Station Name: Awatere Valley, Dashwood

Period: 1994-09-02 - 2021-07-01

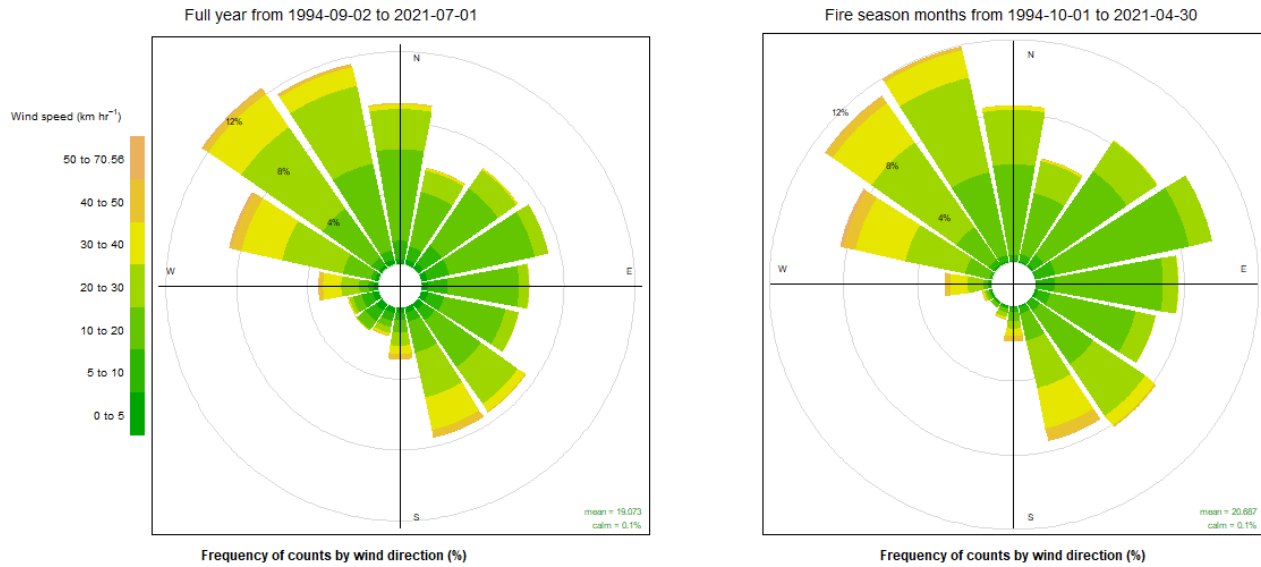
Length of record: 26 years

Raws (AWV)

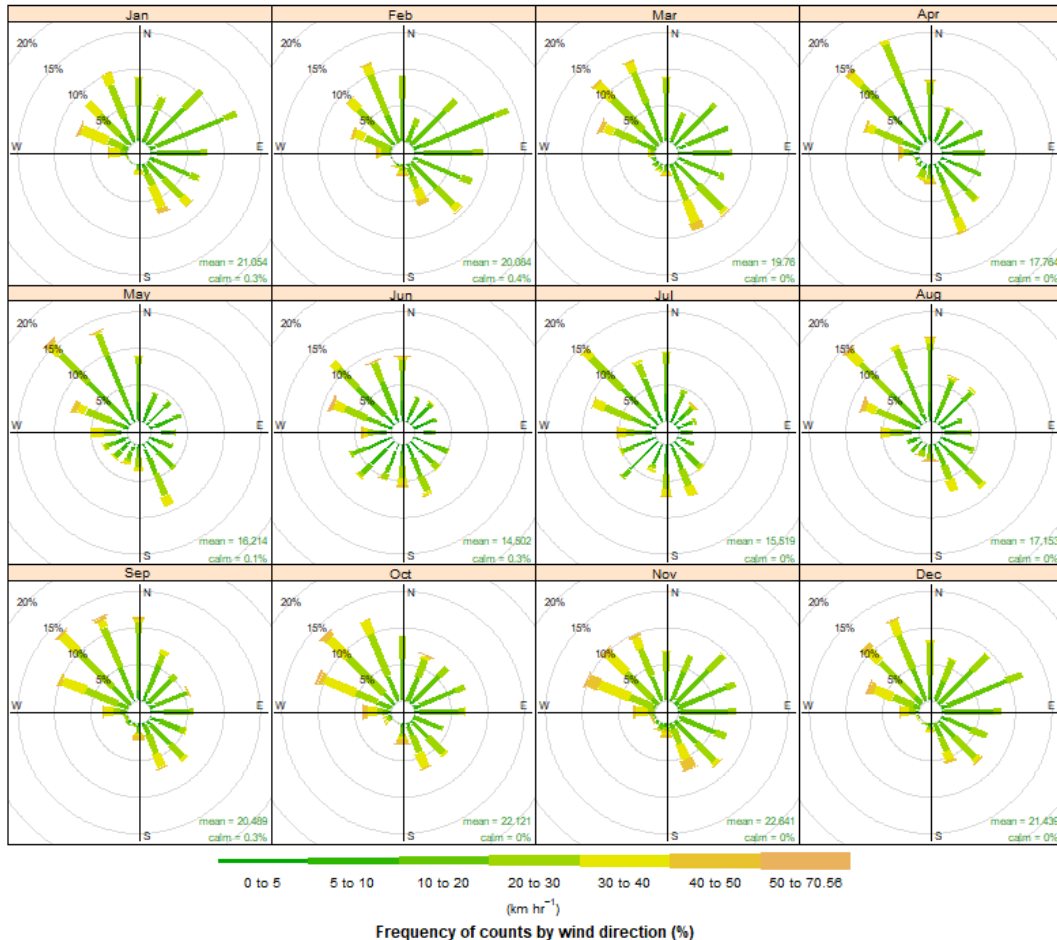
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	4.2	2.8	4.6	8.8	13.8	20.9	24.6	20.4	14.1	12.5	7.4	5.0	139.3	45.2
max	19	11	21	26	28	30	31	31	25	26	22	22	231	102
min	0	0	1	0	2	3	13	6	3	1	0	0	81	10
<b>Moderate</b>														
mean	9.0	8.2	10.7	11.2	12.9	8.0	6.3	9.9	12.5	12.9	11.8	11.5	124.7	75.0
max	18	17	21	19	21	21	18	23	19	22	22	21	152	105
min	0	2	3	2	2	0	0	0	5	5	1	5	76	37
<b>High</b>														
mean	7.0	7.2	6.7	5.7	2.7	0.7	0.1	0.7	2.7	3.8	5.5	7.2	49.7	43.6
max	17	15	12	12	11	5	1	3	9	10	11	15	77	67
min	2	2	1	0	0	0	0	0	0	0	0	1	20	23
<b>Very High</b>														
mean	3.9	4.0	3.8	1.9	0.7	0.2	0.0	0.0	0.7	0.9	2.2	3.0	21.2	19.5
max	10	10	9	8	4	3	1	1	3	3	8	8	39	39
min	0	0	0	0	0	0	0	0	0	0	0	0	5	6
<b>Extreme</b>														
mean	4.4	3.8	3.4	1.7	0.7	0.2	0.0	0.0	0.1	0.9	1.8	2.7	19.8	19.0
max	11	10	11	10	4	2	0	0	2	6	10	9	41	40
min	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>Very Extreme</b>														
mean	2.5	2.2	1.8	0.7	0.3	0.0	0.0	0.0	0.0	0.0	1.3	1.6	10.6	10.0
max	10	11	9	4	3	1	0	0	0	1	12	11	26	44
min	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Marlborough (Marlborough/Kaikoura)														
Curing%	90	95	80	65	55	50	45	55	65	70	80	85		
<b>Low</b>														
mean	1.5	0.9	1.4	3.2	4.3	6.0	5.3	4.8	3.3	2.8	1.7	1.6	36.9	12.9
max	6	4	7	13	12	13	16	15	8	9	6	5	71	29
min	0	0	0	0	1	2	0	0	0	0	0	0	21	3
<b>Moderate</b>														
mean	5.7	4.2	8.5	17.0	20.1	20.9	22.8	20.8	17.2	14.3	9.2	7.2	167.9	66.1
max	14	10	18	22	27	25	28	28	24	22	20	21	205	89
min	0	1	3	6	10	15	13	14	11	6	1	2	138	45
<b>High</b>														
mean	11.3	11.9	14.5	8.7	5.7	2.7	2.9	4.9	8.0	10.0	11.2	12.4	104.2	80.3
max	20	21	21	19	11	8	9	9	17	17	18	18	121	105
min	6	6	8	1	2	0	0	1	3	5	3	6	84	58
<b>Very High</b>														
mean	6.5	6.2	3.8	1.1	0.9	0.3	0.0	0.4	1.5	3.2	4.4	5.7	33.9	31.2
max	13	11	10	5	3	2	1	2	4	7	10	11	53	49
min	0	0	0	0	0	0	0	0	0	0	0	1	15	12
<b>Extreme</b>														
mean	5.2	4.2	2.7	0.0	0.0	0.1	0.0	0.0	0.1	0.7	3.1	3.5	19.6	18.9
max	10	8	10	0	0	1	0	1	1	3	10	9	36	40
min	0	0	0	0	0	0	0	0	0	0	0	0	4	5
<b>Very Extreme</b>														
mean	0.7	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	2.8	2.8
max	2	4	2	0	0	0	0	0	0	0	4	4	8	11
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	2.3	1.8	2.3	4.0	4.7	6.7	5.8	5.7	4.5	4.4	2.8	2.8	47.6	19.9
max	8	7	9	16	12	13	16	14	9	12	9	9	81	37
min	0	0	0	0	0	2	1	0	1	0	0	0	29	3
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	1	0	0	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.7	0.4	1.0	1.2	2.5	3.3	3.7	2.5	1.3	1.2	1.2	0.5	19.6	6.1
max	3	2	4	4	5	8	9	6	3	5	5	3	34	13
min	0	0	0	0	0	0	0	0	0	0	0	0	8	1
<b>Very High</b>														
mean	1.8	1.2	1.8	2.1	3.1	3.5	4.2	3.4	2.5	2.5	1.8	1.6	29.5	12.8
max	6	5	5	5	8	8	9	7	5	7	7	9	45	24
min	0	0	0	0	0	0	1	0	0	0	0	0	20	4
<b>Extreme</b>														
mean	4.4	4.0	5.5	7.2	8.8	8.5	8.8	9.1	7.3	6.3	5.7	5.3	81.1	38.7
max	11	9	13	13	17	17	15	16	16	10	13	10	103	54
min	1	0	1	1	3	3	5	3	3	2	1	1	66	26
<b>Very Extreme</b>														
mean	21.8	20.8	20.5	15.6	11.9	7.9	8.5	10.3	14.4	16.6	18.5	20.7	187.5	134.7

max	30	27	27	29	22	15	16	21	24	24	29	29	227	169
min	9	14	9	4	6	1	2	2	5	9	6	6	131	96

Windroses for Awatere Valley, Dashwood Raws (AWV)



AWV station from 1994-09-02 to 2021-07-01



Station Name: Cape Campbell SYNOP  
(Cape\_Campbell)

Period: 2012-11-05 - 2021-07-01

Length of record: 8 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	17.4	17.5	16.7	15.0	13.4	11.5	10.7	11.0	11.7	13.4	14.5	16.3	14.2	15.9
median	17.3	17.6	16.6	15.0	13.4	11.5	10.9	11.1	11.7	13.4	14.6	16.3	14.2	15.9
max	23.2	22.6	25.1	19.4	18.2	16.9	15.2	15.3	18.1	19.3	21.3	23.8	25.1	25.1
min	11.2	12.2	11.8	8.0	8.1	4.8	4.1	5.1	6.2	8.6	8.4	10.4	4.1	8.0
<b>Relative Humidity, %</b>														
mean	75.9	76.3	76.7	75.4	72.3	75.3	71.6	74.1	74.2	74.3	74.5	75.6	74.7	75.6
median	78.0	78.0	79.0	76.0	73.0	76.0	72.0	74.0	75.0	75.5	76.0	77.0	76.0	77.0
max	99	99	98	98	96	99	98	98	97	97	98	98	99	99
min	41	41	44	38	30	39	40	37	27	44	38	39	27	38
<b>Wind Speed, km/h</b>														
mean	33.9	32.5	30.7	30.7	29.2	27.5	29.3	28.7	32.6	33.0	33.7	33.8	31.3	32.6
median	35.2	32.4	29.6	31.5	29.6	25.9	29.6	29.6	33.3	33.3	33.3	35.2	31.5	33.3
max	74.1	64.8	90.7	61.1	63.0	68.5	75.9	68.5	66.7	81.5	74.1	66.7	90.7	90.7
min	3.7	5.6	3.7	1.9	2.9	1.9	1.9	1.9	3.7	3.7	3.7	5.6	1.9	1.9
<b>24-hr Rainfall, millimetres</b>														
mean	1.1	1.3	1.0	2.4	1.6	2.6	1.8	1.3	2.0	1.0	1.4	1.4	1.6	1.4
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	43.2	60.2	42.0	64.0	55.8	68.2	57.2	20.2	66.0	23.4	28.4	34.0	68.2	64.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	38.0	37.8	33.8	75.5	49.4	74.8	56.5	40.5	59.2	30.9	42.9	45.6	48.7	43.5
max	76.0	131.8	54.8	176.8	101.6	159.6	148.4	60.2	113.2	50.4	95.2	120.4	176.8	176.8
min	1.8	5.6	8.6	0.0	12.6	14.8	12.2	22.8	29.2	11.8	8.2	9.0	0.0	0.0
<b>Seasonal Rainfall, millimetres</b>														
mean													584.8	290.9
max													840.4	486.2
min													316.0	143.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	78.0	78.3	77.4	73.6	75.1	69.9	73.7	72.8	72.0	75.5	74.5	76.1	74.8	76.2
median	81.5	82.0	81.4	81.1	80.7	78.6	80.8	79.3	79.1	80.5	80.7	81.1	80.8	81.3
max	87.4	87.1	88.2	87.1	87.6	87.4	86.8	86.1	86.8	87.6	88.3	88.5	88.5	88.5
min	10.6	14.2	23.4	9.8	14.0	11.1	4.1	22.5	12.5	13.5	7.7	17.4	4.1	7.7
<b>Duff Moisture Code, DMC</b>														
mean	16.8	24.1	20.8	13.0	10.1	4.3	4.8	4.8	5.7	9.4	12.0	15.7	11.9	16.0
median	15.2	20.9	18.1	10.5	7.5	3.5	4.8	4.4	5.0	8.5	11.3	13.7	8.8	13.4
max	44.7	56.7	55.9	48.6	55.7	15.7	13.3	15.0	16.9	28.4	30.1	43.7	56.7	56.7
min	2.4	2.4	2.8	0.0	0.5	0.0	0.0	0.1	0.0	0.0	0.1	0.9	0.0	0.0
<b>Drought Code, DC</b>														
mean	385.4	480.5	508.3	415.3	336.4	213.0	171.6	154.6	140.4	152.9	222.8	303.5	294.7	354.9
median	387.7	488.7	514.5	470.5	269.9	157.8	135.0	104.3	107.1	136.7	210.0	293.9	281.6	334.3
max	654.6	702.6	774.0	765.1	654.0	578.3	438.5	444.4	361.6	362.0	457.2	647.8	774.0	774.0
min	71.6	133.4	140.0	7.3	44.8	0.9	0.4	1.1	1.5	3.2	67.6	32.2	0.4	3.2
<b>Initial Spread Index, ISI</b>														
mean	8.1	7.9	6.9	6.3	6.2	4.6	5.7	5.1	5.9	7.1	7.3	7.6	6.6	7.3
median	6.3	6.0	5.2	4.6	4.4	2.9	4.4	3.7	4.3	5.9	4.8	5.9	4.7	5.6
max	25.7	26.8	29.3	25.6	26.8	24.7	20.7	21.2	27.2	34.9	34.3	36.8	36.8	36.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	29.7	41.7	37.1	22.9	17.9	7.6	8.1	8.1	9.2	15.2	20.3	27.1	20.7	27.8
median	27.6	38.1	32.8	20.0	13.8	6.5	7.5	7.3	8.1	14.0	19.4	24.5	15.4	23.8
max	76.3	91.4	93.0	73.2	82.6	27.6	24.8	27.7	27.7	43.9	46.3	74.8	93.0	93.0
min	4.8	4.6	5.6	0.0	0.9	0.0	0.0	0.2	0.0	0.0	0.2	1.6	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	13.3	15.8	13.3	9.8	8.3	4.2	5.3	4.6	5.7	8.7	10.2	12.2	9.4	11.9
median	11.4	14.8	11.0	7.7	5.6	2.5	4.1	3.1	3.9	6.9	7.7	10.7	7.0	9.9
max	42.8	47.9	50.2	43.8	47.6	26.3	23.5	27.4	24.7	40.8	47.9	40.1	50.2	50.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	3.5	4.7	3.7	2.4	1.9	0.6	0.8	0.7	1.0	1.8	2.4	3.1	2.3	3.1
median	2.0	3.2	1.9	1.0	0.6	0.1	0.3	0.2	0.3	0.8	1.0	1.8	0.9	1.6
max	21.0	25.6	27.9	21.9	25.4	8.9	7.3	9.5	7.9	19.3	25.7	18.8	27.9	27.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	97.4	131.8	107.7	72.9	58.8	20.0	25.7	21.2	29.0	56.6	77.5	98.9	66.4	91.8
max	125.1	229.8	241.1	219.7	117.0	50.3	48.9	36.6	59.2	121.2	142.7	188.7	241.1	241.1
min	53.5	66.7	57.2	14.7	10.5	7.5	15.4	11.8	13.6	14.6	30.2	20.6	7.5	14.6
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													797.4	672.0
max													1091.3	932.9
min													558.6	389.4

Station Name: Cape Campbell SYNOP  
(Cape\_Campbell)

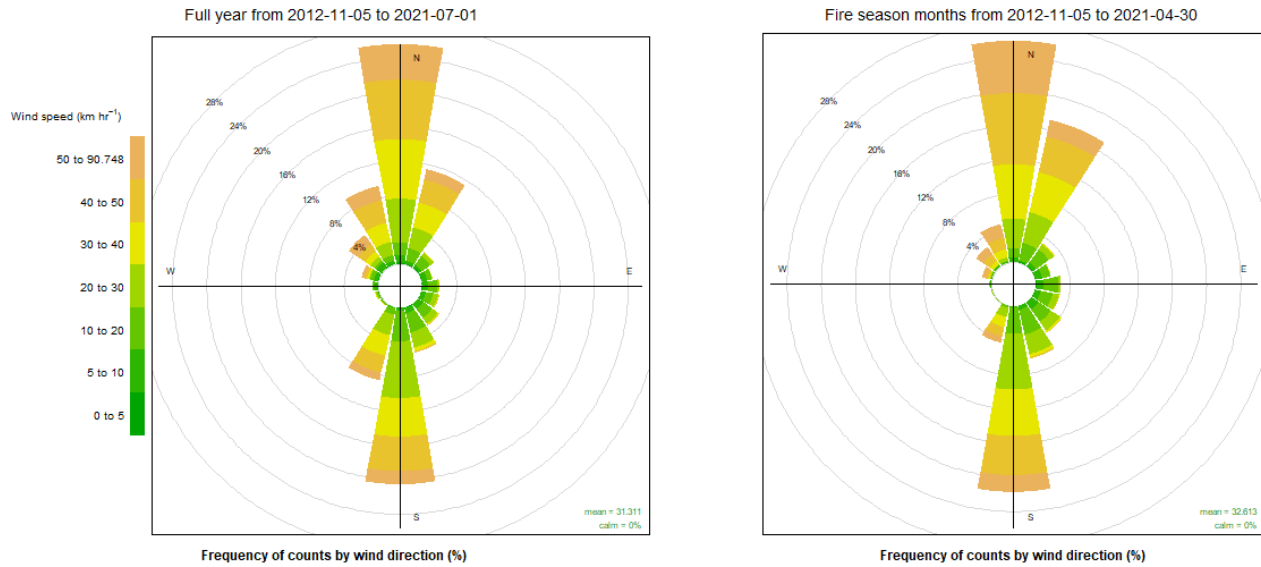
Period: 2012-11-05 - 2021-07-01

Length of record: 8 years

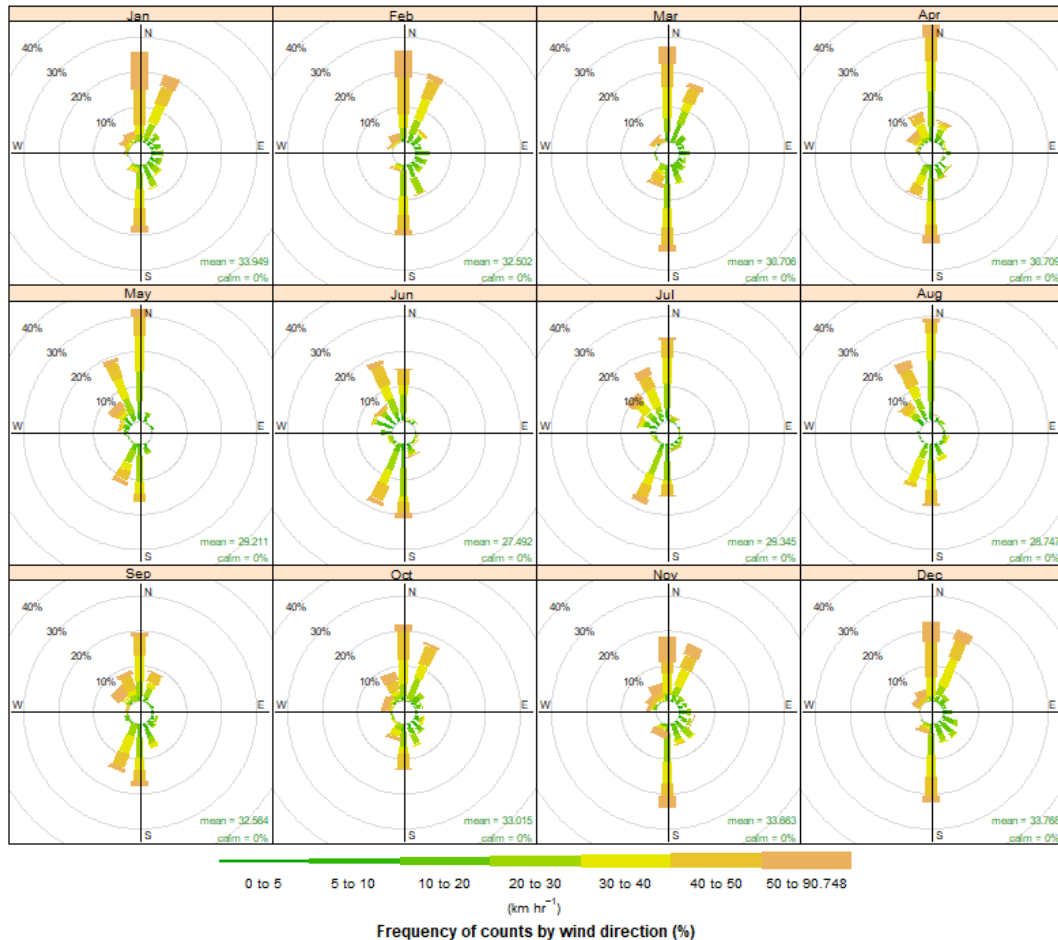
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	6.8	4.2	8.0	13.4	17.5	23.6	23.1	25.0	21.5	13.8	10.4	8.9	176.1	63.8
max	13	13	15	27	31	30	30	30	29	25	19	28	214	99
min	0	0	2	0	7	14	16	16	12	3	1	0	112	31
<b>Moderate</b>														
mean	16.4	12.2	14.2	11.4	10.1	6.2	7.6	5.9	7.8	15.2	14.9	14.4	136.4	97.9
max	20	19	17	20	19	15	13	15	13	21	24	19	179	121
min	14	8	8	3	0	0	1	1	1	6	10	3	112	73
<b>High</b>														
mean	6.5	7.0	4.9	3.1	1.8	0.1	0.2	0.1	0.8	1.8	4.0	5.1	35.4	32.5
max	10	11	8	9	6	1	2	1	5	10	10	11	48	41
min	2	4	3	0	0	0	0	0	0	0	0	0	25	13
<b>Very High</b>														
mean	1.4	2.8	2.8	1.8	1.1	0.0	0.0	0.0	0.0	0.2	0.6	2.4	13.0	13.2
max	3	6	7	9	6	0	0	0	0	1	4	7	22	21
min	0	0	0	0	0	0	0	0	0	0	0	0	4	4
<b>Extreme</b>														
mean	0.0	1.9	1.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.2	4.0	4.6
max	0	6	6	3	3	0	0	0	0	0	1	1	12	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2
max	0	1	1	0	1	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Marlborough (Marlborough/Kaikoura)														
Curing%	90	95	80	65	55	50	45	55	65	70	80	85		
<b>Low</b>														
mean	1.2	1.1	1.2	3.6	2.2	4.6	3.4	2.6	2.6	1.5	2.1	1.6	28.0	12.1
max	4	5	2	10	6	10	9	4	6	4	7	3	43	20
min	0	0	0	0	0	1	0	1	1	1	0	0	12	5
<b>Moderate</b>														
mean	7.9	5.8	11.8	14.9	17.6	18.1	18.4	19.6	17.1	12.5	11.2	8.8	163.6	71.8
max	10	10	17	17	23	20	22	24	22	17	16	20	173	80
min	6	2	6	12	15	15	15	17	13	7	7	3	149	61
<b>High</b>														
mean	9.5	9.9	10.4	10.2	9.2	6.9	9.2	8.1	8.8	12.9	7.5	10.0	112.6	70.5
max	15	13	14	16	14	9	13	13	13	16	10	15	132	81
min	3	7	7	6	4	5	5	3	3	10	5	6	102	56
<b>Very High</b>														
mean	5.5	4.6	5.9	1.2	1.9	0.4	0.0	0.6	1.5	3.5	6.9	6.9	38.9	34.5
max	10	8	7	3	5	2	0	2	3	7	10	12	50	46
min	1	2	4	0	0	0	0	0	0	0	3	0	29	24
<b>Extreme</b>														
mean	6.9	6.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.2	3.5	21.6	22.9
max	12	10	3	0	0	0	0	0	0	2	4	6	28	26
min	3	3	0	0	0	0	0	0	0	0	0	0	14	18
<b>Very Extreme</b>														
mean	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5
max	0	1	0	0	0	0	0	0	0	0	0	1	1	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	2.0	2.1	2.9	5.1	3.4	7.6	4.5	4.9	5.8	3.5	4.4	3.0	49.1	22.0
max	5	7	5	13	6	14	10	7	8	7	9	7	67	36
min	0	0	1	0	0	2	0	2	3	1	1	0	29	11
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.6	0.1	0.5	0.5	0.8	0.9	1.2	1.9	0.5	0.6	0.4	1.1	9.1	3.8
max	1	1	1	1	3	3	4	4	1	3	3	7	18	12
min	0	0	0	0	0	0	0	0	0	0	0	0	4	1
<b>Very High</b>														
mean	2.1	1.1	2.2	1.9	3.2	3.9	2.5	2.1	2.1	2.2	1.6	1.8	26.9	12.8
max	3	3	6	5	6	6	5	5	6	6	4	3	36	21
min	1	0	0	0	0	1	0	0	0	0	0	0	14	4
<b>Extreme</b>														
mean	6.5	7.5	8.4	7.6	7.6	6.6	6.8	9.8	6.5	6.4	7.1	6.2	87.0	49.6
max	9	14	11	12	10	10	11	12	10	10	11	11	97	60
min	4	2	5	6	5	3	4	7	2	2	5	3	79	40
<b>Very Extreme</b>														
mean	19.8	17.4	17.0	14.9	16.0	11.0	16.0	12.4	15.1	18.2	16.5	18.9	193.1	124.1

max	22	25	20	23	20	15	19	17	17	24	21	24	212	139
min	15	13	12	8	11	5	12	8	12	12	12	7	180	108

Windroses for Cape Campbell SYNOP (Cape Campbell)



Cape\_Campbell station from 2012-11-05 to 2021-07-01

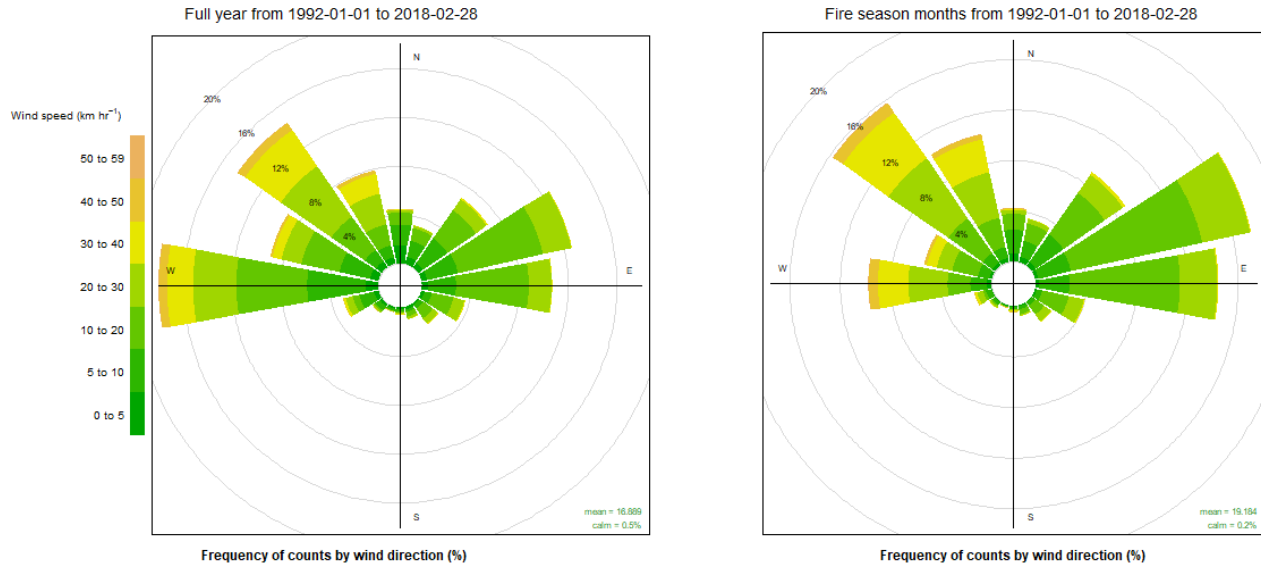


Station Name: Blenheim Aero Aws (WBA)	Period: 1992-01-01 - 2021-07-01												Length of record: 29 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.0	22.0	20.2	17.3	14.3	11.4	10.6	12.2	14.4	16.4	18.2	20.5	16.6	19.5
median	22.0	22.0	20.0	17.0	14.0	11.0	10.6	12.0	14.0	16.0	18.0	20.3	16.0	19.1
max	32.3	32.0	28.0	25.0	23.0	19.0	17.0	20.5	23.0	27.0	33.0	32.0	33.0	33.0
min	12.0	12.8	10.0	9.0	6.0	2.0	3.0	5.0	5.2	8.0	9.0	8.0	2.0	8.0
<b>Relative Humidity, %</b>														
mean	53.9	54.4	55.0	59.1	63.9	68.1	66.7	62.4	60.1	59.1	55.5	55.0	59.4	56.0
median	53.0	52.0	54.0	57.0	62.7	67.0	65.0	61.0	59.0	58.0	55.0	55.0	59.0	55.0
max	100	100	100	99	99	99	99	100	100	100	99	100	100	100
min	11.0	12.0	17.0	18.0	30.5	26.0	32.0	27.1	23.0	17.0	9.1	14.0	9.1	9.1
<b>Wind Speed, km/h</b>														
mean	20.7	18.8	16.7	13.4	12.5	12.1	12.5	12.9	16.8	20.0	21.7	21.4	16.6	18.9
median	19.0	17.6	15.0	11.0	9.0	9.4	10.4	10.4	15.0	18.6	20.0	20.0	15.0	18.0
max	59.0	59.0	57.0	59.0	48.0	46.0	51.8	59.0	59.0	53.6	52.0	50.0	59.0	59.0
min	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	2.0	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	1.6	1.7	1.5	2.1	2.4	2.7	2.4	2.5	2.1	2.3	1.8	1.8	2.1	1.8
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	107.0	95.2	55.6	80.2	72.4	79.9	101.6	83.8	79.4	59.8	59.2	58.2	107.0	107.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	49.0	46.3	42.8	59.3	68.1	78.9	74.4	76.4	63.4	70.7	55.5	55.1	61.7	54.1
max	143.8	200.6	73.0	156.0	190.4	195.8	217.4	307.0	163.8	159.6	231.0	125.8	307.0	231.0
min	2.8	3.4	7.6	2.0	19.2	12.6	12.2	22.4	10.8	11.2	4.8	4.2	2.0	2.0
<b>Seasonal Rainfall, millimetres</b>														
mean													739.8	387.1
max													1235.9	901.6
min													479.8	126.0
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	82.8	82.9	81.5	77.1	72.4	67.6	69.2	70.5	74.1	75.7	79.5	80.8	76.2	80.0
median	87.2	87.2	86.7	85.0	82.3	77.8	79.6	79.1	82.2	83.2	85.5	86.3	83.9	86.0
max	97.1	95.8	94.1	93.4	92.0	89.3	88.5	89.8	92.1	95.0	97.2	96.1	97.2	97.2
min	19.8	11.2	9.8	1.7	5.0	1.6	5.4	8.1	11.6	2.0	12.9	12.8	1.6	1.7
<b>Duff Moisture Code, DMC</b>														
mean	39.7	48.3	39.1	25.6	14.1	6.2	4.2	5.9	10.5	14.1	25.9	33.8	22.2	32.3
median	35.1	39.8	31.1	20.4	9.7	4.0	3.4	4.9	9.0	11.9	20.8	27.3	13.7	25.1
max	122.5	203.8	207.1	122.9	74.1	33.0	18.1	20.4	36.7	57.5	122.9	123.7	207.1	207.1
min	1.8	3.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.0
<b>Drought Code, DC</b>														
mean	331.8	416.1	431.7	380.1	297.4	188.6	115.2	80.6	78.1	83.7	150.2	245.9	234.1	291.9
median	319.9	408.1	428.3	376.7	302.6	182.6	94.1	47.6	43.3	68.9	135.5	231.8	196.4	273.4
max	724.2	927.4	1049.4	1057.8	876.0	758.6	430.2	442.4	385.0	413.4	364.1	502.6	1057.8	1057.8
min	48.2	26.2	32.5	3.7	1.3	0.6	0.6	1.1	1.0	2.4	4.5	6.5	0.6	2.4
<b>Initial Spread Index, ISI</b>														
mean	9.8	8.6	7.2	4.5	3.3	2.3	2.5	2.9	4.6	6.3	8.7	9.4	5.8	7.8
median	7.1	6.6	5.4	3.4	2.4	1.7	1.9	2.0	2.9	3.9	6.0	6.8	3.5	5.5
max	127.8	69.0	53.6	35.6	29.1	21.2	35.7	26.6	42.4	86.6	55.8	85.0	127.8	127.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	59.5	72.2	62.1	42.1	24.1	10.8	6.8	8.7	14.1	18.3	34.5	48.5	33.5	48.2
median	53.8	62.6	51.1	35.4	17.0	7.2	5.8	6.9	12.0	15.3	29.1	41.1	21.2	39.0
max	172.2	263.1	266.5	190.5	122.3	59.5	30.9	34.6	55.6	72.1	129.5	131.2	266.5	266.5
min	3.3	5.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	21.9	21.7	17.7	10.5	5.9	2.8	2.3	2.9	5.7	8.6	15.4	19.4	11.2	16.5
median	18.3	18.5	14.6	8.0	3.4	0.9	0.9	1.1	3.4	5.6	11.7	15.2	6.0	12.7
max	97.8	121.7	84.1	74.0	45.3	34.9	25.8	30.3	52.9	81.9	85.9	123.0	123.0	123.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	9.0	8.8	6.4	2.9	1.2	0.4	0.3	0.4	1.1	2.3	5.7	7.9	3.8	6.1
median	4.7	4.8	3.1	1.1	0.2	0.0	0.0	0.0	0.2	0.6	2.1	3.4	0.7	2.5
max	90.7	133.6	69.4	55.3	23.2	14.6	8.6	11.4	30.5	66.3	72.1	136.0	136.0	136.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	285.8	252.1	202.8	88.0	39.4	12.4	7.8	11.8	34.4	69.8	170.7	245.7	118.4	187.8
max	668.8	721.2	580.5	319.1	159.1	48.8	26.2	31.1	149.9	226.9	790.1	762.7	790.1	790.1
min	80.2	47.6	26.7	6.5	2.9	0.1	0.8	0.4	1.0	8.6	13.2	22.4	0.1	6.5
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1420.7	1309.7
max													2805.5	3280.6
min													354.2	350.8

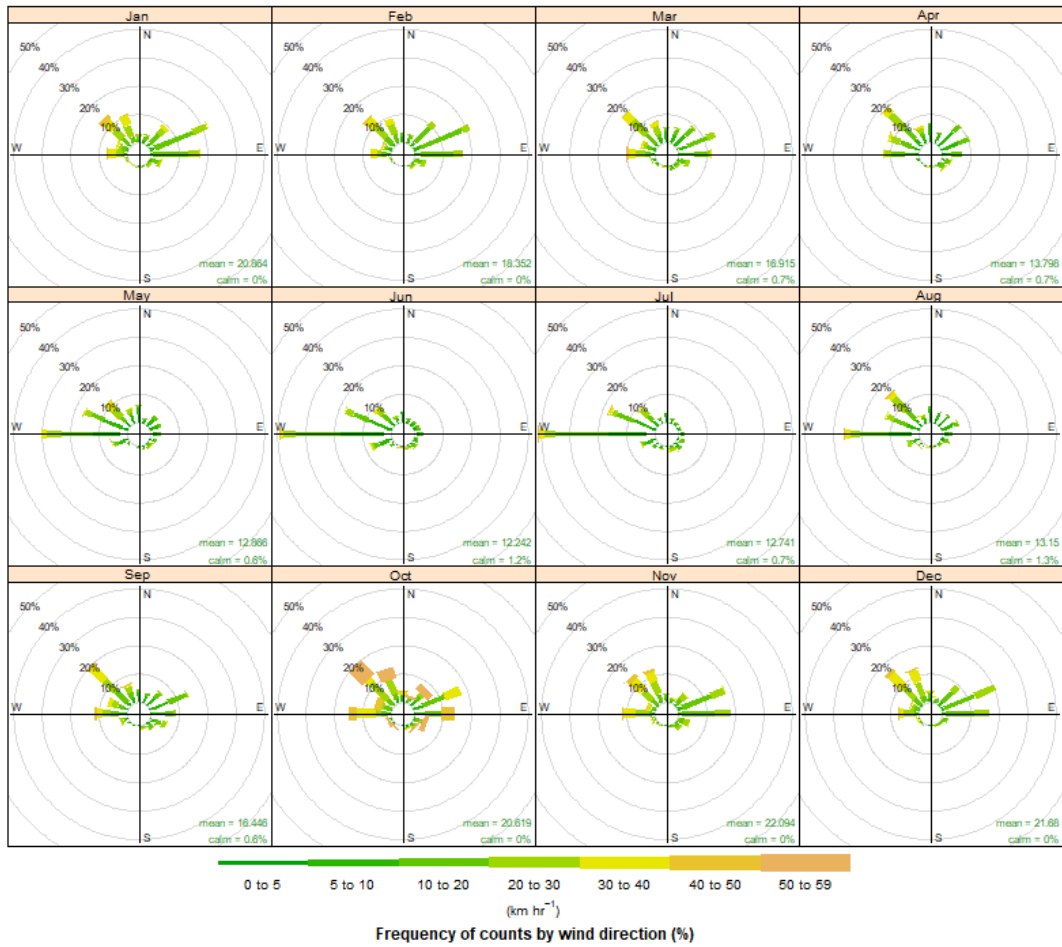
Station Name: Blenheim Aero Aws (WBA)			Period: 1992-01-01 - 2021-07-01			Length of record: 29 years									
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Forest Fire Danger Class (FFDC) Frequency</b>															
<b>Low</b>															
mean	4.5	3.6	5.4	10.3	19.0	24.7	28.1	26.4	19.4	16.1	8.3	6.4	172.2	55.3	
max	13	10	20	26	31	30	31	31	30	29	24	20	242	102	
min	0	0	0	0	2	8	20	15	5	2	0	0	98	13	
<b>Moderate</b>															
mean	8.6	7.8	11.1	12.8	9.5	4.9	2.9	4.5	9.1	11.0	11.5	10.2	103.9	72.7	
max	18	15	22	21	19	19	11	16	17	21	19	21	164	98	
min	2	1	3	4	0	0	0	0	0	2	1	2	71	47	
<b>High</b>															
mean	7.0	7.5	6.7	4.1	1.5	0.3	0.0	0.1	1.0	2.8	5.0	5.8	41.8	38.6	
max	16	14	15	13	10	3	1	2	6	10	10	14	61	59	
min	0	2	0	0	0	0	0	0	0	0	0	1	18	17	
<b>Very High</b>															
mean	3.9	3.1	2.8	1.0	0.7	0.1	0.0	0.0	0.4	0.6	2.2	2.8	17.6	16.5	
max	10	7	8	4	4	1	0	0	6	5	8	10	36	30	
min	1	0	0	0	0	0	0	0	0	0	0	0	4	5	
<b>Extreme</b>															
mean	4.1	3.8	3.6	1.3	0.4	0.0	0.0	0.0	0.0	0.5	1.7	3.0	18.5	17.9	
max	13	11	10	6	4	1	0	0	1	3	11	14	44	44	
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
<b>Very Extreme</b>															
mean	2.9	2.5	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.7	11.3	11.3	
max	10	11	9	3	0	0	0	0	0	1	13	13	36	44	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Grass Fire Danger Class (GFDC) Frequency</b>															
Curing source Marlborough (Marlborough/Kaikoura)															
Curing%	90	95	80	65	55	50	45	55	65	70	80	85			
<b>Low</b>															
mean	1.5	1.2	1.9	3.8	5.9	7.5	7.6	7.2	4.4	3.9	2.1	2.0	49.0	16.5	
max	4	5	5	14	15	15	14	17	10	11	11	6	76	31	
min	0	0	0	0	1	2	1	2	1	0	0	0	31	3	
<b>Moderate</b>															
mean	5.1	4.3	9.4	19.9	20.7	20.6	21.6	20.4	18.7	14.4	8.6	6.9	170.6	68.5	
max	10	9	18	25	30	26	28	27	24	24	18	19	207	91	
min	1	1	3	12	11	14	15	13	12	8	2	1	145	48	
<b>High</b>															
mean	11.0	11.0	12.5	5.4	4.0	1.8	1.8	3.0	5.9	8.8	10.9	10.0	86.2	70.0	
max	21	19	18	13	12	5	5	8	12	18	17	15	117	95	
min	5	4	5	1	0	0	0	0	0	2	5	2	65	49	
<b>Very High</b>															
mean	6.4	6.1	4.7	0.8	0.4	0.1	0.1	0.3	0.9	2.8	3.9	6.3	32.9	30.9	
max	15	11	9	5	3	1	1	2	4	6	7	14	47	41	
min	1	1	0	0	0	0	0	0	0	0	1	0	11	18	
<b>Extreme</b>															
mean	5.5	4.4	2.4	0.1	0.0	0.0	0.0	0.0	0.2	1.1	4.0	5.0	22.6	22.4	
max	10	10	8	1	0	0	0	0	2	5	13	10	39	46	
min	1	0	0	0	0	0	0	0	0	0	0	0	6	6	
<b>Very Extreme</b>															
mean	1.4	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	4.0	4.0	
max	5	5	1	0	0	0	0	0	0	0	6	4	12	18	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Scrub Fire Danger Class (SFDC) Frequency</b>															
<b>Low</b>															
mean	2.4	1.9	2.6	4.2	6.3	8.1	8.0	7.7	5.3	4.8	3.2	3.0	57.6	22.2	
max	6	6	6	15	16	16	14	15	11	11	12	8	80	40	
min	0	0	0	0	1	2	3	3	1	0	0	0	39	8	
<b>Moderate</b>															
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	
max	0	0	0	0	0	0	0	1	0	1	1	0	2	1	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>High</b>															
mean	0.6	0.6	1.3	2.0	3.4	4.2	4.2	3.8	2.7	2.2	1.1	1.2	27.3	9.0	
max	2	3	3	6	8	9	9	10	9	8	4	5	40	19	
min	0	0	0	0	0	0	1	1	0	0	0	0	14	2	
<b>Very High</b>															
mean	1.5	1.3	1.8	2.4	3.7	4.6	4.7	4.3	3.2	2.9	2.2	1.7	34.4	14.1	
max	3	4	6	6	7	10	8	11	7	6	8	6	49	26	
min	0	0	0	0	0	0	1	0	1	0	0	0	22	5	
<b>Extreme</b>															
mean	3.8	3.9	6.4	10.0	10.7	9.0	9.2	9.4	8.4	6.1	4.6	4.1	85.8	38.2	
max	7	7	12	19	21	14	18	20	15	13	9	10	103	53	
min	0	1	1	2	4	1	4	3	4	2	1	1	65	22	
<b>Very Extreme</b>															
mean	22.8	20.6	18.9	11.3	6.8	4.1	4.9	5.7	10.2	15.0	18.8	21.0	160.1	128.7	
max	29	27	26	28	20	10	12	12	19	24	28	28	199	163	
min	16	13	8	2	0	0	0	0	2	6	8	7	101	90	



Windroses for Blenheim Aero Aws (WBA)



WBA station from 1992-01-01 to 2018-02-28

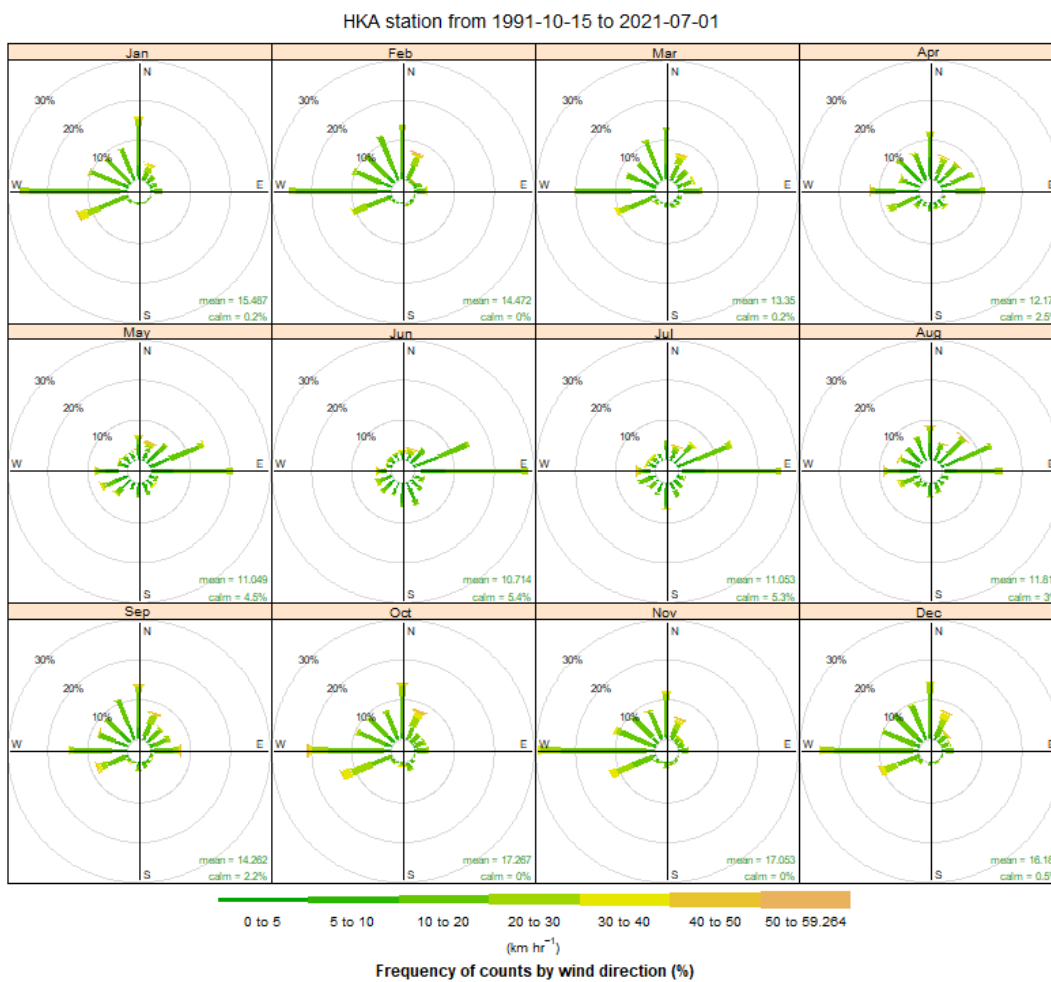
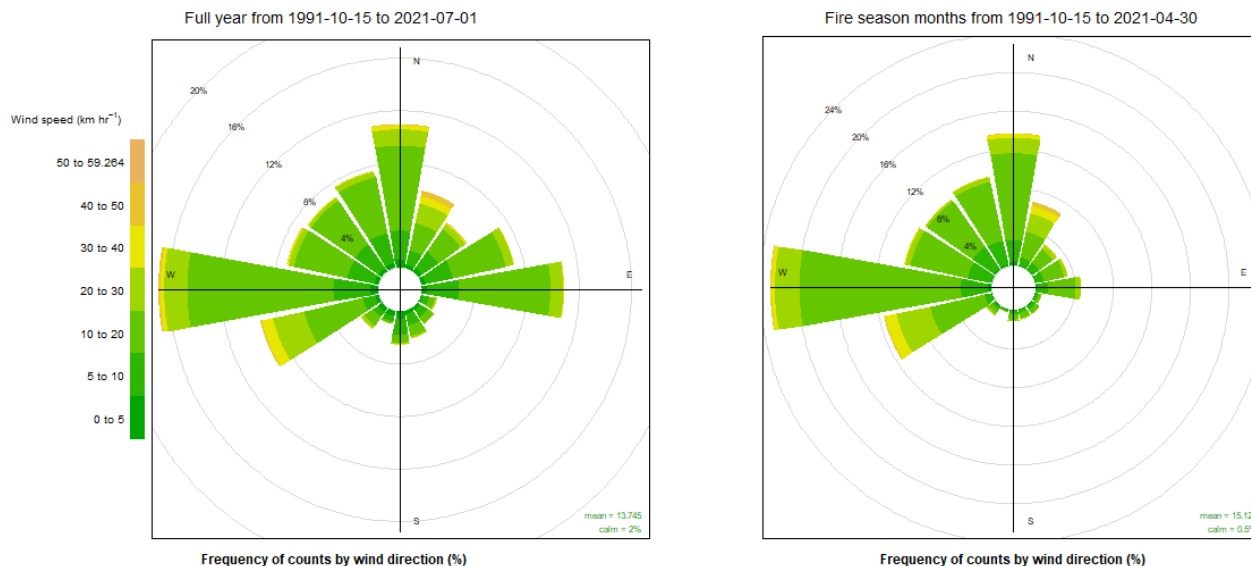


Station Name: Hokitika SYNOP (HKA)													Period: 1965-01-01 - 2021-07-01		Length of record: 56 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	18.0	18.5	17.5	15.3	12.9	10.6	10.2	11.3	12.4	13.6	15.1	16.8	14.3	16.4		
median	18.0	18.4	17.7	15.4	13.0	10.6	10.0	11.1	12.3	13.9	15.0	17.0	14.0	16.1		
max	29.0	27.0	25.8	23.0	21.0	17.0	16.5	20.0	20.7	23.0	25.0	26.0	29.0	29.0		
min	10.0	10.0	9.0	6.7	5.4	3.8	0.2	2.0	5.0	4.4	5.0	8.3	0.2	4.4		
<b>Relative Humidity, %</b>																
mean	75.3	74.6	73.7	74.0	75.3	75.1	72.3	71.3	73.1	74.4	74.0	75.8	74.1	74.5		
median	74.0	74.0	74.0	74.0	76.1	76.0	74.0	74.0	74.0	75.0	73.0	74.0	74.0	74.0		
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
min	21	23	23	22	22	31	25	22	18	23	26	29	18	21		
<b>Wind Speed, km/h</b>																
mean	16.3	15.1	13.8	12.4	10.9	10.4	10.8	12.3	15.0	17.5	17.6	17.3	14.1	15.7		
median	14.8	13.0	13.0	11.1	9.3	9.3	9.3	11.1	13.0	16.7	16.7	16.7	13.0	14.8		
max	52.0	52.0	55.6	51.9	48.2	46.3	59.3	55.6	55.6	59.3	61.1	55.6	61.1	61.1		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>24-hr Rainfall, millimeters</b>																
mean	7.8	6.1	6.9	7.9	7.8	7.9	6.9	7.5	8.2	8.8	7.9	8.5	7.7	7.7		
median	0.1	0.0	0.0	0.2	0.6	0.4	0.2	0.6	2.0	2.0	0.8	1.1	0.4	0.4		
max	154.4	208.6	175.4	147.6	119.1	172.2	135.5	175.3	137.8	111.0	166.3	144.0	208.6	208.6		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	241.2	174.3	211.3	236.6	242.5	235.1	215.3	231.6	246.7	273.5	236.6	264.7	234.1	234.0		
max	585.6	374.2	430.4	526.0	570.6	483.4	452.2	517.2	790.8	500.4	496.9	482.0	790.8	585.6		
min	65.6	15.2	40.1	83.8	94.6	52.0	27.6	48.8	85.4	104.7	38.6	80.3	15.2	15.2		
<b>Seasonal Rainfall, millimetres</b>																
mean													2809.4	1639.4		
max													3735.0	2102.8		
min													2179.4	1088.4		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	62.2	65.2	62.4	57.2	50.5	49.2	52.1	52.6	51.7	53.3	58.2	57.2	56.0	59.4		
median	71.4	75.1	71.5	63.4	51.2	49.0	54.6	53.6	51.8	54.6	63.8	62.8	61.1	66.8		
max	91.5	90.8	91.5	90.1	90.2	88.6	89.0	90.1	92.7	90.9	91.2	89.4	92.7	91.5		
min	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>Duff Moisture Code, DMC</b>																
mean	5.7	7.1	5.5	3.2	2.0	1.5	1.9	2.1	2.3	2.3	4.1	4.4	3.5	4.6		
median	4.4	5.4	4.2	2.2	1.0	0.7	1.0	1.1	1.2	1.5	2.7	3.2	2.1	3.2		
max	28.2	40.0	36.7	24.5	17.3	12.3	15.6	14.5	22.5	17.3	23.1	32.6	40.0	40.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Drought Code, DC</b>																
mean	42.9	55.5	38.8	18.7	8.7	6.5	6.8	6.9	6.5	9.7	22.5	31.6	21.2	31.2		
median	31.9	43.1	23.6	10.8	5.2	4.0	4.3	4.2	3.9	6.8	15.5	21.5	9.6	18.4		
max	204.4	254.3	335.1	204.0	70.3	47.1	46.7	39.2	49.6	52.1	129.7	178.8	335.1	335.1		
min	5.5	4.8	3.3	1.9	0.7	0.4	0.4	0.1	0.6	1.7	3.3	4.9	0.1	1.7		
<b>Initial Spread Index, ISI</b>																
mean	1.9	2.0	1.7	1.3	0.9	0.9	1.1	1.2	1.2	1.3	1.7	1.5	1.4	1.6		
median	1.5	1.7	1.3	0.9	0.3	0.3	0.4	0.4	0.5	0.7	1.1	1.1	0.8	1.2		
max	15.4	19.4	17.9	13.3	15.4	12.2	12.7	24.9	27.9	13.6	17.0	13.3	27.9	19.4		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	8.2	10.3	7.5	4.2	2.4	1.8	2.1	2.3	2.4	2.7	5.4	6.2	4.6	6.3		
median	6.3	8.0	5.6	2.8	1.2	0.9	1.2	1.3	1.4	1.9	3.7	4.5	2.7	4.3		
max	42.0	54.2	57.6	28.5	19.0	12.4	15.9	15.1	22.3	18.9	32.0	44.7	57.6	57.6		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Fire Weather Index, FWI</b>																
mean	2.0	2.4	1.7	1.0	0.6	0.5	0.6	0.8	0.8	0.8	1.5	1.4	1.2	1.5		
median	0.7	0.9	0.6	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.3	0.5		
max	17.7	19.7	20.7	12.9	16.7	12.4	12.3	17.5	26.9	13.4	19.4	14.1	26.9	20.7		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1		
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
max	4.4	5.3	5.8	2.5	4.0	2.3	2.3	4.3	9.2	2.7	5.2	3.0	9.2	5.8		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	6.2	6.9	5.4	2.1	1.2	0.8	1.2	1.9	2.1	1.7	4.5	4.0	3.2	4.4		
max	27.5	25.9	23.4	11.2	10.0	8.3	12.3	8.6	19.5	7.8	21.6	19.5	27.5	27.5		
min	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													38.2	31.2		
max													107.5	83.8		
min													10.8	4.9		

Station Name: Hokitika SYNOP (HKA)      Period: 1965-01-01 - 2021-07-01      Length of record: 56 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	27.5	23.7	28.0	29.4	30.8	29.9	30.8	30.7	29.6	30.8	27.9	28.9	348.0	195.9
max	31	29	31	30	31	30	31	31	30	31	30	31	366	213
min	15	9	14	22	27	27	25	27	23	27	20	18	292	160
<b>Moderate</b>														
mean	3.5	4.5	3.0	0.6	0.2	0.1	0.2	0.3	0.4	0.2	2.1	2.1	17.3	16.3
max	16	20	17	8	4	3	6	4	7	4	10	13	73	53
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	1	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      West Coast (Westland)														
Curing%	30	30	30	20	10	10	10	10	20	20	30	30		
<b>Low</b>														
mean	11.3	9.1	12.0	17.1	25.3	24.3	23.6	23.3	19.5	18.1	13.1	14.2	211.0	95.0
max	21	18	20	26	31	30	31	31	29	29	25	24	254	130
min	3	1	5	5	13	13	9	11	9	10	4	3	156	67
<b>Moderate</b>														
mean	19.5	19.0	18.7	12.9	5.7	5.7	7.4	7.7	10.4	12.8	16.6	16.7	153.3	116.4
max	27	28	26	25	18	17	22	20	20	21	26	28	209	143
min	10	10	11	4	0	0	0	0	1	2	5	7	111	82
<b>High</b>														
mean	0.2	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.0	0.9
max	3	3	2	0	0	0	0	1	1	1	3	1	8	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	11.8	9.1	11.8	13.9	18.1	17.5	16.9	17.1	17.4	17.1	13.8	14.7	179.1	92.2
max	24	18	19	22	30	29	29	29	28	30	24	24	216	123
min	3	1	4	4	6	6	2	6	8	10	4	3	131	68
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.4	0.0
max	0	0	0	0	1	2	1	1	0	0	0	0	2	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.6	2.9	4.0	4.5	5.0	4.8	4.4	4.3	3.6	2.8	2.4	2.6	43.9	21.5
max	8	11	9	10	9	13	11	9	8	9	7	6	59	38
min	0	0	0	0	0	1	0	1	0	0	0	0	27	7
<b>Very High</b>														
mean	4.6	4.5	4.9	4.8	3.6	3.4	3.6	3.3	3.3	4.5	4.2	4.7	49.3	32.1
max	9	10	9	16	9	8	10	9	7	10	10	10	64	51
min	0	1	0	0	0	0	0	0	0	0	1	1	28	19
<b>Extreme</b>														
mean	9.1	8.6	8.0	5.5	3.2	3.3	4.5	4.0	3.9	4.9	7.0	6.5	68.6	49.9
max	18	22	19	13	11	11	17	12	12	15	17	13	98	73
min	1	0	1	0	0	0	0	0	0	0	1	1	37	22
<b>Very Extreme</b>														
mean	2.9	3.0	2.4	1.3	1.0	0.9	1.4	2.2	1.8	1.8	2.6	2.4	23.9	16.6
max	12	11	11	8	8	8	12	12	12	8	13	10	84	42
min	0	0	0	0	0	0	0	0	0	0	0	0	7	1

### Windroses for Hokitika SYNOP (HKA)



Station Name: Reefton Ews (REF)													Period: 1999-07-25 - 2021-07-01		Length of record: 21 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	20.5	20.3	18.3	14.2	10.5	7.4	6.4	9.3	12.3	14.4	16.7	19.0	14.1	17.6		
median	20.6	20.4	18.5	14.2	10.8	7.7	6.6	9.6	12.4	14.5	16.6	18.9	14.2	17.6		
max	29.5	29.5	25.3	22.6	21.2	16.2	14.8	16.0	19.9	22.2	27.0	29.6	29.6	29.6		
min	10.0	9.0	7.7	4.8	0.1	-1.6	-2.5	-0.5	3.0	4.3	6.6	9.7	-2.5	4.3		
<b>Relative Humidity, %</b>																
mean	58.3	60.7	65.9	76.3	85.5	89.7	87.7	80.5	70.4	64.5	59.6	59.3	71.5	63.5		
median	55.0	58.0	65.0	77.5	87.8	92.0	91.6	82.0	70.0	63.0	57.0	56.0	73.0	62.0		
max	100	100	99	100	100	100	100	100	100	99	100	100	100	100		
min	20	28	29	30	32	46	34	34	28	24	21	22	20	20		
<b>Wind Speed, km/h</b>																
mean	8.1	7.5	6.6	6.0	5.1	4.2	4.4	5.4	7.3	8.6	8.8	8.5	6.7	7.8		
median	7.5	6.9	6.0	5.4	4.1	3.2	3.4	4.7	6.3	7.9	8.0	7.9	6.0	7.0		
max	25.9	24.5	32.1	24.4	28.8	23.0	29.0	28.0	26.2	30.8	29.5	31.1	32.1	32.1		
min	0.0	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>24-hr Rainfall, millimetres</b>																
mean	4.2	3.2	3.2	4.9	5.5	6.2	4.9	5.1	5.6	5.7	4.5	5.1	4.9	4.4		
median	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4	0.8	0.8	0.2	0.2	0.0	0.0		
max	82.2	64.2	95.4	89.8	73.4	125.0	71.4	60.6	88.0	69.2	75.8	93.0	125.0	95.4		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	128.7	92.3	97.9	145.0	171.1	186.6	153.1	156.2	170.5	173.6	132.4	163.3	147.6	133.3		
max	239.6	256.4	195.0	361.6	359.8	362.8	351.0	290.8	341.4	405.0	337.8	352.2	405.0	405.0		
min	37.2	17.2	28.2	31.6	33.8	43.8	10.6	82.0	59.0	49.6	17.2	30.8	10.6	17.2		
<b>Seasonal Rainfall, millimetres</b>																
mean													1770.8	936.8		
max													2184.4	1211.6		
min													1298.2	711.8		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	72.0	73.4	70.3	58.9	42.8	31.8	38.5	44.9	54.7	59.1	67.5	68.1	56.8	67.0		
median	82.0	83.6	80.5	64.5	41.2	24.7	35.1	43.0	56.6	61.4	75.3	76.4	61.6	76.0		
max	93.4	92.1	89.9	89.0	86.0	84.3	86.3	85.7	89.9	90.9	92.7	92.6	93.4	93.4		
min	9.6	7.2	10.6	1.3	2.2	1.4	2.2	0.8	1.0	3.9	6.2	5.0	0.8	1.3		
<b>Duff Moisture Code, DMC</b>																
mean	15.2	18.8	15.5	4.6	1.1	0.4	0.6	0.9	2.8	4.8	10.8	14.1	7.4	11.9		
median	12.2	14.9	10.2	3.5	0.5	0.1	0.2	0.5	1.9	3.4	8.3	9.9	3.1	8.0		
max	60.7	68.9	84.7	24.8	12.6	4.2	5.0	9.7	18.1	28.4	49.4	79.7	84.7	84.7		
min	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>Drought Code, DC</b>																
mean	92.9	131.2	136.0	72.0	17.5	4.5	4.6	5.7	7.8	14.3	49.2	84.0	51.4	82.4		
median	80.0	126.3	133.8	53.2	5.8	2.6	3.0	3.9	5.1	10.4	39.0	65.1	16.3	62.4		
max	337.1	348.0	383.2	309.4	212.4	37.0	24.3	26.9	47.9	70.2	200.6	310.5	383.2	383.2		
min	5.7	4.7	3.9	2.2	0.1	0.0	0.0	0.3	0.2	1.7	3.6	5.2	0.0	1.7		
<b>Initial Spread Index, ISI</b>																
mean	2.7	2.6	1.9	0.9	0.4	0.2	0.3	0.4	0.9	1.3	2.1	2.2	1.3	1.9		
median	2.2	2.5	1.6	0.7	0.1	0.0	0.0	0.1	0.4	0.7	1.3	1.4	0.6	1.2		
max	10.9	10.2	7.2	6.2	7.3	3.0	6.0	6.3	11.4	11.2	12.5	14.4	14.4	14.4		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	20.4	26.3	22.4	7.4	1.6	0.6	0.8	1.2	3.0	5.2	13.4	18.6	10.0	16.2		
median	17.0	22.5	16.0	5.7	0.8	0.1	0.4	0.7	2.0	3.8	10.7	13.3	4.1	11.4		
max	83.7	80.1	100.1	41.4	21.6	6.1	5.4	10.1	18.6	28.4	58.9	85.7	100.1	100.1		
min	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	4.7	5.4	3.6	0.9	0.2	0.1	0.1	0.2	0.6	1.1	3.1	3.8	2.0	3.2		
median	2.9	4.1	1.7	0.3	0.0	0.0	0.0	0.0	0.1	0.3	0.8	0.9	0.2	0.8		
max	23.2	27.0	23.9	8.9	6.6	2.0	3.7	4.2	11.4	13.2	20.3	29.0	29.0	29.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	0.8	0.9	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.6	0.3	0.5		
median	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
max	7.1	9.3	7.5	1.3	0.8	0.1	0.3	0.4	2.0	2.6	5.6	10.5	10.5	10.5		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	23.4	24.3	16.4	1.8	0.1	0.0	0.1	0.1	1.1	2.8	13.1	19.2	8.5	14.4		
max	69.0	65.2	80.2	5.3	1.1	0.2	0.5	0.8	5.4	9.4	49.9	117.0	117.0	117.0		
min	1.3	0.5	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.9	1.1	0.0	0.1		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													102.4	100.7		
max													186.2	208.1		
min													38.0	29.7		

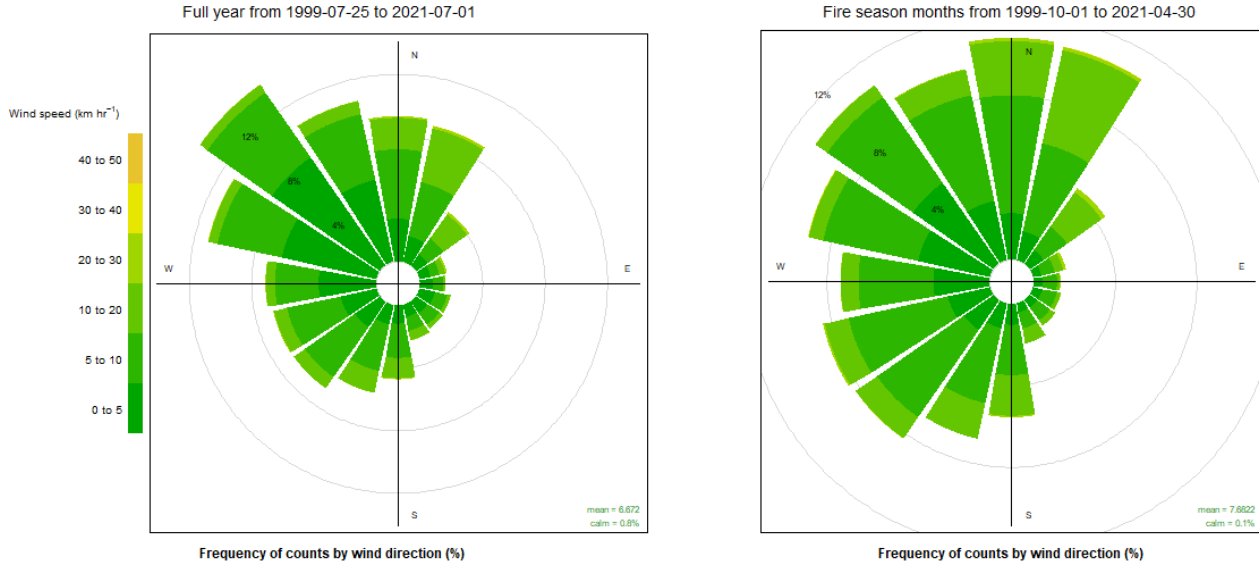
Station Name: Reefton Ews (REF)

Period: 1999-07-25 - 2021-07-01

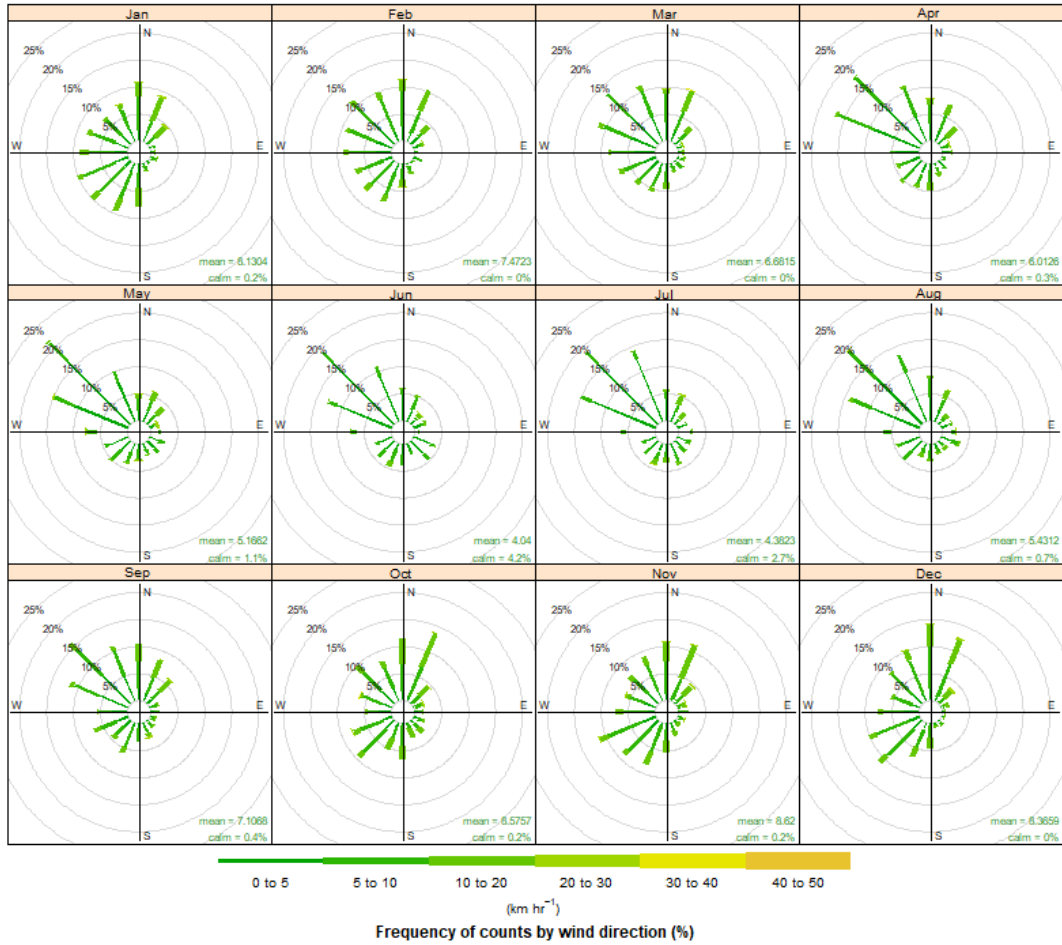
Length of record: 21 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	18.8	15.3	21.0	28.9	31.0	30.0	31.0	31.0	29.7	29.8	22.5	22.5	311.5	158.7
max	31	29	31	30	31	30	31	31	30	31	30	31	348	188
min	7	4	6	23	31	30	31	31	27	25	7	2	286	124
<b>Moderate</b>														
mean	11.0	11.5	9.0	1.1	0.0	0.0	0.0	0.0	0.3	1.2	7.1	6.9	48.2	48.1
max	21	22	22	7	0	0	0	0	3	6	19	14	71	69
min	0	0	0	0	0	0	0	0	0	0	0	0	18	22
<b>High</b>														
mean	1.1	1.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	5.3	5.2
max	8	8	10	0	0	0	0	0	0	0	4	12	19	19
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
max	0	1	0	0	0	0	0	0	0	0	0	4	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source West Coast (Buller)														
Curing%	40	40	40	30	20	20	10	10	20	20	30	30		
<b>Low</b>														
mean	8.6	6.9	9.1	17.2	28.2	29.2	30.5	29.4	21.3	19.1	11.3	12.7	223.6	85.1
max	18	20	13	26	31	30	31	31	30	27	19	22	250	99
min	3	1	5	7	21	24	26	20	13	10	3	2	203	61
<b>Moderate</b>														
mean	21.6	21.2	21.9	12.8	2.8	0.8	0.5	1.6	8.7	11.9	18.4	18.2	140.3	125.9
max	26	27	26	23	10	6	5	11	17	21	27	28	160	147
min	13	9	18	4	0	0	0	0	0	4	11	9	113	113
<b>High</b>														
mean	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	1.4	1.3
max	4	1	0	0	0	0	0	0	0	0	3	1	6	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	7.6	6.4	7.8	13.4	22.4	25.0	23.2	21.2	16.3	15.0	9.0	10.4	177.6	69.9
max	15	19	12	24	29	30	31	29	27	23	18	19	221	87
min	2	1	3	4	10	12	7	15	7	6	3	0	132	45
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.2
max	0	0	0	1	1	1	1	1	0	1	0	1	3	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	4.9	4.1	5.9	7.4	6.8	4.4	6.1	6.7	5.7	5.6	5.7	5.0	68.3	38.2
max	17	8	11	12	17	15	15	13	10	9	9	8	89	59
min	1	0	1	1	1	0	0	1	3	2	2	2	46	27
<b>Very High</b>														
mean	2.7	2.6	4.0	4.8	1.4	0.5	1.2	2.1	3.6	3.1	3.1	3.7	32.8	23.7
max	6	5	8	10	6	5	10	8	9	5	6	7	47	35
min	0	0	0	0	0	0	0	0	0	1	0	2	20	12
<b>Extreme</b>														
mean	7.5	9.2	10.8	4.0	0.2	0.1	0.3	0.9	3.8	5.6	6.7	5.3	54.5	49.3
max	16	15	22	12	2	2	3	9	11	16	13	9	76	62
min	3	2	5	0	0	0	0	0	0	1	3	1	34	37
<b>Very Extreme</b>														
mean	8.3	6.0	2.5	0.1	0.1	0.0	0.0	0.0	0.7	1.7	5.5	6.5	31.5	31.0
max	19	14	10	2	1	0	1	1	6	8	18	17	53	52
min	0	0	0	0	0	0	0	0	0	0	0	0	13	9

Windroses for Reefton Ews (REF)



REF station from 1999-07-25 to 2021-07-01



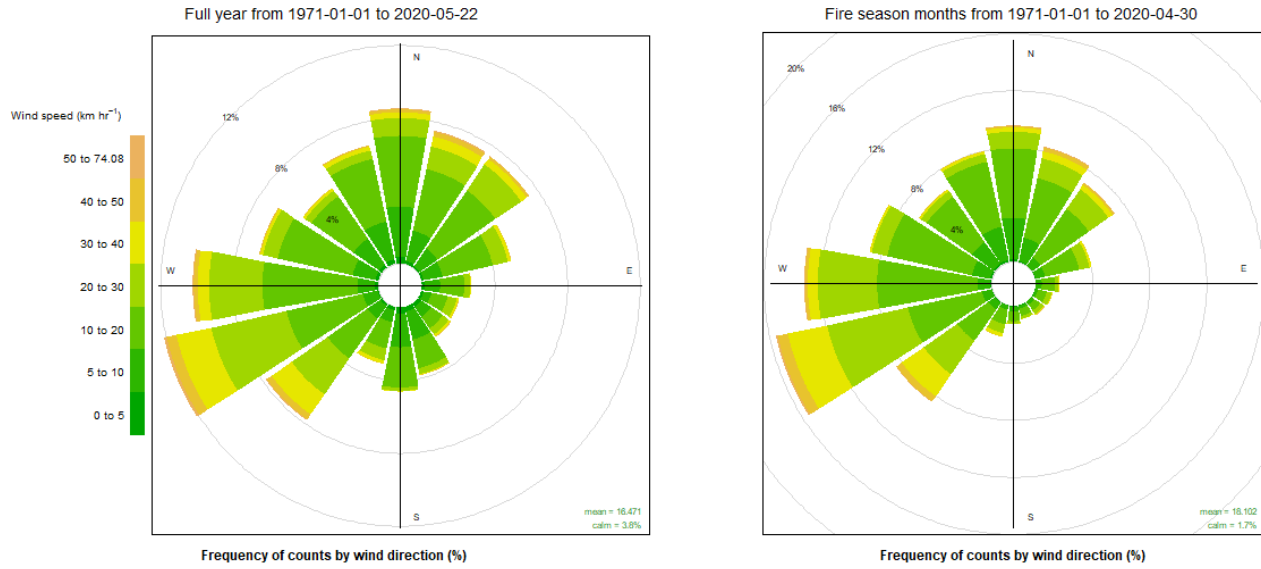
Station Name: Westport Aero Aws (WSA)	Period: 1971-01-01 - 2021-07-01												Length of record: 50 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	18.6	19.1	18.2	16.1	13.8	11.5	11.1	11.9	13.1	14.1	15.5	17.1	15.0	16.9
median	18.4	19.0	18.0	16.0	14.0	11.7	11.0	12.0	13.0	14.0	15.5	17.0	15.0	17.0
max	26.0	26.0	26.5	25.0	22.0	17.8	18.0	18.0	22.6	21.0	24.3	24.4	26.5	26.5
min	10.7	11.0	9.4	7.2	5.2	4.0	0.2	4.0	4.0	5.7	7.7	8.0	0.2	5.7
<b>Relative Humidity, %</b>														
mean	74.0	73.5	72.8	73.6	75.4	75.1	72.8	72.0	73.5	75.1	73.4	75.3	73.9	74.0
median	73.0	73.0	73.0	73.8	76.0	76.1	73.7	74.0	74.2	75.0	72.8	74.3	74.0	73.2
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	32.0	24.0	24.8	19.0	28.4	22.4	23.9	17.6	21.0	28.6	22.8	29.9	17.6	19.0
<b>Wind Speed, km/h</b>														
mean	18.7	17.2	16.3	14.8	13.0	13.1	12.8	14.2	18.0	20.5	20.5	19.3	16.5	18.2
median	17.0	15.0	15.0	13.0	11.0	11.0	11.0	13.0	15.0	19.0	19.0	18.5	15.0	17.0
max	65.0	65.0	67.0	74.1	74.0	65.0	70.4	65.0	72.1	74.0	59.0	74.0	74.1	74.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	5.5	4.4	5.0	5.9	6.4	6.8	6.0	5.9	6.3	6.5	5.5	6.6	5.9	5.6
median	0.0	0.0	0.0	0.2	1.0	0.9	0.4	0.8	1.8	1.8	0.6	0.6	0.4	0.2
max	148.5	99.6	127.0	110.9	89.0	94.5	104.2	141.8	108.4	154.0	73.0	91.0	154.0	154.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	170.3	124.6	154.9	174.4	196.7	203.7	186.2	181.6	188.8	202.6	163.7	203.4	179.2	170.6
max	395.4	253.4	329.5	432.9	371.0	380.6	325.2	372.0	362.0	376.8	353.0	340.4	432.9	432.9
min	0.6	39.0	28.8	38.6	46.0	66.6	39.6	61.0	53.8	79.8	22.2	46.2	0.6	0.6
<b>Seasonal Rainfall, millimetres</b>														
mean													2150.9	1196.5
max													2705.2	1685.9
min													1522.0	790.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	65.9	68.1	66.5	60.9	54.1	52.0	54.1	55.2	54.6	56.3	61.4	60.2	59.1	62.7
median	75.5	77.8	76.4	68.5	55.3	52.2	56.6	56.8	55.3	59.1	66.6	66.1	64.5	70.7
max	89.9	91.0	92.4	90.3	89.6	91.0	89.6	89.4	90.3	88.3	90.5	89.0	92.4	92.4
min	2.8	0.3	2.2	0.0	1.1	0.0	0.0	2.9	0.0	1.7	0.0	1.5	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	7.1	7.9	6.8	4.1	2.0	1.4	1.7	1.9	2.3	2.3	4.5	5.1	3.9	5.4
median	5.5	6.3	5.1	2.7	1.0	0.6	0.9	1.1	1.3	1.7	3.2	3.7	2.3	3.8
max	41.6	46.8	52.8	36.2	21.3	12.0	14.5	13.7	22.9	16.3	30.2	44.5	52.8	52.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	62.4	81.6	65.7	33.8	12.9	7.6	7.1	6.9	7.2	11.4	28.2	40.7	30.3	46.1
median	47.1	69.6	45.2	20.0	5.7	4.2	4.3	4.4	4.3	8.2	20.1	29.3	12.2	27.6
max	371.2	427.5	289.4	282.7	133.7	83.7	43.1	39.0	62.2	55.3	151.4	278.5	427.5	427.5
min	5.9	5.0	3.4	2.0	0.6	0.4	0.6	0.4	0.4	2.0	3.8	4.8	0.4	2.0
<b>Initial Spread Index, ISI</b>														
mean	2.6	2.7	2.4	1.7	1.0	1.1	1.2	1.3	1.4	1.6	2.3	2.0	1.8	2.2
median	2.0	2.1	1.9	1.2	0.5	0.4	0.6	0.6	0.7	1.1	1.6	1.4	1.1	1.6
max	23.1	24.3	30.2	13.8	17.1	29.2	14.2	18.3	20.2	18.3	20.8	25.9	30.2	30.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	10.5	12.0	10.0	5.7	2.6	1.7	2.0	2.1	2.5	2.8	6.2	7.4	5.4	7.8
median	8.2	9.9	7.7	3.8	1.4	0.8	1.2	1.3	1.4	2.1	4.3	5.3	3.0	5.4
max	64.9	72.8	72.0	48.2	25.4	13.4	14.7	13.7	23.4	17.7	40.3	56.9	72.8	72.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	3.1	3.3	2.8	1.5	0.6	0.6	0.7	0.7	0.9	1.0	2.2	2.0	1.6	2.3
median	1.5	1.8	1.0	0.4	0.2	0.1	0.2	0.2	0.2	0.3	0.6	0.6	0.4	0.7
max	33.7	28.3	35.9	17.2	15.4	23.3	11.1	16.0	18.1	15.5	23.9	31.9	35.9	35.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	0.4	0.4	0.4	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3
median	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
max	13.8	10.1	15.4	4.2	3.5	7.1	1.9	3.7	4.6	3.5	7.5	12.5	15.4	15.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	13.1	12.1	11.4	4.4	1.3	1.4	1.3	1.6	2.3	2.2	7.4	7.3	5.5	8.3
max	78.4	52.5	112.9	19.6	6.8	20.8	8.2	9.8	14.2	11.0	44.2	76.3	112.9	112.9
min	0.5	0.5	0.8	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.4	0.0	0.0
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													65.7	57.8
max													210.2	201.9
min													13.2	7.6



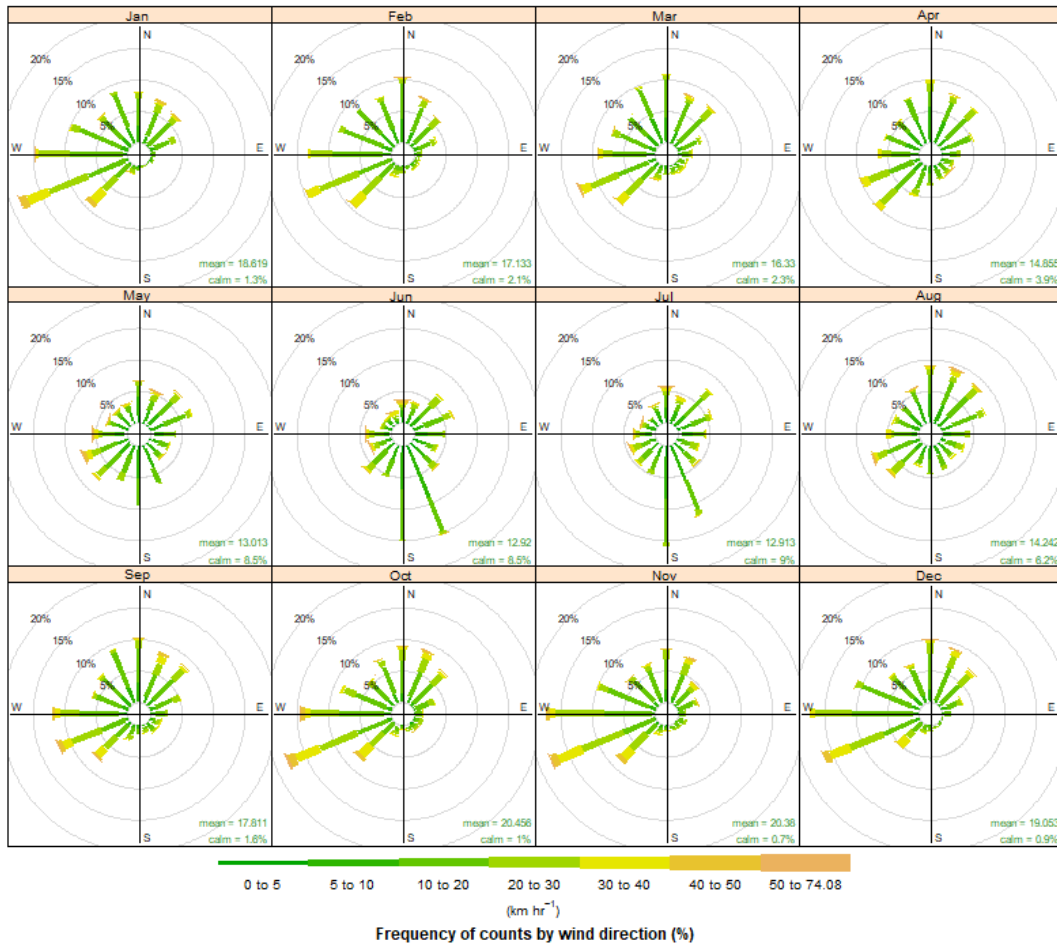
Station Name: Westport Aero Aws (WSA)      Period: 1971-01-01 - 2021-07-01      Length of record: 50 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	24.8	21.8	25.8	28.3	30.7	29.8	30.9	30.8	29.4	30.8	27.1	27.9	338.3	186.7
max	31	29	31	30	31	30	31	31	30	31	30	31	365	212
min	1	7	5	15	26	26	27	28	22	27	16	1	299	144
<b>Moderate</b>														
mean	5.9	6.2	4.8	1.7	0.3	0.2	0.1	0.2	0.6	0.2	2.8	3.0	25.9	24.5
max	24	21	18	15	5	4	4	3	8	4	13	25	55	61
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<b>High</b>														
mean	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.9	0.9
max	5	3	3	0	0	0	0	0	0	0	2	4	6	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	0	3	0	0	0	0	0	0	0	0	1	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	1	0	2	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      West Coast (Buller)														
Curing%	40	40	40	30	20	20	10	10	20	20	30	30		
<b>Low</b>														
mean	8.5	7.0	8.9	12.4	20.5	20.2	22.7	23.1	17.4	15.5	11.0	11.8	179.0	75.5
max	18	15	19	21	30	30	31	30	30	27	26	24	237	114
min	0	1	0	2	6	9	10	12	7	5	3	0	122	48
<b>Moderate</b>														
mean	20.9	20.0	21.1	17.2	10.5	9.7	8.3	7.9	12.5	15.4	18.4	18.8	180.8	131.5
max	29	26	29	26	25	21	21	19	23	25	26	27	230	156
min	13	13	12	9	1	0	0	1	0	4	4	7	126	98
<b>High</b>														
mean	1.6	1.2	1.0	0.3	0.0	0.2	0.0	0.0	0.0	0.1	0.6	0.4	5.4	5.3
max	7	7	7	2	1	3	0	0	1	1	5	4	17	18
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
max	0	0	2	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	9.9	8.0	9.7	12.6	16.9	17.2	16.5	16.5	16.6	15.8	12.5	13.4	165.7	82.1
max	21	16	20	23	29	30	27	27	29	29	26	22	217	114
min	0	1	1	3	5	7	5	7	8	5	3	0	130	52
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.4	0.0
max	0	0	0	0	2	1	1	1	1	0	0	0	3	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.8	2.1	2.7	3.6	5.0	4.3	4.0	4.4	2.8	2.1	2.0	2.3	37.0	16.5
max	6	7	8	9	10	13	12	9	6	6	6	6	58	30
min	0	0	0	0	1	0	0	0	0	0	0	0	25	8
<b>Very High</b>														
mean	4.2	4.1	4.4	4.2	4.2	3.6	4.0	3.8	3.5	4.4	3.3	3.9	47.6	28.5
max	11	12	10	10	15	9	10	10	8	11	9	9	76	49
min	0	0	1	0	0	0	0	1	0	0	0	0	31	15
<b>Extreme</b>														
mean	9.3	8.8	9.2	6.8	3.9	3.4	4.8	4.5	4.6	5.6	7.1	7.3	75.3	54.2
max	17	17	21	16	14	11	12	13	10	13	16	14	102	69
min	4	0	2	0	0	0	0	1	0	0	0	1	42	38
<b>Very Extreme</b>														
mean	5.8	5.3	5.0	2.8	1.0	1.3	1.7	1.7	2.4	3.0	5.2	4.2	39.4	31.0
max	16	15	13	9	6	8	8	8	11	10	17	13	74	58
min	0	0	0	0	0	0	0	0	0	0	0	0	9	2

### Windroses for Westport Aero Aws (WSA)



### WSA station from 1971-01-01 to 2020-05-22



Station Name: Balmoral Raws (BML)		Period: 1994-11-06 - 2021-07-01											Length of record: 26 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	21.9	22.0	19.5	15.9	12.8	9.2	8.8	10.9	13.7	15.7	17.7	20.5	15.7	19.0
median	22.1	22.3	19.6	15.9	12.4	8.7	8.4	10.6	14.0	16.0	17.9	20.7	15.6	19.1
max	35.2	36.3	33.0	27.6	24.9	22.1	20.4	21.4	25.5	27.5	32.1	31.9	36.3	36.3
min	7.5	8.0	6.8	3.4	3.2	-0.9	-0.7	0.6	0.2	0.0	3.0	5.5	-0.9	0.0
<b>Relative Humidity, %</b>														
mean	49.4	49.6	52.9	59.7	64.0	70.8	68.1	61.9	54.7	53.9	51.3	49.2	57.1	52.3
median	47.0	47.0	51.0	57.4	63.0	72.0	68.0	59.0	51.0	50.0	48.0	46.5	54.5	49.0
max	100.0	100.0	95.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	100.0	100.0
min	8	12	12	17	20	24	29	13	14	13	15	13	8	8
<b>Wind Speed, km/h</b>														
mean	12.9	11.7	10.6	9.1	8.1	6.9	7.0	8.7	11.4	13.4	14.2	13.3	10.6	12.2
median	10.8	9.7	8.8	7.0	5.7	4.9	5.0	6.3	9.0	10.6	11.5	11.2	8.4	9.9
max	45.0	44.7	39.6	41.8	41.5	43.2	37.9	48.6	47.4	55.4	47.2	54.0	55.4	55.4
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	1.4	1.4	1.4	1.8	1.7	2.1	1.7	1.8	1.5	1.9	1.5	1.4	1.6	1.5
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	56.0	78.6	55.6	38.0	71.8	44.0	58.4	118.6	55.8	29.8	43.2	50.4	118.6	78.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	43.8	41.7	44.3	54.2	49.6	63.9	53.2	55.7	44.3	58.5	44.5	45.3	49.9	47.5
max	156.0	143.4	141.0	124.8	162.4	159.8	124.6	186.0	142.8	123.2	107.8	107.2	186.0	156.0
min	5.8	7.6	9.8	9.6	4.4	16.2	14.8	11.2	6.6	21.4	5.2	1.6	1.6	1.6
<b>Seasonal Rainfall, millimetres</b>														
mean													599.2	330.4
max													909.6	515.4
min													314.4	151.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	81.7	82.5	79.8	74.2	70.9	62.6	65.3	70.7	76.0	75.3	79.1	81.6	75.0	79.2
median	87.9	88.1	86.6	82.9	80.4	71.9	74.5	79.7	84.0	83.7	86.3	87.3	83.6	86.3
max	98.1	96.8	95.6	94.7	93.0	89.5	89.9	90.7	95.0	94.9	95.0	96.0	98.1	98.1
min	1.5	5.3	11.1	5.2	3.0	1.3	2.9	5.0	0.0	0.7	2.0	5.8	0.0	0.7
<b>Duff Moisture Code, DMC</b>														
mean	45.6	51.9	41.3	25.7	17.1	6.8	4.3	7.4	15.8	17.0	28.9	42.2	25.4	36.1
median	36.8	45.8	35.0	19.8	11.8	4.6	3.7	6.7	14.2	15.3	25.8	35.0	17.0	28.5
max	140.0	160.3	142.4	103.6	100.3	43.9	14.7	25.6	55.6	62.8	90.4	120.7	160.3	160.3
min	1.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.1	1.8	0.0	0.0
<b>Drought Code, DC</b>														
mean	393.4	487.4	495.2	453.9	386.7	268.9	192.6	142.1	135.2	139.6	193.4	294.2	299.4	350.8
median	405.1	483.8	485.7	432.2	345.5	237.7	171.8	114.1	107.0	108.7	178.0	290.6	270.9	337.0
max	771.1	891.1	929.6	931.7	898.7	726.8	541.5	436.8	412.5	476.7	571.7	653.7	931.7	931.7
min	79.8	114.0	112.9	105.8	55.8	0.0	0.0	0.6	0.6	2.2	18.4	62.3	0.0	2.2
<b>Initial Spread Index, ISI</b>														
mean	7.2	6.7	5.2	3.4	2.6	1.6	1.6	2.5	4.1	4.8	6.2	7.1	4.4	5.8
median	5.4	5.3	4.0	2.4	1.7	0.9	1.0	1.5	3.0	3.2	4.4	5.2	2.7	4.2
max	72.2	47.5	31.8	40.4	35.3	22.3	19.8	35.3	32.9	44.5	39.2	66.1	72.2	72.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	68.3	80.0	66.4	43.7	29.9	12.5	7.6	11.8	22.0	23.9	39.3	58.7	38.7	54.3
median	58.9	73.1	59.6	34.7	21.6	8.7	6.4	10.4	20.3	20.7	36.4	53.4	27.0	45.0
max	185.2	212.3	202.0	162.1	156.8	69.5	24.9	43.8	58.0	94.5	102.7	138.8	212.3	212.3
min	2.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.2	3.3	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	18.7	19.3	14.6	8.4	5.3	2.1	1.5	3.0	6.6	7.9	12.6	17.4	9.8	14.1
median	16.0	16.8	12.9	5.3	2.8	0.5	0.5	1.0	5.1	5.3	10.4	15.7	5.3	10.9
max	83.8	96.6	62.9	78.7	50.8	32.8	18.4	32.3	45.7	59.2	61.0	82.0	96.6	96.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	7.0	7.2	4.6	2.2	1.1	0.3	0.1	0.4	1.3	1.9	3.7	6.3	3.0	4.7
median	3.7	4.0	2.5	0.5	0.2	0.0	0.0	0.0	0.5	0.5	1.7	3.6	0.5	1.9
max	69.0	88.8	41.5	61.8	28.4	13.1	4.7	12.8	23.6	37.3	39.3	66.4	88.8	88.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	222.4	208.0	143.3	61.7	32.0	9.6	4.0	12.0	39.0	57.9	112.9	188.4	90.9	142.1
max	508.3	556.3	406.7	329.2	106.4	55.6	13.4	31.8	111.5	219.0	325.8	439.4	556.3	556.3
min	42.8	37.7	16.7	3.8	0.5	0.1	0.2	0.9	12.9	12.6	19.7	8.8	0.1	3.8
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1091.1	988.1
max													2165.8	2229.9
min													351.0	279.8

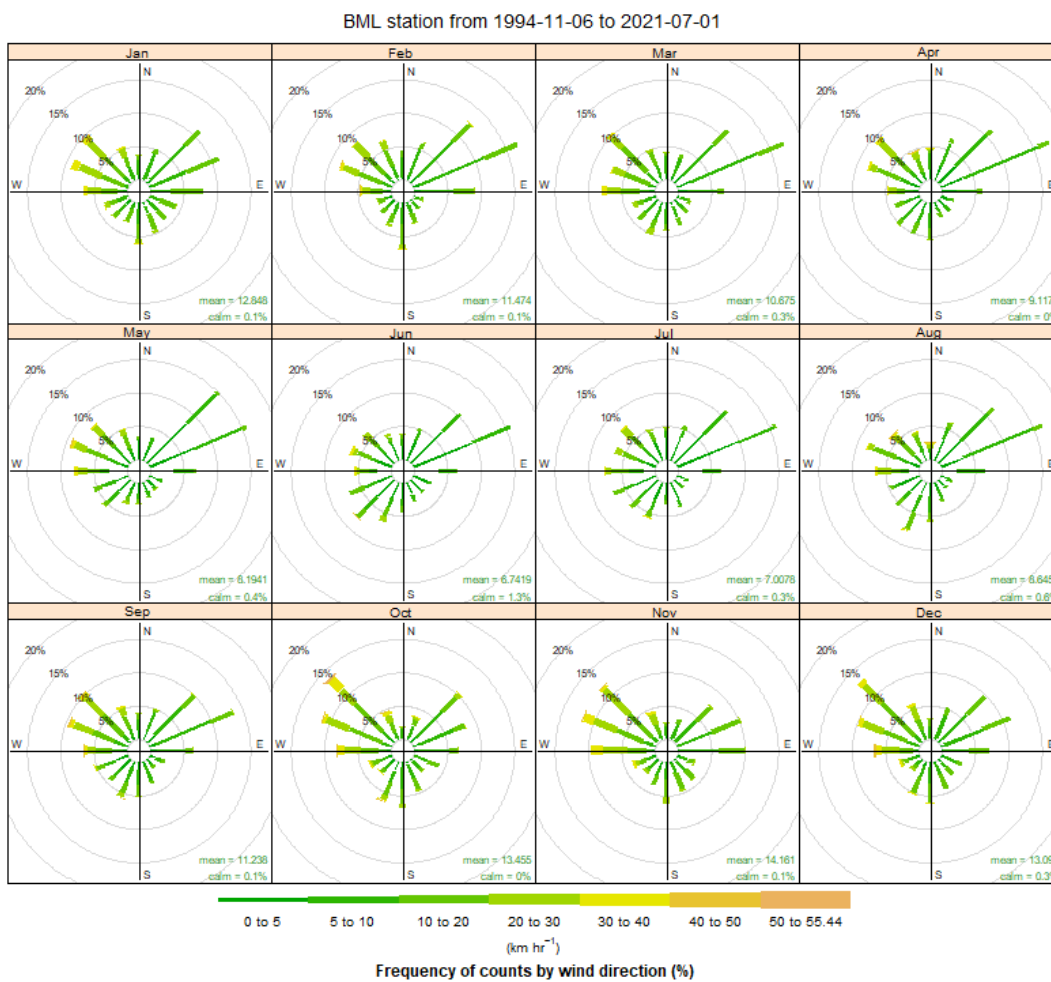
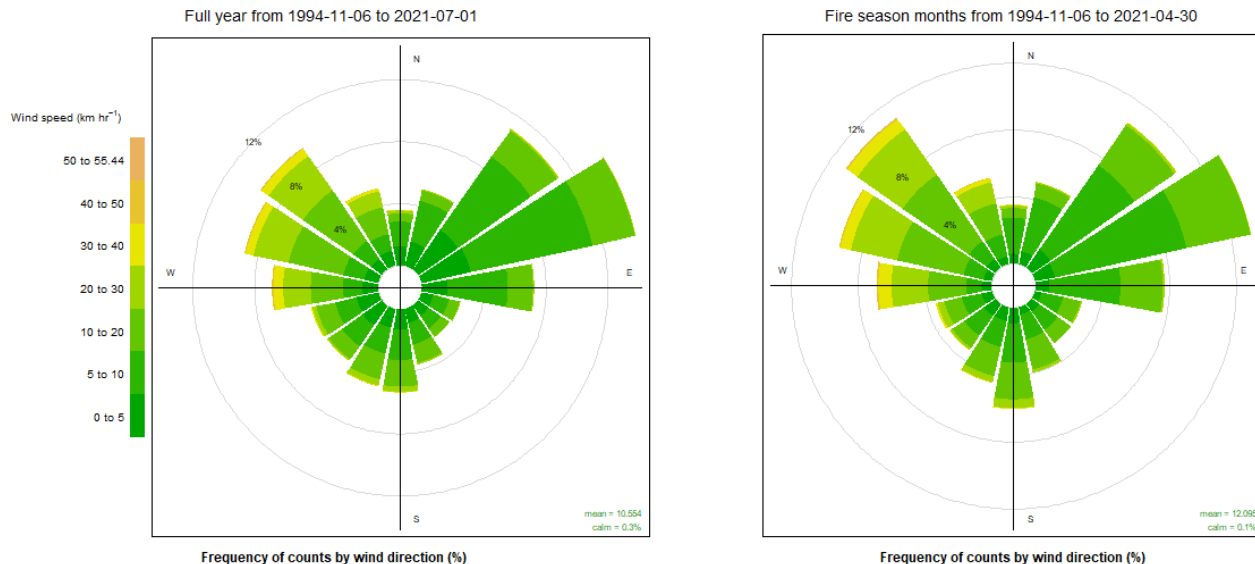
Station Name: Balmoral Raws (BML)

Period: 1994-11-06 - 2021-07-01

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	6.0	5.2	7.7	14.2	19.5	25.9	29.5	24.6	15.1	14.9	8.9	7.3	178.8	63.7
max	16	13	22	29	31	30	31	31	27	25	22	25	249	115
min	0	0	0	2	2	15	23	14	2	4	1	0	111	24
<b>Moderate</b>														
mean	8.8	7.7	11.4	10.8	9.2	3.7	1.5	6.2	12.5	11.9	12.1	8.6	104.5	72.0
max	17	17	21	19	23	13	8	17	22	20	23	14	144	92
min	1	2	4	1	0	0	0	0	3	6	7	2	86	51
<b>High</b>														
mean	7.2	6.8	6.4	3.0	1.7	0.3	0.0	0.2	2.0	3.0	5.1	7.3	43.1	39.2
max	12	14	15	11	7	3	0	2	6	8	12	14	62	54
min	2	2	0	0	0	0	0	0	0	0	0	0	16	14
<b>Very High</b>														
mean	3.1	3.0	2.1	1.1	0.4	0.1	0.0	0.0	0.3	0.8	1.8	3.4	16.2	15.1
max	7	6	6	6	3	2	0	0	3	6	6	10	33	29
min	0	0	0	0	0	0	0	0	0	0	0	0	4	1
<b>Extreme</b>														
mean	3.7	3.5	2.4	0.6	0.1	0.0	0.0	0.0	0.1	0.3	1.7	2.8	15.2	14.9
max	9	10	7	4	1	0	0	0	2	4	9	9	39	34
min	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Very Extreme</b>														
mean	2.2	2.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	7.6	7.4
max	10	12	8	4	1	0	0	0	0	1	2	8	31	32
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Canterbury (Foothills (N of Rakaia))														
Curing%	80	90	90	70	55	25	15	25	35	40	65	75		
<b>Low</b>														
mean	2.5	1.8	3.0	5.5	7.8	15.5	18.7	10.9	5.8	5.9	3.5	2.6	83.5	24.6
max	9	8	10	16	19	27	27	24	11	13	11	8	131	49
min	0	0	0	0	0	7	9	3	1	2	0	0	50	6
<b>Moderate</b>														
mean	8.9	7.4	9.7	19.0	20.4	14.1	12.2	19.5	20.8	19.2	16.2	11.5	179.0	92.0
max	14	19	20	25	29	23	22	28	28	25	25	19	209	121
min	2	2	4	12	10	2	4	7	15	14	10	3	158	71
<b>High</b>														
mean	11.9	11.0	12.7	4.7	2.6	0.3	0.0	0.6	3.3	5.5	8.2	11.3	72.2	65.9
max	21	18	19	13	7	2	1	2	7	11	15	19	103	90
min	5	5	5	0	0	0	0	0	1	0	3	4	50	43
<b>Very High</b>														
mean	4.5	4.6	3.2	0.7	0.2	0.0	0.0	0.0	0.1	0.5	1.8	4.0	19.6	19.1
max	11	9	6	4	2	0	0	0	1	2	7	10	30	43
min	1	0	0	0	0	0	0	0	0	0	0	0	6	11
<b>Extreme</b>														
mean	3.1	3.2	2.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	10.5	10.2
max	8	10	8	1	1	0	0	0	0	0	2	7	26	26
min	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<b>Very Extreme</b>														
mean	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
max	1	2	1	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.5	2.7	3.8	6.2	7.3	10.5	9.7	7.4	5.1	5.6	3.9	3.3	68.8	28.5
max	10	9	11	17	20	20	16	23	10	13	12	10	114	53
min	0	0	0	0	0	3	3	1	1	2	0	0	36	9
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.1
max	1	0	0	0	0	1	1	1	0	0	0	1	2	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.8	2.0	3.0	4.1	6.4	7.7	8.6	6.3	3.5	3.5	2.8	2.6	52.2	19.6
max	5	7	8	8	17	14	14	11	8	6	6	8	67	36
min	0	0	0	0	0	1	3	1	1	0	0	0	27	10
<b>Very High</b>														
mean	2.0	2.0	2.1	3.8	4.1	5.6	5.0	4.3	3.1	3.0	2.3	1.3	38.7	16.5
max	6	6	8	10	10	12	13	10	8	6	7	3	62	24
min	0	0	0	1	0	1	2	1	0	0	0	0	27	8
<b>Extreme</b>														
mean	4.7	4.5	7.8	7.8	7.5	3.5	5.3	7.6	7.0	6.1	5.9	5.9	73.6	43.4
max	8	14	13	16	15	10	12	14	16	12	12	12	96	56
min	0	0	2	3	0	0	0	3	1	3	1	2	53	29
<b>Very Extreme</b>														
mean	19.0	17.0	14.3	8.1	5.7	2.8	2.3	5.3	11.3	12.8	15.1	17.8	131.7	104.2
max	28	26	23	24	16	10	8	13	21	22	26	28	176	148
min	9	6	3	2	0	0	0	0	6	3	6	5	84	71

Windroses for Balmoral Raws (BML)



Station Name: Bottle Lake Forest Raws  
(BTL)

Period: 1993-10-28 - 2021-07-01

Length of record: 27 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	20.2	20.2	18.7	16.0	13.4	10.1	9.6	11.3	13.5	15.3	17.1	18.9	15.4	18.0
median	19.7	19.7	18.3	15.6	13.1	9.9	9.4	11.0	13.1	14.6	16.4	18.2	15.1	17.6
max	35.2	36.3	33.8	28.2	26.9	22.1	19.0	22.4	27.0	28.9	30.9	32.5	36.3	36.3
min	8.7	9.8	8.9	4.1	3.2	0.1	0.8	2.0	1.4	4.8	5.4	8.1	0.1	4.1
<b>Relative Humidity, %</b>														
mean	59.9	61.8	62.9	66.9	71.8	77.9	76.4	69.0	62.2	60.4	57.7	59.8	65.6	61.3
median	62.0	63.5	64.1	67.0	72.0	79.4	77.0	69.0	62.0	62.0	59.0	61.8	66.0	63.0
max	97.7	97.0	99.0	99.0	100.0	100.0	100.0	99.0	99.0	99.0	98.8	97.0	100.0	99.0
min	18.0	15.8	20.3	26.5	27.2	31.0	35.0	18.0	18.5	18.0	21.0	16.0	15.8	15.8
<b>Wind Speed, km/h</b>														
mean	11.3	10.7	9.4	8.4	7.1	6.6	6.8	8.7	9.8	11.1	11.6	11.4	9.4	10.6
median	10.8	10.1	8.8	7.6	6.3	5.4	5.5	7.5	9.0	10.4	11.0	11.2	8.8	10.0
max	31.0	28.8	31.8	32.1	27.7	36.5	30.6	55.4	32.8	55.4	34.5	37.4	55.4	55.4
min	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	1.2	1.2	1.3	1.7	1.7	2.0	1.8	1.5	1.1	1.3	1.2	1.4	1.4	1.3
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	47.0	69.0	95.6	78.6	56.4	68.2	70.0	55.6	47.8	46.6	31.4	43.6	95.6	95.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	39.0	33.7	41.5	51.0	50.7	58.2	55.2	46.9	33.2	39.6	35.4	41.9	43.9	40.3
max	127.6	136.1	150.6	182.0	142.0	194.2	190.2	120.0	110.6	105.0	101.6	109.8	194.2	182.0
min	3.8	6.4	4.0	4.6	14.2	4.0	7.2	1.4	2.2	9.0	1.6	1.0	1.0	1.0
<b>Seasonal Rainfall, millimetres</b>														
mean													526.2	279.7
max													773.0	530.8
min													309.8	142.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	80.1	80.1	77.9	73.7	68.9	61.2	62.7	70.1	76.8	76.8	79.2	78.8	73.9	78.1
median	85.0	84.8	83.8	82.3	78.3	69.5	71.5	78.6	82.5	83.1	84.4	84.4	81.8	84.0
max	95.3	95.6	94.9	92.4	90.6	88.0	88.3	91.2	93.3	95.0	93.9	95.4	95.6	95.6
min	10.1	17.7	7.4	5.6	4.8	4.0	0.0	4.7	4.0	9.9	14.5	6.8	0.0	5.6
<b>Duff Moisture Code, DMC</b>														
mean	38.9	40.9	32.2	23.9	12.9	6.3	4.0	7.0	15.7	20.1	28.8	34.8	22.1	31.3
median	31.9	35.9	28.1	18.2	9.7	3.6	2.9	6.3	14.1	17.3	26.0	28.5	16.3	26.1
max	166.3	128.1	89.1	99.1	100.2	32.5	28.4	30.3	45.9	63.7	95.6	119.5	166.3	166.3
min	0.1	4.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6	0.6	0.0	0.0
<b>Drought Code, DC</b>														
mean	432.0	518.3	523.4	493.6	400.5	286.2	217.6	169.2	167.4	186.2	254.0	347.4	333.7	393.1
median	427.7	523.9	531.7	502.5	392.0	273.9	219.7	132.7	144.4	166.4	234.0	341.6	329.6	393.5
max	826.6	849.0	876.2	846.5	815.6	642.5	577.5	449.3	495.1	518.1	534.2	633.3	876.2	876.2
min	122.8	93.0	127.6	2.4	3.9	0.2	0.7	0.4	1.1	0.9	16.8	95.2	0.2	0.9
<b>Initial Spread Index, ISI</b>														
mean	4.1	3.8	3.2	2.4	1.7	1.1	1.1	1.9	2.9	3.2	3.9	4.0	2.8	3.5
median	3.6	3.5	2.8	2.2	1.3	0.8	0.9	1.5	2.4	2.8	3.3	3.5	2.1	3.1
max	17.4	25.0	17.4	15.2	10.9	8.9	10.0	13.1	20.4	34.5	20.6	21.7	34.5	34.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	61.3	66.7	54.3	41.4	23.1	11.5	7.3	11.7	22.6	29.0	42.6	53.3	35.4	49.7
median	53.4	60.5	49.3	33.4	18.0	6.7	5.3	10.6	20.5	26.1	39.5	47.1	27.4	42.6
max	217.1	186.1	138.4	151.6	153.2	55.4	48.5	51.4	57.2	95.1	109.4	161.9	217.1	217.1
min	0.2	7.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.2	1.2	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	11.9	11.8	9.2	6.3	3.0	1.4	0.9	2.2	4.9	6.4	9.5	11.0	6.6	9.4
median	10.6	10.9	8.0	4.9	1.5	0.4	0.4	0.9	4.0	5.4	8.7	9.2	4.1	8.0
max	43.1	54.8	50.4	36.6	24.6	14.2	10.9	19.0	32.7	43.3	38.0	52.9	54.8	54.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	3.0	2.9	2.0	1.1	0.4	0.1	0.1	0.2	0.7	1.1	2.1	2.8	1.4	2.1
median	1.8	1.9	1.1	0.5	0.1	0.0	0.0	0.0	0.3	0.5	1.2	1.4	0.3	1.1
max	21.2	32.5	28.1	15.9	7.9	3.0	1.9	5.0	13.0	21.4	17.0	30.5	32.5	32.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	93.1	81.7	61.4	32.6	11.8	3.8	1.8	6.7	21.2	34.5	62.8	89.6	41.8	65.1
max	247.7	213.8	176.9	156.8	63.5	24.2	7.9	23.6	55.4	114.0	139.5	282.9	282.9	282.9
min	3.9	11.8	3.9	1.2	0.3	0.0	0.1	0.2	6.3	4.5	14.5	8.8	0.0	1.2
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													501.1	460.6
max													818.1	1081.0
min													211.7	182.5

Station Name: Bottle Lake Forest Raws  
(BTL)

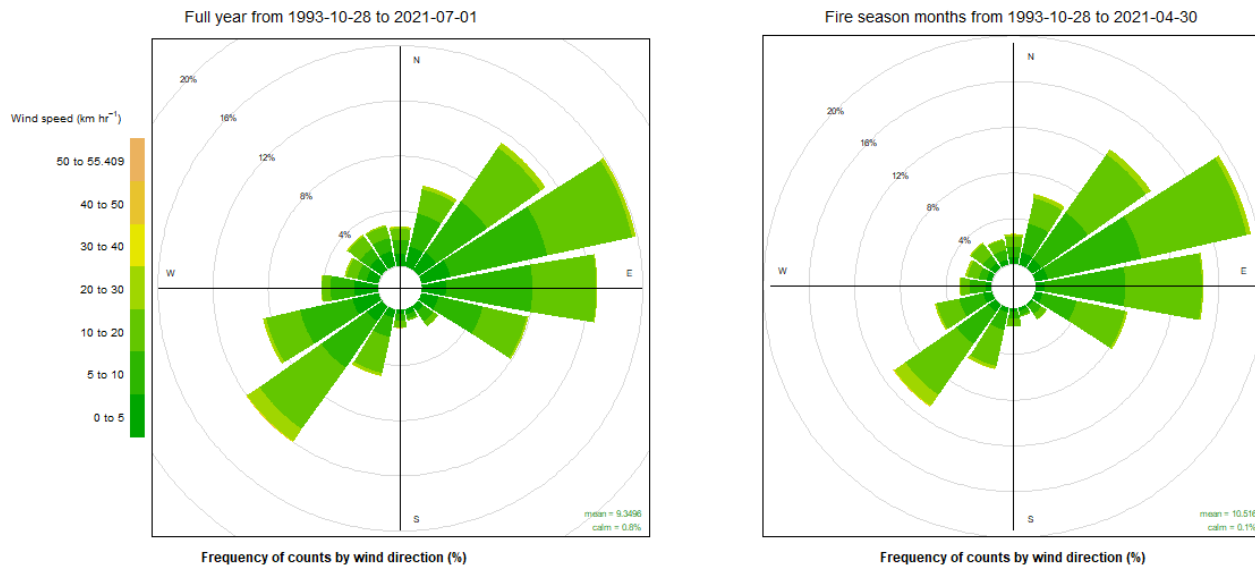
Period: 1993-10-28 - 2021-07-01

Length of record: 27 years

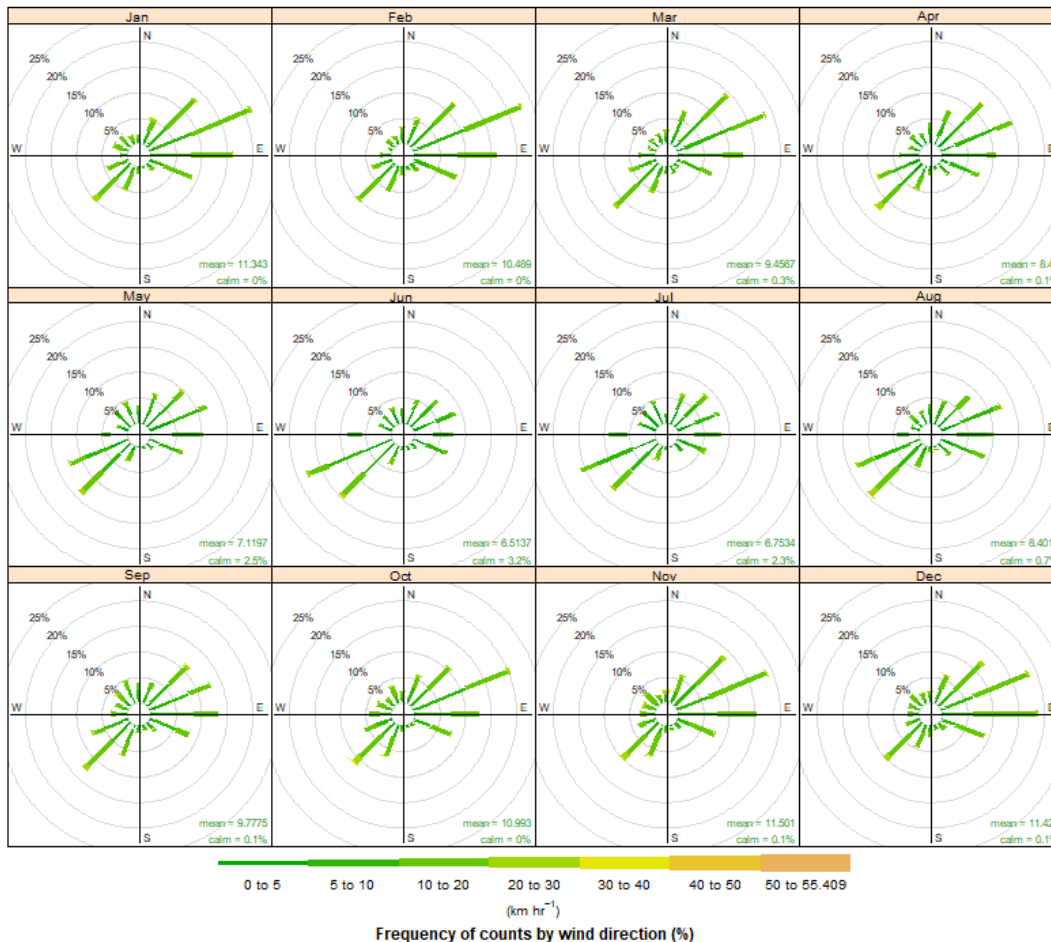
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	7.2	5.6	9.8	14.5	23.9	27.3	30.2	27.2	16.3	14.2	8.4	8.4	193.0	67.6
max	28	16	28	30	31	30	31	31	26	30	20	24	248	119
min	0	0	2	1	12	10	20	16	4	4	0	0	157	35
<b>Moderate</b>														
mean	14.6	15.3	15.4	13.3	6.8	2.7	0.8	3.7	13.0	14.9	16.1	14.4	131.0	104.5
max	22	22	23	25	18	20	11	15	26	27	25	25	171	130
min	3	5	3	0	0	0	0	0	4	1	8	3	104	64
<b>High</b>														
mean	6.3	5.3	4.7	1.9	0.3	0.0	0.0	0.1	0.6	1.7	4.0	5.5	30.4	29.3
max	17	14	15	9	6	0	0	2	4	9	12	14	55	62
min	0	0	0	0	0	0	0	0	0	0	0	0	7	10
<b>Very High</b>														
mean	2.1	1.1	0.6	0.3	0.0	0.0	0.0	0.0	0.1	0.2	1.1	1.5	7.1	7.0
max	9	4	4	4	1	0	0	0	1	3	4	9	16	25
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.8	0.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	3.3	3.4
max	5	5	4	2	0	0	0	0	0	1	2	6	10	16
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4
max	1	2	1	0	0	0	0	0	0	0	0	2	3	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Canterbury (Coastal)														
Curing%	60	60	60	50	40	30	10	10	20	30	40	50		
<b>Low</b>														
mean	3.0	2.8	4.3	5.8	9.0	15.0	24.6	17.0	6.3	4.9	3.5	3.6	99.7	27.7
max	11	6	13	14	19	28	31	25	13	10	10	8	123	45
min	0	0	0	1	3	1	17	6	0	1	0	0	79	12
<b>Moderate</b>														
mean	24.7	23.4	25.4	23.4	21.9	15.0	6.4	14.0	23.6	25.2	23.4	22.8	249.3	168.6
max	30	28	29	29	28	29	14	25	30	30	28	28	270	186
min	19	19	17	16	12	2	0	6	17	21	17	14	230	148
<b>High</b>														
mean	3.3	2.0	1.3	0.7	0.1	0.0	0.0	0.0	0.1	0.8	3.0	4.6	16.1	15.8
max	9	6	7	3	1	0	0	0	1	3	8	13	27	40
min	0	0	0	0	0	0	0	0	0	0	0	0	9	6
<b>Very High</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
max	0	0	0	0	0	0	0	0	0	1	0	1	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	2.9	2.6	3.9	5.4	7.7	11.2	11.1	6.9	3.9	4.1	3.1	3.8	66.6	25.7
max	11	7	12	13	18	26	22	20	11	9	10	9	84	43
min	0	0	0	1	1	0	1	0	0	1	0	0	47	11
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.1
max	0	0	1	0	0	1	1	1	0	1	1	0	2	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.3	2.3	3.3	4.2	7.1	8.1	9.5	6.6	3.4	3.6	3.0	2.4	55.9	21.1
max	5	5	6	9	20	16	13	12	8	9	7	6	67	35
min	0	0	0	0	1	2	6	1	1	1	0	0	38	13
<b>Very High</b>														
mean	3.3	3.0	3.4	4.5	7.1	5.6	6.5	6.6	5.7	4.4	3.2	3.1	56.6	25.1
max	9	9	8	11	14	12	17	17	12	8	9	6	76	38
min	1	0	0	0	1	1	0	1	1	0	0	0	39	15
<b>Extreme</b>														
mean	10.1	10.8	12.9	12.0	6.9	4.3	3.2	8.5	11.0	10.0	10.0	9.8	109.6	76.0
max	19	19	23	21	19	18	8	15	19	16	22	15	131	95
min	4	4	6	3	1	0	0	2	3	2	4	1	90	45
<b>Very Extreme</b>														
mean	12.3	9.6	7.5	3.8	2.1	0.7	0.6	2.4	6.1	8.7	10.6	11.9	76.3	64.3

max	24	20	19	11	8	4	4	9	13	22	21	25	98	119
min	0	0	0	0	0	0	0	0	2	2	1	2	47	38

Windroses for Bottle Lake Forest Raws (BTL)



BTL station from 1993-10-28 to 2021-07-01





Station Name: Christchurch Aero SYNOP  
(CHA)

Period: 1961-01-01 - 2021-07-01

Length of record: 60 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	20.2	19.9	18.2	15.5	12.4	9.5	9.0	10.5	12.8	15.1	17.0	18.9	14.9	17.8
median	20.0	19.0	18.0	15.0	12.0	9.0	8.8	10.0	12.2	15.0	16.3	18.1	15.0	17.2
max	35.0	39.0	33.0	30.0	26.9	22.0	19.3	21.6	25.5	29.0	30.3	34.0	39.0	39.0
min	7.7	9.0	8.0	4.0	2.0	0.0	1.0	0.4	1.0	2.7	5.0	9.0	0.0	2.7
<b>Relative Humidity, %</b>														
mean	56.6	58.8	61.6	65.2	69.8	73.8	73.3	68.5	62.5	58.6	56.1	57.0	63.5	59.1
median	58	60	63	66	70	74	74	69	63	59	58	59	64	60
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	7.0	12.0	13.0	19.0	22.0	21.0	28.0	16.5	16.0	13.0	13.0	12.0	7.0	7.0
<b>Wind Speed, km/h</b>														
mean	21.6	20.5	19.2	16.9	15.1	13.2	13.7	16.4	18.8	20.6	21.4	22.3	18.3	20.3
median	20.4	20.0	18.5	15.0	13.0	11.1	11.1	14.8	18.5	20.0	20.4	22.0	18.0	20.0
max	57.4	61.0	61.1	70.4	55.6	59.0	63.0	63.0	66.7	61.1	64.8	55.6	70.4	70.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	1.4	1.4	1.7	1.9	1.9	2.1	2.3	1.9	1.4	1.5	1.6	1.5	1.7	1.6
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	110.4	53.2	101.5	82.1	63.0	69.8	77.0	76.8	41.0	48.0	56.5	79.5	110.4	110.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	43.6	40.1	52.3	56.2	56.5	62.9	72.7	59.2	42.1	46.9	46.8	46.5	52.2	47.5
max	138.9	121.4	185.0	196.1	163.8	186.8	399.6	171.0	109.2	137.8	117.5	148.7	399.6	196.1
min	3.2	4.9	3.4	6.8	11.2	1.7	1.0	1.6	1.5	2.4	1.4	1.0	1.0	1.0
<b>Seasonal Rainfall, millimetres</b>														
mean													625.9	331.1
max													953.4	619.8
min													306.0	200.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	81.3	80.9	78.0	75.0	69.8	64.3	64.6	69.5	75.2	77.6	79.3	80.0	74.6	78.8
median	85.7	85.3	84.2	82.5	78.9	72.9	73.1	78.3	82.0	83.5	84.9	85.0	82.0	84.5
max	98.0	98.0	95.1	93.4	92.4	91.3	90.4	91.6	92.1	95.0	95.8	97.0	98.0	98.0
min	11.0	5.6	1.4	1.4	0.7	0.8	0.8	1.0	0.2	7.2	2.3	9.9	0.2	1.4
<b>Duff Moisture Code, DMC</b>														
mean	35.4	39.6	29.7	21.2	11.4	5.0	3.3	5.9	11.7	18.8	25.3	30.6	19.8	28.6
median	29.8	34.1	23.7	16.7	8.2	3.1	2.5	5.1	10.5	14.7	22.0	26.7	13.6	23.3
max	162.4	163.4	104.7	93.7	86.5	30.6	25.0	27.3	55.2	94.6	100.6	115.5	163.4	163.4
min	0.5	2.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	0.0	0.0
<b>Drought Code, DC</b>														
mean	373.6	453.7	450.2	416.4	326.2	221.2	151.1	114.3	106.1	127.4	188.9	282.6	267.5	327.1
median	373.4	449.2	452.6	419.5	322.6	217.7	120.4	91.3	80.9	103.8	179.4	277.3	246.7	317.1
max	741.6	795.2	804.1	785.4	792.6	604.5	533.5	382.7	407.2	508.5	544.0	731.8	804.1	804.1
min	6.0	134.5	36.4	12.6	1.5	0.3	0.1	0.0	0.7	2.2	5.8	25.5	0.0	2.2
<b>Initial Spread Index, ISI</b>														
mean	9.1	7.6	6.4	4.5	3.0	1.9	1.9	3.0	4.9	6.6	8.1	8.8	5.5	7.3
median	6.3	5.8	4.5	3.1	1.9	1.2	1.3	2.0	3.3	4.4	5.4	5.9	3.2	4.9
max	95.3	68.5	69.1	51.2	39.4	55.3	41.0	42.5	60.3	71.3	74.2	94.6	95.3	95.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	55.0	62.7	49.5	36.4	20.1	9.0	5.9	9.3	16.3	25.5	36.0	45.9	30.9	44.3
median	48.9	56.8	41.8	30.0	14.9	5.8	4.5	8.2	15.1	20.8	32.9	42.5	22.3	37.6
max	208.6	211.1	148.1	132.2	134.5	51.6	42.9	37.0	58.0	129.2	131.9	145.5	211.1	211.1
min	0.9	5.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	19.5	18.5	14.3	9.4	4.6	2.1	1.5	3.2	6.6	10.5	14.4	17.6	10.2	14.9
median	16.4	16.1	11.5	6.9	2.4	0.6	0.5	1.5	4.3	7.4	11.4	13.9	5.5	11.4
max	115.0	110.9	99.6	77.7	58.4	50.2	23.0	31.8	65.4	115.4	96.2	102.9	115.4	115.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	7.6	6.8	4.8	2.5	0.9	0.3	0.2	0.4	1.4	3.1	4.8	6.7	3.3	5.2
median	3.9	3.7	2.1	0.8	0.1	0.0	0.0	0.1	0.4	0.9	2.0	2.9	0.6	2.0
max	120.8	113.2	93.7	60.4	36.4	27.9	7.0	12.4	44.5	121.5	88.0	99.1	121.5	121.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	237.5	192.4	148.8	71.9	27.2	8.3	4.7	13.7	43.0	94.7	145.3	208.0	99.6	156.9
max	726.7	748.7	511.5	308.4	116.4	63.8	22.7	54.7	210.4	774.3	507.0	646.3	774.3	774.3
min	39.9	43.0	10.1	2.3	0.4	0.1	0.0	0.5	1.1	6.0	29.5	9.5	0.0	2.3
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1195.5	1106.8
max													2654.8	2637.3
min													530.6	382.8

Station Name: Christchurch Aero SYNOP  
(CHA)

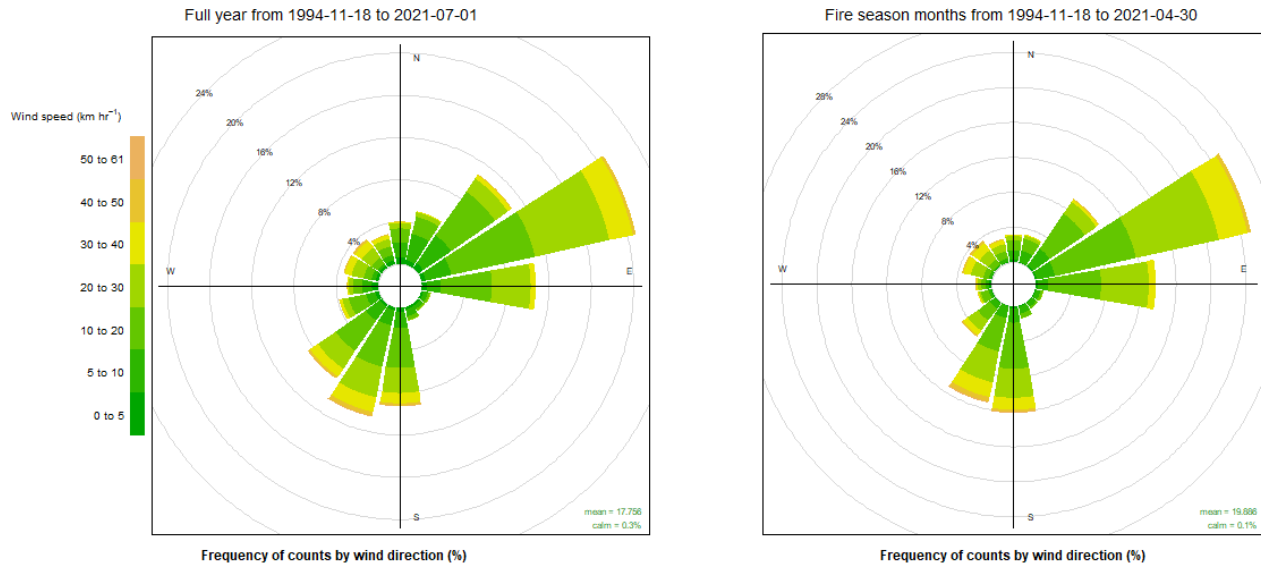
Period: 1961-01-01 - 2021-07-01

Length of record: 60 years

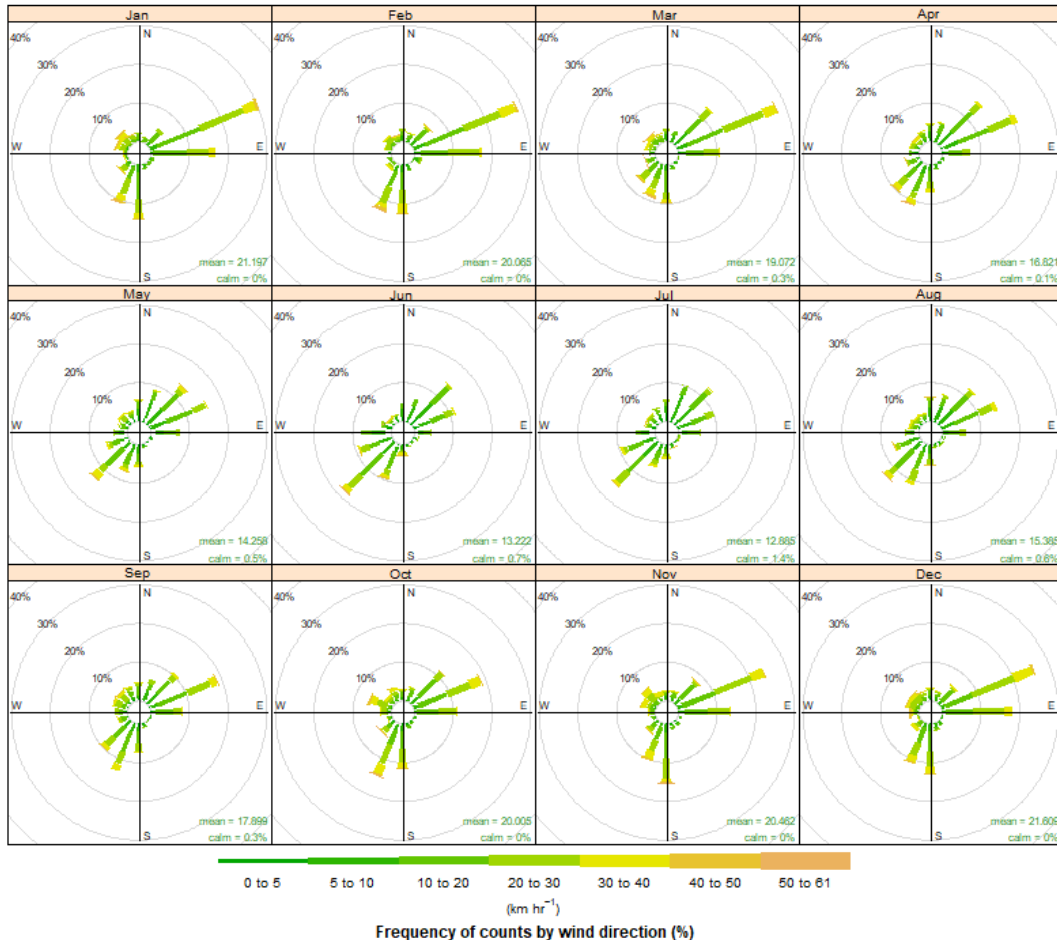
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	5.0	4.5	8.8	12.2	21.2	26.7	29.8	25.7	17.3	12.6	7.7	7.0	178.4	57.1
max	16	13	26	29	31	30	31	31	30	30	20	26	233	104
min	0	0	0	0	5	10	21	12	0	0	0	0	121	24
<b>Moderate</b>														
mean	10.0	9.6	11.3	12.4	8.6	3.0	1.2	5.1	10.5	12.6	12.7	10.3	107.4	79.0
max	18	17	20	23	25	19	9	19	21	21	20	22	157	106
min	2	2	1	1	0	0	0	0	0	1	5	0	67	49
<b>High</b>														
mean	7.3	7.0	5.6	3.3	0.8	0.3	0.0	0.2	1.7	3.8	5.3	6.4	41.6	39.0
max	15	14	14	13	6	4	1	3	10	11	14	13	70	62
min	1	1	0	0	0	0	0	0	0	0	0	0	18	23
<b>Very High</b>														
mean	3.4	3.3	2.2	1.0	0.2	0.0	0.0	0.0	0.3	1.0	2.1	3.0	16.6	16.2
max	9	9	9	5	2	0	0	0	3	7	8	8	35	31
min	0	0	0	0	0	0	0	0	0	0	0	0	5	3
<b>Extreme</b>														
mean	3.4	2.5	2.3	0.8	0.2	0.0	0.0	0.0	0.1	0.8	1.8	3.0	14.9	14.7
max	11	12	8	6	4	0	0	0	4	7	10	10	31	39
min	0	0	0	0	0	0	0	0	0	0	0	0	2	0
<b>Very Extreme</b>														
mean	1.9	1.4	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.4	1.3	6.2	6.2
max	13	14	5	4	1	0	0	0	0	12	7	10	32	34
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Canterbury (Plains)														
Curing%	40	50	40	30	20	10	10	10	15	25	25	40		
<b>Low</b>														
mean	1.9	1.9	3.6	5.1	9.7	18.7	19.5	13.5	7.0	4.1	3.4	2.4	90.8	22.1
max	9	7	11	17	21	29	30	23	16	9	10	8	122	39
min	0	0	0	0	3	4	9	4	0	0	0	0	58	9
<b>Moderate</b>														
mean	17.2	14.7	20.1	22.1	20.4	11.2	11.4	17.4	21.9	22.1	20.7	16.9	216.1	133.7
max	25	23	26	28	27	26	22	27	28	28	28	25	245	153
min	6	7	11	12	10	1	1	8	14	9	13	9	180	103
<b>High</b>														
mean	9.5	10.1	6.3	2.6	0.9	0.1	0.0	0.1	1.2	4.4	5.1	9.4	49.5	47.5
max	17	18	12	8	4	1	2	2	4	19	10	16	78	69
min	1	2	1	0	0	0	0	0	0	0	1	0	29	28
<b>Very High</b>														
mean	2.0	1.4	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.8	2.0	7.6	7.7
max	9	6	6	2	0	0	0	0	0	3	6	6	22	23
min	0	0	0	0	0	0	0	0	0	0	0	0	2	1
<b>Extreme</b>														
mean	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	1.2
max	3	2	3	0	0	0	0	0	0	0	0	3	7	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	2.6	2.5	3.9	4.9	7.4	9.8	10.0	7.5	5.0	4.2	3.6	3.3	64.5	24.7
max	10	7	12	15	18	25	20	18	17	10	12	8	91	42
min	0	0	0	0	0	0	0	0	0	0	0	0	40	12
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.5	0.0
max	0	0	0	2	1	1	2	1	0	0	0	0	4	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.8	0.8	1.7	2.2	3.7	5.7	5.7	3.7	2.0	1.4	1.2	1.2	30.0	9.2
max	4	3	7	8	10	12	12	8	6	5	5	6	50	19
min	0	0	0	0	0	0	1	0	0	0	0	0	14	3
<b>Very High</b>														
mean	1.9	1.4	2.5	3.5	5.5	5.0	6.3	4.8	3.4	2.7	2.1	1.9	41.2	16.0
max	6	4	7	10	11	12	13	13	7	7	7	6	55	24
min	0	0	0	0	1	1	1	0	0	0	0	0	28	8
<b>Extreme</b>														
mean	5.3	5.5	6.6	8.3	8.2	6.1	6.2	8.4	7.9	6.8	5.0	5.4	79.8	42.7
max	11	14	13	17	19	17	14	15	13	15	12	14	106	58
min	2	1	2	2	3	0	0	2	3	1	0	1	51	23
<b>Very Extreme</b>														
mean	20.4	18.0	16.2	11.0	6.0	3.3	2.8	6.5	11.8	16.0	18.0	19.2	149.3	119.6

max	29	25	27	21	15	13	9	19	27	30	26	30	190	157
min	8	9	4	0	0	0	0	1	3	4	9	6	97	89

Windroses for Christchurch Aero SYNOP (CHA)



CHA station from 1994-11-18 to 2021-07-01



Station Name: Hanmer Forest Ews (HAN)

Period: 1996-07-16 - 2021-07-01

Length of record: 24 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	21.1	21.3	18.9	15.3	12.1	8.2	7.8	9.9	13.1	15.2	17.1	19.4	14.9	18.3
median	21.5	21.9	19.5	15.5	11.8	7.6	7.3	9.8	13.7	15.6	17.4	19.6	14.9	18.5
max	35.4	34.3	31.8	26.2	24.7	19.6	18.1	21.4	23.9	28.0	29.9	31.1	35.4	35.4
min	7.1	8.0	5.1	0.4	0.9	-3.2	-1.2	-2.0	0.2	2.6	3.6	3.6	-3.2	0.4
<b>Relative Humidity, %</b>														
mean	50.6	50.4	53.9	59.6	65.0	73.4	70.3	62.1	53.1	52.3	51.6	52.0	57.9	52.9
median	45.0	45.0	50.0	55.0	62.0	74.0	71.0	60.0	47.0	46.0	46.6	48.0	54.0	48.0
max	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.6	98.0	98.0	100.0	100.0
min	11.0	12.1	12.0	19.9	30.0	27.0	25.0	25.0	17.0	15.0	12.0	16.0	11.0	11.0
<b>Wind Speed, km/h</b>														
mean	9.9	8.9	8.1	6.8	6.5	5.3	5.8	6.8	9.8	11.1	11.3	10.6	8.4	9.5
median	8.0	6.8	5.8	4.7	4.0	3.6	4.0	4.6	6.9	9.0	9.2	8.7	6.0	7.2
max	53.1	44.7	45.3	39.0	54.4	63.1	44.0	53.6	42.9	55.5	52.0	46.8	63.1	55.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	2.2	1.9	2.4	2.5	2.9	3.3	3.2	2.9	2.5	3.0	2.3	2.1	2.6	2.4
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	102.8	61.2	95.8	66.0	110.4	110.6	125.8	141.2	120.2	54.6	58.6	50.4	141.2	102.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	70.4	55.9	76.8	76.3	84.0	93.4	95.8	91.5	78.0	94.4	70.3	64.7	79.3	72.7
max	221.6	158.2	197.8	229.4	296.0	199.2	276.4	291.6	279.6	204.0	198.8	133.0	296.0	229.4
min	2.6	12.8	9.8	17.6	5.8	36.2	35.8	12.0	10.4	27.4	11.6	24.0	2.6	2.6
<b>Seasonal Rainfall, millimetres</b>														
mean													951.4	500.2
max													1258.0	700.6
min													582.0	301.6
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	78.4	79.3	76.1	70.0	63.6	54.1	54.5	64.4	71.1	71.1	75.5	76.9	69.6	75.3
median	87.3	87.6	86.0	81.7	74.3	59.0	60.8	75.1	81.8	80.9	84.8	85.3	80.9	85.3
max	97.2	96.5	95.6	93.8	90.8	90.1	90.7	91.1	93.2	95.3	95.9	95.7	97.2	97.2
min	6.3	3.1	2.5	1.5	0.0	0.7	0.0	2.2	0.0	1.3	5.4	10.9	0.0	1.3
<b>Duff Moisture Code, DMC</b>														
mean	31.9	40.9	29.6	16.8	10.0	3.3	2.2	5.3	11.4	12.7	20.7	26.8	17.5	25.5
median	25.0	33.8	23.8	14.1	6.8	2.0	1.5	4.2	9.8	10.9	18.2	22.7	11.4	19.7
max	136.2	154.2	104.8	59.7	56.9	29.3	13.4	24.9	47.2	51.5	72.4	131.1	154.2	154.2
min	0.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.0	0.0
<b>Drought Code, DC</b>														
mean	241.0	326.4	312.4	250.8	183.4	90.5	44.8	29.0	33.7	42.1	89.1	168.1	150.2	203.0
median	242.1	326.3	331.8	233.1	136.0	29.8	9.7	12.7	22.0	34.4	82.6	164.3	105.3	178.8
max	513.5	595.6	641.2	571.2	587.3	398.8	250.7	171.8	156.0	179.1	226.5	395.5	641.2	641.2
min	5.6	60.8	3.5	1.8	0.0	0.0	0.0	0.0	0.0	1.4	3.7	5.1	0.0	1.4
<b>Initial Spread Index, ISI</b>														
mean	5.6	5.4	4.4	2.8	2.1	1.0	1.2	2.0	3.5	4.0	4.7	4.8	3.4	4.5
median	4.5	4.3	3.4	1.9	1.0	0.5	0.5	1.1	2.1	2.3	3.3	3.7	1.9	3.3
max	40.0	37.9	41.8	37.4	48.6	20.2	23.4	36.5	33.0	55.2	38.6	52.8	55.2	55.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	45.8	59.4	45.8	27.5	16.2	5.3	2.9	6.1	12.3	14.2	25.2	36.9	24.7	36.2
median	38.5	52.2	40.5	23.6	11.3	3.0	2.1	4.9	11.1	12.4	22.7	32.9	15.7	28.9
max	153.9	180.7	135.7	88.0	88.4	47.8	15.3	29.8	47.1	51.3	80.5	132.4	180.7	180.7
min	0.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.4	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	13.0	14.3	10.7	5.6	3.1	0.9	0.8	1.7	4.4	5.1	8.1	10.2	6.5	9.6
median	10.5	11.9	8.4	3.1	0.7	0.2	0.2	0.5	1.9	2.6	6.0	8.0	2.2	6.7
max	60.6	67.1	78.9	51.3	43.0	19.5	17.0	22.4	33.6	44.8	50.1	72.5	78.9	78.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	4.0	4.7	3.0	1.1	0.5	0.1	0.1	0.2	0.8	1.0	1.9	2.8	1.7	2.6
median	1.7	2.2	1.2	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.6	1.1	0.1	0.8
max	38.9	46.5	61.9	28.9	21.2	5.2	4.1	6.7	13.7	22.8	27.7	53.4	61.9	61.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	126.3	132.7	91.8	33.0	15.8	2.8	2.1	5.8	22.6	29.2	52.8	85.0	50.0	78.7
max	346.6	374.6	269.5	112.8	50.6	17.9	6.9	25.5	71.2	67.8	126.0	291.2	374.6	374.6
min	19.7	9.0	7.8	3.6	0.1	0.0	0.0	0.1	2.0	2.0	17.2	10.0	0.0	2.0
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													599.9	554.0
max													1190.6	1179.2
min													349.9	200.6

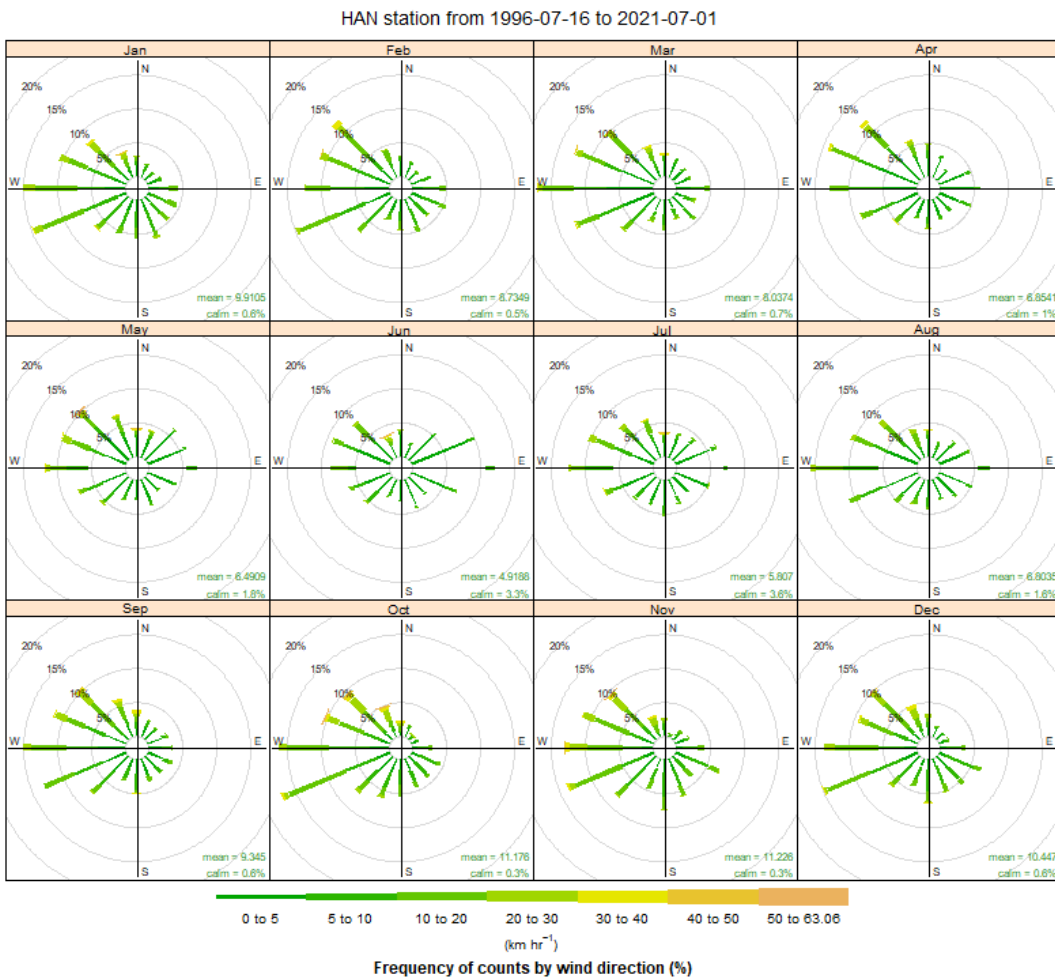
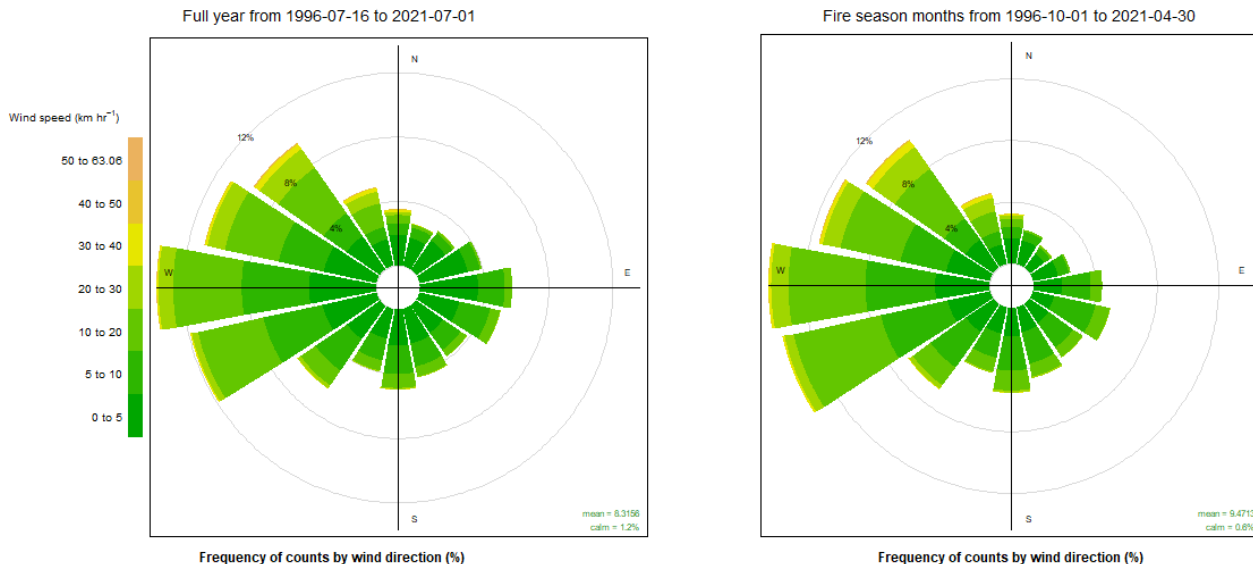
Station Name: Hanmer Forest Ews (HAN)

Period: 1996-07-16 - 2021-07-01

Length of record: 24 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	9.4	8.2	11.5	17.7	24.4	29.0	30.5	29.0	20.9	20.5	14.1	12.5	227.7	92.8
max	20	24	23	28	31	30	31	31	30	31	22	26	266	130
min	1	2	3	5	7	20	27	20	7	9	3	5	175	48
<b>Moderate</b>														
mean	10.5	9.7	11.3	10.1	5.9	1.0	0.5	2.0	8.5	9.5	11.8	11.2	91.8	74.7
max	15	19	18	19	21	9	4	11	19	18	19	18	136	94
min	3	3	5	2	0	0	0	0	0	0	7	5	70	57
<b>High</b>														
mean	6.0	5.1	5.0	1.6	0.7	0.1	0.0	0.0	0.6	0.8	3.2	4.6	27.8	26.9
max	12	13	11	8	3	1	0	0	5	5	9	12	48	45
min	0	0	0	0	0	0	0	0	0	0	0	0	13	5
<b>Very High</b>														
mean	2.5	2.1	1.7	0.4	0.1	0.0	0.0	0.0	0.0	0.1	0.7	1.6	9.2	9.2
max	7	5	5	2	1	0	0	0	1	2	4	6	17	15
min	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<b>Extreme</b>														
mean	2.1	2.2	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	6.6	6.6
max	9	11	6	1	0	0	0	0	0	0	2	7	22	22
min	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<b>Very Extreme</b>														
mean	0.6	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.2	2.1
max	4	6	4	1	0	0	0	0	0	0	0	3	9	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Canterbury (Foothills (N of Rakaia))														
Curing%	80	90	90	70	55	25	15	25	35	40	65	75		
<b>Low</b>														
mean	4.2	3.1	4.8	7.8	11.6	20.5	22.1	14.5	9.0	8.9	5.4	4.5	116.5	37.8
max	11	9	11	14	24	27	30	25	16	15	13	11	140	55
min	0	0	0	1	1	12	14	3	3	4	0	0	93	14
<b>Moderate</b>														
mean	9.9	8.5	10.9	17.2	17.7	9.3	8.8	16.3	18.0	17.7	16.5	13.4	164.2	94.2
max	16	18	16	23	27	18	17	28	24	23	23	19	191	107
min	3	3	5	13	7	2	1	6	9	9	12	8	134	77
<b>High</b>														
mean	11.8	10.4	10.8	4.5	1.5	0.2	0.1	0.2	3.0	4.0	7.5	10.4	64.3	59.9
max	19	18	20	14	5	2	1	1	9	9	14	18	85	74
min	6	5	5	0	0	0	0	0	0	0	2	4	50	47
<b>Very High</b>														
mean	3.9	4.2	3.2	0.3	0.1	0.0	0.0	0.0	0.0	0.4	0.5	2.2	14.9	15.1
max	10	12	9	2	1	0	0	0	1	3	3	8	28	27
min	0	1	0	0	0	0	0	0	0	0	0	0	4	4
<b>Extreme</b>														
mean	1.2	1.9	1.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.5	5.0	4.8
max	4	6	4	1	2	0	0	0	0	1	1	4	16	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
max	0	2	2	0	0	0	0	0	0	0	0	0	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.8	4.1	5.8	8.2	11.1	15.0	15.1	10.6	7.4	8.4	5.5	5.0	101.0	41.0
max	11	9	11	14	26	26	23	23	14	14	12	11	126	58
min	0	0	1	2	1	10	8	1	1	4	0	1	77	24
<b>Moderate</b>														
mean	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.7	0.2
max	0	1	1	0	1	2	1	1	1	1	0	1	2	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.7	2.8	2.9	4.4	5.9	7.8	6.7	5.5	4.4	3.8	3.5	3.8	54.0	23.9
max	7	8	5	12	17	14	12	11	9	7	8	8	77	32
min	0	0	0	1	0	1	2	1	0	1	0	1	32	12
<b>Very High</b>														
mean	2.2	1.6	2.2	2.9	3.5	3.2	3.7	4.4	3.0	2.7	2.8	2.6	34.8	16.9
max	7	4	5	5	9	7	9	9	5	6	6	6	56	25
min	0	0	0	0	0	0	0	0	1	0	0	0	19	8
<b>Extreme</b>														
mean	4.9	5.4	7.7	7.6	6.4	2.5	3.3	6.5	5.8	5.3	5.6	5.8	66.9	42.4
max	8	11	13	14	13	10	9	13	11	11	11	10	83	52
min	1	2	4	2	2	0	0	2	1	0	1	0	49	30
<b>Very Extreme</b>														
mean	16.4	14.3	12.2	6.9	4.0	1.3	2.1	3.9	9.4	10.8	12.7	13.8	107.9	87.8
max	28	22	21	16	12	4	9	10	16	17	23	21	135	123
min	7	5	3	2	0	0	0	0	2	3	5	5	84	62

Windroses for Hanmer Forest Ews (HAN)



Station Name: Le Bons Bay Aws (LBX)

Period: 1994-11-16 - 2021-07-01

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	16.3	16.5	15.4	13.3	11.5	9.2	8.5	8.9	10.5	11.5	13.1	15.1	12.5	14.5
median	16.0	16.0	15.0	13.0	11.0	9.0	8.1	8.8	10.0	11.0	12.1	14.4	12.0	14.0
max	31.0	29.8	26.0	28.2	24.5	21.0	18.1	19.8	21.0	26.0	27.0	30.0	31.0	31.0
min	5.5	9.0	7.0	3.1	1.1	0.2	0.9	0.0	1.0	3.0	4.7	7.0	0.0	3.0
<b>Relative Humidity, %</b>														
mean	72.0	72.4	71.9	73.3	74.2	75.6	75.1	75.0	70.7	72.9	71.3	71.7	73.0	72.2
median	74.0	75.0	74.0	75.0	77.0	79.0	77.8	78.0	72.0	76.0	73.0	73.0	75.0	74.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	17	20	23	17	18	20	27	24	21	0	20	19	0	0
<b>Wind Speed, km/h</b>														
mean	24.2	24.7	25.3	24.3	23.0	24.6	22.4	22.7	25.9	26.5	25.7	25.4	24.6	25.2
median	22.0	22.2	22.0	22.0	20.0	22.0	20.0	20.0	23.1	24.0	24.0	24.0	22.0	22.2
max	86.0	87.0	105.0	83.3	90.7	93.0	95.0	83.0	96.3	95.0	95.0	90.0	105.0	105.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	1.4	1.6	1.8	2.4	2.3	2.6	2.1	2.3	1.6	1.8	1.8	1.5	1.9	1.8
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	76.6	70.2	99.9	104.2	49.8	62.6	36.2	83.0	74.0	62.2	58.6	55.2	104.2	104.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	45.5	45.3	57.9	73.7	72.8	78.0	65.2	71.4	49.1	55.7	53.1	48.6	59.7	54.3
max	157.6	153.2	148.6	188.4	145.6	236.2	197.0	195.2	140.0	145.0	122.0	125.6	236.2	188.4
min	6.0	12.6	11.4	9.4	9.4	10.6	15.2	10.2	0.0	2.0	7.6	6.2	0.0	2.0
<b>Seasonal Rainfall, millimetres</b>														
mean													716.3	378.2
max													1164.6	793.2
min													435.8	205.8
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	73.7	74.0	73.5	68.5	64.2	61.1	61.5	62.7	70.2	70.1	72.5	73.4	68.8	72.2
median	80.1	80.6	80.3	77.3	75.0	69.5	69.1	72.2	77.4	77.6	79.5	80.0	77.5	79.5
max	95.7	92.4	92.4	94.3	93.0	88.6	87.7	89.7	91.5	95.6	93.0	93.3	95.7	95.7
min	4.6	3.3	3.4	3.5	1.7	2.2	2.8	0.0	1.3	1.1	2.7	4.9	0.0	1.1
<b>Duff Moisture Code, DMC</b>														
mean	16.7	19.3	15.9	10.6	6.6	2.8	2.3	3.3	6.4	9.0	12.4	15.2	10.0	14.1
median	14.2	16.8	11.8	6.7	4.0	1.8	1.8	2.6	5.1	6.6	10.3	13.7	6.5	11.2
max	55.3	59.4	58.9	51.0	57.2	21.8	11.8	16.3	23.8	44.7	59.4	53.2	59.4	59.4
min	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	291.9	384.1	375.7	328.1	240.4	138.8	81.2	60.1	57.0	70.4	120.1	203.1	196.6	253.3
median	297.7	399.5	390.1	352.6	239.9	106.8	54.9	24.0	25.9	47.7	104.1	204.9	155.8	242.4
max	525.0	637.3	724.9	784.3	578.7	433.5	341.2	258.0	253.4	322.5	345.3	455.9	784.3	784.3
min	5.8	55.4	3.3	1.8	0.0	0.2	0.0	0.0	0.2	1.9	3.5	10.1	0.0	1.8
<b>Initial Spread Index, ISI</b>														
mean	6.0	5.8	5.9	4.7	4.1	3.3	2.9	3.1	5.1	5.2	5.4	6.1	4.8	5.6
median	3.4	3.3	3.3	2.5	1.8	1.5	1.3	1.6	2.8	2.8	3.0	3.3	2.5	3.1
max	55.9	66.7	60.2	70.4	50.0	35.8	31.1	32.2	41.8	79.4	58.5	81.6	81.6	81.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	28.4	33.3	27.9	18.9	11.4	4.8	3.8	5.2	8.7	12.4	18.9	24.7	16.6	23.5
median	25.1	30.5	21.7	12.4	6.8	3.3	2.7	3.6	6.7	9.4	16.3	22.4	10.8	18.8
max	85.5	91.8	95.0	87.4	91.0	36.6	18.4	27.8	32.9	58.1	80.2	82.2	95.0	95.0
min	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	9.9	10.6	9.8	6.7	4.5	2.6	2.0	2.4	4.8	5.8	7.3	9.4	6.3	8.5
median	6.4	7.1	6.4	3.0	1.0	0.6	0.5	0.7	2.6	3.1	4.5	5.8	2.9	5.1
max	68.9	85.2	82.7	87.7	70.8	26.2	26.7	30.7	39.5	49.7	60.5	83.6	87.7	87.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.9	3.1	2.9	1.9	1.1	0.4	0.3	0.3	0.9	1.3	1.7	2.7	1.6	2.4
median	0.7	0.9	0.7	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.6	0.2	0.5
max	48.7	71.1	67.4	74.8	51.2	8.8	9.1	11.7	18.3	27.4	38.8	68.6	74.8	74.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	90.3	89.0	83.9	47.8	34.3	12.2	8.1	10.3	27.5	41.0	52.1	81.8	48.2	69.4
max	207.8	317.6	431.6	250.6	277.7	32.7	45.0	32.6	104.2	182.5	135.1	226.1	431.6	431.6
min	13.7	9.0	9.0	2.6	1.3	0.6	0.0	0.7	1.9	2.3	5.2	12.8	0.0	2.3
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													578.3	502.8
max													1476.4	1332.4
min													217.6	115.9

Station Name: Le Bons Bay Aws (LBX)

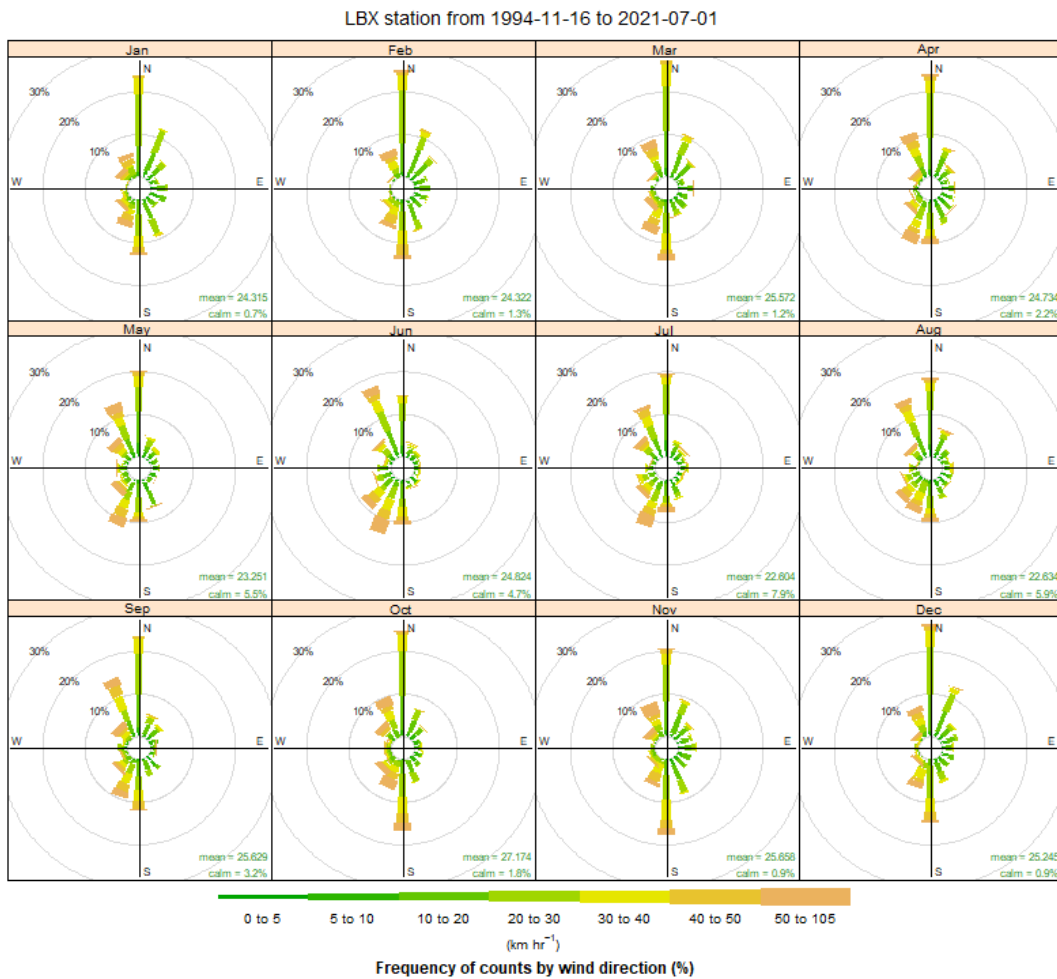
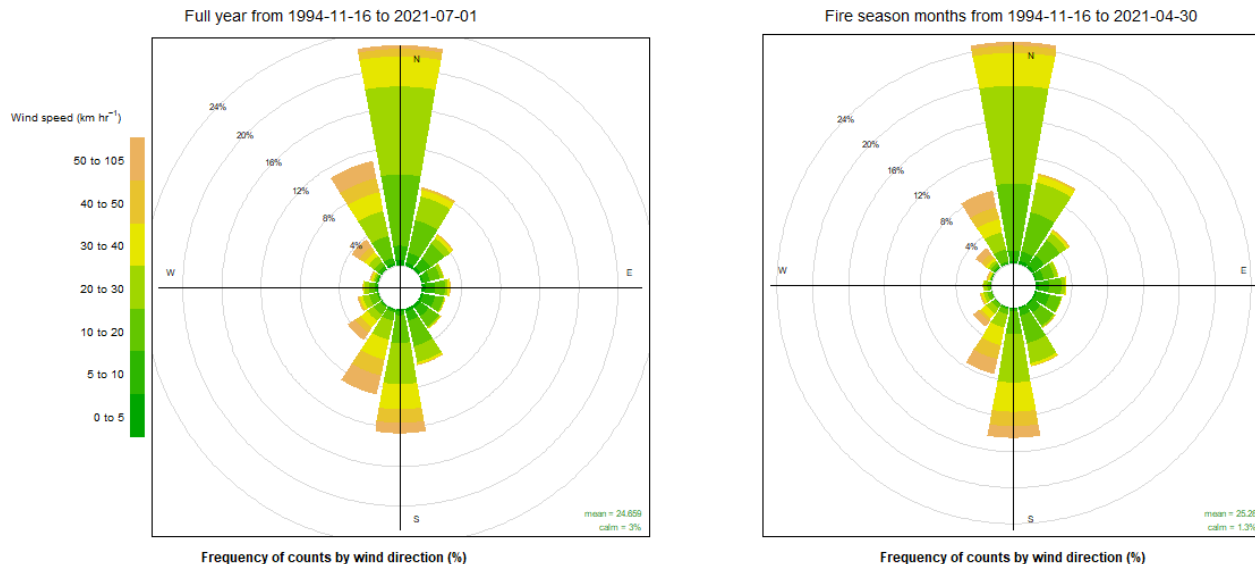
Period: 1994-11-16 - 2021-07-01

Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	13.1	10.6	14.2	20.1	25.3	27.2	29.5	28.6	23.7	21.9	16.8	14.4	245.4	109.9
max	28	25	29	30	31	30	31	31	30	31	29	27	309	182
min	2	1	3	1	13	19	19	22	13	2	5	3	164	44
<b>Moderate</b>														
mean	12.3	11.6	11.7	7.2	4.4	2.7	1.5	2.3	5.6	7.6	10.8	11.9	89.8	73.2
max	25	18	22	17	14	10	12	8	15	21	19	19	120	115
min	3	2	2	0	0	0	0	0	0	0	1	4	52	29
<b>High</b>														
mean	3.1	3.9	2.9	1.8	0.8	0.1	0.0	0.1	0.6	0.9	1.8	2.8	18.8	17.8
max	9	10	10	8	5	2	0	2	4	7	6	7	48	40
min	0	0	0	0	0	0	0	0	0	0	0	0	3	1
<b>Very High</b>														
mean	1.1	0.9	1.2	0.5	0.2	0.0	0.0	0.0	0.1	0.3	0.4	1.0	5.7	5.7
max	7	4	5	4	3	0	0	0	2	5	2	4	25	20
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.2	0.9	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.7	4.4	4.4
max	5	5	3	5	3	0	0	0	0	4	2	4	13	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.2	0.4	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.2	1.3
max	1	5	6	1	4	0	0	0	0	0	0	2	10	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Canterbury (Coastal)														
Curing%	60	60	60	50	40	30	10	10	20	30	40	50		
<b>Low</b>														
mean	4.0	3.5	4.0	6.4	9.5	11.4	17.5	16.0	7.4	5.6	3.6	3.7	92.6	30.0
max	11	8	12	11	19	21	30	28	17	12	16	12	125	48
min	0	0	0	0	0	1	7	9	1	0	0	0	62	9
<b>Moderate</b>														
mean	21.5	19.5	21.1	18.5	17.4	16.2	13.3	14.6	19.4	21.1	21.3	20.0	223.9	142.8
max	28	24	27	23	24	26	23	22	25	26	26	25	251	160
min	15	15	12	13	8	7	1	3	12	15	10	12	197	121
<b>High</b>														
mean	4.0	4.1	4.6	3.7	3.1	2.4	0.2	0.4	3.2	3.8	3.8	5.0	38.2	29.7
max	9	8	11	8	8	5	1	2	9	11	10	11	58	53
min	0	0	0	1	0	0	0	0	0	0	0	0	21	15
<b>Very High</b>														
mean	1.5	1.1	1.2	1.2	1.0	0.0	0.0	0.0	0.0	0.5	1.2	1.9	9.6	8.6
max	4	5	5	4	4	1	0	0	0	3	5	5	24	21
min	0	0	0	0	0	0	0	0	0	0	0	0	3	3
<b>Extreme</b>														
mean	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.0	1.1
max	1	2	1	2	0	0	0	0	0	0	1	2	5	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	5.0	4.4	5.0	7.9	10.7	12.1	11.7	10.9	6.8	6.7	5.7	5.3	92.1	39.2
max	12	10	12	14	19	23	27	25	16	14	17	13	128	67
min	0	0	0	0	0	1	4	3	0	0	1	1	57	18
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.4	0.0
max	0	0	0	1	1	1	1	1	1	0	0	0	2	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.0	1.3	1.6	2.3	2.4	2.6	4.0	3.3	2.7	1.8	2.0	1.9	27.8	12.4
max	7	4	5	8	5	7	8	8	6	6	4	7	40	25
min	0	0	0	0	0	0	0	0	0	0	0	0	11	1
<b>Very High</b>														
mean	3.3	3.0	4.0	3.5	4.0	3.4	4.0	4.0	3.2	3.8	3.2	3.4	42.9	24.2
max	8	7	10	7	10	8	9	11	7	8	6	11	70	38
min	0	0	0	0	0	0	0	0	0	1	1	1	25	9
<b>Extreme</b>														
mean	8.2	7.7	7.7	7.7	6.2	4.7	5.4	6.1	6.0	7.8	8.2	8.1	83.7	55.6
max	13	13	12	14	13	11	11	13	10	12	14	15	109	70
min	4	4	2	4	1	0	0	0	2	4	2	1	63	43
<b>Very Extreme</b>														
mean	12.6	11.8	12.7	8.5	7.6	7.0	5.9	6.7	11.3	11.0	11.0	12.3	118.4	80.8
max	21	21	25	18	14	14	15	15	18	20	18	20	164	124
min	4	4	5	3	1	2	0	1	3	5	5	4	93	55



Windroses for Le Bons Bay Aws (LBX)



Station Name: Lees Valley Raws (LEV)		Period: 1997-11-08 - 2021-07-01											Length of record: 23 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	19.9	20.0	17.7	14.1	11.0	7.3	7.0	8.9	11.9	13.7	15.6	17.9	13.8	17.0
median	20.0	20.4	17.9	13.9	10.7	6.6	6.5	8.8	12.0	14.4	15.8	18.4	13.8	17.1
max	33.6	34.6	30.3	24.1	22.8	19.2	17.9	23.2	23.6	26.4	29.3	30.1	34.6	34.6
min	3.6	6.8	5.8	0.5	-0.8	-4.7	-3.9	-2.3	0.1	0.4	0.3	5.7	-4.7	0.3
<b>Relative Humidity, %</b>														
mean	51.0	51.2	54.1	59.9	65.3	72.6	69.8	63.6	54.4	54.0	53.4	52.9	58.5	53.8
median	47	48	52	57	64	75	71	62	50	50	50	51	55	51
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	11	11	11	12	17	21	24	13	13	10	11	15	10	10
<b>Wind Speed, km/h</b>														
mean	19.0	17.5	15.9	13.5	13.1	11.2	11.4	13.1	17.0	19.6	20.2	20.1	16.0	18.0
median	18.0	15.2	13.3	9.4	8.2	6.1	6.8	9.0	14.4	17.5	19.4	18.9	13.8	16.6
max	74.1	73.4	64.8	72.0	93.4	75.0	86.6	74.1	98.6	78.3	66.3	75.0	98.6	78.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimetres</b>														
mean	2.1	2.2	1.8	2.4	3.1	3.3	2.9	3.0	2.2	2.8	2.3	2.3	2.5	2.3
median	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
max	82.8	109.0	63.8	85.8	166.6	88.4	92.6	132.8	83.8	70.2	50.8	62.0	166.6	109.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	64.6	64.4	57.3	74.5	83.2	96.2	88.6	93.8	66.9	86.6	68.3	71.0	76.3	69.5
max	275.3	254.7	147.5	258.7	293.6	350.2	232.0	348.2	355.3	194.0	145.4	256.8	355.3	275.3
min	4.6	3.6	18.4	5.8	10.6	27.2	19.8	17.4	13.0	0.5	0.2	13.0	0.2	0.2
<b>Seasonal Rainfall, millimetres</b>														
mean													915.5	488.7
max													1999.5	936.0
min													439.8	170.8
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	80.3	80.5	78.8	71.9	64.8	56.2	59.4	65.2	73.4	72.8	76.8	78.5	71.5	77.1
median	87.2	87.0	85.4	81.6	77.9	61.3	67.2	75.5	81.7	81.8	84.9	85.4	81.9	85.1
max	96.8	96.6	95.7	94.5	91.8	88.8	88.4	93.5	94.1	95.8	95.0	95.3	96.8	96.8
min	0.0	3.5	6.4	0.0	0.2	0.0	0.3	0.0	0.0	2.5	9.7	8.4	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	32.4	41.9	35.7	20.7	11.9	3.1	2.4	4.5	10.2	14.2	21.2	28.2	18.9	27.7
median	26.0	32.7	25.8	14.1	7.4	1.9	1.7	3.8	9.6	10.5	16.7	22.2	10.9	20.3
max	126.6	138.6	168.3	82.3	80.9	22.4	11.4	16.9	32.2	65.5	84.8	164.3	168.3	168.3
min	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	260.2	336.4	345.9	324.1	248.9	126.3	64.7	43.8	45.3	58.9	105.3	181.4	179.4	230.3
median	257.7	319.8	314.1	295.0	215.3	86.9	14.8	13.6	25.4	34.7	85.8	181.7	140.0	200.0
max	673.4	855.6	887.5	830.2	839.3	638.5	318.2	186.7	195.6	275.8	318.4	462.0	887.5	887.5
min	5.3	4.6	3.4	0.9	0.0	0.0	0.0	0.0	0.0	1.2	3.2	4.5	0.0	0.9
<b>Initial Spread Index, ISI</b>														
mean	9.4	8.5	7.1	4.4	3.4	2.0	1.9	2.9	5.0	6.1	7.3	8.1	5.5	7.3
median	6.3	5.7	4.0	2.2	1.6	0.7	0.8	1.4	2.9	3.6	4.9	5.5	2.8	4.5
max	79.3	61.9	67.2	40.7	41.6	32.8	32.2	31.4	41.9	49.3	52.2	60.7	79.3	79.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	47.5	61.8	54.1	34.5	20.1	5.1	3.6	5.8	12.0	16.8	26.6	38.4	27.3	39.9
median	40.6	49.8	40.9	24.2	12.9	3.1	2.2	4.7	10.7	12.6	22.4	33.2	16.0	30.3
max	172.3	194.5	226.4	131.9	124.8	41.3	19.1	24.1	39.0	65.6	93.8	171.9	226.4	226.4
min	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	18.5	19.3	15.1	8.7	5.3	1.6	1.4	2.4	5.6	7.8	11.5	14.8	9.4	13.7
median	15.4	15.5	10.9	4.3	1.7	0.3	0.3	0.6	3.2	4.5	8.7	11.4	4.0	9.5
max	120.5	101.1	90.4	61.3	56.7	31.4	27.3	24.7	35.5	60.6	56.0	86.3	120.5	120.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	7.4	7.8	5.5	2.6	1.3	0.2	0.2	0.3	1.1	2.0	3.3	5.2	3.1	4.8
median	3.4	3.5	1.9	0.4	0.1	0.0	0.0	0.0	0.2	0.4	1.3	2.0	0.3	1.5
max	131.2	96.2	78.9	39.7	34.6	12.2	9.5	8.0	15.1	38.9	33.8	72.7	131.2	131.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	236.2	224.2	168.7	73.7	39.0	7.2	5.0	9.8	32.7	62.5	96.1	161.5	93.0	146.1
max	707.1	546.5	547.1	283.6	214.6	34.4	24.3	26.4	75.3	270.4	194.9	564.7	707.1	707.1
min	23.6	23.5	20.7	9.1	0.0	0.4	0.1	0.8	4.7	2.9	12.0	9.5	0.0	2.9
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1116.5	997.0
max													2141.2	2134.4
min													350.6	255.6

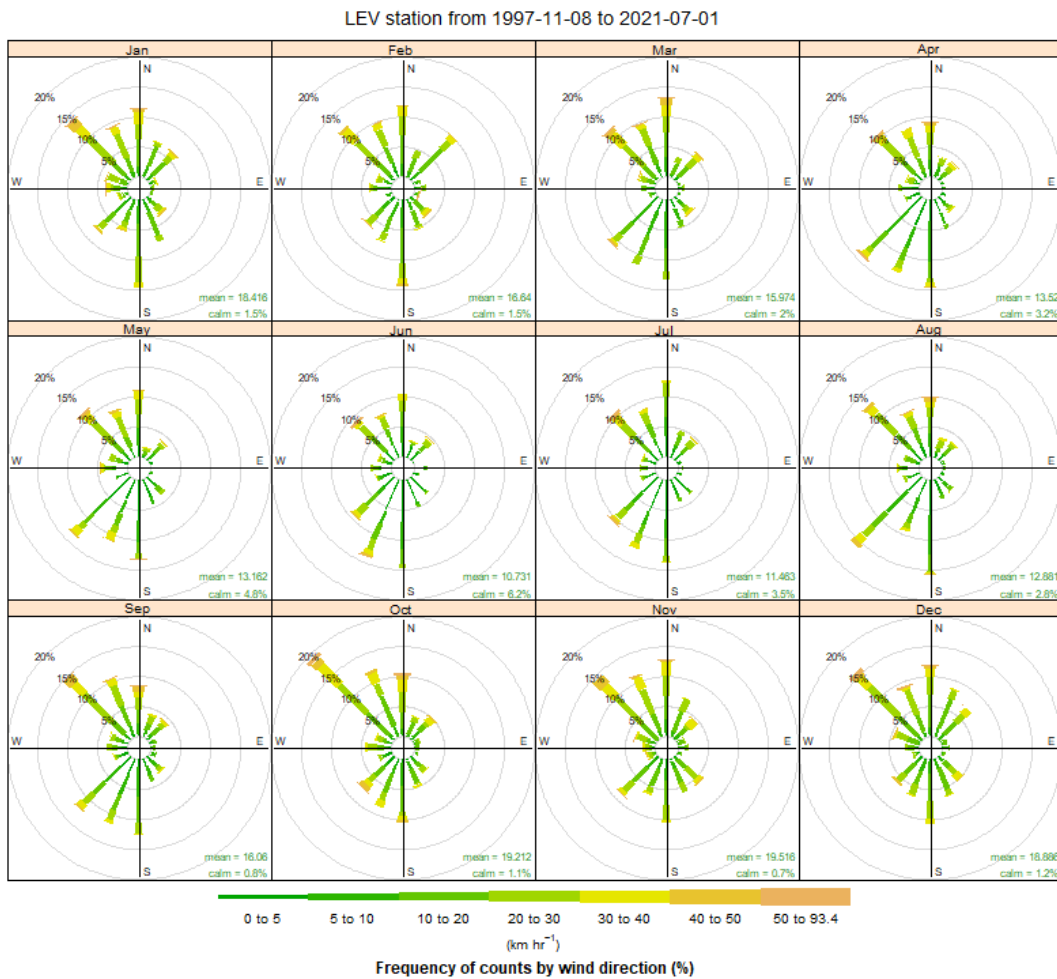
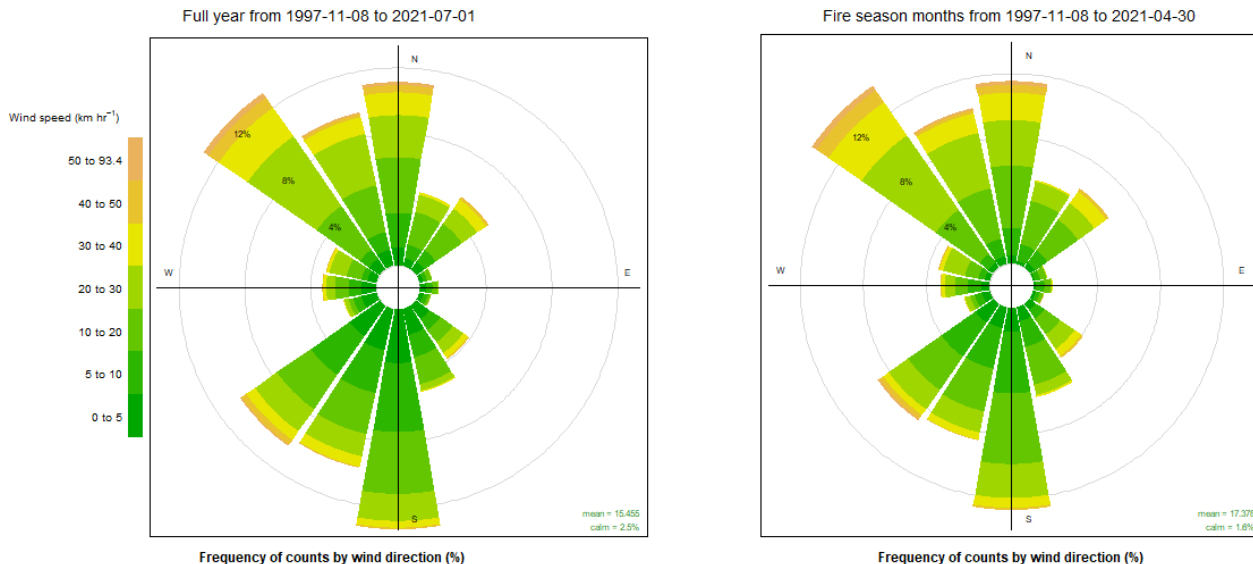
Station Name: Lees Valley Raws (LEV)

Period: 1997-11-08 - 2021-07-01

Length of record: 23 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	7.7	6.6	9.0	16.0	21.9	28.0	29.9	28.2	20.0	17.7	11.7	9.8	206.4	78.7
max	23	22	23	27	31	30	31	31	30	31	25	28	281	121
min	0	0	1	2	10	22	24	21	9	1	0	1	148	29
<b>Moderate</b>														
mean	8.5	7.8	11.3	9.1	7.0	1.7	1.1	2.8	9.0	10.0	10.9	10.1	89.5	68.8
max	17	16	19	16	16	6	6	10	17	18	17	24	116	94
min	2	2	6	3	0	0	0	0	0	0	5	2	60	52
<b>High</b>														
mean	6.5	5.0	5.0	2.4	1.2	0.2	0.0	0.0	1.0	2.1	4.7	5.9	34.0	31.3
max	12	14	10	12	5	4	1	0	5	9	15	12	60	56
min	1	0	0	0	0	0	0	0	0	0	0	0	13	15
<b>Very High</b>														
mean	3.2	3.4	2.1	1.1	0.5	0.0	0.0	0.0	0.0	0.6	1.9	2.8	15.6	14.6
max	9	7	7	4	7	0	0	0	0	5	7	7	29	26
min	0	0	0	0	0	0	0	0	0	0	0	0	2	1
<b>Extreme</b>														
mean	3.2	3.3	2.3	1.0	0.2	0.0	0.0	0.0	0.0	0.6	0.8	1.4	12.7	12.3
max	8	7	9	5	3	0	0	0	0	5	5	6	29	32
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<b>Very Extreme</b>														
mean	2.0	2.2	1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.0	6.4
max	11	7	7	4	2	0	0	0	0	0	1	11	26	26
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Canterbury (Foothills (N of Rakaia))														
Curing%	80	90	90	70	55	25	15	25	35	40	65	75		
<b>Low</b>														
mean	2.4	2.2	2.9	5.9	9.9	16.8	19.2	12.8	6.7	6.1	3.9	2.8	91.6	26.0
max	9	7	8	14	29	27	28	24	15	13	9	8	131	41
min	0	0	0	0	0	9	8	7	2	0	0	0	59	7
<b>Moderate</b>														
mean	8.9	6.8	10.4	16.7	15.7	12.1	11.6	16.7	18.0	16.6	13.3	10.7	157.4	83.9
max	18	16	20	23	27	20	22	23	27	23	18	21	195	111
min	2	1	4	11	2	3	3	7	12	10	7	4	127	60
<b>High</b>														
mean	9.1	9.3	8.6	5.0	4.6	1.1	0.2	1.5	5.0	7.1	9.3	10.3	71.1	59.2
max	17	17	15	11	12	4	1	6	10	13	19	20	95	88
min	4	4	3	1	0	0	0	0	0	0	5	2	50	39
<b>Very High</b>														
mean	5.5	4.3	4.4	1.8	0.7	0.0	0.0	0.0	0.4	1.2	3.2	4.6	26.0	24.7
max	9	9	9	4	2	0	0	0	3	7	8	10	41	36
min	1	1	1	0	0	0	0	0	0	0	0	2	17	16
<b>Extreme</b>														
mean	4.4	4.7	3.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.3	2.6	16.6	15.9
max	11	8	8	4	2	0	0	0	0	0	2	9	28	28
min	0	0	0	0	0	0	0	0	0	0	0	0	3	2
<b>Very Extreme</b>														
mean	0.7	0.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.6	2.5
max	4	4	5	0	0	0	0	0	0	0	0	1	11	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.7	3.4	4.1	6.9	10.3	14.4	13.1	10.4	6.2	6.9	4.9	4.5	88.8	34.2
max	12	9	10	14	29	26	21	21	15	12	11	11	146	52
min	0	0	1	0	1	8	2	4	2	0	0	0	55	13
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.2
max	0	1	1	1	1	3	1	1	1	1	0	1	4	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.4	1.3	2.7	4.6	3.7	4.3	6.1	4.8	2.7	2.3	2.1	1.5	37.5	16.1
max	5	3	8	14	11	8	11	9	7	6	5	6	55	29
min	0	0	0	1	0	0	0	1	0	0	0	0	21	7
<b>Very High</b>														
mean	1.9	1.7	2.2	3.6	4.0	3.9	3.7	3.1	3.0	2.6	1.9	2.2	33.7	15.8
max	6	4	5	7	12	9	8	8	7	7	4	5	50	26
min	0	0	1	1	1	0	0	0	0	0	0	0	20	6
<b>Extreme</b>														
mean	4.6	4.6	7.1	6.0	5.3	3.1	3.7	6.0	6.3	5.0	4.8	4.8	61.2	37.5
max	10	12	14	13	10	5	12	10	13	9	10	13	77	53
min	2	1	1	1	0	0	0	3	2	1	1	0	42	26
<b>Very Extreme</b>														
mean	19.3	17.3	14.9	9.0	7.7	4.1	4.3	6.7	11.7	14.2	16.3	18.0	143.4	108.4
max	28	26	21	21	15	12	11	15	18	25	26	27	172	140
min	8	8	7	4	0	1	0	1	4	3	10	4	97	76

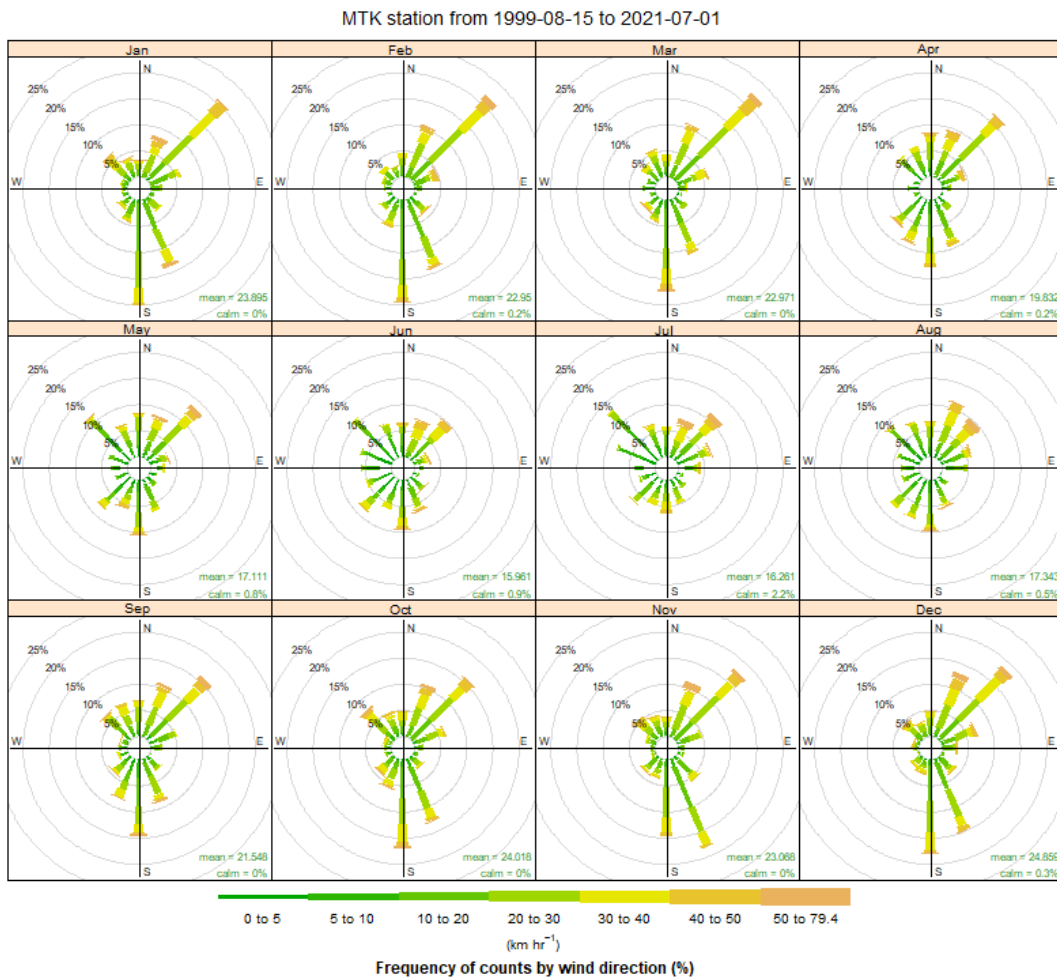
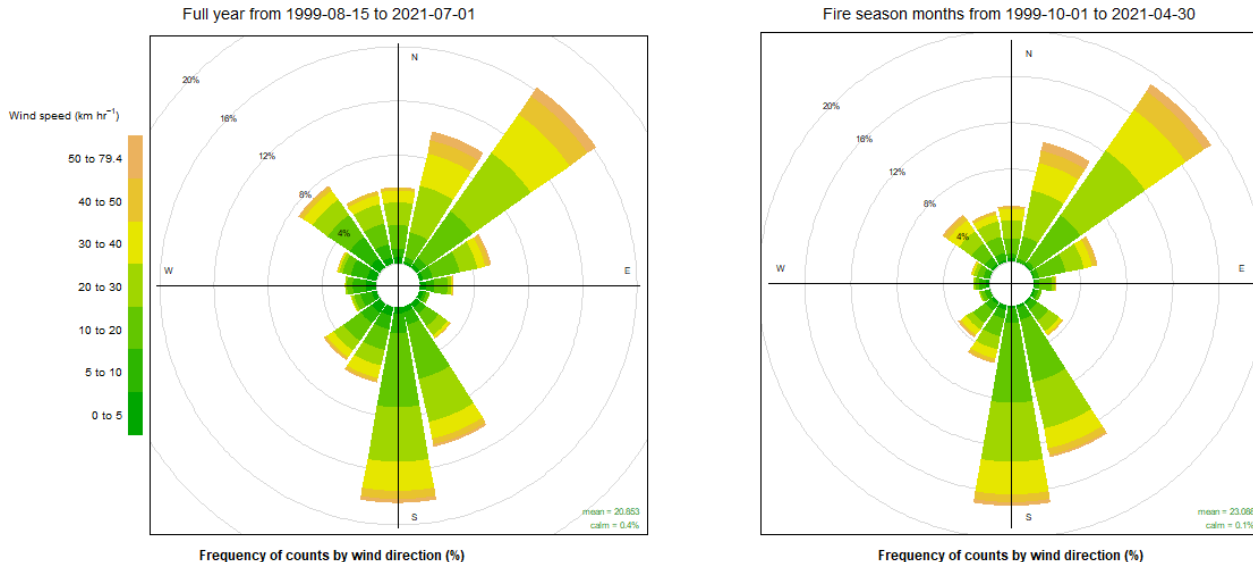
Windroses for Lees Valley Raws (LEV)



Station Name: Motukarara Raws (MTK)													Period: 1999-08-15 - 2021-07-01		Length of record: 21 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	19.5	19.3	18.1	15.7	13.3	10.1	9.7	11.0	12.6	14.1	16.0	17.9	14.8	17.2		
median	19.0	18.8	17.5	15.3	12.7	9.8	9.3	10.7	12.1	13.5	15.2	17.4	14.4	16.7		
max	35.9	33.6	29.8	28.6	25.7	24.1	19.7	21.1	24.3	26.8	30.9	32.5	35.9	35.9		
min	7.7	8.3	9.3	5.4	4.5	0.2	-0.3	1.8	3.1	3.1	6.1	7.9	-0.3	3.1		
<b>Relative Humidity, %</b>																
mean	58.4	59.5	60.9	65.1	68.3	72.5	71.8	69.0	62.4	61.3	59.1	59.9	64.0	60.6		
median	59.0	61.0	62.0	64.0	68.0	72.5	72.0	68.3	62.7	62.0	60.0	61.0	64.0	61.0		
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
min	13	13	15	14	23	26	26	27	16	16	17	14	13	13		
<b>Wind Speed, km/h</b>																
mean	24.1	23.3	23.1	19.7	17.1	15.8	15.8	18.0	21.9	23.8	23.6	25.1	21.0	23.3		
median	22.2	21.9	20.9	17.4	14.0	11.2	11.6	14.5	20.8	22.4	22.3	23.6	19.4	21.9		
max	67.4	67.0	67.4	64.4	73.8	58.5	61.4	70.9	73.7	65.2	67.9	79.4	79.4	79.4		
min	1.7	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.5	0.0	0.0	0.0		
<b>24-hr Rainfall, millimeters</b>																
mean	1.5	1.0	1.4	1.9	1.9	2.2	1.6	1.7	1.5	1.8	1.4	1.4	1.6	1.5		
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
max	44.7	46.0	56.6	58.4	45.8	78.0	42.9	55.6	70.6	70.8	40.2	33.5	78.0	70.8		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	47.5	28.8	43.8	57.8	57.9	64.7	50.9	53.4	45.2	54.8	42.4	45.6	49.4	45.8		
max	122.6	105.2	168.4	114.2	128.2	180.8	123.2	161.6	110.6	200.4	85.6	121.8	200.4	200.4		
min	5.6	3.6	1.0	5.8	10.6	8.3	7.2	17.4	16.4	9.0	0.0	2.9	0.0	0.0		
<b>Seasonal Rainfall, millimetres</b>																
mean													592.7	316.1		
max													1149.4	555.4		
min													372.8	164.0		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	79.6	81.5	79.3	71.5	68.3	64.0	65.6	68.8	75.1	76.0	78.9	79.1	74.0	78.0		
median	85.1	85.2	84.5	82.3	78.9	73.3	74.7	77.7	81.7	82.3	84.2	84.0	82.1	84.1		
max	96.1	96.1	94.1	94.0	92.0	90.1	89.4	91.2	93.1	94.1	94.6	96.0	96.1	96.1		
min	0.6	0.6	3.5	0.0	3.8	1.5	0.9	5.8	1.7	3.3	2.2	12.3	0.0	0.0		
<b>Duff Moisture Code, DMC</b>																
mean	34.8	42.3	38.7	27.8	14.6	5.4	4.4	6.0	11.1	15.4	23.5	30.9	21.2	30.4		
median	29.3	38.1	26.3	16.0	8.1	3.7	3.3	4.9	10.5	12.1	20.5	26.0	13.0	23.3		
max	106.3	116.3	153.1	148.2	107.3	40.0	21.5	30.3	31.7	55.6	71.7	142.0	153.1	153.1		
min	0.0	2.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	0.7	0.0	0.0		
<b>Drought Code, DC</b>																
mean	371.5	470.5	499.9	463.0	371.4	255.7	179.6	133.4	120.1	133.0	198.2	291.5	290.4	345.4		
median	366.6	467.3	508.9	450.9	328.8	263.4	179.5	136.4	124.1	129.7	193.0	289.7	266.4	336.0		
max	695.6	873.9	905.0	844.3	857.6	663.9	413.2	379.9	325.0	350.8	421.6	542.1	905.0	905.0		
min	50.9	200.5	37.2	23.1	1.1	0.2	0.4	0.7	0.4	2.3	23.9	56.8	0.2	2.3		
<b>Initial Spread Index, ISI</b>																
mean	10.2	8.5	7.8	5.7	4.3	3.0	3.0	3.6	5.9	6.5	7.7	8.8	6.3	7.9		
median	6.4	6.3	5.5	3.5	2.1	1.3	1.3	2.0	3.6	4.5	5.1	6.1	3.7	5.2		
max	70.1	46.7	66.8	61.9	45.1	36.4	23.9	42.1	46.6	77.4	56.3	74.7	77.4	77.4		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	54.4	66.9	61.9	45.6	25.5	10.0	7.7	10.0	16.2	22.0	34.5	46.5	33.4	47.2		
median	48.5	62.2	46.5	28.9	14.9	7.0	5.8	8.1	16.0	18.2	31.7	42.3	21.5	38.4		
max	146.4	168.6	213.4	205.1	159.1	67.8	37.5	50.5	44.9	79.7	85.0	157.8	213.4	213.4		
min	0.0	4.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.5	1.4	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	20.9	20.8	18.3	12.5	7.3	3.2	2.8	3.9	7.5	9.4	13.8	17.7	11.5	16.2		
median	16.2	17.7	14.4	7.8	2.9	0.7	0.7	1.6	5.0	7.0	11.5	13.3	6.8	12.2		
max	100.1	87.2	88.1	106.6	85.5	34.2	26.3	46.9	46.0	69.6	70.1	91.0	106.6	106.6		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	9.0	8.0	7.0	4.5	2.2	0.6	0.4	0.7	1.6	2.4	4.2	6.6	3.9	5.9		
median	3.7	4.4	3.1	1.0	0.2	0.0	0.0	0.1	0.5	0.8	2.1	2.7	0.8	2.3		
max	94.4	74.0	75.3	105.6	71.4	14.1	8.9	24.7	23.9	49.7	50.2	79.8	105.6	105.6		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	275.0	225.0	211.7	128.7	67.8	17.9	13.1	21.2	50.0	74.3	125.4	205.1	117.9	177.9		
max	842.8	571.5	571.4	507.4	390.7	61.2	38.1	98.6	147.3	271.6	301.0	480.6	842.8	842.8		
min	18.1	24.3	15.0	0.0	3.6	0.4	0.9	1.4	13.6	14.4	28.4	57.0	0.0	0.0		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													1415.1	1260.1		
max													2934.4	2412.9		
min													571.0	352.4		

Station Name: Motukarara Raws (MTK)      Period: 1999-08-15 - 2021-07-01      Length of record: 21 years														FIRE SEASON
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	6.0	4.0	6.6	12.8	19.0	24.9	27.0	25.3	16.3	13.7	7.4	6.3	169.3	55.4
max	26	21	22	30	31	30	31	31	26	24	18	20	251	123
min	0	0	0	0	5	14	20	13	7	2	0	0	98	17
<b>Moderate</b>														
mean	9.9	8.4	11.0	9.5	8.6	4.5	3.8	5.0	11.3	12.7	13.7	11.5	109.8	77.0
max	19	16	20	22	18	14	10	13	20	20	21	22	149	102
min	2	1	2	0	0	0	0	0	4	7	5	3	72	48
<b>High</b>														
mean	5.6	7.3	5.4	3.4	1.6	0.6	0.2	0.5	2.1	3.0	5.2	5.4	40.6	35.8
max	12	15	11	11	6	4	3	4	7	13	10	8	68	50
min	1	1	0	0	0	0	0	0	0	0	0	2	22	14
<b>Very High</b>														
mean	2.9	3.2	2.4	1.2	0.6	0.0	0.0	0.1	0.1	1.0	1.7	3.0	16.4	15.9
max	9	9	6	7	4	1	0	1	2	7	5	10	32	31
min	0	0	0	0	0	0	0	0	0	0	0	0	5	4
<b>Extreme</b>														
mean	4.3	3.0	3.6	2.0	0.5	0.0	0.0	0.0	0.1	0.4	1.7	3.5	19.1	18.7
max	10	8	12	10	5	1	0	0	2	3	7	10	51	42
min	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<b>Very Extreme</b>														
mean	2.4	2.4	2.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.2	1.3	10.0	9.5
max	13	11	9	8	9	0	0	0	0	1	3	6	37	32
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Canterbury (Coastal)														
Curing%	60	60	60	50	40	30	10	10	20	30	40	50		
<b>Low</b>														
mean	2.7	1.5	2.4	6.1	8.9	10.7	18.0	13.9	5.4	3.3	2.1	2.3	77.3	20.0
max	12	8	6	29	18	22	28	19	13	7	7	6	136	66
min	0	0	0	0	0	0	4	7	0	0	0	0	52	7
<b>Moderate</b>														
mean	15.8	16.2	17.7	15.8	16.9	16.5	13.0	16.8	21.4	21.9	18.1	15.0	205.0	120.3
max	24	22	25	22	25	24	27	24	27	29	23	22	238	147
min	8	10	8	1	10	8	3	12	14	11	11	5	174	97
<b>High</b>														
mean	9.3	9.1	9.6	6.3	4.8	2.7	0.0	0.3	3.2	5.4	8.1	10.5	69.2	58.8
max	17	16	20	15	11	6	0	3	10	16	15	21	104	87
min	3	4	1	0	1	0	0	0	0	1	3	5	46	35
<b>Very High</b>														
mean	2.9	1.5	1.2	1.6	0.5	0.1	0.0	0.0	0.0	0.5	1.6	2.5	12.4	11.7
max	8	4	4	5	3	1	0	0	0	2	5	6	25	21
min	0	0	0	0	0	0	0	0	0	0	0	0	3	3
<b>Extreme</b>														
mean	0.4	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.4	1.4
max	2	0	1	1	0	0	0	0	0	0	1	3	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.4	1.8	3.4	7.0	8.6	10.1	9.1	7.9	4.9	4.2	3.2	3.7	67.3	26.1
max	13	7	9	30	16	21	19	16	14	8	9	10	117	71
min	0	0	0	0	0	0	1	0	0	1	0	0	45	9
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
max	0	1	0	0	2	1	1	0	0	0	0	0	3	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.7	0.7	0.8	2.2	3.8	4.2	6.2	3.8	1.6	0.9	1.1	0.6	26.5	6.7
max	2	3	3	7	9	9	13	7	4	3	4	2	39	12
min	0	0	0	0	0	2	2	0	0	0	0	0	16	2
<b>Very High</b>														
mean	1.9	1.6	1.9	2.4	3.1	4.0	4.5	4.6	3.4	2.8	2.0	1.8	33.9	14.0
max	5	4	7	5	8	8	11	11	7	7	4	4	50	22
min	0	0	0	0	0	0	2	0	1	0	0	0	23	7
<b>Extreme</b>														
mean	5.1	5.2	6.3	5.9	5.8	5.2	5.0	6.1	6.9	7.1	6.2	6.0	70.9	42.0
max	11	11	13	12	11	10	11	11	14	13	15	10	90	55
min	2	2	2	0	1	2	2	2	1	2	1	2	47	24
<b>Very Extreme</b>														
mean	20.0	19.0	18.6	12.6	9.6	6.4	6.2	8.6	13.2	16.0	17.5	18.9	166.5	123.4
max	29	27	28	24	21	14	12	18	20	26	25	27	214	160
min	6	7	7	0	3	1	1	2	7	9	10	11	111	70

Windroses for Motukarara Raws (MTK)



Station Name: Snowdon Raws (SDN)		Period: 1993-10-27 - 2021-07-01											Length of record: 27 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	18.4	18.5	16.4	13.5	11.1	7.8	7.2	8.7	11.0	12.7	14.6	16.9	13.1	15.8
median	18.4	18.7	16.5	13.8	10.9	7.9	7.1	9.1	11.3	13.0	14.6	17.1	12.8	15.9
max	30.6	31.9	28.3	22.9	23.2	16.6	15.7	20.2	21.2	25.2	27.4	28.8	31.9	31.9
min	5.0	6.1	4.6	-0.5	0.3	-0.7	-1.7	-2.0	-1.8	0.4	1.0	3.3	-2.0	-0.5
<b>Relative Humidity, %</b>														
mean	61.9	62.6	63.7	65.6	65.6	68.4	66.7	64.0	60.5	62.2	61.2	61.2	63.6	62.6
median	61.9	63.0	63.0	62.6	63.0	67.0	64.9	61.0	58.0	61.0	59.0	60.9	62.0	61.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	11.0	14.3	17.0	20.8	22.0	23.0	17.0	17.0	17.0	16.0	14.0	17.0	11.0	11.0
<b>Wind Speed, km/h</b>														
mean	17.1	15.0	16.2	15.4	17.1	15.2	15.9	16.8	19.4	20.3	19.7	19.2	17.3	17.6
median	10.7	9.4	10.0	9.5	11.8	10.0	11.1	12.1	14.3	14.4	12.4	12.7	11.2	11.0
max	77.2	69.5	67.1	80.1	72.0	66.7	85.8	78.3	86.7	78.7	77.8	78.8	86.7	80.1
min	0.0	1.1	1.0	0.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.7	2.6	2.6	3.0	3.2	3.0	3.1	2.9	2.6	3.3	3.1	2.6	2.9	2.8
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	78.2	103.2	68.2	74.4	239.4	62.6	104.6	181.2	49.8	63.6	57.6	68.6	239.4	103.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	80.3	74.6	80.6	91.0	85.9	89.7	95.7	91.2	78.7	102.4	91.4	78.7	86.7	85.6
max	279.0	223.8	135.2	245.0	241.0	158.4	250.4	271.2	188.0	199.8	214.4	194.2	279.0	279.0
min	11.2	18.0	17.2	16.0	22.6	20.2	10.2	17.4	14.4	39.2	16.0	17.4	10.2	11.2
<b>Seasonal Rainfall, millimetres</b>														
mean													1040.2	598.6
max													1357.6	895.8
min													633.0	358.8
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	73.1	73.4	72.1	67.3	65.7	60.0	62.3	64.4	68.6	66.6	70.3	72.5	68.0	70.8
median	82.9	82.8	81.8	78.1	76.3	68.7	72.6	75.3	77.7	75.2	80.7	82.0	78.4	80.8
max	96.7	95.5	93.7	92.4	91.0	90.4	92.1	92.9	93.0	93.4	94.2	93.5	96.7	96.7
min	0.3	2.2	1.6	0.0	0.4	0.2	0.0	1.5	0.7	0.7	2.4	7.1	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	18.8	20.4	16.9	10.0	6.1	2.7	2.4	3.9	7.0	6.9	11.7	15.8	10.2	14.3
median	15.0	17.4	11.7	7.9	4.6	1.8	1.8	2.9	5.7	5.7	9.7	13.7	6.7	10.8
max	80.8	82.0	81.7	46.9	41.7	18.2	12.9	18.7	25.7	36.7	43.0	65.0	82.0	82.0
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
<b>Drought Code, DC</b>														
mean	176.4	225.6	206.8	162.0	102.5	43.8	21.2	16.0	21.5	24.7	56.4	122.1	98.5	138.8
median	162.8	222.5	206.4	144.6	86.7	9.9	5.9	6.6	11.8	16.7	44.8	119.6	57.7	123.2
max	459.3	534.8	498.8	530.4	527.8	217.4	156.0	160.7	172.7	168.7	218.7	286.7	534.8	534.8
min	5.4	4.1	2.9	0.8	0.0	0.0	0.0	0.0	0.0	1.0	2.6	4.3	0.0	0.8
<b>Initial Spread Index, ISI</b>														
mean	7.4	6.1	6.0	4.5	4.1	2.8	3.1	3.8	5.4	5.2	6.4	7.0	5.2	6.1
median	2.9	2.7	2.5	1.8	1.8	1.1	1.3	1.7	2.3	2.1	2.8	3.2	2.1	2.6
max	85.8	58.8	61.4	51.1	34.3	34.4	36.5	38.4	43.8	49.2	49.2	51.9	85.8	85.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	28.5	31.8	26.5	16.6	9.6	4.0	3.0	4.4	7.5	7.6	14.7	22.9	14.8	21.2
median	24.3	28.4	19.7	13.3	7.2	2.3	2.0	2.9	5.8	6.4	12.5	20.7	9.3	16.3
max	111.7	113.8	114.3	75.4	65.3	26.2	21.4	23.1	28.8	39.3	50.3	81.8	114.3	114.3
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	11.3	10.4	9.3	6.0	4.2	2.0	2.0	2.8	4.9	4.6	7.5	10.2	6.3	8.5
median	6.1	5.5	4.8	2.1	1.1	0.4	0.4	0.6	1.4	1.4	3.6	5.5	1.9	3.8
max	97.3	75.5	81.4	76.7	48.9	33.6	32.1	35.4	38.2	41.6	55.5	70.9	97.3	97.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	4.0	3.5	2.9	1.6	0.8	0.3	0.3	0.4	1.0	1.0	2.0	3.3	1.8	2.6
median	0.7	0.6	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	0.1	0.3
max	89.9	57.4	65.5	59.0	26.6	13.7	12.6	15.0	17.2	19.9	33.2	51.4	89.9	89.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	128.7	101.3	91.9	48.8	25.8	9.5	8.8	13.8	30.4	29.8	62.0	105.9	54.7	81.2
max	371.4	406.5	391.1	343.6	87.5	39.1	35.2	60.2	75.3	77.9	199.9	327.6	406.5	406.5
min	12.9	9.6	9.7	2.4	1.9	0.1	0.1	1.1	4.4	4.2	6.8	7.2	0.1	2.4
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													656.5	565.9
max													1340.3	1370.5
min													215.4	185.0



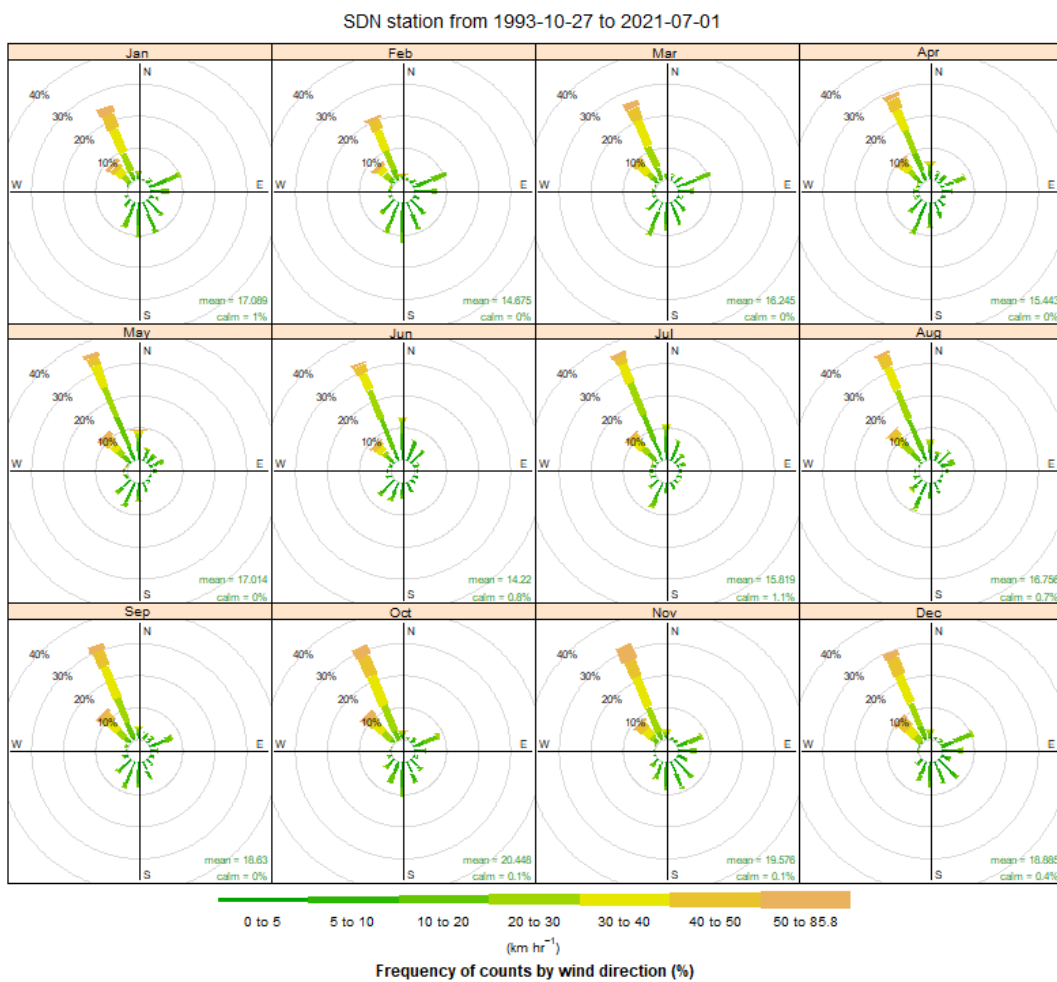
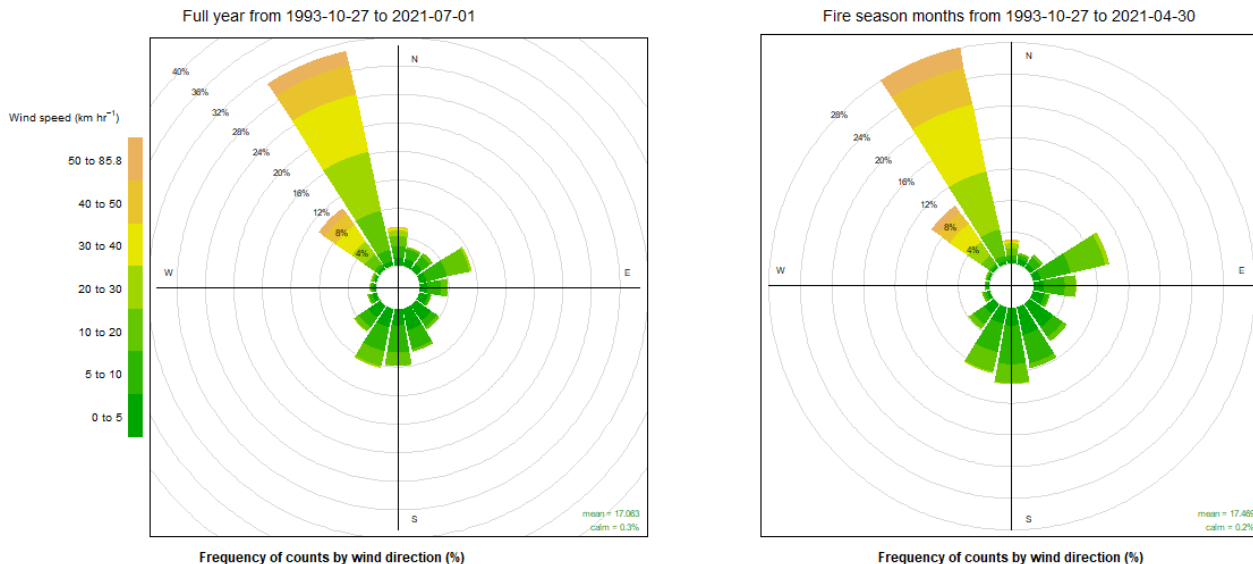
Station Name: Snowdon Raws (SDN)

Period: 1993-10-27 - 2021-07-01

Length of record: 27 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	13.7	12.7	15.7	20.6	25.0	28.2	29.8	28.7	23.8	24.9	17.9	14.8	255.9	121.0
max	27	21	27	30	31	30	31	31	30	31	29	28	311	174
min	3	2	3	6	11	19	21	18	10	18	5	4	210	69
<b>Moderate</b>														
mean	10.4	9.7	10.3	6.6	5.2	1.7	1.1	2.2	5.3	5.6	9.4	10.1	77.7	61.5
max	19	16	19	16	20	10	8	12	17	11	18	16	111	86
min	3	5	3	0	0	0	0	0	0	0	1	3	46	35
<b>High</b>														
mean	3.6	2.9	2.8	1.9	0.6	0.1	0.1	0.1	0.9	0.4	1.7	3.4	18.4	16.7
max	8	7	7	9	4	2	2	2	4	3	7	8	34	30
min	0	0	0	0	0	0	0	0	0	0	0	0	6	3
<b>Very High</b>														
mean	1.7	1.0	1.0	0.5	0.1	0.0	0.0	0.0	0.0	0.1	0.6	1.4	6.4	6.4
max	5	3	4	3	3	0	0	0	0	2	3	6	13	14
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.0	1.4	0.8	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.3	1.2	5.0	4.9
max	3	6	5	4	2	0	0	0	0	0	2	6	12	14
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.6	0.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8	1.8
max	5	7	7	4	0	0	0	0	0	0	0	4	13	13
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Canterbury (Foothills (N of Rakaia))														
Curing%	80	90	90	70	55	25	15	25	35	40	65	75		
<b>Low</b>														
mean	5.1	4.5	5.3	7.9	8.8	13.7	15.6	12.1	9.0	9.2	6.7	6.1	104.0	45.0
max	17	11	11	17	19	20	25	22	19	17	18	17	156	82
min	0	0	1	2	1	2	10	1	3	4	0	0	62	22
<b>Moderate</b>														
mean	12.8	11.7	12.8	14.9	15.9	14.4	14.3	16.3	14.3	15.1	14.4	12.9	169.7	94.9
max	20	18	19	23	24	26	19	26	20	22	23	18	202	111
min	6	5	5	7	10	7	6	8	8	10	7	8	144	79
<b>High</b>														
mean	6.0	6.0	5.6	4.4	4.9	1.9	1.1	2.6	5.9	5.6	4.9	5.2	54.1	37.5
max	11	15	11	12	8	6	4	8	12	9	8	10	66	51
min	1	0	1	0	2	0	0	0	1	1	1	2	39	22
<b>Very High</b>														
mean	2.7	2.1	2.9	1.9	1.4	0.0	0.0	0.0	0.7	1.2	3.3	3.4	19.6	17.2
max	7	4	6	4	6	0	0	1	4	4	7	7	29	28
min	0	0	0	0	0	0	0	0	0	0	0	0	14	10
<b>Extreme</b>														
mean	3.8	2.8	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.4	15.2	15.0
max	8	6	7	5	1	0	0	0	0	0	3	8	20	23
min	0	0	0	0	0	0	0	0	0	0	0	0	6	6
<b>Very Extreme</b>														
mean	0.6	1.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6
max	3	4	5	0	0	0	0	0	0	0	0	0	8	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	6.1	5.7	6.7	8.9	9.7	11.8	11.6	10.8	8.5	9.6	7.7	6.9	104.1	51.9
max	17	11	12	18	22	17	20	19	17	17	19	19	147	89
min	0	1	1	2	2	1	6	2	1	2	1	0	62	31
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	1	0	0	0	1	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	3.3	2.9	3.2	4.0	3.7	4.0	3.7	3.5	3.4	3.4	2.9	2.6	40.7	22.9
max	6	7	11	12	8	9	8	8	8	8	6	6	64	36
min	0	0	0	0	0	0	0	0	0	0	0	0	27	8
<b>Very High</b>														
mean	2.7	3.2	3.9	3.4	3.0	3.7	3.7	3.1	2.7	2.6	2.5	2.4	37.0	20.6
max	8	6	8	9	9	10	7	6	8	5	6	8	47	31
min	0	1	0	1	1	0	0	1	0	0	0	0	27	11
<b>Extreme</b>														
mean	6.4	6.6	6.3	5.3	6.0	4.4	5.2	5.4	4.8	5.0	5.7	6.7	67.7	41.7
max	15	11	13	12	14	8	9	13	10	10	15	14	86	55
min	1	3	2	2	0	1	2	0	0	1	1	2	48	22
<b>Very Extreme</b>														
mean	12.5	9.9	10.9	8.3	8.6	6.0	6.7	8.3	10.6	10.4	11.2	12.4	115.6	75.2
max	20	18	19	21	15	14	13	18	18	17	21	21	146	114
min	4	3	5	2	2	0	0	2	5	5	5	4	82	52

Windroses for Snowdon Raws (SDN)



Station Name: Tara Hills Aws (THE)		Period: 1991-10-01 - 2021-07-01												Length of record: 29 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Temperature, degrees Celsius</b>															
mean	20.1	19.8	17.1	13.2	9.4	5.4	4.9	7.5	11.1	13.8	16.1	18.5	13.1	16.9	
median	20.0	20.0	17.0	13.0	9.0	5.0	5.0	7.2	11.0	14.0	16.0	18.8	13.0	17.0	
max	32.0	32.0	29.0	23.8	22.0	26.0	15.9	19.0	23.1	24.9	27.5	29.0	32.0	32.0	
min	6.0	0.0	4.8	1.0	-2.4	-11.5	-10.9	0.0	1.0	3.6	0.0	5.0	-11.5	0.0	
<b>Relative Humidity, %</b>															
mean	46.7	47.3	52.6	57.9	66.6	72.4	71.2	63.4	53.3	49.4	47.1	46.9	56.2	49.7	
median	42.0	45.5	50.0	57.0	68.0	74.0	71.0	62.0	51.0	46.0	43.0	44.0	54.0	47.0	
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
min	7	8	9	18	14	20	27	23	13	13	13	13	7	7	
<b>Wind Speed, km/h</b>															
mean	14.7	12.7	11.8	9.5	8.6	6.8	6.7	8.5	12.3	15.3	15.7	14.7	11.5	13.5	
median	11.0	8.0	6.5	6.0	4.2	4.0	4.0	4.0	7.0	11.0	11.0	11.0	7.0	9.0	
max	67.0	52.7	56.0	57.0	54.0	66.7	46.0	61.0	63.0	65.0	66.0	67.0	67.0	67.0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>24-hr Rainfall, millimeters</b>															
mean	1.6	1.4	1.2	1.3	1.6	1.5	1.5	1.1	1.1	1.3	1.6	1.9	1.4	1.5	
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	59.4	42.8	28.4	27.0	81.3	70.8	79.8	82.5	39.8	43.2	57.8	80.0	82.5	80.0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Rainfall, millimetres</b>															
mean	49.7	40.0	36.1	38.3	47.4	46.6	45.9	32.8	34.3	40.8	48.0	58.2	43.2	44.4	
max	115.0	120.4	78.0	73.8	115.4	115.4	159.7	106.5	91.0	98.6	125.2	155.0	159.7	155.0	
min	2.4	2.8	3.6	7.6	11.8	1.0	3.2	3.4	6.4	4.8	3.4	10.6	1.0	2.4	
<b>Seasonal Rainfall, millimetres</b>															
mean													518.0	309.9	
max													816.7	490.2	
min													344.6	180.8	
<b>Fine Fuel Moisture Code, FFMC</b>															
mean	81.9	82.4	79.8	75.6	69.8	63.6	67.2	72.4	77.2	78.3	80.2	80.6	75.8	79.8	
median	87.9	88.0	86.1	83.3	78.1	72.7	75.7	79.4	83.4	84.8	86.7	87.0	82.6	86.2	
max	97.6	97.2	96.7	92.7	92.9	89.8	88.7	90.5	94.7	94.2	95.3	95.7	97.6	97.6	
min	9.3	1.4	9.1	5.1	5.1	1.9	5.7	10.7	10.2	12.8	3.7	8.9	1.4	1.4	
<b>Duff Moisture Code, DMC</b>															
mean	37.5	45.6	39.7	26.7	12.1	5.4	3.1	6.0	14.1	21.2	28.8	34.0	22.9	33.3	
median	31.0	39.8	31.1	19.5	9.2	3.0	2.1	4.6	11.6	17.6	24.8	31.2	15.3	27.0	
max	158.6	178.3	153.2	143.9	92.0	37.5	19.5	30.7	51.0	71.2	99.2	113.8	178.3	178.3	
min	2.6	2.4	0.2	1.0	0.0	0.0	0.0	0.0	0.0	1.3	0.9	1.2	0.0	0.2	
<b>Drought Code, DC</b>															
mean	347.1	421.3	450.0	449.2	377.5	285.8	200.6	166.3	161.5	179.1	230.2	296.9	297.4	338.1	
median	328.9	394.5	435.4	452.7	382.9	283.5	194.1	157.1	152.5	162.6	226.6	292.5	284.2	323.4	
max	730.8	882.2	758.3	734.5	736.1	671.9	500.5	523.3	558.1	617.8	488.0	587.9	882.2	882.2	
min	91.3	172.0	206.6	179.5	23.4	1.1	0.0	0.0	0.2	12.3	3.1	35.1	0.0	3.1	
<b>Initial Spread Index, ISI</b>															
mean	9.4	8.2	6.6	3.8	2.5	1.4	1.5	2.4	4.8	6.7	8.3	8.0	5.3	7.3	
median	5.3	4.9	3.5	2.3	1.3	0.9	1.0	1.5	2.5	3.6	4.7	4.8	2.4	4.0	
max	78.6	83.1	80.5	45.2	46.4	19.5	20.6	29.8	71.0	68.3	78.7	58.6	83.1	83.1	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Buildup Index, BUI</b>															
mean	56.7	69.4	62.0	44.6	21.8	10.0	5.7	10.2	21.4	30.7	41.3	50.9	35.4	50.6	
median	49.7	63.4	53.5	34.7	17.3	5.9	3.9	8.1	18.3	26.6	38.4	47.7	25.8	43.3	
max	205.6	236.9	201.4	186.5	140.2	63.5	34.6	44.9	72.7	99.1	108.5	142.8	236.9	236.9	
min	5.1	4.7	0.3	2.1	0.0	0.0	0.0	0.0	0.0	2.5	1.7	2.4	0.0	0.3	
<b>Fire Weather Index, FWI</b>															
mean	19.7	19.6	15.9	8.8	4.0	1.5	1.1	2.6	7.1	11.0	15.6	17.0	10.4	15.4	
median	14.3	15.0	10.6	5.4	1.5	0.4	0.4	0.8	3.9	7.3	10.7	13.1	4.3	10.4	
max	122.2	110.1	107.5	81.0	48.8	31.1	23.7	35.1	55.0	83.2	110.8	94.4	122.2	122.2	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Daily Severity Rating, DSR</b>															
mean	8.7	8.2	6.4	2.5	0.8	0.2	0.1	0.4	1.7	3.5	6.0	6.6	3.8	6.0	
median	3.0	3.3	1.8	0.5	0.1	0.0	0.0	0.0	0.3	0.9	1.8	2.6	0.4	1.7	
max	134.6	111.8	107.2	65.0	26.5	11.9	7.4	14.8	32.8	68.1	113.1	85.2	134.6	134.6	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Severity Rating, MSR</b>															
mean	277.6	235.9	199.5	73.0	26.1	5.5	3.3	12.4	51.9	109.4	186.0	208.8	115.8	184.3	
max	969.1	482.1	598.4	379.0	122.1	31.7	13.9	70.4	220.5	481.9	656.4	447.6	969.1	969.1	
min	43.1	37.1	6.2	2.7	0.1	0.1	0.0	0.1	7.1	16.3	14.1	19.6	0.0	2.7	
<b>Cumulative Daily Severity Rating, CDSR</b>															
mean													1389.3	1265.8	
max													2344.6	2538.0	
min													413.4	300.8	

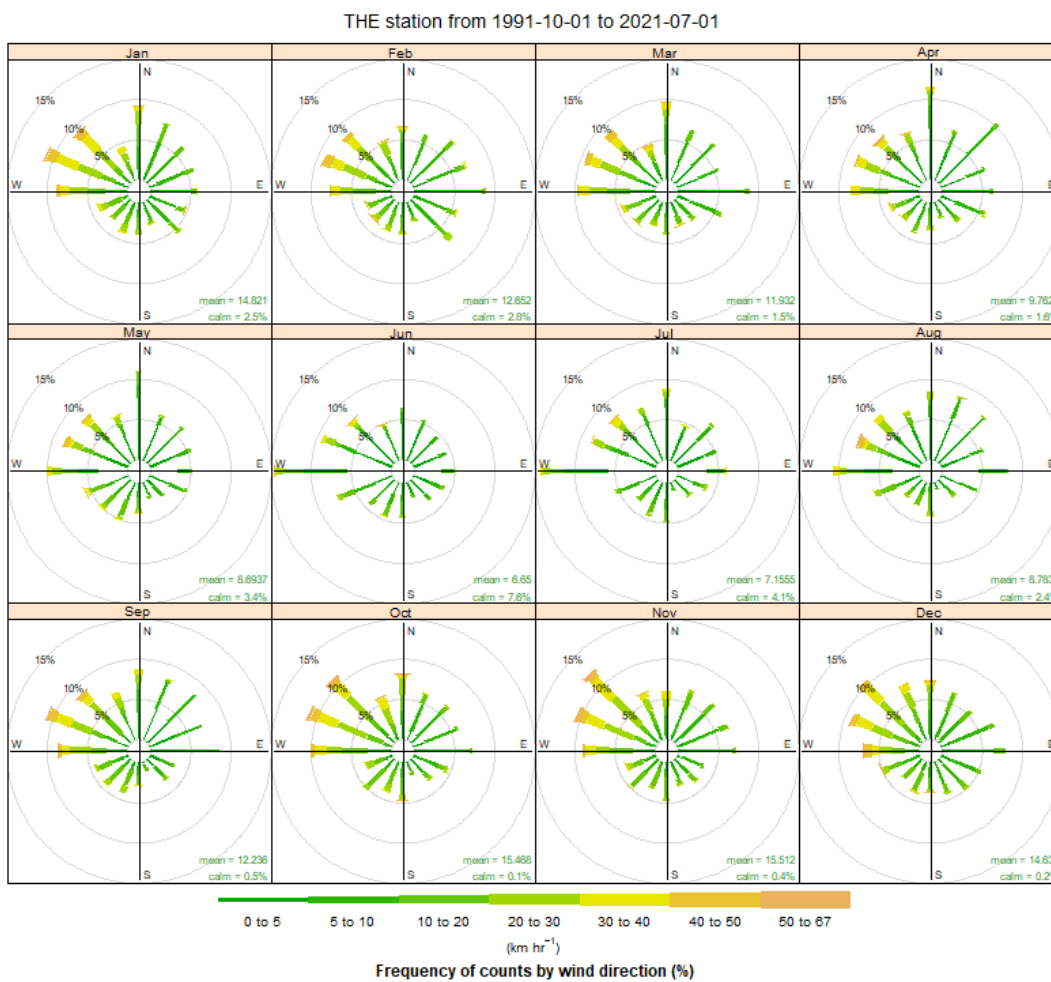
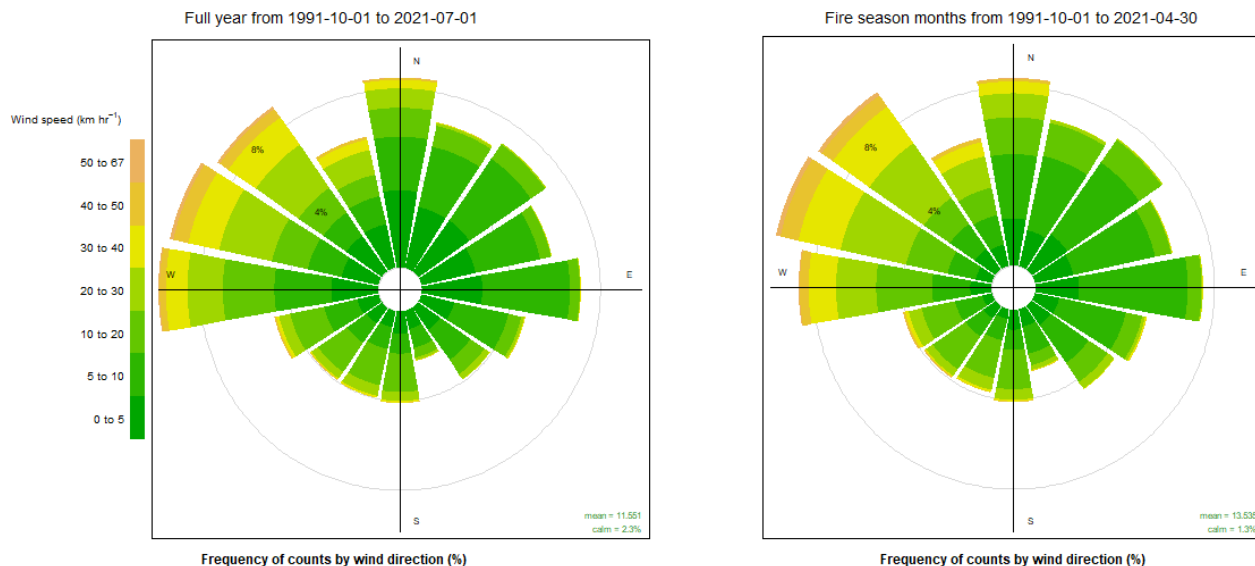
Station Name: Tara Hills Aws (THE)

Period: 1991-10-01 - 2021-07-01

Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	7.6	5.4	9.1	13.4	23.2	27.3	29.9	27.2	16.7	12.2	8.7	7.8	188.4	64.6
max	24	15	27	28	31	30	31	31	27	23	25	20	257	140
min	0	0	0	1	5	19	25	11	0	0	0	2	134	22
<b>Moderate</b>														
mean	9.0	9.2	10.8	11.9	6.4	2.5	1.1	3.3	10.6	12.5	10.4	9.6	97.2	74.0
max	23	17	20	24	17	10	6	16	20	19	18	17	137	104
min	2	1	1	2	0	0	0	0	3	7	3	3	60	44
<b>High</b>														
mean	5.3	5.9	4.5	2.6	0.7	0.1	0.0	0.3	1.6	3.2	4.9	6.3	35.6	32.6
max	14	17	13	10	5	2	1	3	6	9	12	13	59	55
min	1	2	0	0	0	0	0	0	0	0	0	0	13	9
<b>Very High</b>														
mean	2.7	2.6	2.4	0.9	0.4	0.1	0.0	0.1	0.7	1.6	2.3	2.4	16.0	14.4
max	7	8	6	5	2	2	0	2	5	4	6	8	29	31
min	0	0	0	0	0	0	0	0	0	0	0	0	3	3
<b>Extreme</b>														
mean	3.8	2.7	2.3	0.9	0.2	0.0	0.0	0.0	0.4	1.2	2.4	3.4	17.2	16.2
max	13	8	8	3	3	0	0	0	4	8	11	9	35	42
min	0	0	0	0	0	0	0	0	0	0	0	0	3	3
<b>Very Extreme</b>														
mean	2.7	2.5	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.5	10.7	10.5
max	12	8	10	4	0	0	0	0	0	6	7	7	26	30
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Canterbury (Hill & high Country)														
Curing%	80	80	70	60	60	50	60	60	70	70	70	80		
<b>Low</b>														
mean	2.1	1.9	3.4	5.6	9.1	11.0	10.2	7.2	3.1	3.3	2.6	2.3	61.9	21.3
max	6	6	16	16	19	23	24	18	10	8	9	7	91	42
min	0	0	0	0	1	1	1	0	0	0	0	0	39	8
<b>Moderate</b>														
mean	10.3	9.6	16.6	21.1	20.1	18.4	20.1	21.9	19.3	16.9	13.7	10.9	198.9	99.9
max	23	19	25	27	28	29	30	29	27	25	20	23	245	133
min	1	2	4	10	8	7	7	12	13	9	4	3	139	61
<b>High</b>														
mean	9.9	10.7	7.0	2.7	1.5	0.6	0.7	1.7	5.0	6.3	7.9	10.4	64.4	54.7
max	17	19	17	8	8	3	3	6	10	14	13	17	98	81
min	4	4	1	0	0	0	0	0	1	2	2	3	38	27
<b>Very High</b>														
mean	3.4	2.6	2.0	0.5	0.3	0.0	0.0	0.1	2.0	2.7	3.1	3.0	19.7	16.9
max	8	6	7	4	3	1	0	1	6	7	7	7	33	28
min	0	1	0	0	0	0	0	0	0	0	0	0	5	8
<b>Extreme</b>														
mean	4.2	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	2.7	3.9	18.2	17.3
max	9	7	4	0	0	0	0	0	5	7	10	10	34	33
min	0	0	0	0	0	0	0	0	0	0	0	0	3	2
<b>Very Extreme</b>														
mean	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.2	2.1
max	5	3	0	0	0	0	0	0	0	0	0	4	6	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.1	2.6	3.7	4.8	7.6	10.1	7.6	5.6	3.8	4.2	3.3	3.3	59.6	25.0
max	11	7	16	13	17	24	20	15	10	8	11	9	94	47
min	0	0	0	0	1	1	0	0	0	0	0	1	37	11
<b>Moderate</b>														
mean	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.8	0.3
max	1	0	1	1	2	2	1	2	0	1	1	0	5	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.3	1.8	3.1	4.2	6.9	8.8	11.9	8.0	4.6	3.5	2.6	2.9	60.4	20.3
max	11	5	7	10	16	23	21	13	9	8	9	8	89	39
min	0	0	0	1	1	2	4	1	0	1	0	0	40	9
<b>Very High</b>														
mean	2.0	2.0	3.3	4.9	6.1	5.9	6.4	7.1	4.0	3.1	2.4	2.2	49.4	20.1
max	5	6	12	12	13	18	14	15	13	7	9	5	81	45
min	0	0	0	0	1	1	0	1	0	0	0	0	31	8
<b>Extreme</b>														
mean	5.3	5.6	7.6	9.1	6.1	3.4	3.4	6.6	8.4	6.9	5.6	5.4	73.5	46.1
max	14	13	14	17	13	10	14	13	21	15	11	15	96	68
min	0	1	1	3	0	0	0	0	1	3	1	1	39	24
<b>Very Extreme</b>														
mean	18.1	16.3	13.3	6.9	4.1	1.7	1.6	3.6	9.2	13.3	16.1	17.2	121.6	100.4
max	29	25	29	16	12	5	5	16	19	26	28	26	166	145
min	5	8	1	0	0	0	0	0	2	4	5	7	65	47

Windroses for Tara Hills Aws (THE)

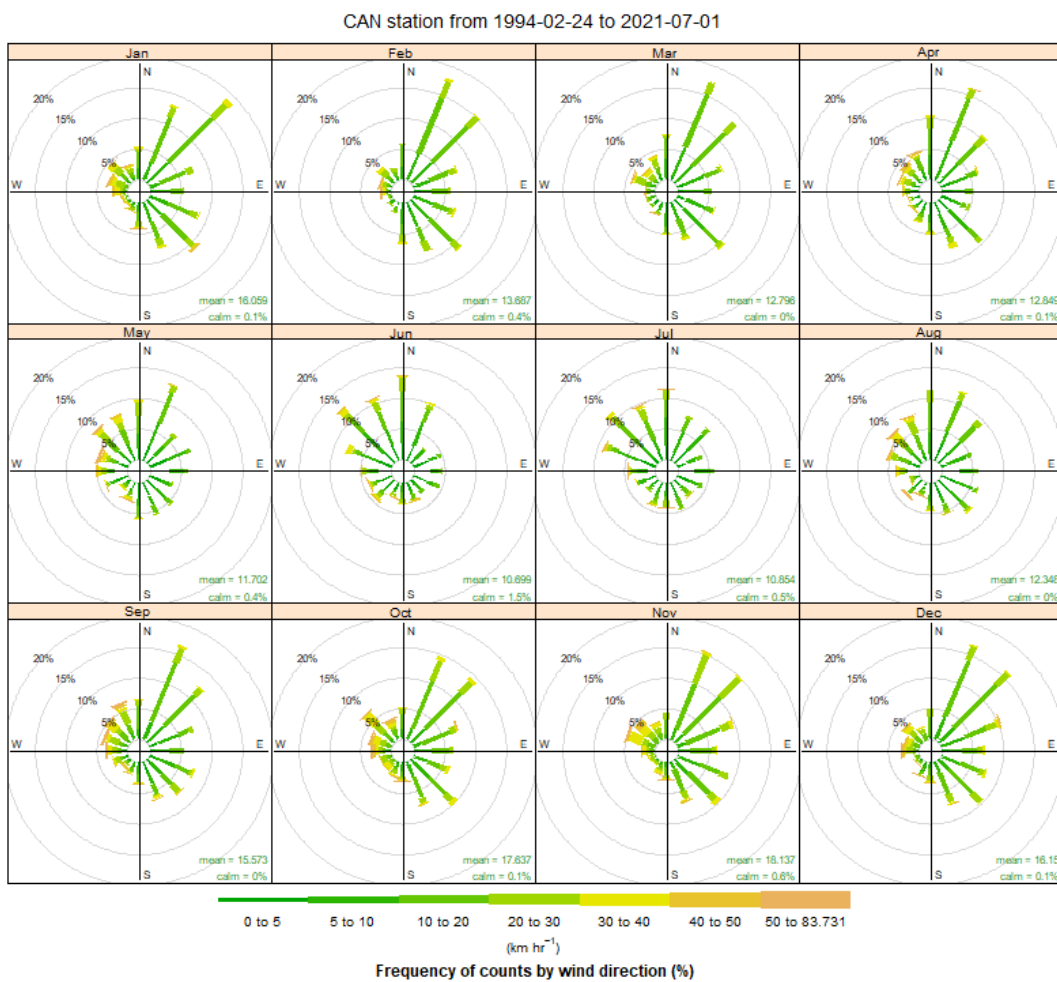
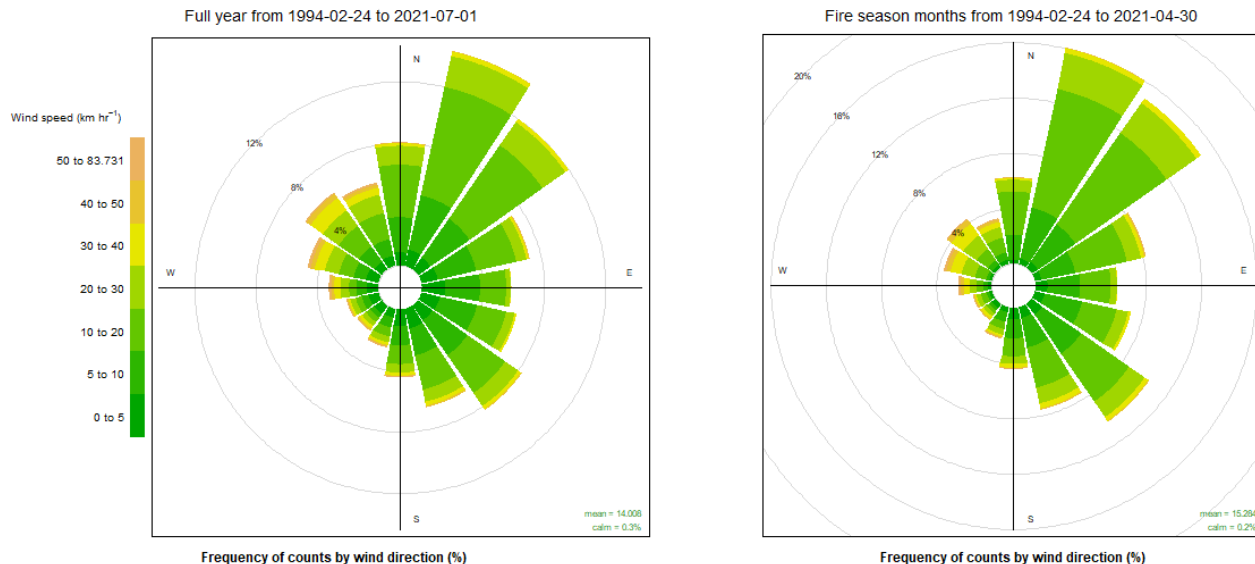


Station Name: Cannington Raws (CAN)		Period: 1994-02-24 - 2021-07-01											Length of record: 27 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	18.5	18.2	16.8	14.1	11.3	8.4	7.9	9.6	11.9	13.6	15.3	17.2	13.5	16.2
median	18.0	17.9	16.4	13.8	10.8	8.0	7.6	9.3	11.5	13.2	14.8	16.8	13.1	15.8
max	33.2	33.8	31.9	26.4	24.2	20.7	17.9	20.6	24.2	27.0	30.0	31.8	33.8	33.8
min	8.2	6.7	7.0	6.1	3.2	-0.3	-1.3	0.0	2.3	4.1	1.3	5.6	-1.3	1.3
<b>Relative Humidity, %</b>														
mean	62.6	65.4	64.8	66.5	67.6	68.5	66.7	65.1	61.0	62.1	62.4	63.3	64.7	63.9
median	64.0	67.0	65.0	66.9	69.0	70.0	67.0	65.3	61.5	65.0	64.6	65.0	66.0	65.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	8.0	12.8	19.0	15.2	19.0	19.0	13.0	18.0	14.0	19.0	21.0	12.0	8.0	8.0
<b>Wind Speed, km/h</b>														
mean	16.0	13.9	12.8	12.8	11.8	11.1	10.8	12.6	15.8	17.5	18.1	16.5	14.1	15.4
median	13.8	11.9	10.4	9.5	8.3	7.6	7.5	9.0	13.0	15.2	16.1	14.8	11.6	13.3
max	72.9	56.2	67.3	80.6	69.5	54.7	78.8	72.6	83.7	80.6	54.4	60.1	83.7	80.6
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	1.8	1.8	1.6	1.5	1.3	1.3	1.4	1.4	1.2	1.6	1.9	1.8	1.6	1.7
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	38.0	72.6	121.4	40.2	64.0	80.8	93.6	86.0	38.0	29.6	83.4	47.0	121.4	121.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	55.6	52.3	45.0	46.8	39.0	41.0	37.4	45.3	35.6	52.1	58.2	57.1	47.1	52.4
max	178.6	181.2	99.6	95.4	163.8	211.0	99.6	194.6	91.8	101.2	196.2	129.2	211.0	196.2
min	2.0	14.4	3.4	11.6	2.7	5.6	4.6	6.6	11.8	15.4	13.2	6.4	2.0	2.0
<b>Seasonal Rainfall, millimetres</b>														
mean													565.5	361.9
max													843.7	553.2
min													365.0	198.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	74.6	75.0	74.4	72.6	72.1	70.1	71.3	72.4	74.8	72.9	73.6	73.9	73.1	73.8
median	82.3	82.6	81.4	80.9	80.6	79.6	80.0	80.5	82.1	80.4	81.0	81.5	81.0	81.5
max	98.1	96.1	94.9	94.5	91.6	92.6	91.7	92.7	93.6	94.1	93.6	96.3	98.1	98.1
min	2.8	1.8	1.7	1.0	3.0	2.7	0.7	0.4	10.8	5.1	0.8	4.1	0.4	0.8
<b>Duff Moisture Code, DMC</b>														
mean	22.6	22.9	21.4	19.7	13.2	10.2	8.1	9.5	14.4	14.5	16.7	19.1	16.0	19.6
median	17.3	19.6	17.1	15.8	10.4	8.7	6.9	7.9	13.2	11.9	14.9	15.5	12.7	15.9
max	111.0	96.2	103.4	106.5	53.7	38.4	25.3	34.2	41.5	54.7	60.8	92.1	111.0	111.0
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	338.5	392.3	396.1	388.6	344.6	282.9	242.3	191.7	189.1	188.8	219.6	278.4	288.0	314.6
median	333.1	384.1	411.2	375.9	340.1	270.6	232.4	191.5	199.5	200.9	216.9	281.6	272.6	301.1
max	652.7	745.5	801.0	727.6	672.5	629.3	583.3	469.2	455.7	436.8	436.1	535.8	801.0	801.0
min	31.5	70.1	4.0	48.9	86.8	0.0	1.0	0.0	1.1	1.7	4.3	27.9	0.0	1.7
<b>Initial Spread Index, ISI</b>														
mean	5.9	4.4	4.2	3.7	3.5	3.1	2.8	3.8	5.2	5.5	5.5	5.3	4.4	4.9
median	2.8	2.7	2.2	2.1	1.9	1.6	1.8	1.9	2.7	2.6	2.9	2.5	2.2	2.5
max	97.1	79.8	56.0	85.4	57.8	54.8	52.5	52.8	61.1	82.8	61.6	74.1	97.1	97.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	37.4	38.9	36.5	33.5	23.2	18.2	14.1	15.5	22.4	22.2	26.6	31.4	26.6	32.3
median	29.9	34.2	30.5	27.9	19.3	16.0	12.0	13.2	21.4	19.7	24.6	26.8	22.2	27.3
max	151.8	144.0	149.0	155.2	88.2	59.7	40.2	56.9	62.7	82.3	81.9	127.4	155.2	155.2
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	11.2	9.3	8.3	7.3	5.4	4.4	3.4	4.8	7.7	7.9	9.0	9.7	7.3	9.0
median	6.6	6.2	4.7	4.1	2.7	1.9	1.8	2.4	4.5	3.9	5.2	5.2	3.7	5.0
max	117.0	107.7	73.4	130.0	47.9	57.9	37.5	49.8	70.1	80.5	79.9	91.8	130.0	130.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	4.0	2.7	2.3	2.1	1.1	0.9	0.5	1.0	2.0	2.3	2.5	3.1	2.0	2.7
median	0.8	0.7	0.4	0.3	0.2	0.1	0.1	0.1	0.4	0.3	0.5	0.5	0.3	0.5
max	124.5	107.6	54.6	150.1	25.6	35.9	16.7	27.4	50.3	64.2	63.4	81.1	150.1	150.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	123.0	77.6	76.4	58.4	32.7	28.3	16.7	28.1	61.6	71.2	71.5	89.1	61.2	81.0
max	487.5	283.5	227.8	494.5	129.6	129.2	42.4	83.4	224.7	337.6	247.5	464.6	494.5	494.5
min	11.3	2.1	2.5	0.7	1.8	0.9	0.5	0.4	9.3	10.1	5.1	8.6	0.4	0.7
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													734.6	579.0
max													1375.2	1325.0
min													272.3	175.2

Station Name: Cannington Raws (CAN)      Period: 1994-02-24 - 2021-07-01      Length of record: 27 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	12.7	11.9	14.7	16.8	20.5	20.7	23.7	22.1	16.2	17.1	14.7	14.9	206.0	101.9
max	28	28	29	30	31	30	31	31	28	29	28	26	257	148
min	2	3	0	3	3	6	11	7	6	2	1	0	134	42
<b>Moderate</b>														
mean	11.2	10.9	10.9	9.9	8.7	8.2	6.9	7.7	10.5	10.3	11.0	10.3	116.4	74.7
max	19	22	18	22	23	19	19	18	17	25	22	19	156	100
min	1	1	2	0	0	0	0	0	2	0	2	3	86	49
<b>High</b>														
mean	3.8	3.3	3.3	2.1	1.4	0.9	0.3	1.0	1.9	2.2	2.6	3.6	26.3	21.0
max	10	10	10	11	6	5	4	5	7	7	8	12	50	53
min	0	0	0	0	0	0	0	0	0	0	0	0	5	7
<b>Very High</b>														
mean	1.2	1.1	1.0	0.6	0.2	0.1	0.0	0.2	0.8	0.8	1.1	1.0	8.0	6.8
max	5	5	6	4	2	1	1	2	4	5	4	4	19	23
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.5	0.9	0.9	0.3	0.3	0.2	0.0	0.0	0.6	0.4	0.6	0.9	6.6	5.7
max	7	3	4	3	2	3	0	1	6	5	4	4	20	14
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.7	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	2.0	2.0
max	8	4	2	6	0	0	0	0	1	2	2	5	8	13
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Canterbury (Foothills (S of Rakaia))														
Curing%	60	80	80	55	40	15	15	15	25	25	40	50		
<b>Low</b>														
mean	5.3	3.3	4.3	6.0	7.1	12.2	11.9	11.0	6.2	7.7	5.3	5.6	85.8	36.7
max	15	9	16	15	17	25	26	25	11	18	15	13	113	73
min	0	0	0	1	0	3	3	4	2	1	0	0	57	15
<b>Moderate</b>														
mean	19.8	15.7	17.9	20.5	20.6	17.0	18.6	19.0	20.0	19.8	18.9	18.9	226.9	131.5
max	26	25	25	26	29	27	27	26	27	27	27	25	256	151
min	14	9	11	15	12	5	4	6	13	12	10	13	186	103
<b>High</b>														
mean	4.3	6.7	5.7	2.7	2.8	0.8	0.5	0.9	3.4	2.8	4.5	4.9	40.0	32.1
max	13	13	16	7	8	5	3	4	9	8	9	12	58	57
min	0	0	0	0	0	0	0	0	0	0	0	1	18	14
<b>Very High</b>														
mean	1.4	1.5	1.8	0.6	0.5	0.0	0.0	0.0	0.4	0.7	1.2	1.1	9.0	8.4
max	6	5	6	3	3	0	0	0	3	5	4	4	17	18
min	0	0	0	0	0	0	0	0	0	0	0	0	1	2
<b>Extreme</b>														
mean	0.1	1.0	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	3.2	3.1
max	2	3	3	2	1	0	0	0	0	0	2	3	7	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
max	0	1	2	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	6.0	4.8	5.4	6.5	6.4	6.5	6.0	5.9	4.9	6.5	6.2	6.3	71.5	41.1
max	15	11	16	17	15	16	16	24	11	13	15	14	98	75
min	0	0	0	1	0	0	0	1	1	1	0	0	46	19
<b>Moderate</b>														
mean	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
max	0	1	1	0	0	1	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.7	3.0	4.0	3.6	5.2	5.3	5.6	4.5	3.3	3.6	2.5	2.7	45.9	22.1
max	7	8	11	8	12	16	10	13	8	8	7	6	63	38
min	1	0	0	0	0	0	0	1	0	0	0	0	34	13
<b>Very High</b>														
mean	3.3	4.1	5.0	5.6	6.2	6.2	6.3	6.6	4.3	3.7	4.2	4.7	60.1	30.1
max	8	9	12	12	13	13	11	12	10	8	8	12	80	41
min	0	0	1	0	1	1	1	1	1	0	1	1	42	17
<b>Extreme</b>														
mean	7.7	7.5	8.1	8.2	7.2	6.4	8.3	7.6	7.8	6.5	7.1	7.0	89.5	52.5
max	13	15	18	20	16	12	17	14	14	13	16	14	108	70
min	3	4	2	2	2	2	2	4	3	2	2	2	61	33
<b>Very Extreme</b>														
mean	11.3	8.8	8.4	6.1	6.0	5.5	4.8	6.4	9.7	10.6	10.1	10.2	98.1	66.3
max	23	16	18	16	15	13	11	13	18	22	20	24	131	111
min	3	0	0	0	0	0	0	1	1	3	1	2	61	36

Windroses for Cannington Raws (CAN)





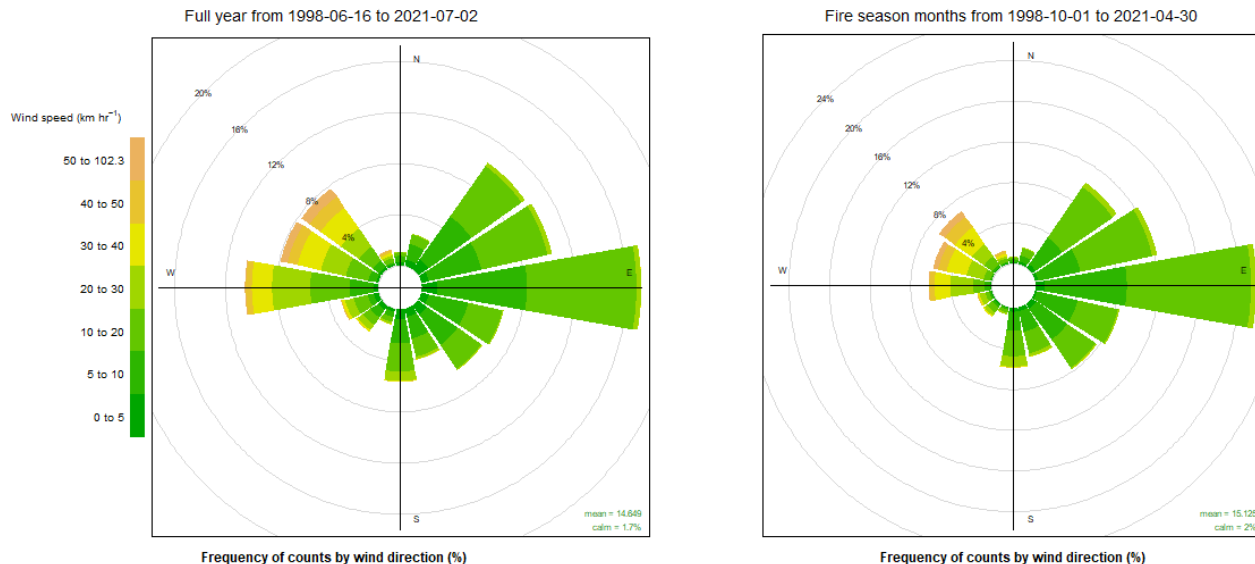
Station Name: Mount Somers Raws (MTS)      Period: 1998-06-16 - 2021-07-02      Length of record: 23 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	17.9	17.6	16.3	13.6	11.3	8.5	8.1	9.1	11.5	12.8	14.7	16.7	13.1	15.6
median	17.7	17.8	16.1	13.4	11.1	8.3	7.8	8.9	11.3	12.9	14.6	16.8	12.8	15.5
max	32.6	30.7	29.8	24.2	21.4	18.2	18.5	19.1	37.0	24.1	28.1	29.3	37.0	32.6
min	6.2	6.8	4.9	4.0	1.4	-0.8	-1.5	-1.9	0.8	1.7	0.2	3.7	-1.9	0.2
<b>Relative Humidity, %</b>														
mean	65.8	67.7	67.2	66.4	64.4	63.9	61.4	62.3	59.4	62.7	63.9	66.0	64.2	65.6
median	68.0	69.5	69.0	66.0	63.0	62.0	59.0	61.0	57.0	63.0	65.0	69.0	64.0	67.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	14	18	16	18	15	21	16	14	15	15	17	19	14	14
<b>Wind Speed, km/h</b>														
mean	15.7	13.5	13.5	12.7	13.6	13.0	13.2	13.4	17.2	17.8	17.2	15.8	14.7	15.2
median	12.0	11.2	10.4	9.7	9.4	9.7	10.0	9.5	11.8	12.9	13.3	12.6	11.3	11.9
max	77.5	52.2	79.2	83.8	102.3	85.9	92.1	69.9	77.7	97.6	65.4	83.6	102.3	97.6
min	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<b>24-hr Rainfall, millimetres</b>														
mean	3.6	3.9	3.4	3.5	3.4	2.8	2.8	2.7	2.5	3.7	3.4	3.6	3.3	3.6
median	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0
max	61.7	111.2	58.4	65.3	206.8	59.6	77.5	97.3	66.0	55.6	77.4	73.0	206.8	111.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	109.8	110.7	107.7	106.8	94.0	84.2	86.0	83.2	78.5	113.4	103.5	114.7	99.4	109.5
max	290.4	311.4	196.8	259.0	251.6	213.6	243.8	204.6	205.7	193.4	249.4	236.6	311.4	311.4
min	30.8	51.8	40.4	31.5	19.2	17.8	21.8	21.2	7.2	9.8	21.0	30.4	7.2	9.8
<b>Seasonal Rainfall, millimetres</b>														
mean													1192.3	757.2
max													1607.4	1019.2
min													803.8	406.9
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	66.2	65.5	64.1	62.4	64.1	63.4	66.4	65.4	68.4	64.6	66.0	65.0	65.1	64.8
median	75.1	75.2	74.1	72.5	75.0	72.7	76.4	75.3	77.5	72.9	76.2	74.4	74.7	74.3
max	96.0	94.4	94.1	91.7	92.8	90.8	91.2	93.3	95.4	94.2	94.1	93.8	96.0	96.0
min	0.0	2.3	0.6	1.1	0.0	0.1	0.1	0.6	0.6	1.3	0.8	1.8	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	12.2	10.3	8.5	6.7	4.9	3.7	3.8	5.0	7.9	7.5	11.0	9.7	7.6	9.4
median	9.8	9.1	7.4	5.3	3.6	2.6	2.8	4.0	6.4	5.5	7.9	7.6	5.6	7.3
max	49.2	42.5	29.5	35.5	20.2	21.5	16.7	20.4	38.6	42.3	63.8	46.1	63.8	63.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	119.0	135.6	115.2	91.1	54.2	33.3	17.4	11.3	16.8	20.5	51.6	87.0	62.3	88.1
median	105.9	129.9	111.8	69.7	20.6	12.0	9.2	8.0	11.6	16.0	42.7	75.7	32.3	69.8
max	353.9	366.2	354.2	385.5	325.2	210.4	98.5	44.6	69.1	114.6	238.4	267.7	385.5	385.5
min	5.3	4.5	3.0	1.4	0.0	0.0	0.0	0.0	0.0	1.3	2.4	4.1	0.0	1.3
<b>Initial Spread Index, ISI</b>														
mean	5.4	3.7	3.7	3.0	3.2	2.7	3.2	3.3	5.3	4.9	5.1	4.5	4.0	4.3
median	1.6	1.4	1.3	1.3	1.4	1.2	1.5	1.4	2.0	1.5	1.8	1.4	1.4	1.4
max	64.4	43.4	46.1	62.6	46.8	35.4	38.1	47.2	60.0	87.8	69.2	55.7	87.8	87.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	18.4	16.5	13.4	10.3	6.8	4.8	4.2	5.1	8.0	8.0	13.8	14.4	10.2	13.5
median	15.0	15.1	11.7	8.0	4.9	3.4	3.2	4.0	6.4	6.2	10.2	11.5	7.3	10.6
max	64.4	57.6	43.6	57.7	28.3	29.2	19.0	20.3	38.3	44.0	74.4	59.5	74.4	74.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	7.1	5.1	4.5	3.4	2.8	2.0	2.3	2.6	4.9	4.4	5.9	5.7	4.2	5.2
median	1.9	1.1	0.9	0.7	0.6	0.4	0.6	0.6	1.0	0.7	1.4	0.9	0.8	0.9
max	67.8	53.2	53.7	43.4	33.9	27.3	26.4	30.9	46.4	63.2	66.9	65.7	67.8	67.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.3	1.2	1.0	0.7	0.5	0.3	0.3	0.4	1.1	1.1	1.6	1.7	1.0	1.4
median	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
max	47.4	30.8	31.4	21.6	13.9	9.5	9.0	11.8	24.2	41.9	46.3	44.8	47.4	47.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	71.9	34.5	31.8	19.7	14.5	9.4	10.4	12.7	32.5	34.1	50.3	51.5	31.1	42.0
max	326.5	70.6	79.7	112.1	61.9	34.6	28.9	38.6	135.7	212.0	164.7	199.1	326.5	326.5
min	3.9	1.7	3.3	1.3	0.1	0.4	0.2	1.1	1.9	2.4	3.5	2.0	0.1	1.3
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													373.2	292.6
max													801.2	729.9
min													125.4	104.7

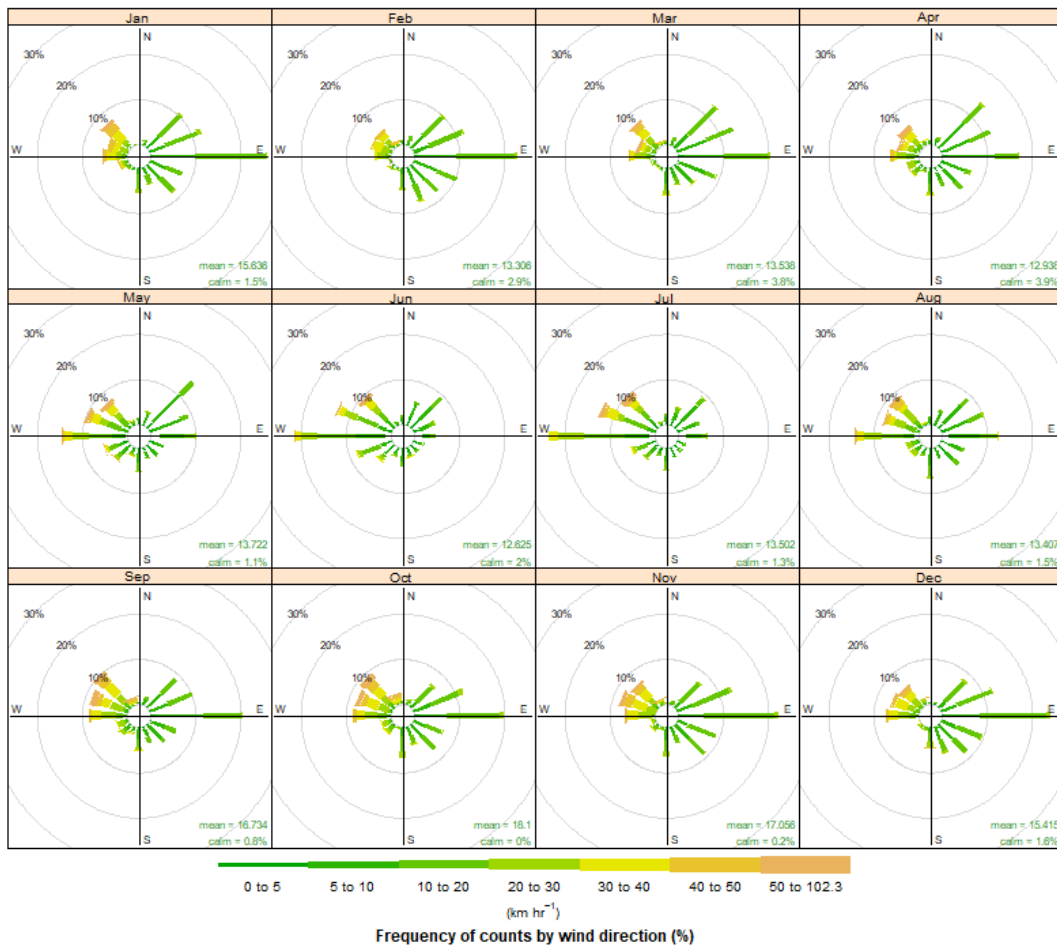
Station Name: Mount Somers Raws (MTS)      Period: 1998-06-16 - 2021-07-02      Length of record: 23 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	19.4	19.7	23.0	24.5	27.4	27.9	29.4	28.4	23.9	24.7	20.9	22.0	291.2	154.4
max	30	29	29	30	31	30	31	31	30	31	29	31	336	186
min	9	12	13	8	12	19	25	16	5	6	4	14	227	116
<b>Moderate</b>														
mean	8.4	6.6	6.6	4.8	3.5	2.0	1.6	2.5	5.5	5.8	7.3	6.6	61.2	46.0
max	18	13	15	16	18	8	6	14	17	18	20	10	105	72
min	1	0	1	0	0	0	0	0	0	0	1	0	28	25
<b>High</b>														
mean	1.7	1.5	1.2	0.4	0.2	0.1	0.0	0.0	0.5	0.4	1.1	1.5	8.6	7.7
max	6	4	5	2	1	3	0	1	5	3	5	5	19	18
min	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Very High</b>														
mean	0.8	0.2	0.1	0.3	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.2	2.2	2.3
max	3	1	1	4	0	0	0	0	2	3	4	1	8	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	2.0	1.8
max	7	2	1	1	0	0	0	0	1	1	3	6	8	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1
max	1	0	0	0	0	0	0	0	0	0	2	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Canterbury (Foothills (S of Rakaia))														
Curing%	60	80	80	55	40	15	15	15	25	25	40	50		
<b>Low</b>														
mean	9.9	7.8	9.2	10.9	10.6	15.2	14.6	14.7	10.4	11.7	9.0	10.5	134.6	69.2
max	20	16	20	19	20	22	23	24	17	20	20	18	172	105
min	3	4	2	3	0	7	7	5	4	1	0	4	103	44
<b>Moderate</b>														
mean	16.2	13.5	14.2	16.1	17.3	13.9	15.3	15.3	15.4	15.6	15.7	15.3	183.9	106.8
max	23	19	20	25	24	21	23	24	23	22	22	21	222	126
min	8	8	8	11	10	8	7	7	9	8	9	10	157	83
<b>High</b>														
mean	2.9	4.1	4.6	2.0	2.6	1.0	1.0	1.0	4.0	3.1	3.7	3.0	33.0	23.3
max	5	10	11	7	8	4	3	4	10	8	9	6	45	36
min	1	0	1	0	0	0	0	0	0	0	1	0	18	14
<b>Very High</b>														
mean	1.8	1.4	1.2	0.8	0.5	0.0	0.0	0.0	0.2	0.5	1.4	1.8	9.5	8.8
max	8	3	4	5	2	0	0	0	2	5	4	6	19	18
min	0	0	0	0	0	0	0	0	0	0	0	0	3	3
<b>Extreme</b>														
mean	0.2	1.5	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	4.0	3.9
max	2	5	6	1	0	0	0	0	0	0	1	3	12	11
min	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Very Extreme</b>														
mean	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	0	1	2	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	10.0	9.1	11.0	11.3	10.5	10.4	9.8	10.2	8.8	10.5	9.5	11.5	122.6	73.0
max	19	19	21	19	20	18	18	20	14	17	19	21	151	102
min	3	5	2	4	0	2	3	5	2	1	1	4	95	48
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
max	0	1	0	1	1	1	0	1	0	0	0	0	2	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	3.8	4.0	4.2	3.7	4.3	4.7	5.0	4.3	3.5	3.8	3.1	3.3	47.6	26.0
max	8	8	8	8	10	9	10	8	10	7	7	9	60	39
min	0	0	1	0	0	0	3	0	0	0	1	0	29	18
<b>Very High</b>														
mean	3.0	3.6	4.1	4.1	4.0	4.2	3.1	3.5	3.2	3.1	3.3	3.3	42.5	24.4
max	7	7	7	9	6	11	7	9	8	6	7	6	56	31
min	1	1	1	1	1	1	0	0	0	1	0	1	33	16
<b>Extreme</b>														
mean	4.4	4.8	4.5	5.4	5.6	5.9	7.0	6.3	5.5	5.3	5.6	4.9	65.0	34.8
max	9	8	10	13	10	14	14	13	12	12	16	11	86	53
min	1	1	0	1	0	2	2	2	1	0	0	1	50	20
<b>Very Extreme</b>														
mean	9.8	6.8	7.2	5.4	6.5	4.9	6.2	6.7	9.0	8.3	8.5	8.1	87.3	53.9
max	18	13	15	19	21	10	15	15	18	16	17	14	121	81
min	2	1	2	1	0	1	0	2	3	3	2	1	57	34

Windroses for Mount Somers Raws (MTS)



MTS station from 1998-06-16 to 2021-07-02



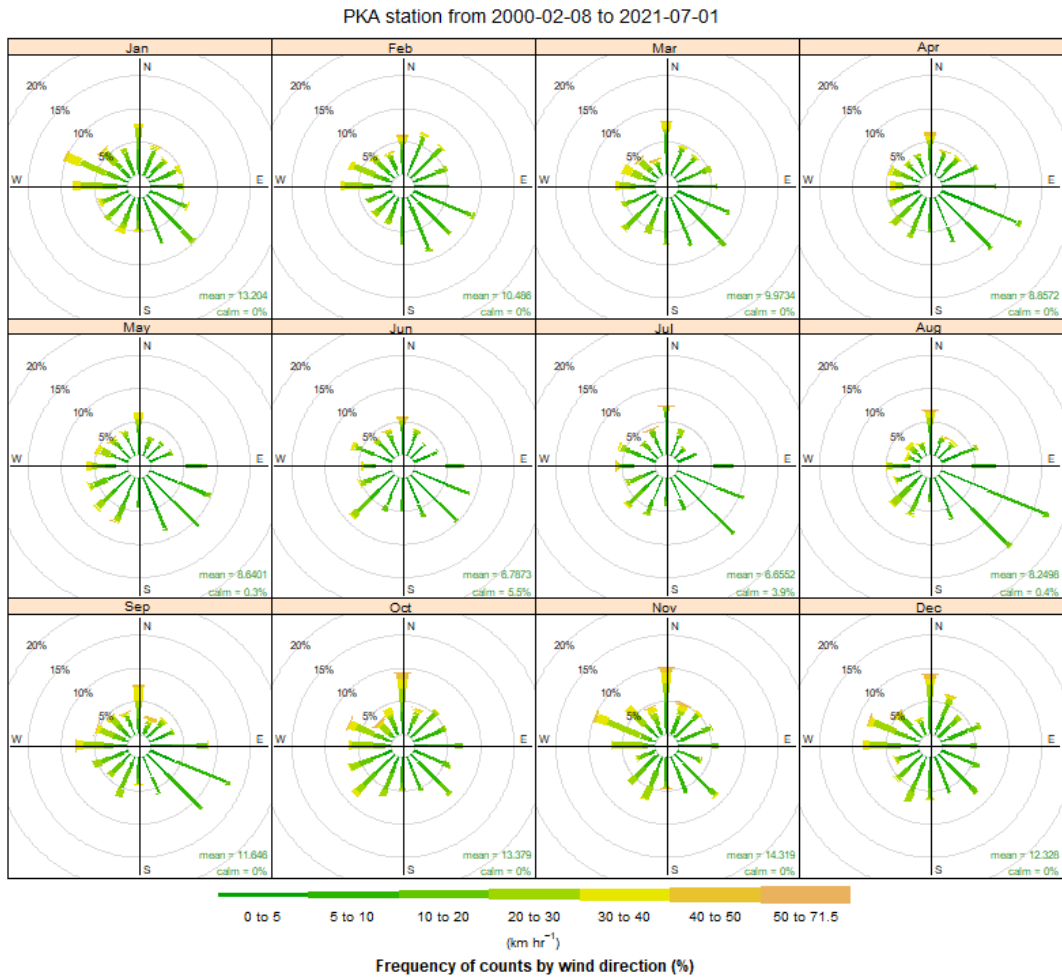
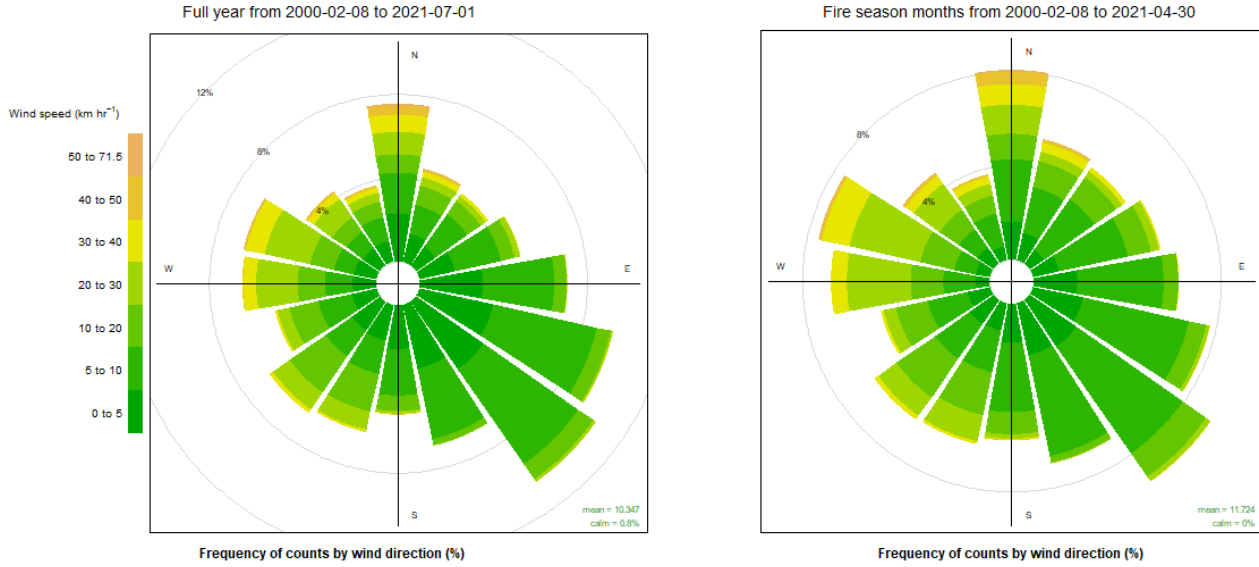
Station Name: Pukaki Aero Raws (PKA)      Period: 2000-02-08 - 2021-07-01      Length of record: 21 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	20.6	20.1	17.4	13.3	8.8	4.7	4.2	7.1	11.2	14.0	16.8	19.0	13.0	17.3
median	20.6	20.1	17.4	13.2	8.4	4.5	3.9	7.0	11.2	14.1	16.9	19.2	13.3	17.2
max	31.9	31.1	28.0	24.9	23.4	17.5	16.1	17.9	21.6	24.6	27.1	28.3	31.9	31.9
min	9.9	7.6	3.3	3.4	-2.4	-9.8	-6.4	-0.2	0.6	2.9	1.6	6.1	-9.8	1.6
<b>Relative Humidity, %</b>														
mean	45.4	48.3	54.2	61.9	72.7	79.9	78.5	71.6	56.6	49.7	45.8	47.0	59.5	50.4
median	43.0	47.0	53.0	61.0	73.8	84.0	80.0	72.0	55.0	47.0	43.0	45.0	57.0	48.0
max	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.1	100.0	100.0
min	10	11	12	16	15	27	29	23	15	17	11	15	10	10
<b>Wind Speed, km/h</b>														
mean	13.3	10.7	10.0	8.7	8.7	7.0	6.8	8.5	12.1	13.4	14.7	13.0	10.6	12.0
median	9.2	7.2	6.4	5.4	5.2	4.6	4.3	5.4	7.6	9.4	10.1	8.6	6.8	7.9
max	47.3	44.6	49.0	45.1	49.0	48.7	58.8	57.5	71.5	64.4	53.5	60.8	71.5	64.4
min	1.6	1.6	1.8	0.9	0.0	0.0	0.0	0.0	0.6	1.4	2.2	1.2	0.0	0.9
<b>24-hr Rainfall, millimetres</b>														
mean	1.6	1.5	1.1	1.4	1.6	1.9	1.3	1.0	1.2	1.4	1.6	1.8	1.4	1.5
median	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
max	38.6	65.2	32.0	35.8	42.4	69.0	49.2	29.6	46.2	48.8	65.6	66.6	69.0	66.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	48.4	43.4	35.2	40.3	48.2	55.5	38.3	30.7	32.6	43.4	49.2	55.0	43.4	45.0
max	124.2	183.2	74.2	93.4	102.8	150.8	128.0	66.2	83.2	98.8	119.2	122.8	183.2	183.2
min	4.8	2.2	5.0	2.2	19.6	9.6	9.0	3.8	4.6	7.6	2.1	11.4	2.1	2.1
<b>Seasonal Rainfall, millimetres</b>														
mean													520.4	312.9
max													772.3	572.6
min													337.0	189.7
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	82.5	82.2	80.0	74.3	64.4	56.5	62.8	67.4	76.2	77.4	81.1	80.4	73.7	79.7
median	88.5	87.8	85.9	83.0	73.1	62.4	70.9	74.6	82.6	84.3	87.5	87.1	81.6	86.4
max	96.4	96.6	95.5	93.4	92.0	90.2	87.8	90.5	93.9	93.9	95.8	95.4	96.6	96.6
min	7.3	14.1	10.9	3.0	3.7	2.3	3.6	2.8	14.6	16.4	5.6	13.1	2.3	3.0
<b>Duff Moisture Code, DMC</b>														
mean	38.4	43.9	40.4	26.1	8.6	3.1	1.8	3.7	11.9	19.7	31.2	33.8	21.8	33.3
median	33.1	42.8	35.5	24.0	5.9	1.7	1.3	2.7	9.7	16.8	26.1	30.5	14.2	28.4
max	158.7	113.9	122.0	80.5	58.1	22.5	12.4	17.8	45.2	69.8	104.2	108.7	158.7	158.7
min	1.7	2.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.4	1.5	0.0	0.0
<b>Drought Code, DC</b>														
mean	351.5	422.0	460.3	458.1	365.2	264.9	174.0	141.0	142.8	167.8	223.2	289.8	289.5	339.9
median	335.0	418.6	453.5	454.5	372.6	263.3	166.7	121.8	131.2	168.8	209.8	271.1	273.8	339.3
max	656.4	718.1	738.0	739.6	731.6	519.8	371.7	382.8	400.9	441.6	420.6	521.2	739.6	739.6
min	134.6	45.5	46.9	34.5	8.2	0.1	0.7	0.0	0.7	1.6	15.3	74.0	0.0	1.6
<b>Initial Spread Index, ISI</b>														
mean	7.9	6.4	5.0	3.2	1.9	1.1	1.1	1.7	3.9	5.3	7.5	6.5	4.3	5.9
median	5.5	4.7	3.4	2.2	1.0	0.7	0.8	1.1	2.6	3.4	4.9	4.4	2.1	3.9
max	59.2	46.4	52.8	38.7	28.5	24.6	15.8	29.7	54.2	58.2	51.9	57.1	59.2	59.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	58.2	67.8	64.1	44.2	15.7	5.9	3.2	6.2	18.1	28.2	43.7	50.7	33.7	51.0
median	53.1	68.3	59.7	42.1	11.1	3.4	2.4	4.8	14.7	25.8	38.9	46.5	24.1	45.0
max	196.9	144.9	163.8	123.7	96.9	40.2	22.3	29.9	64.8	78.5	118.1	137.0	196.9	196.9
min	3.2	4.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.1	2.8	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	18.5	17.1	13.7	7.9	2.6	1.0	0.6	1.4	5.6	9.0	15.2	14.8	8.9	13.7
median	15.6	14.7	10.7	5.4	0.6	0.2	0.3	0.5	3.1	6.0	11.8	11.5	3.7	10.2
max	104.5	92.0	103.1	64.2	37.9	28.5	15.0	35.3	46.0	69.9	90.6	67.4	104.5	104.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	7.0	5.9	4.4	2.0	0.4	0.1	0.0	0.2	1.2	2.4	5.3	5.0	2.8	4.6
median	3.5	3.2	1.8	0.5	0.0	0.0	0.0	0.0	0.2	0.6	2.2	2.1	0.3	1.7
max	101.9	81.4	99.6	43.1	16.9	10.2	3.3	14.9	23.8	50.1	79.2	46.9	101.9	101.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	224.3	167.5	137.2	59.0	14.2	3.9	1.4	5.5	35.5	75.7	160.5	147.5	86.0	138.8
max	595.1	292.7	463.2	172.2	83.7	22.0	8.5	29.0	127.6	321.7	562.5	331.1	595.1	595.1
min	20.7	36.9	31.0	4.2	0.1	0.0	0.0	0.0	7.3	11.6	27.6	39.9	0.0	4.2
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1032.2	968.6
max													1804.9	1917.0
min													392.1	374.8

Station Name: Pukaki Aero Raws (PKA)      Period: 2000-02-08 - 2021-07-01      Length of record: 21 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	6.1	5.4	8.6	12.9	26.4	28.8	30.8	29.6	18.5	13.8	7.2	8.6	196.6	62.0
max	21	16	21	24	31	30	31	31	28	26	19	19	235	91
min	0	0	0	2	9	20	28	21	0	2	0	2	154	35
<b>Moderate</b>														
mean	9.1	9.8	11.9	12.8	3.9	1.0	0.2	1.3	9.4	11.9	11.8	11.2	94.2	79.2
max	17	20	17	22	17	8	3	10	21	24	24	19	148	101
min	3	2	2	4	0	0	0	0	2	5	3	4	68	50
<b>High</b>														
mean	7.0	6.6	6.2	3.0	0.4	0.1	0.0	0.1	1.4	3.5	5.9	5.3	39.5	37.4
max	19	14	13	10	3	2	0	3	7	8	11	11	60	53
min	0	2	1	0	0	0	0	0	0	0	1	1	22	17
<b>Very High</b>														
mean	3.4	3.3	1.9	0.4	0.2	0.0	0.0	0.0	0.7	1.0	2.1	2.8	15.8	14.6
max	8	9	6	2	2	0	0	0	6	3	6	9	30	27
min	0	0	0	0	0	0	0	0	0	0	0	0	3	2
<b>Extreme</b>														
mean	3.8	1.9	1.7	0.7	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.5	13.2	13.1
max	9	9	9	3	1	0	0	0	0	7	10	8	27	37
min	0	0	0	0	0	0	0	0	0	0	0	0	2	3
<b>Very Extreme</b>														
mean	1.7	1.3	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.8	5.9	5.9
max	9	4	7	2	0	0	0	0	0	1	5	3	19	21
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Canterbury (Hill & high Country)														
Curing%	80	80	70	60	60	50	60	60	70	70	70	80		
<b>Low</b>														
mean	2.2	2.1	3.4	6.0	11.8	14.1	13.1	9.8	3.5	3.6	2.4	2.8	74.7	22.1
max	7	7	8	19	22	28	26	24	8	8	6	7	93	34
min	0	0	0	0	3	3	5	0	0	0	0	0	51	9
<b>Moderate</b>														
mean	8.8	10.4	18.4	21.8	17.9	15.1	17.6	20.3	20.6	17.5	14.0	11.6	193.9	102.8
max	19	17	22	28	26	26	26	29	26	25	21	21	229	131
min	0	2	8	11	8	1	5	7	14	10	4	4	152	70
<b>High</b>														
mean	11.8	11.6	6.8	2.0	1.0	0.8	0.3	0.9	4.2	7.0	8.8	10.9	66.2	59.0
max	23	20	14	5	4	2	2	3	9	14	17	19	89	79
min	3	4	2	0	0	0	0	0	0	3	4	4	52	38
<b>Very High</b>														
mean	4.8	2.0	1.6	0.2	0.2	0.0	0.0	0.0	1.4	2.0	3.2	3.4	19.2	17.1
max	9	7	6	2	3	1	0	1	5	6	10	9	30	31
min	0	0	0	0	0	0	0	0	0	0	0	0	10	9
<b>Extreme</b>														
mean	3.1	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.6	2.2	10.8	10.7
max	6	4	3	0	0	0	0	0	1	4	6	6	19	20
min	0	0	0	0	0	0	0	0	0	0	0	0	2	0
<b>Very Extreme</b>														
mean	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.6
max	2	1	0	0	0	0	0	0	0	0	0	1	2	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.1	2.8	3.8	5.3	10.9	13.7	10.6	7.8	4.2	4.7	3.2	3.7	73.6	26.1
max	10	7	9	16	22	28	23	21	11	9	7	10	99	36
min	0	0	0	0	3	3	3	0	0	0	0	0	53	14
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.9	1.6	3.0	4.0	7.6	8.9	12.0	10.0	4.3	4.2	1.9	2.8	62.0	19.0
max	6	4	8	8	17	18	22	18	10	8	6	7	80	35
min	0	0	0	1	2	0	2	1	0	0	0	0	40	12
<b>Very High</b>														
mean	1.5	1.9	3.1	5.2	5.2	3.8	5.1	6.4	4.2	3.0	2.1	2.6	44.2	19.2
max	5	5	7	10	13	9	14	14	10	6	5	9	64	29
min	0	0	0	0	1	0	0	0	0	1	0	0	30	6
<b>Extreme</b>														
mean	5.0	7.2	9.1	10.2	4.1	2.0	2.4	4.6	9.8	6.5	5.6	6.0	72.6	50.3
max	11	15	16	18	11	6	7	11	19	10	10	11	90	68
min	1	2	5	2	0	0	0	0	3	1	1	2	45	33
<b>Very Extreme</b>														
mean	19.4	14.8	12.1	5.3	3.2	1.7	0.9	2.1	7.5	12.8	17.2	15.8	112.8	97.5
max	29	24	25	14	11	5	4	5	21	25	28	25	147	137
min	4	6	5	0	0	0	0	0	2	6	8	6	84	60

Windroses for Pukaki Aero Raws (PKA)



Station Name: Tekapo Raws (TEK)      Period: 1996-05-24 - 2021-07-01      Length of record: 25 years

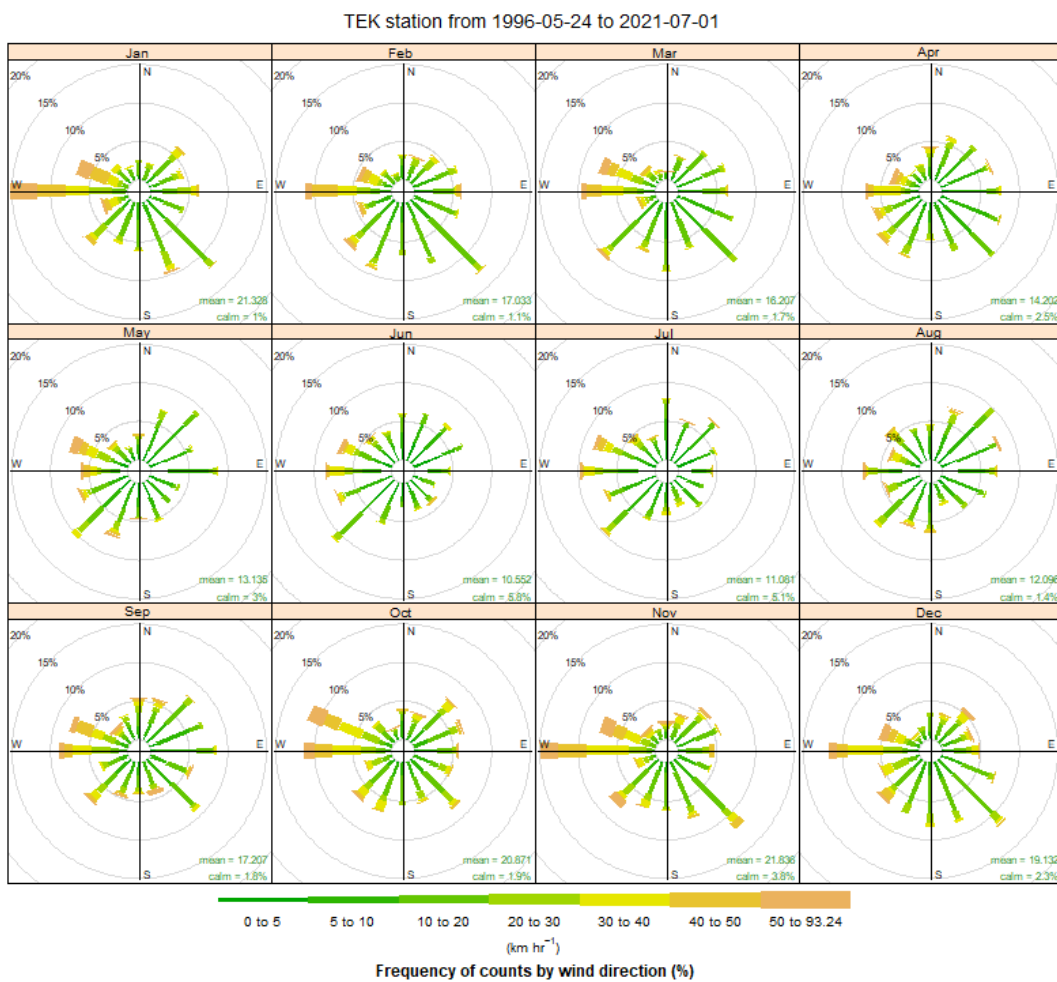
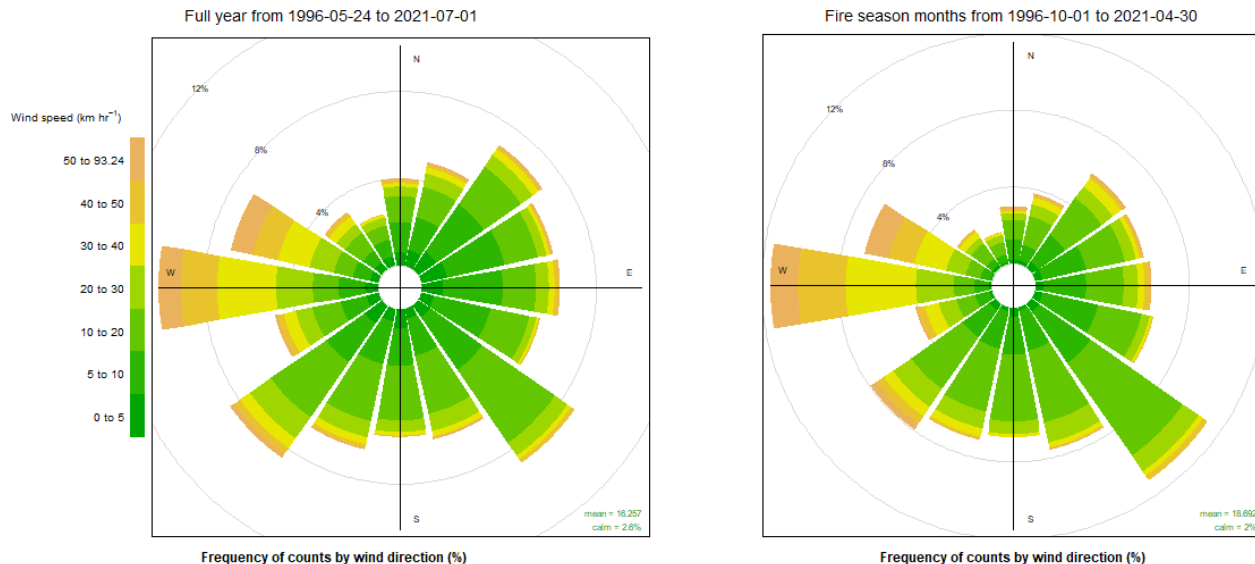
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	18.0	18.1	15.7	12.1	8.8	5.3	4.6	6.5	9.7	11.7	14.0	16.3	11.7	15.1
median	18.1	18.1	15.8	12.1	8.6	5.4	4.6	6.5	9.8	11.8	13.9	16.6	11.6	15.1
max	32.0	32.9	28.5	21.9	24.2	15.7	15.0	20.6	19.6	23.6	27.1	30.4	32.9	32.9
min	5.0	5.2	2.2	0.4	-1.7	-5.6	-5.7	-4.0	-1.6	-0.2	0.6	1.2	-5.7	-0.2
<b>Relative Humidity, %</b>														
mean	49.2	51.3	54.0	57.7	64.0	68.2	67.4	63.1	53.7	51.3	49.5	50.7	56.7	51.9
median	47	51	54	57	65	68	68	62	51	49	47	49	55	50
max	99	100	100	99	100	100	100	100	99	100	100	100	100	100
min	6	10	13	16	14	15	22	12	11	9	11	11	6	6
<b>Wind Speed, km/h</b>														
mean	20.2	16.6	15.4	13.6	13.0	11.3	11.0	12.3	16.9	20.1	21.0	18.9	15.8	18.0
median	15.2	12.2	10.9	9.2	8.0	7.3	7.0	8.4	12.2	15.1	16.2	14.9	11.4	13.3
max	70.2	62.4	69.1	90.7	72.7	74.7	71.6	60.4	80.9	93.2	80.4	76.0	93.2	93.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	1.5	1.4	1.1	1.8	2.2	1.9	1.6	1.3	1.5	1.7	1.7	1.6	1.6	1.6
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	48.4	59.4	32.4	39.0	105.2	53.8	42.1	27.1	43.0	38.2	74.8	72.2	105.2	74.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	45.5	41.8	36.0	54.6	62.2	56.7	50.9	39.9	46.3	53.7	52.4	49.2	49.1	47.6
max	113.4	190.0	67.4	123.3	208.2	123.0	139.4	89.0	104.2	120.8	146.6	168.8	208.2	190.0
min	2.0	5.0	5.0	5.2	5.2	14.2	7.6	5.2	11.7	15.0	8.8	13.4	2.0	2.0
<b>Seasonal Rainfall, millimetres</b>														
mean													589.2	330.7
max													875.8	503.0
min													373.5	179.4
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	81.5	81.5	79.8	74.4	68.6	63.2	67.7	69.2	75.3	75.6	78.5	79.8	74.5	78.7
median	87.2	86.8	85.5	83.0	77.9	71.8	76.5	76.9	81.9	83.0	85.3	85.8	82.3	85.4
max	97.6	96.4	95.3	93.3	93.4	90.7	89.6	93.2	95.2	95.7	95.1	95.2	97.6	97.6
min	6.8	13.4	12.1	3.8	5.3	4.2	4.2	8.3	12.5	12.4	5.5	13.5	3.8	3.8
<b>Duff Moisture Code, DMC</b>														
mean	34.6	39.7	32.2	20.2	8.7	3.8	2.6	4.5	10.0	14.8	21.6	28.7	18.3	27.3
median	29.8	37.9	27.1	17.8	6.3	2.4	2.0	3.1	8.9	13.5	17.9	24.7	12.1	22.5
max	107.7	117.3	109.2	73.5	44.6	27.4	11.4	19.7	31.6	48.8	81.1	103.3	117.3	117.3
min	0.4	3.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.0	0.0
<b>Drought Code, DC</b>														
mean	306.2	390.6	422.5	403.1	289.1	183.5	114.5	85.5	78.3	88.9	134.0	220.0	225.3	279.4
median	288.9	386.1	422.5	433.2	282.7	164.9	101.2	44.0	35.8	54.5	115.6	220.9	207.3	280.3
max	628.1	754.9	685.7	694.9	681.7	501.2	449.2	452.1	441.2	425.6	367.9	500.4	754.9	754.9
min	64.2	50.8	86.6	19.4	0.2	0.0	0.0	0.0	0.0	1.0	2.5	4.4	0.0	1.0
<b>Initial Spread Index, ISI</b>														
mean	11.2	8.7	7.1	4.8	3.3	2.1	2.2	2.7	5.4	7.5	10.0	8.5	6.1	8.3
median	6.2	5.0	3.9	2.7	1.5	1.0	1.2	1.5	2.7	3.8	4.8	4.8	2.8	4.4
max	130.7	94.3	73.4	62.3	57.8	48.9	35.7	43.0	73.5	83.2	87.9	64.4	130.7	130.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	51.6	61.2	51.9	34.9	15.7	6.7	4.2	6.7	12.9	18.8	28.3	41.2	27.6	40.9
median	46.9	60.3	46.7	31.9	11.4	3.9	2.8	3.8	10.9	16.2	24.0	37.4	18.5	34.9
max	137.1	146.2	143.0	108.5	71.6	46.6	21.0	29.6	49.0	70.0	84.8	115.7	146.2	146.2
min	0.8	6.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.8	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	21.2	19.2	15.2	9.1	4.3	1.7	1.4	2.4	5.8	8.9	14.3	15.7	9.9	14.8
median	16.6	14.9	11.0	5.9	1.4	0.4	0.5	0.7	3.3	5.2	8.9	11.0	4.2	9.9
max	138.9	128.8	98.5	88.1	46.3	40.7	34.0	40.0	52.0	75.5	103.1	80.4	138.9	138.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	9.7	8.2	5.8	2.7	0.9	0.3	0.2	0.4	1.3	2.5	5.6	5.8	3.6	5.7
median	3.9	3.2	1.9	0.6	0.1	0.0	0.0	0.0	0.2	0.5	1.3	1.9	0.3	1.6
max	168.7	147.6	91.8	75.4	24.1	19.2	14.0	18.6	29.7	57.3	99.6	64.1	168.7	168.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	305.5	233.6	176.2	74.4	27.6	9.0	5.9	11.5	37.9	79.1	172.0	176.6	109.1	173.9
max	738.7	556.5	644.8	210.2	123.4	64.4	45.7	43.8	101.3	326.7	644.2	392.2	738.7	738.7
min	29.7	11.3	39.1	8.8	0.3	0.1	0.0	0.1	4.3	9.1	4.3	24.4	0.0	4.3
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1309.4	1218.2
max													2281.0	2432.9
min													352.8	214.4

Station Name: Tekapo Raws (TEK)      Period: 1996-05-24 - 2021-07-01      Length of record: 25 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	6.4	5.3	7.9	14.2	22.9	28.0	30.0	27.7	20.2	15.9	10.8	8.2	197.3	68.2
max	28	17	19	28	31	30	31	31	29	30	29	21	252	130
min	0	0	0	4	5	20	22	16	7	5	0	0	139	35
<b>Moderate</b>														
mean	7.9	9.8	13.3	11.4	6.8	1.8	1.0	3.2	8.6	11.7	11.5	11.1	98.1	77.1
max	15	20	27	21	21	7	8	15	19	19	23	23	143	106
min	1	3	4	2	0	0	0	0	1	1	1	5	68	55
<b>High</b>														
mean	7.0	6.5	5.3	2.5	1.0	0.2	0.0	0.2	1.1	2.5	4.1	5.8	36.1	33.7
max	15	14	14	9	6	3	1	2	6	8	9	12	55	55
min	0	0	2	0	0	0	0	0	0	0	0	0	16	10
<b>Very High</b>														
mean	3.6	2.5	1.7	0.8	0.2	0.0	0.0	0.0	0.0	0.8	1.2	2.5	13.2	12.9
max	8	6	7	3	1	0	0	0	1	8	6	7	31	28
min	0	0	0	0	0	0	0	0	0	0	0	0	3	2
<b>Extreme</b>														
mean	4.0	2.1	1.3	0.9	0.1	0.0	0.0	0.0	0.0	0.1	1.8	2.6	12.9	12.8
max	13	6	8	3	1	0	0	0	0	2	9	8	24	23
min	0	0	0	0	0	0	0	0	0	0	0	0	2	0
<b>Very Extreme</b>														
mean	2.0	2.1	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.9	7.6	7.6
max	7	7	9	3	0	0	0	0	0	1	8	4	19	25
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Canterbury (Hill & high Country)														
Curing%	80	80	70	60	60	50	60	60	70	70	70	80		
<b>Low</b>														
mean	2.1	1.9	3.1	5.6	9.0	10.2	8.7	8.6	3.4	3.5	2.9	2.1	61.1	21.2
max	9	7	7	13	16	19	22	20	11	8	8	6	83	37
min	0	0	0	0	1	3	1	3	0	0	0	0	34	12
<b>Moderate</b>														
mean	7.6	9.3	16.4	20.9	19.3	18.2	20.8	20.5	18.0	15.6	13.3	11.0	190.9	94.0
max	19	25	27	27	27	25	28	28	25	22	25	21	244	140
min	1	2	5	15	13	11	9	11	12	6	2	4	145	62
<b>High</b>														
mean	11.5	11.4	7.7	2.5	2.2	1.1	1.2	1.6	6.2	7.6	7.7	10.6	71.3	59.1
max	18	19	17	7	6	4	5	6	12	15	14	17	105	81
min	1	2	2	0	0	0	0	0	1	1	0	5	51	27
<b>Very High</b>														
mean	3.8	2.2	1.5	1.0	0.5	0.4	0.3	0.3	1.2	2.0	1.9	3.2	18.1	15.6
max	7	6	6	3	5	2	3	2	3	5	5	8	28	26
min	0	0	0	0	0	0	0	0	0	0	0	0	6	4
<b>Extreme</b>														
mean	4.4	2.4	2.3	0.0	0.0	0.1	0.0	0.0	1.2	2.4	4.2	3.2	20.4	19.1
max	11	7	8	1	1	1	0	0	5	9	12	7	37	32
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<b>Very Extreme</b>														
mean	1.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.5	3.4
max	5	5	0	0	0	0	0	0	0	0	0	3	9	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.1	2.5	3.6	5.7	8.1	10.6	8.1	8.1	4.7	5.3	3.7	3.3	66.8	27.2
max	13	7	7	12	16	20	20	18	14	14	10	9	90	48
min	0	0	0	0	1	1	1	2	0	0	0	0	45	17
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	1	1	0	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.8	1.8	2.3	3.6	5.6	6.8	7.5	5.6	2.8	2.5	1.7	1.8	43.8	15.6
max	9	7	5	8	12	15	17	10	6	7	9	4	64	42
min	0	0	0	1	1	2	1	2	0	0	0	0	28	7
<b>Very High</b>														
mean	1.5	1.5	2.4	3.5	4.5	4.5	5.9	4.8	4.3	2.7	2.6	2.8	41.0	16.7
max	5	6	7	12	13	10	13	15	8	7	8	7	77	33
min	0	0	0	0	0	1	0	1	1	0	0	0	21	7
<b>Extreme</b>														
mean	3.9	6.2	8.6	7.5	6.3	5.4	6.6	7.5	7.2	6.5	5.7	5.7	77.1	44.2
max	12	14	21	14	15	12	14	17	14	13	13	12	111	76
min	1	1	2	2	1	0	0	2	2	2	0	0	50	22
<b>Very Extreme</b>														
mean	20.7	16.2	14.0	9.6	6.5	2.7	2.8	5.0	11.1	14.0	16.3	17.4	136.4	108.6
max	30	26	27	18	15	8	10	13	19	23	28	27	189	149
min	3	2	5	2	0	0	0	0	1	7	0	8	82	37



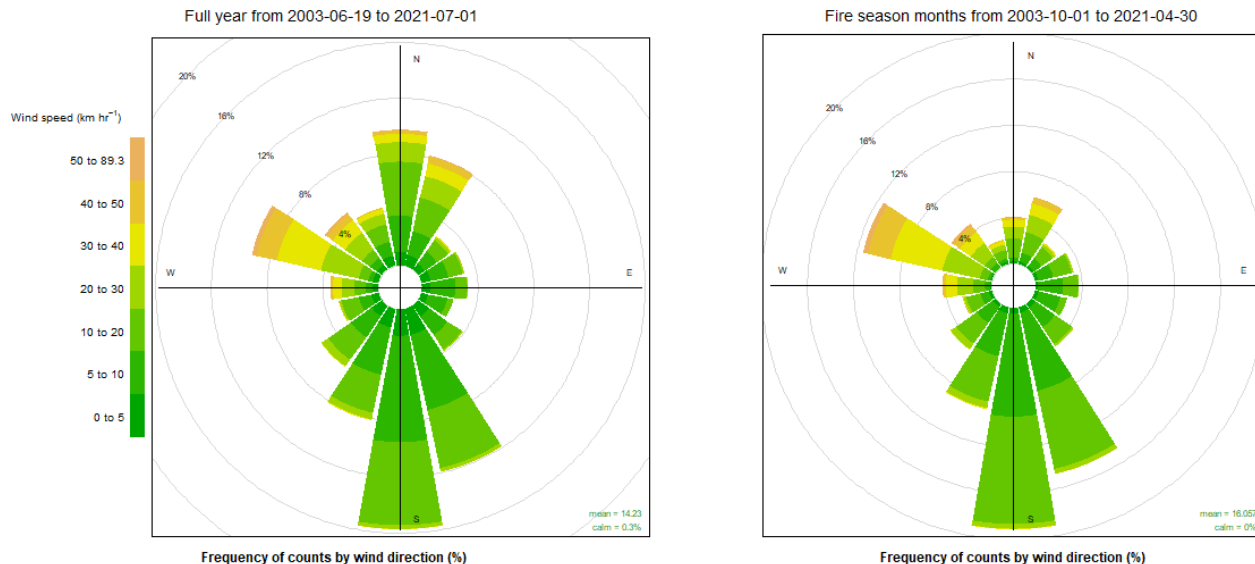
Windroses for Tekapo Raws (TEK)



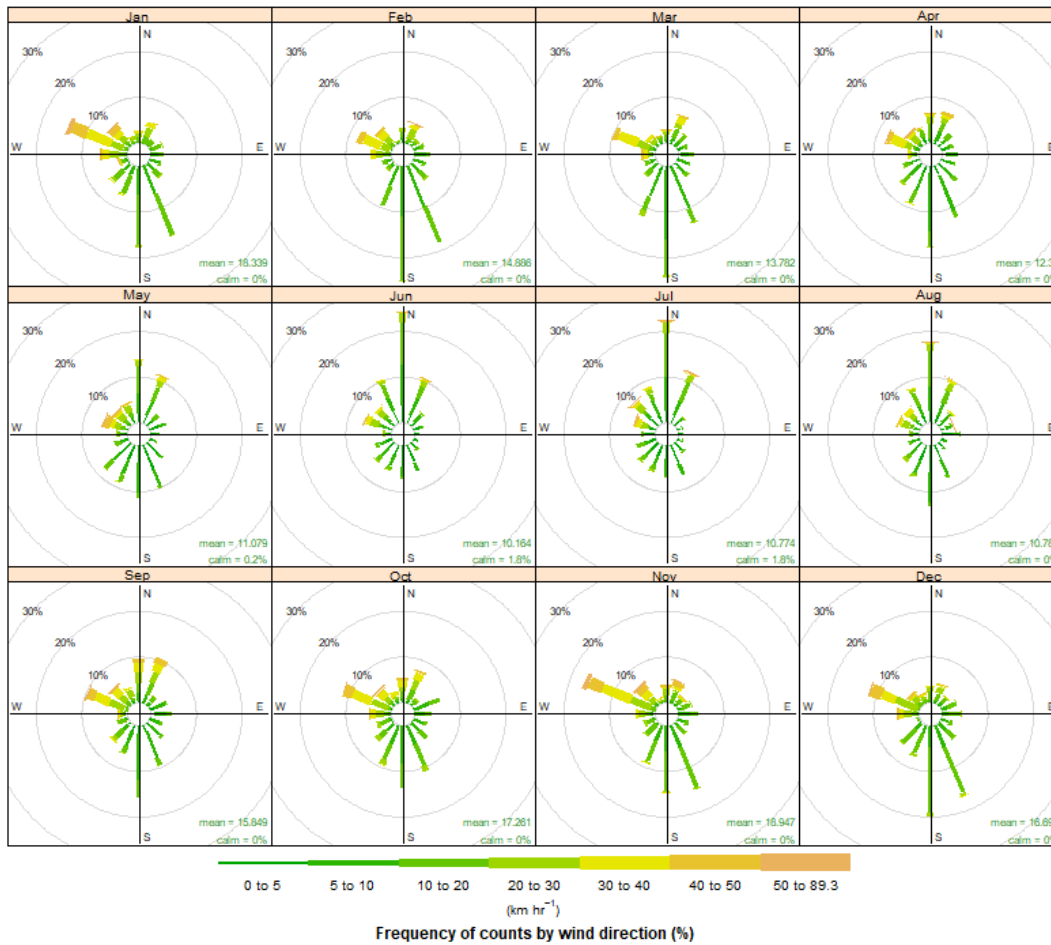
Station Name: Tekapo Ews (Tekapo_Ews)		Period: 2003-06-19 - 2021-07-01												Length of record: 18 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Temperature, degrees Celsius</b>															
mean	19.5	19.1	16.5	12.9	9.0	5.1	4.5	6.7	10.1	12.6	15.5	17.6	12.4	16.2	
median	19.5	19.2	16.6	13.0	8.8	5.0	4.6	6.8	10.1	12.7	15.3	17.8	12.4	16.3	
max	31.0	31.2	28.8	23.8	19.3	17.1	15.0	17.3	20.2	23.4	26.5	26.9	31.2	31.2	
min	5.2	6.0	3.4	0.5	-0.8	-6.8	-7.6	-2.4	0.3	0.1	1.2	3.5	-7.6	0.1	
<b>Relative Humidity, %</b>															
mean	41.2	44.6	48.7	53.8	63.3	69.6	66.7	61.9	50.5	46.0	42.1	43.4	52.7	45.7	
median	38	42	47	52	61	70	65	61	48	43	39	41	50	43	
max	96	99	97	98	100	100	100	99	98	100	95	96	100	100	
min	4	8	7	14	17	20	23	14	11	10	8	11	4	4	
<b>Wind Speed, km/h</b>															
mean	18.3	14.9	13.8	12.4	11.1	10.2	10.8	10.8	15.8	17.3	18.9	16.7	14.2	16.1	
median	13.3	11.2	9.7	8.3	7.2	7.2	7.6	7.6	10.4	12.6	14.0	13.0	10.4	11.9	
max	64.8	61.2	49.3	66.2	67.7	56.5	66.2	63.4	71.6	89.3	65.9	54.0	89.3	89.3	
min	4.0	1.4	2.2	1.8	0.0	0.0	0.0	1.4	2.5	2.5	0.9	2.9	0.0	0.9	
<b>24-hr Rainfall, millimetres</b>															
mean	1.2	1.4	1.0	1.6	2.4	1.7	1.6	1.3	1.3	1.5	1.4	1.4	1.5	1.4	
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	43.8	70.9	29.4	38.9	117.2	55.5	47.8	31.3	24.9	61.1	62.1	65.2	117.2	70.9	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Rainfall, millimetres</b>															
mean	36.8	39.8	31.7	49.6	65.0	52.4	50.5	42.1	35.8	47.9	42.7	44.0	44.9	41.8	
max	101.3	172.8	59.6	98.5	184.2	113.3	161.5	79.6	95.7	123.5	136.2	140.9	184.2	172.8	
min	2.4	4.1	4.6	6.5	8.6	11.6	9.2	6.0	9.4	10.3	5.4	8.6	2.4	2.4	
<b>Seasonal Rainfall, millimetres</b>															
mean													538.4	286.9	
max													750.3	409.4	
min													338.8	182.4	
<b>Fine Fuel Moisture Code, FFMC</b>															
mean	84.9	83.5	81.8	76.6	67.9	64.1	68.7	69.6	77.1	78.9	82.5	82.7	76.5	81.6	
median	89.6	88.4	86.9	84.7	76.2	72.6	77.2	77.3	83.6	85.2	88.1	88.1	84.0	87.4	
max	98.4	97.3	97.2	94.0	92.0	91.7	89.1	93.2	94.4	96.0	96.5	96.4	98.4	98.4	
min	14.0	10.8	16.5	2.7	1.6	6.9	2.7	5.1	14.5	15.1	6.8	9.2	1.6	2.7	
<b>Duff Moisture Code, DMC</b>															
mean	52.3	50.2	43.5	27.0	9.5	3.9	2.6	5.1	12.3	20.7	31.6	44.9	25.2	38.6	
median	42.4	48.6	39.0	23.7	6.6	2.7	2.1	3.6	10.4	19.3	28.0	39.8	16.2	32.8	
max	163.0	140.3	126.8	93.0	55.0	20.2	14.9	21.5	39.3	55.8	102.3	130.0	163.0	163.0	
min	4.9	6.0	3.0	0.2	0.0	0.0	0.0	0.0	0.1	0.5	1.9	1.3	0.0	0.2	
<b>Drought Code, DC</b>															
mean	363.6	447.9	492.1	470.7	335.7	212.2	137.3	91.6	85.6	104.5	166.9	264.5	263.2	328.6	
median	346.2	446.0	506.9	494.5	332.9	225.4	133.0	53.4	55.3	97.1	167.3	261.8	244.4	321.2	
max	643.3	736.3	763.6	725.6	597.6	592.8	421.2	319.9	300.0	269.4	347.4	508.0	763.6	763.6	
min	118.9	104.1	147.9	92.6	0.4	0.1	0.0	0.0	0.1	1.0	2.6	50.3	0.0	1.0	
<b>Initial Spread Index, ISI</b>															
mean	12.8	9.1	7.5	5.0	2.7	1.8	2.2	2.5	5.4	7.6	10.8	9.5	6.4	8.9	
median	7.8	6.2	4.7	3.3	1.4	1.1	1.4	1.5	3.3	4.4	6.5	6.6	3.2	5.5	
max	96.7	69.3	55.7	65.0	39.8	34.1	29.1	49.0	62.0	78.7	104.4	70.3	104.4	104.4	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Buildup Index, BUI</b>															
mean	73.6	76.2	68.4	45.7	17.2	7.1	4.6	7.8	15.7	25.5	41.0	60.8	36.7	55.8	
median	65.4	76.0	65.1	41.6	12.5	4.4	3.4	4.7	13.5	24.7	39.9	57.3	25.1	49.3	
max	195.9	154.2	169.0	132.8	88.2	37.2	26.3	30.9	53.6	65.3	103.3	150.9	195.9	195.9	
min	9.3	10.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0	0.9	1.8	2.5	0.0	0.5	
<b>Fire Weather Index, FWI</b>															
mean	27.6	23.0	18.7	11.2	3.9	1.6	1.5	2.5	6.7	11.1	18.8	21.2	12.2	18.8	
median	23.4	20.0	14.9	8.5	1.0	0.5	0.6	0.6	4.4	7.8	14.8	17.9	5.9	14.4	
max	134.0	119.0	105.0	107.8	40.3	34.4	20.4	42.4	46.3	79.3	101.2	104.3	134.0	134.0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Daily Severity Rating, DSR</b>															
mean	14.1	10.0	7.6	3.5	0.7	0.2	0.2	0.4	1.4	3.3	7.7	9.0	4.8	7.9	
median	7.2	5.4	3.2	1.2	0.0	0.0	0.0	0.0	0.4	1.0	3.2	4.5	0.6	3.0	
max	158.4	128.4	102.8	107.7	18.9	14.3	5.7	20.7	24.1	62.6	96.4	101.7	158.4	158.4	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Severity Rating, MSR</b>															
mean	448.9	282.1	231.6	91.2	20.7	6.7	4.9	11.4	45.2	103.3	231.6	250.4	144.0	234.2	
max	1020.3	492.1	697.3	195.9	92.7	38.5	16.5	48.2	119.6	403.9	606.7	505.8	1020.3	1020.3	
min	165.2	83.5	49.4	21.5	0.2	0.0	0.0	0.1	11.6	36.8	24.4	66.2	0.0	21.5	
<b>Cumulative Daily Severity Rating, CDSR</b>															
mean													1728.0	1672.8	
max													2575.8	2706.4	
min													832.5	761.8	

Station Name: Tekapo Ews (Tekapo_Ews)		Period: 2003-06-19 - 2021-07-01												Length of record: 18 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Forest Fire Danger Class (FFDC) Frequency</b>															
<b>Low</b>															
mean	3.8	3.9	6.8	10.1	22.6	28.2	29.5	26.9	17.4	12.6	6.2	6.1	174.2	48.5	
max	10	12	14	21	31	30	31	31	28	23	22	16	228	71	
min	0	0	0	2	10	21	23	10	3	2	0	0	135	23	
<b>Moderate</b>															
mean	6.6	6.9	9.9	14.0	7.4	1.6	1.5	3.7	10.4	12.5	10.4	8.4	93.2	68.3	
max	17	14	16	24	18	7	8	19	23	18	20	16	160	102	
min	1	2	4	6	0	0	0	0	2	7	2	2	62	53	
<b>High</b>															
mean	5.6	7.3	6.7	3.6	0.8	0.1	0.0	0.4	1.7	4.1	6.7	6.5	43.5	41.2	
max	12	12	12	11	7	2	0	2	6	10	13	11	67	56	
min	3	2	2	0	0	0	0	0	0	1	0	1	17	18	
<b>Very High</b>															
mean	4.6	4.0	2.8	0.8	0.2	0.0	0.0	0.0	0.5	1.3	2.6	4.5	21.4	20.8	
max	11	8	8	6	2	0	0	0	4	5	5	9	32	32	
min	0	0	0	0	0	0	0	0	0	0	0	0	9	5	
<b>Extreme</b>															
mean	5.2	3.6	2.5	1.1	0.0	0.0	0.0	0.0	0.0	0.6	2.6	3.3	18.9	19.3	
max	12	9	7	5	0	0	0	0	0	6	7	10	35	37	
min	1	0	0	0	0	0	0	0	0	0	0	0	8	9	
<b>Very Extreme</b>															
mean	5.0	2.6	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.2	14.1	14.1	
max	15	7	11	3	0	0	0	0	0	0	8	7	24	31	
min	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
<b>Grass Fire Danger Class (GFDC) Frequency</b>															
Curing source Canterbury (Hill & high Country)															
Curing%	80	80	70	60	60	50	60	60	70	70	70	80			
<b>Low</b>															
mean	1.4	1.6	2.6	5.0	9.5	10.0	8.1	8.7	3.1	2.9	1.8	1.9	56.5	16.7	
max	3	6	5	11	19	21	25	19	6	7	6	5	71	24	
min	0	0	0	0	3	1	0	2	0	0	0	0	38	11	
<b>Moderate</b>															
mean	6.2	6.2	14.4	21.1	19.9	18.9	21.8	20.6	18.0	15.0	10.8	8.5	181.4	82.1	
max	14	12	20	26	26	27	28	27	23	20	18	15	204	100	
min	1	1	5	16	12	9	6	12	14	8	0	2	148	61	
<b>High</b>															
mean	11.4	13.8	9.8	3.3	1.4	0.8	0.9	1.5	6.2	8.3	10.7	12.2	80.2	69.6	
max	16	24	18	9	5	2	3	6	11	15	16	18	115	87	
min	5	7	6	0	0	0	0	0	3	2	3	4	64	51	
<b>Very High</b>															
mean	4.5	3.3	2.2	0.6	0.2	0.3	0.2	0.2	1.8	2.6	2.8	4.5	23.2	20.4	
max	9	10	5	2	3	2	2	2	3	5	9	8	32	28	
min	0	0	0	0	0	0	0	0	0	0	0	1	13	13	
<b>Extreme</b>															
mean	5.8	2.5	2.1	0.0	0.0	0.0	0.0	0.0	0.9	2.2	3.9	3.3	20.7	19.9	
max	11	5	6	0	0	0	0	0	4	9	7	7	30	34	
min	3	0	0	0	0	0	0	0	0	0	0	0	9	7	
<b>Very Extreme</b>															
mean	1.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	3.3	3.6	
max	4	2	0	0	0	0	0	0	0	0	1	3	7	8	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Scrub Fire Danger Class (SFDC) Frequency</b>															
<b>Low</b>															
mean	2.0	2.3	3.1	4.8	8.8	10.1	7.6	7.6	3.8	3.8	2.5	2.6	59.1	20.7	
max	5	7	6	10	16	21	25	18	7	8	7	8	71	30	
min	0	0	0	0	4	1	0	1	0	0	0	0	40	14	
<b>Moderate</b>															
mean	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	
max	0	0	0	0	0	1	0	0	0	0	0	0	1	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>High</b>															
mean	0.8	1.4	2.5	3.0	5.8	6.7	7.6	7.3	2.9	2.4	1.4	2.0	43.8	13.0	
max	3	4	4	6	11	19	17	11	8	7	4	5	65	20	
min	0	0	0	1	1	1	2	1	0	0	0	0	30	8	
<b>Very High</b>															
mean	1.9	1.5	1.7	2.5	4.7	6.3	5.9	4.2	2.7	3.2	1.9	2.1	38.6	14.4	
max	5	4	5	9	11	15	12	8	7	7	4	6	53	23	
min	0	0	0	0	0	0	0	1	0	0	0	0	25	9	
<b>Extreme</b>															
mean	3.2	3.1	6.9	8.7	6.1	4.8	6.7	7.5	8.2	5.4	4.5	3.8	68.8	36.0	
max	7	9	12	14	14	12	12	17	16	12	9	8	97	56	
min	0	0	2	5	1	0	0	1	4	1	0	1	46	21	
<b>Very Extreme</b>															
mean	23.1	20.0	16.8	11.1	5.6	2.1	3.1	4.4	12.5	16.3	19.7	20.5	155.0	128.2	
max	30	26	28	18	14	7	9	11	22	22	29	28	192	152	
min	15	13	9	3	0	0	0	0	7	8	8	13	124	101	

Windroses for Tekapo Ews (Tekapo Ews)



Tekapo\_Ews station from 2003-06-19 to 2021-07-01



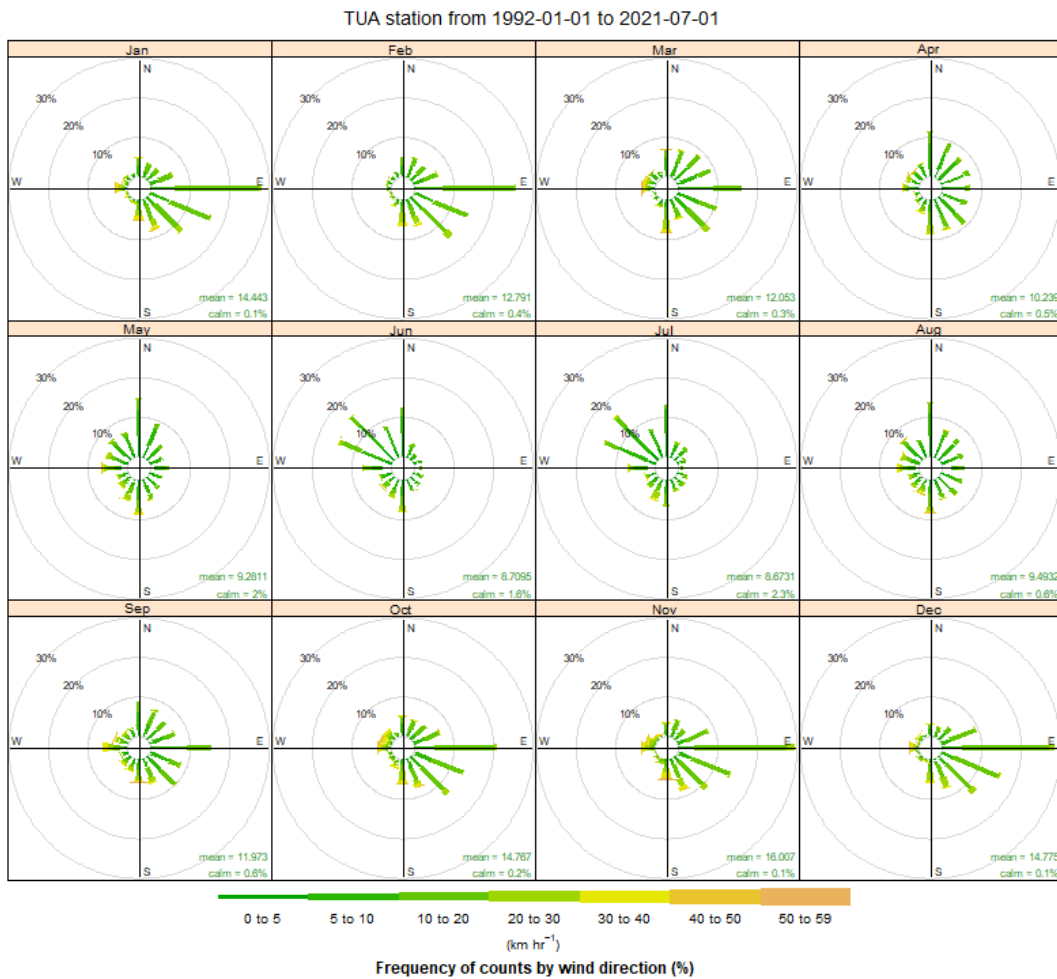
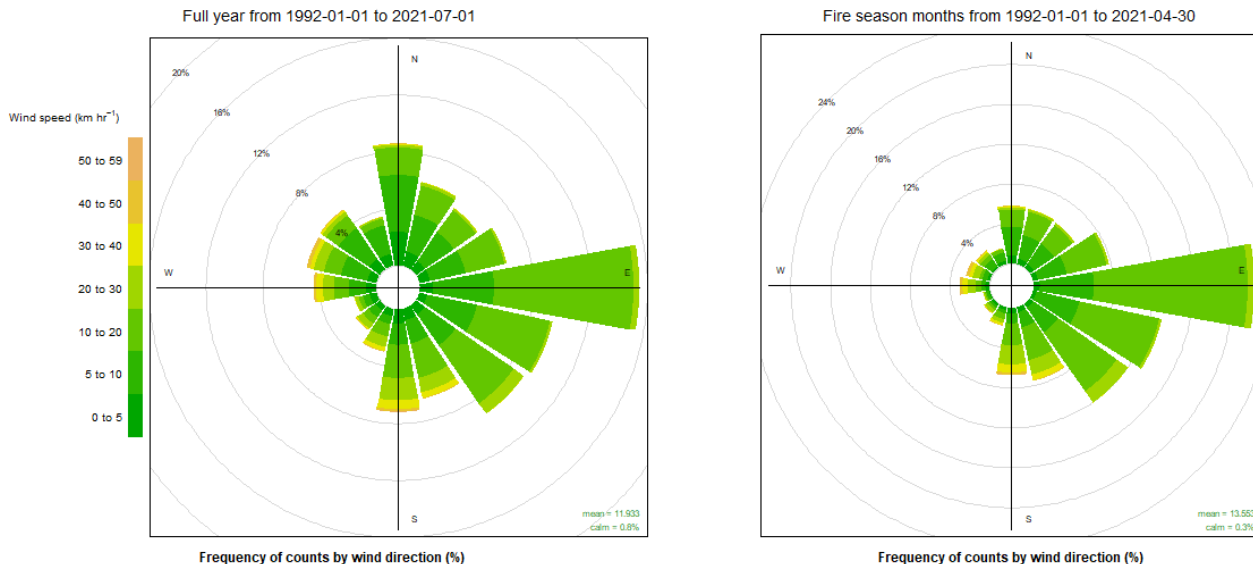
Station Name: Timaru Aero SYNOP (TUA)      Period: 1992-01-01 - 2021-07-01      Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	19.1	18.8	17.6	14.9	12.1	9.2	8.7	10.4	12.7	14.3	16.0	17.8	14.3	16.9
median	18.6	19.0	17.0	14.6	11.9	9.0	8.4	10.0	12.0	14.0	15.2	17.4	14.0	16.5
max	36.8	35.0	34.0	30.1	25.0	20.0	19.5	22.8	24.0	28.0	30.0	33.1	36.8	36.8
min	8.7	8.9	6.0	6.0	4.0	0.6	1.0	1.4	5.0	5.1	3.7	8.0	0.6	3.7
<b>Relative Humidity, %</b>														
mean	63.8	65.1	64.2	66.8	69.6	71.0	69.2	66.4	63.1	64.1	63.6	65.0	66.0	64.6
median	65	66	66	68	71	72	69	67	65	67	66	67	67	66
max	98	99	99	99	100	100	100	100	99	100	99	99	100	100
min	13	17	15	14	22	23	22	18	18	16	17	12	12	12
<b>Wind Speed, km/h</b>														
mean	14.5	12.8	12.0	10.1	9.2	8.6	8.5	9.5	12.1	14.8	16.0	15.0	11.9	13.6
median	13.0	11.1	11.0	7.0	7.0	7.0	7.0	7.0	9.3	13.0	14.8	13.0	11.0	13.0
max	46.0	46.3	56.0	57.0	50.0	48.2	50.0	50.0	56.0	59.0	56.0	59.0	59.0	59.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	1.7	1.8	1.4	1.7	1.7	2.0	1.7	1.6	1.5	1.6	1.8	1.8	1.7	1.7
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	81.0	82.8	88.2	82.1	82.3	83.7	83.4	107.4	84.6	83.4	74.0	69.2	107.4	88.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	50.7	50.7	46.1	53.7	50.6	62.1	53.3	49.6	46.3	48.7	54.9	55.3	51.8	51.4
max	130.0	175.4	138.2	249.6	248.6	369.0	458.5	241.2	206.7	141.2	195.0	142.6	458.5	249.6
min	3.8	5.8	4.4	9.4	2.8	6.4	5.6	4.2	6.0	8.0	8.2	6.6	2.8	3.8
<b>Seasonal Rainfall, millimetres</b>														
mean													621.9	357.4
max													1824.4	682.0
min													349.2	199.0
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	76.4	77.3	77.0	73.7	71.7	69.2	70.7	72.2	74.4	74.5	75.6	75.5	74.0	75.7
median	83.3	83.4	82.8	80.6	80.4	78.8	80.1	80.3	81.4	81.1	82.2	82.0	81.4	82.3
max	96.9	95.5	95.3	95.5	93.0	90.5	91.2	92.2	93.6	94.7	94.3	95.6	96.9	96.9
min	4.7	8.1	5.6	6.4	0.0	2.5	2.3	3.0	7.0	8.3	13.0	17.0	0.0	4.7
<b>Duff Moisture Code, DMC</b>														
mean	23.6	27.3	25.5	21.8	13.9	10.1	8.1	9.7	14.5	15.1	18.0	19.7	17.3	21.6
median	17.7	23.5	21.6	16.8	10.3	8.4	6.7	8.2	13.2	12.9	15.4	16.3	13.5	17.3
max	103.4	105.9	104.4	106.8	50.3	45.5	24.7	31.3	46.4	52.4	63.3	71.4	106.8	106.8
min	0.3	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
<b>Drought Code, DC</b>														
mean	350.3	413.1	422.7	414.5	352.6	282.9	240.7	187.2	182.8	192.4	235.8	291.5	297.8	331.8
median	335.7	392.0	432.1	422.8	347.7	289.1	254.4	196.0	199.2	195.8	232.6	285.9	284.6	314.9
max	773.6	887.6	955.9	798.1	811.7	670.4	617.0	503.1	410.9	447.9	480.8	604.9	955.9	955.9
min	7.1	48.3	36.4	2.3	1.1	0.6	0.4	0.1	1.0	2.4	4.7	22.4	0.1	2.3
<b>Initial Spread Index, ISI</b>														
mean	4.6	3.7	4.2	2.9	2.3	1.9	1.9	2.6	3.6	4.1	4.5	4.4	3.4	4.1
median	3.1	2.9	2.6	2.0	1.7	1.4	1.6	1.7	2.2	2.4	2.8	2.7	2.1	2.6
max	66.3	34.9	83.1	101.3	38.3	24.3	20.4	51.2	40.3	55.5	65.0	90.5	101.3	101.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	38.9	45.1	42.8	36.7	24.4	18.0	14.2	16.0	22.1	23.4	29.1	32.7	28.6	35.5
median	30.4	39.7	37.1	29.8	18.3	15.5	11.9	14.7	21.3	20.7	25.9	28.1	23.4	29.5
max	141.2	157.1	154.1	157.7	82.0	77.8	41.5	49.2	60.4	76.8	91.3	99.4	157.7	157.7
min	0.5	0.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	9.7	9.2	9.1	6.4	4.1	2.9	2.5	3.5	5.7	6.7	8.1	8.5	6.4	8.2
median	6.8	7.5	6.0	4.0	2.5	1.5	1.4	1.7	3.7	4.0	5.8	5.5	3.7	5.5
max	75.8	74.3	95.6	144.1	56.4	35.2	27.2	50.6	49.1	63.0	81.7	108.2	144.1	144.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.7	2.2	2.5	1.7	0.7	0.4	0.3	0.6	1.2	1.6	2.0	2.4	1.5	2.2
median	0.8	1.0	0.6	0.3	0.1	0.1	0.1	0.1	0.3	0.3	0.6	0.6	0.3	0.6
max	57.8	55.7	87.1	180.0	34.3	14.8	9.4	28.2	26.8	41.6	66.0	108.4	180.0	180.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	84.5	63.2	77.6	46.5	19.4	11.6	8.1	17.3	34.9	48.5	61.1	74.9	45.7	65.2
max	306.8	267.0	348.2	508.3	79.2	45.5	32.0	88.2	139.6	170.8	245.1	271.2	508.3	508.3
min	6.1	13.5	9.4	1.8	0.4	0.1	0.1	0.2	0.3	2.0	11.2	4.9	0.1	1.8
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													547.8	447.3
max													1031.3	1212.6
min													151.1	147.2

Station Name: Timaru Aero SYNOP (TUA)      Period: 1992-01-01 - 2021-07-01      Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	11.6	9.6	13.3	16.2	21.5	23.3	25.9	23.5	17.3	17.3	13.7	13.9	207.2	96.4
max	27	19	27	30	31	30	31	31	30	31	25	28	285	153
min	0	2	0	3	4	9	8	12	4	5	2	2	150	56
<b>Moderate</b>														
mean	13.2	13.7	13.1	11.6	8.7	6.4	5.0	7.0	10.8	11.0	12.6	12.9	126.0	88.1
max	23	23	25	21	24	21	21	19	19	22	24	21	176	116
min	4	5	2	0	0	0	0	0	0	0	5	2	70	53
<b>High</b>														
mean	3.9	3.4	2.7	1.4	0.6	0.2	0.1	0.4	1.2	1.6	2.4	2.5	20.5	17.5
max	14	12	11	7	3	3	2	5	6	8	9	10	45	47
min	0	0	0	0	0	0	0	0	0	0	0	0	1	3
<b>Very High</b>														
mean	1.3	1.0	0.8	0.5	0.1	0.1	0.0	0.1	0.4	0.8	0.7	0.7	6.5	5.6
max	8	4	7	3	1	1	0	2	3	5	4	3	18	19
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.8	0.4	1.0	0.1	0.1	0.0	0.0	0.0	0.2	0.1	0.6	0.6	3.9	3.6
max	4	4	4	3	2	0	0	0	2	2	6	5	11	13
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.2	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.2	1.1
max	2	4	3	3	0	0	0	0	0	1	2	2	6	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Canterbury (Coastal)														
Curing%	60	60	60	50	40	30	10	10	20	30	40	50		
<b>Low</b>														
mean	4.0	3.4	4.6	5.4	6.9	9.3	17.1	15.6	7.9	5.8	4.1	4.1	88.4	31.7
max	12	9	14	11	18	22	29	27	18	10	13	10	133	51
min	0	0	0	1	0	2	4	6	2	0	0	0	63	15
<b>Moderate</b>														
mean	23.5	22.6	23.8	22.8	22.8	20.2	13.9	15.2	20.7	22.6	22.1	22.9	253.0	160.4
max	29	27	27	27	29	28	27	25	28	28	28	30	281	172
min	16	17	17	17	13	7	2	4	12	14	15	17	212	133
<b>High</b>														
mean	2.9	2.0	2.0	1.6	1.1	0.4	0.0	0.2	1.4	2.2	3.0	3.1	19.8	16.3
max	8	5	7	4	4	3	0	2	5	7	10	10	39	39
min	0	0	0	0	0	0	0	0	0	0	0	0	7	6
<b>Very High</b>														
mean	0.4	0.2	0.6	0.1	0.1	0.0	0.0	0.0	0.0	0.4	0.8	0.6	3.2	2.9
max	3	2	5	1	1	0	0	0	0	3	6	3	8	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.1	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	0.9
max	1	0	2	3	0	0	0	0	0	0	1	2	3	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.4	3.6	4.1	5.4	6.0	7.0	6.3	5.9	5.2	5.1	4.7	4.8	62.6	32.4
max	12	10	12	11	16	19	21	20	12	11	13	13	98	51
min	0	0	0	1	0	1	1	1	0	0	0	0	39	17
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	1	0	0	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.6	2.7	3.6	5.3	5.5	6.1	5.5	5.9	3.9	3.7	2.6	3.3	50.6	23.9
max	9	6	8	12	13	17	15	13	10	8	6	7	72	36
min	0	0	0	1	1	1	0	1	1	0	0	0	34	15
<b>Very High</b>														
mean	4.3	3.3	4.9	5.0	7.3	7.1	8.0	6.6	5.3	5.1	3.9	4.1	64.9	30.9
max	9	7	11	9	14	13	16	14	13	14	8	9	82	49
min	0	1	1	1	1	2	2	1	1	0	1	0	45	19
<b>Extreme</b>														
mean	8.8	10.4	10.9	9.5	8.6	7.8	9.2	8.8	8.7	8.8	9.9	9.2	110.3	67.5
max	14	17	18	19	19	17	18	17	15	15	20	14	128	90
min	4	3	5	2	2	1	1	2	3	1	2	3	86	44
<b>Very Extreme</b>														
mean	10.9	8.2	7.6	4.8	3.4	2.1	2.0	3.9	6.9	8.3	9.0	9.6	76.8	57.5
max	24	17	21	11	11	7	6	11	15	18	19	18	114	102
min	2	2	2	0	0	0	0	0	0	1	1	3	41	33

Windroses for Timaru Aero SYNOP (TUA)



Station Name: Waihaorunga Raws (WHR)      Period: 2000-02-09 - 2021-07-02      Length of record: 21 years

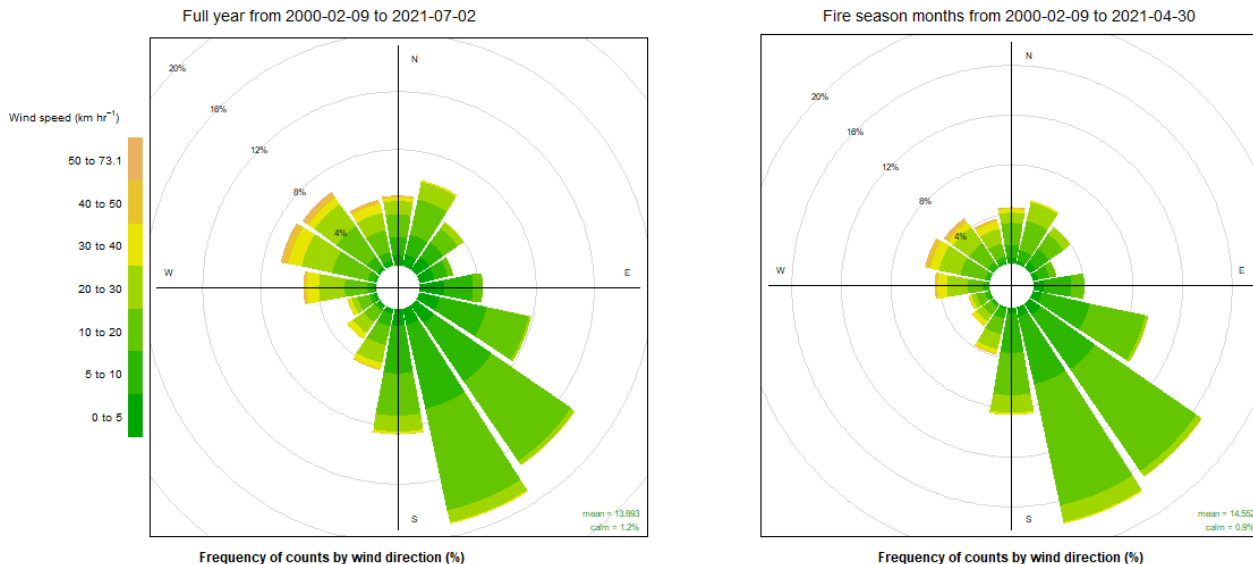
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	18.2	17.9	16.8	14.2	11.5	9.3	8.5	9.4	11.6	12.9	14.9	16.9	13.5	15.9
median	18.1	17.9	16.4	13.9	11.2	9.1	8.3	9.2	11.4	12.8	14.8	17.0	13.1	15.8
max	32.5	32.8	32.1	24.0	23.6	19.6	17.6	18.6	23.1	25.2	28.7	30.3	32.8	32.8
min	7.8	6.4	6.1	4.1	1.5	-0.1	-2.1	-1.1	1.7	2.3	0.4	5.4	-2.1	0.4
<b>Relative Humidity, %</b>														
mean	62.0	64.2	62.4	62.4	64.1	62.2	60.7	63.1	59.0	60.5	61.7	63.6	62.2	62.4
median	63.0	65.0	62.0	62.0	62.8	61.0	60.0	62.0	58.0	60.0	62.0	64.0	62.0	63.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	10	19	15	19	15	21	15	18	13	19	15	14	10	10
<b>Wind Speed, km/h</b>														
mean	15.4	13.3	13.2	12.7	12.8	12.5	12.1	12.8	15.7	16.6	15.9	15.3	14.0	14.6
median	13.0	11.9	11.2	10.0	9.0	8.9	9.0	9.4	12.2	13.5	13.8	13.6	11.8	12.4
max	56.5	48.6	50.5	60.1	60.1	49.7	56.4	73.1	62.3	65.2	57.9	51.4	73.1	65.2
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.0	1.9	1.3	1.7	1.7	1.2	1.3	1.5	1.2	1.6	1.8	2.0	1.6	1.8
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	62.8	67.0	59.0	59.0	64.2	56.2	57.8	92.0	28.8	36.2	66.8	39.4	92.0	67.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	57.8	54.3	40.2	50.4	48.0	38.9	39.7	40.7	32.6	51.9	55.7	61.9	47.7	53.2
max	155.0	176.8	78.2	152.2	177.6	205.2	137.0	157.3	84.0	104.0	185.4	134.0	205.2	185.4
min	8.2	16.4	9.6	9.0	5.8	9.6	7.4	4.4	5.4	19.4	10.5	16.8	4.4	8.2
<b>Seasonal Rainfall, millimetres</b>														
mean													572.0	370.5
max													860.8	530.6
min													424.9	185.5
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	74.3	75.4	76.1	73.2	71.6	73.1	74.7	71.3	74.8	73.0	73.9	73.2	73.7	74.2
median	82.2	82.5	83.3	82.2	80.8	81.7	82.5	80.6	82.0	80.7	81.0	81.6	81.8	82.0
max	96.8	94.4	96.3	93.7	93.3	91.4	90.5	92.0	93.3	93.7	95.3	93.4	96.8	96.8
min	0.9	1.5	2.2	2.2	0.8	2.8	0.8	0.9	0.6	8.2	1.9	3.0	0.6	0.9
<b>Duff Moisture Code, DMC</b>														
mean	22.5	22.6	23.5	20.8	13.1	11.3	11.0	10.7	14.7	15.3	18.0	19.3	16.9	20.3
median	17.6	19.3	19.2	15.0	10.4	10.4	9.5	8.0	12.3	12.9	15.1	16.8	13.7	16.5
max	85.6	90.7	79.2	83.0	47.0	37.3	33.2	45.4	58.4	54.6	68.2	65.1	90.7	90.7
min	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	318.7	363.0	387.8	393.5	331.0	270.8	245.8	188.7	179.8	189.2	220.6	276.1	281.2	307.6
median	310.8	349.7	381.5	394.5	347.7	276.4	214.5	191.4	195.6	180.4	221.3	281.7	273.7	298.8
max	640.7	689.5	711.2	725.0	639.1	625.5	529.9	536.1	434.1	425.5	430.5	496.1	725.0	725.0
min	98.3	75.8	81.0	42.2	31.5	0.0	0.5	0.1	0.7	1.6	3.1	31.1	0.0	1.6
<b>Initial Spread Index, ISI</b>														
mean	5.5	4.1	4.6	4.0	3.4	3.5	3.5	3.5	5.4	5.0	4.8	4.8	4.3	4.7
median	2.9	2.9	2.8	2.4	2.1	2.2	2.4	2.0	2.7	2.8	2.6	2.6	2.5	2.7
max	98.4	43.7	52.3	55.1	40.0	34.3	45.3	48.3	55.8	67.3	45.3	54.7	98.4	98.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	37.1	38.2	39.7	35.5	23.1	19.9	18.5	17.4	22.7	23.3	27.9	31.7	27.9	33.4
median	30.2	34.1	34.2	26.9	19.0	18.8	16.6	13.1	19.5	20.7	25.2	29.0	23.6	28.2
max	128.4	134.8	121.1	122.8	77.3	63.7	54.1	70.0	75.2	76.8	96.5	96.2	134.8	134.8
min	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	10.8	9.0	9.9	8.3	5.6	5.2	5.1	5.0	7.9	7.6	8.5	9.0	7.6	9.0
median	6.3	6.5	6.4	5.0	3.5	3.3	3.6	2.2	4.5	4.8	5.0	5.2	4.5	5.5
max	115.3	62.6	69.4	93.4	46.1	48.5	43.4	48.3	60.1	71.3	71.0	75.4	115.3	115.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	3.6	2.3	2.8	2.2	1.1	1.0	0.9	1.0	2.1	2.0	2.3	2.7	2.0	2.6
median	0.7	0.7	0.7	0.5	0.2	0.2	0.3	0.1	0.4	0.4	0.5	0.5	0.4	0.6
max	121.3	41.2	49.4	83.6	23.9	26.2	21.5	26.0	38.3	51.8	51.5	57.2	121.3	121.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	113.9	67.4	92.0	69.7	36.1	30.4	28.4	30.6	64.9	62.3	69.0	76.1	61.7	78.6
max	288.1	169.4	284.1	314.5	134.6	65.5	72.9	134.1	212.6	226.2	249.9	276.4	314.5	314.5
min	10.9	13.0	3.9	2.7	2.1	4.6	0.1	3.0	16.0	7.9	1.5	10.3	0.1	1.5
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													740.9	549.3
max													1397.7	1282.6
min													336.5	140.7



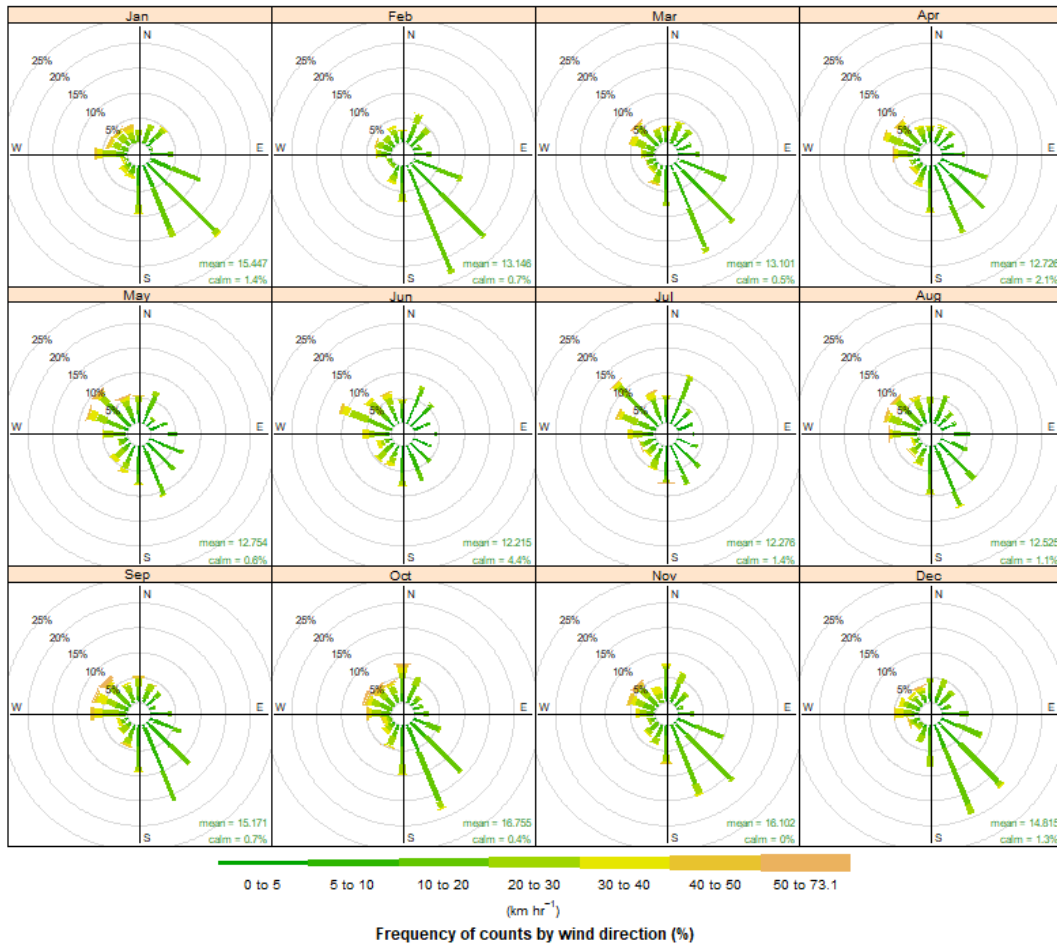
Station Name: Waihaorunga Raws (WHR)      Period: 2000-02-09 - 2021-07-02      Length of record: 21 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	13.1	11.4	12.2	14.6	18.7	18.4	18.8	22.0	15.8	15.8	15.0	14.7	190.4	96.9
max	28	20	29	28	31	30	31	31	26	27	30	26	255	154
min	3	4	1	2	6	6	2	1	7	4	1	6	144	44
<b>Moderate</b>														
mean	10.6	12.1	12.2	10.5	9.9	10.2	10.9	7.2	10.8	11.8	10.2	11.2	127.6	79.1
max	21	18	19	22	22	21	24	20	16	22	22	17	174	106
min	2	8	2	2	0	0	0	0	3	4	0	3	92	45
<b>High</b>														
mean	4.0	2.8	3.5	2.6	1.9	1.2	1.1	1.3	2.0	2.4	3.2	3.2	29.2	21.3
max	10	8	9	10	9	5	6	8	7	8	11	8	51	52
min	0	0	0	0	0	0	0	0	0	0	0	0	8	6
<b>Very High</b>														
mean	1.4	1.1	1.3	1.0	0.3	0.1	0.1	0.3	0.9	0.6	0.7	0.8	9.0	7.0
max	6	5	5	6	4	3	2	4	5	4	5	3	24	19
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.3	0.5	1.2	1.0	0.2	0.1	0.0	0.1	0.5	0.3	0.8	0.7	6.8	5.6
max	7	3	7	5	3	1	1	1	4	4	6	5	18	17
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<b>Very Extreme</b>														
mean	0.7	0.2	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	2.3	2.3
max	4	2	5	3	0	0	0	0	1	1	3	4	11	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Canterbury (Foothills (S of Rakaia))														
Curing%	60	80	80	55	40	15	15	15	25	25	40	50		
<b>Low</b>														
mean	5.8	3.3	3.4	5.1	7.0	9.2	9.0	11.2	6.4	8.1	5.8	6.1	80.3	37.1
max	16	8	8	13	16	19	25	24	13	19	13	12	112	66
min	2	0	0	1	0	2	2	1	1	1	0	2	59	19
<b>Moderate</b>														
mean	19.8	15.4	16.4	19.8	21.0	20.1	21.4	19.1	19.4	20.0	19.4	19.2	231.2	130.7
max	25	25	27	25	28	28	29	29	27	28	29	24	263	153
min	13	8	7	14	14	10	6	7	13	12	11	15	208	110
<b>High</b>														
mean	4.2	7.3	7.5	4.4	2.7	0.7	0.6	0.7	3.7	2.3	3.9	4.4	42.5	33.9
max	11	13	13	13	6	2	3	5	9	8	11	10	71	62
min	0	2	1	0	0	0	0	0	1	0	0	0	27	15
<b>Very High</b>														
mean	1.1	1.1	2.3	0.6	0.2	0.0	0.0	0.0	0.4	0.6	0.9	1.0	8.4	7.8
max	3	3	9	2	3	0	0	0	2	3	5	3	16	15
min	0	0	0	0	0	0	0	0	0	0	0	0	2	2
<b>Extreme</b>														
mean	0.1	0.9	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.6	2.7
max	1	3	5	1	0	0	0	0	0	0	0	2	8	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	1	1	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	5.8	4.6	4.7	5.7	6.6	5.8	5.0	6.6	5.0	6.8	5.8	6.9	69.0	39.8
max	17	10	10	14	15	13	15	20	11	17	13	15	95	70
min	1	0	1	1	0	0	0	0	1	2	0	2	53	21
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1
max	1	0	0	0	1	1	1	0	0	0	0	1	3	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.8	2.9	3.9	4.0	4.0	3.4	3.8	4.5	3.4	3.5	2.3	3.0	41.1	22.1
max	8	6	9	12	7	7	10	9	9	10	6	6	51	36
min	0	0	0	0	1	0	0	0	0	0	0	0	31	12
<b>Very High</b>														
mean	3.6	3.5	3.9	3.9	4.9	4.7	4.7	4.6	3.6	3.2	4.8	3.4	49.0	26.7
max	9	9	11	9	11	10	12	11	10	6	9	8	66	38
min	1	1	0	0	0	2	0	0	0	1	1	0	21	12
<b>Extreme</b>														
mean	7.3	8.4	7.9	8.2	7.2	8.8	9.7	8.6	7.2	7.0	7.4	7.4	95.2	54.2
max	14	12	14	18	14	16	16	15	12	15	18	12	115	68
min	3	4	4	3	1	3	2	2	4	2	2	0	74	43
<b>Very Extreme</b>														
mean	11.4	8.8	10.7	8.2	8.2	7.3	7.8	6.8	10.8	10.4	9.7	10.2	110.6	69.3
max	23	17	24	18	22	13	15	18	18	22	24	21	158	119
min	2	2	1	0	1	2	0	2	5	2	1	3	77	29

Windroses for Waihaorunga Raws (WHR)



WHR station from 2000-02-09 to 2021-07-02

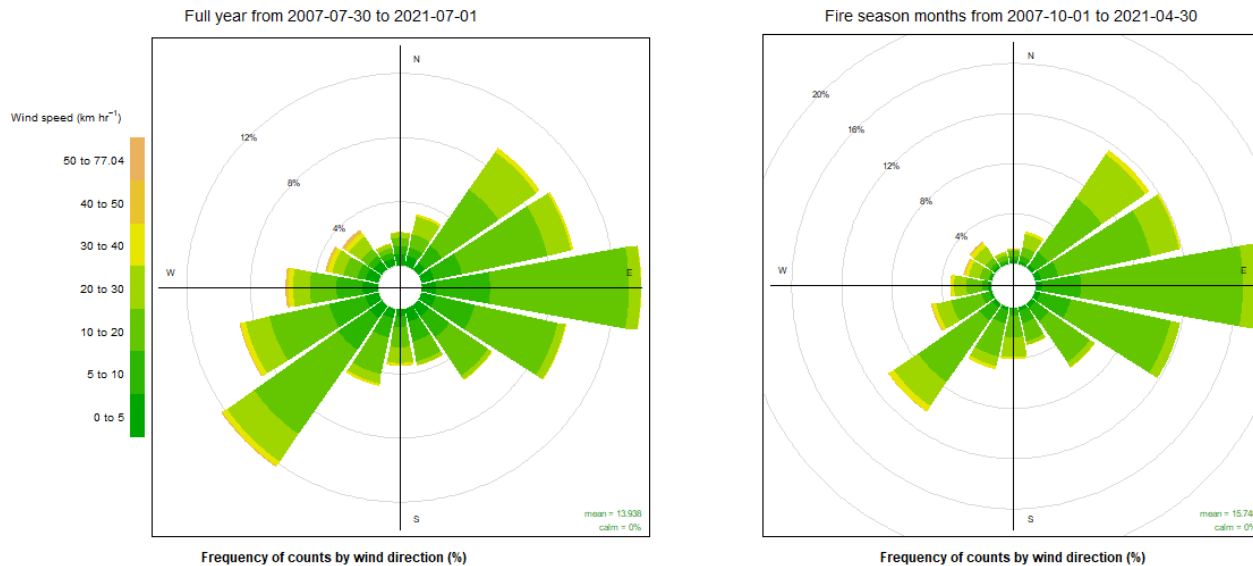


Station Name: Bucklands Raws (Bucklands)      Period: 2007-07-30 - 2021-07-01      Length of record: 13 years

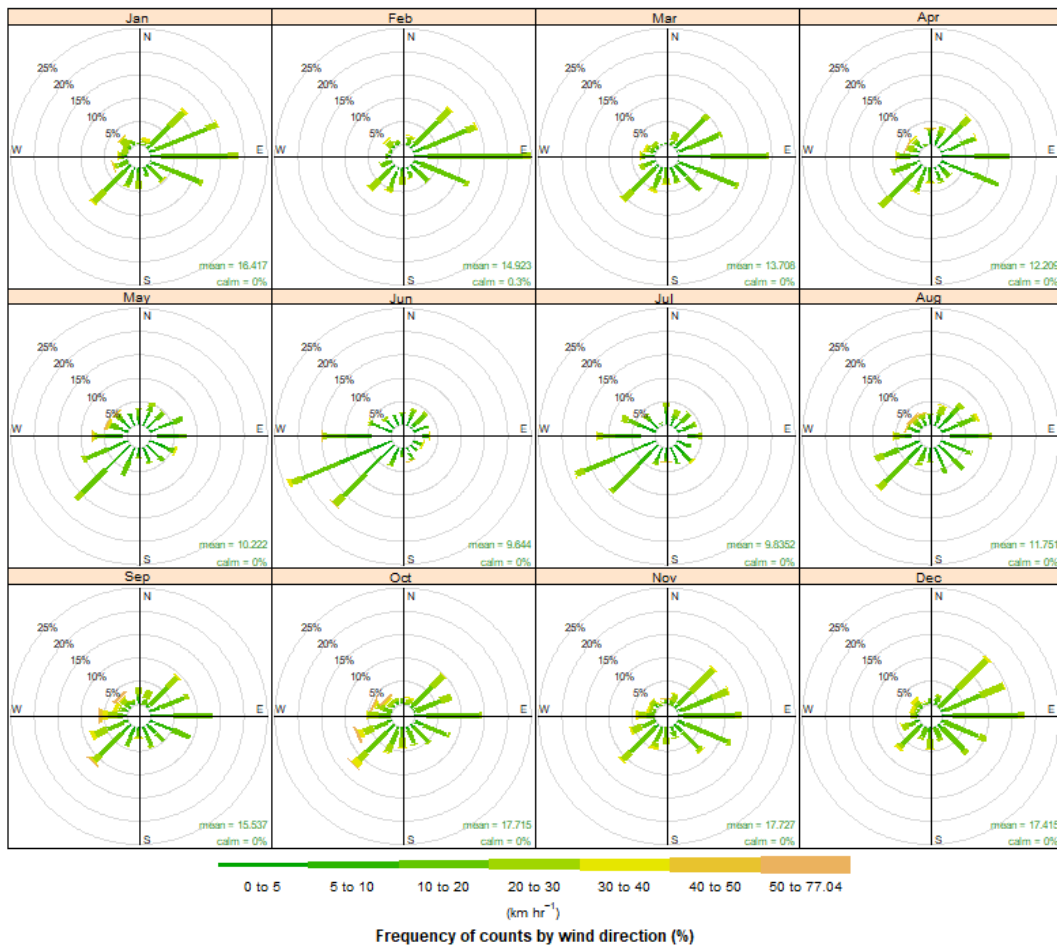
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	17.2	17.1	16.3	14.3	11.7	9.3	9.0	9.9	11.6	13.1	14.7	16.2	13.4	15.5
median	16.9	16.6	16.1	14.0	11.5	9.1	8.6	9.7	11.3	12.8	14.4	16.0	13.3	15.4
max	31.9	31.2	27.3	25.3	24.8	19.4	17.3	20.1	22.1	26.4	29.4	32.1	32.1	32.1
min	8.8	9.2	6.8	5.5	2.9	2.4	2.2	1.8	-1.3	2.6	5.9	6.8	-1.3	2.6
<b>Relative Humidity, %</b>														
mean	70.2	71.7	70.6	70.1	72.0	73.9	70.9	72.0	66.6	65.6	67.8	70.9	70.2	69.5
median	72.0	73.0	72.0	71.0	72.0	74.0	71.0	72.0	68.0	67.5	73.0	73.0	72.0	72.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	26	20	27	33	31	37	33	30	14	24	17	23	14	17
<b>Wind Speed, km/h</b>														
mean	16.6	15.0	14.0	12.6	10.5	10.0	10.1	11.9	15.8	18.1	18.2	17.6	14.2	16.0
median	15.8	14.8	13.3	11.2	8.1	7.7	7.6	9.4	13.3	16.2	17.3	16.7	13.3	15.1
max	59.8	39.2	62.3	63.1	75.5	71.5	59.5	61.9	87.1	68.4	79.7	71.1	87.1	79.7
min	3.2	0.0	1.4	1.4	1.1	0.7	1.1	1.1	1.8	1.8	1.4	2.2	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	2.3	2.4	1.4	2.2	2.4	1.7	1.6	1.5	1.5	1.9	1.4	1.9	1.9	1.9
median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
max	101.8	84.6	36.0	81.4	68.6	66.8	109.2	40.8	97.0	42.2	25.6	48.6	109.2	101.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	61.1	73.0	44.9	63.0	75.9	49.4	45.2	47.5	44.4	56.9	43.1	57.9	55.2	57.1
max	115.8	189.8	78.0	143.0	240.2	230.4	162.2	100.8	125.6	138.0	101.2	128.2	240.2	189.8
min	21.8	15.2	11.0	11.8	7.8	6.4	6.8	16.4	19.6	27.0	13.0	8.6	6.4	8.6
<b>Seasonal Rainfall, millimetres</b>														
mean													662.4	412.3
max													955.6	581.8
min													476.4	233.8
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	72.3	73.4	73.4	70.4	66.1	66.2	69.8	67.2	73.1	71.6	74.9	72.0	70.9	72.6
median	80.1	80.6	79.7	79.9	76.0	74.8	77.4	76.9	79.5	79.7	80.5	78.8	78.7	79.9
max	93.1	93.9	91.4	91.0	90.0	88.4	87.8	89.1	90.3	93.4	95.2	93.5	95.2	95.2
min	0.2	2.8	7.2	0.9	6.4	4.1	3.3	2.1	15.0	2.9	4.3	4.3	0.2	0.2
<b>Duff Moisture Code, DMC</b>														
mean	15.4	15.1	15.0	14.0	6.8	5.2	6.0	6.0	9.8	10.5	15.2	16.0	11.3	14.5
median	11.8	14.4	12.9	10.5	6.0	3.0	5.0	5.0	8.7	9.3	13.4	13.9	8.7	12.3
max	59.0	34.8	65.0	59.4	29.7	20.6	22.8	24.5	36.9	33.4	50.9	54.8	65.0	65.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	295.0	318.1	327.1	333.4	246.0	163.1	161.5	112.4	101.8	109.3	164.4	245.1	214.6	255.3
median	298.3	297.0	292.8	273.2	208.9	146.1	186.3	83.4	89.3	107.8	158.0	237.8	194.8	226.5
max	621.3	572.1	650.2	668.6	651.1	444.6	392.9	337.7	298.7	288.9	384.6	477.5	668.6	668.6
min	5.9	69.6	32.0	39.7	0.4	0.1	0.8	0.8	1.2	2.6	31.2	75.3	0.1	2.6
<b>Initial Spread Index, ISI</b>														
mean	3.4	3.2	3.0	2.7	1.9	1.6	1.9	2.1	3.5	3.7	4.0	3.5	2.9	3.4
median	2.6	2.5	2.0	1.9	1.2	1.1	1.4	1.4	2.3	2.6	2.8	2.3	1.9	2.4
max	41.0	35.3	26.1	53.7	33.0	17.3	21.2	35.4	48.5	71.7	83.9	52.8	83.9	83.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	26.5	26.4	26.4	24.5	12.4	9.1	10.1	9.6	14.4	16.2	23.7	26.4	18.8	24.3
median	21.3	25.3	23.4	19.3	11.0	4.9	8.2	7.7	13.5	14.2	21.8	24.2	14.8	21.1
max	95.2	59.0	104.1	97.0	53.4	36.1	37.2	40.4	43.9	50.4	69.6	76.4	104.1	104.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	6.2	5.9	5.8	4.9	2.2	1.6	2.0	2.0	4.4	5.1	6.7	6.3	4.4	5.9
median	4.6	4.7	3.6	2.9	0.8	0.6	0.8	0.8	2.5	3.3	4.9	4.1	2.3	4.0
max	53.3	49.7	49.0	62.5	47.6	19.2	17.9	34.8	46.7	73.4	90.2	50.5	90.2	90.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.2	1.1	1.2	0.9	0.3	0.1	0.2	0.3	0.8	1.0	1.5	1.3	0.8	1.2
median	0.4	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.3	0.1	0.3
max	30.9	27.4	26.7	41.1	25.3	5.1	4.5	14.5	24.5	54.6	78.5	28.1	78.5	78.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	39.8	30.2	37.3	23.9	9.8	4.8	5.9	7.5	22.9	30.9	46.1	40.6	25.0	35.5
max	117.6	92.3	201.9	59.2	51.5	15.2	22.1	25.3	69.6	156.9	164.7	69.7	201.9	201.9
min	8.3	5.6	0.9	0.2	0.6	0.3	0.1	0.3	3.7	1.7	4.9	6.3	0.1	0.2
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													299.8	248.0
max													550.0	531.7
min													136.2	64.2

Station Name: Bucklands Raws (Bucklands)      Period: 2007-07-30 - 2021-07-01      Length of record: 13 years														FIRE SEASON
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	15.7	14.2	18.7	19.1	27.6	27.5	27.2	28.2	21.5	18.4	15.0	16.5	249.4	116.6
max	25	27	31	30	31	30	31	31	29	31	28	26	300	167
min	4	4	2	4	17	18	8	19	9	5	1	3	200	66
<b>Moderate</b>														
mean	13.0	13.1	10.2	9.8	3.2	2.5	3.8	2.8	7.7	11.6	12.5	12.5	102.6	83.6
max	25	22	23	23	12	12	23	12	19	23	23	26	143	116
min	6	1	0	0	0	0	0	0	1	0	2	4	62	43
<b>High</b>														
mean	1.5	0.8	1.1	1.0	0.0	0.1	0.0	0.1	0.8	0.7	1.5	1.4	9.0	8.0
max	6	5	8	4	0	1	0	1	5	4	9	4	20	26
min	0	0	0	0	0	0	0	0	0	0	0	0	2	0
<b>Very High</b>														
mean	0.5	0.1	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.2	0.5	0.5	2.5	2.4
max	3	1	3	1	1	0	0	0	0	3	3	2	10	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.2	0.2	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.2	1.5	1.4
max	1	2	6	0	1	0	0	0	0	1	3	2	6	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.2
max	0	0	1	0	0	0	0	0	0	0	1	0	1	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Otago (Coastal Otago)														
Curing%	60	70	60	60	30	30	30	40	50	50	40	60		
<b>Low</b>														
mean	5.4	3.8	5.2	7.1	11.5	10.2	8.2	8.9	4.8	5.1	3.8	5.5	79.5	35.9
max	14	10	11	18	22	20	21	20	9	12	8	17	108	66
min	2	0	1	1	2	1	1	2	2	1	0	1	55	22
<b>Moderate</b>														
mean	23.7	20.5	24.1	21.9	18.7	19.5	22.5	21.4	21.6	22.6	23.3	23.5	263.2	159.3
max	29	25	28	28	29	29	30	28	26	29	30	29	293	174
min	15	17	20	12	9	10	10	10	17	16	17	14	242	136
<b>High</b>														
mean	1.8	3.5	1.6	0.9	0.8	0.3	0.3	0.5	3.2	2.6	2.5	1.5	19.5	14.9
max	5	8	8	3	3	1	2	2	8	7	7	3	30	28
min	0	0	0	0	0	0	0	0	0	0	0	0	9	5
<b>Very High</b>														
mean	0.1	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.4	0.5	0.3	0.5	2.5	1.8
max	1	1	1	1	1	0	0	1	2	3	2	2	6	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.5	0.4
max	0	2	0	0	0	0	0	0	1	2	1	0	3	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	5.6	4.6	5.0	7.2	8.9	7.5	5.9	8.4	5.8	6.5	4.2	6.2	75.8	39.3
max	13	11	10	18	19	14	16	20	12	13	9	16	95	69
min	3	1	2	1	1	1	0	2	3	1	0	2	58	25
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	0	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.6	2.8	4.4	3.2	7.5	7.5	7.8	5.5	4.4	2.6	2.2	2.8	53.3	20.0
max	7	6	14	7	16	13	14	10	10	8	5	5	79	36
min	0	0	0	0	2	3	2	2	0	0	0	0	41	8
<b>Very High</b>														
mean	4.6	4.8	7.0	6.3	6.5	7.5	7.6	7.6	4.5	4.2	4.7	5.8	71.2	36.9
max	9	12	15	14	13	11	13	14	12	9	8	10	90	57
min	1	0	1	3	1	3	3	1	1	1	3	3	55	25
<b>Extreme</b>														
mean	10.5	9.5	8.2	9.1	5.7	5.7	6.8	6.9	8.6	9.2	10.2	9.1	99.5	66.5
max	17	13	18	17	14	12	15	14	17	14	17	18	137	82
min	3	5	4	2	1	0	0	3	3	0	4	4	76	43
<b>Very Extreme</b>														
mean	7.7	6.5	6.4	4.2	2.3	1.8	2.7	2.6	6.8	8.5	8.8	7.2	65.4	49.6
max	14	13	18	11	4	4	7	6	14	17	19	12	95	82
min	2	1	0	0	0	0	0	0	2	0	1	2	38	26

### Windroses for Bucklands Raws (Bucklands)



### Bucklands station from 2007-07-30 to 2021-07-01



Station Name: Butchers Dam Rows  
(Butchers\_Dam)

Period: 2009-12-16 - 2021-07-01

Length of record: 11 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	19.6	19.6	17.0	13.3	9.1	5.2	5.6	8.1	11.2	13.8	16.3	19.0	13.2	17.0
median	19.4	19.8	17.0	12.9	8.9	4.9	5.5	8.2	11.4	13.6	16.1	19.1	13.1	16.9
max	32.8	31.3	26.9	23.5	20.2	16.7	15.4	17.7	20.7	24.6	28.8	30.3	32.8	32.8
min	6.6	7.2	7.4	3.3	-2.1	-2.8	-4.2	-0.4	0.6	3.1	1.4	8.4	-4.2	1.4
<b>Relative Humidity, %</b>														
mean	46.5	49.2	54.2	59.4	70.9	77.8	71.7	65.4	54.1	50.2	48.1	44.9	57.8	50.4
median	44.0	47.0	53.0	59.0	70.5	79.0	71.0	65.0	53.0	48.0	46.0	42.0	56.0	49.0
max	98	97	99	100	100	100	100	100	100	95	96	95	100	100
min	12	17	17	24	28	27	29	28	21	17	19	12	12	12
<b>Wind Speed, km/h</b>														
mean	21.9	18.1	17.0	17.0	14.8	12.5	13.4	14.9	18.0	20.3	21.4	20.9	17.5	19.5
median	18.9	14.0	13.7	13.3	10.4	9.7	9.9	11.2	14.9	17.3	18.8	19.1	14.0	16.1
max	63.7	62.3	59.8	74.2	83.9	58.7	71.3	73.4	62.6	76.0	67.3	65.5	83.9	76.0
min	1.4	2.5	2.5	3.2	0.0	0.0	0.0	0.0	1.4	2.2	2.5	1.1	0.0	1.1
<b>24-hr Rainfall, millimeters</b>														
mean	1.5	1.5	0.8	0.9	1.2	1.0	0.8	0.5	0.8	1.1	1.3	0.9	1.0	1.1
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	50.6	48.8	24.2	23.4	22.4	24.2	18.8	15.6	29.6	21.2	26.2	33.4	50.6	50.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	40.4	46.4	26.2	27.0	37.6	30.8	25.4	17.0	24.8	33.7	39.1	28.0	31.4	34.4
max	74.2	123.2	44.2	48.6	61.4	107.6	52.2	45.4	55.6	49.4	113.4	68.8	123.2	123.2
min	9.0	9.8	11.4	6.8	3.2	6.4	2.6	6.0	2.4	5.6	11.0	6.8	2.4	5.6
<b>Seasonal Rainfall, millimetres</b>														
mean													376.2	244.0
max													558.2	322.8
min													262.4	157.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	83.1	83.0	82.0	79.3	70.2	66.1	72.2	76.9	80.1	80.1	81.7	84.5	78.2	82.0
median	87.6	87.4	86.0	83.6	76.4	71.7	77.7	81.3	84.6	85.4	86.9	88.2	83.6	86.4
max	96.5	95.7	94.0	91.6	90.3	89.1	89.0	89.3	91.8	94.6	94.7	95.7	96.5	96.5
min	10.6	10.5	21.4	10.9	15.0	10.2	12.9	21.1	14.2	20.7	6.4	19.6	6.4	6.4
<b>Duff Moisture Code, DMC</b>														
mean	44.4	43.4	44.6	36.1	18.4	7.6	5.0	8.2	16.9	24.2	34.5	51.0	28.1	39.9
median	34.9	42.3	41.9	31.6	12.9	4.3	4.0	7.7	16.5	20.5	33.0	51.5	21.0	36.0
max	129.1	102.0	112.1	94.6	70.9	44.1	17.6	24.2	35.7	71.6	91.9	123.7	129.1	129.1
min	1.1	6.4	4.5	3.8	0.9	0.0	0.0	0.0	3.4	4.0	1.5	4.3	0.0	1.1
<b>Drought Code, DC</b>														
mean	508.4	510.0	545.2	569.6	516.9	431.2	374.5	351.7	354.5	372.8	408.2	488.1	455.1	488.1
median	467.7	482.4	540.7	562.7	501.7	437.5	385.6	337.2	349.9	358.3	400.4	502.9	446.6	477.2
max	891.3	905.2	799.7	847.0	855.1	687.8	563.5	571.2	591.3	606.5	656.5	781.6	905.2	905.2
min	167.4	292.4	303.0	363.3	313.5	151.5	124.4	150.8	148.9	171.6	108.1	56.6	56.6	56.6
<b>Initial Spread Index, ISI</b>														
mean	11.6	9.1	7.1	5.5	2.7	1.9	2.7	3.6	5.8	8.0	10.0	11.3	6.6	8.9
median	7.2	6.1	4.8	3.5	1.6	1.1	1.6	2.3	4.0	4.8	6.6	7.8	3.7	5.5
max	78.9	68.3	62.9	53.5	28.7	25.6	32.7	37.3	37.9	96.1	73.6	74.9	96.1	96.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	70.9	70.0	71.6	60.7	32.5	13.9	9.6	15.1	29.6	40.7	55.4	78.5	46.0	64.3
median	57.1	69.3	71.5	55.4	24.0	8.3	7.9	14.7	28.8	35.7	55.4	80.5	36.8	59.5
max	188.2	159.2	154.1	139.5	113.8	75.1	31.9	39.4	62.0	109.5	125.0	163.7	188.2	188.2
min	2.1	12.1	8.6	7.4	1.7	0.0	0.0	0.1	6.7	7.7	3.0	8.3	0.0	2.1
<b>Fire Weather Index, FWI</b>														
mean	25.8	22.2	18.6	13.9	5.3	2.4	2.6	4.7	10.2	14.9	21.2	27.2	14.1	20.6
median	20.3	19.0	15.3	10.3	3.0	0.6	0.9	3.1	8.6	11.1	17.4	24.8	8.8	16.4
max	124.3	97.2	101.4	98.1	63.4	31.0	33.4	35.9	44.5	106.2	105.6	102.2	124.3	124.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	12.4	9.1	7.0	4.5	1.1	0.3	0.4	0.8	2.4	5.1	8.9	12.6	5.4	8.5
median	5.6	5.0	3.4	1.7	0.2	0.0	0.0	0.2	1.2	1.9	4.3	8.0	1.3	3.8
max	138.5	89.7	96.6	91.1	42.0	11.9	13.6	15.4	22.5	105.0	103.8	98.0	138.5	138.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	411.1	267.0	213.9	116.8	33.3	10.5	11.9	25.5	73.0	157.2	267.5	392.3	165.0	260.8
max	833.4	576.2	578.0	225.4	135.1	44.2	51.2	51.4	118.2	399.0	503.6	609.3	833.4	833.4
min	140.2	97.3	68.3	22.7	6.2	0.2	0.2	3.1	40.1	23.7	26.3	95.3	0.2	22.7
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1980.1	1791.6
max													3031.9	3050.1
min													1218.8	914.1

Station Name: Butchers Dam Raws  
(Butchers\_Dam)

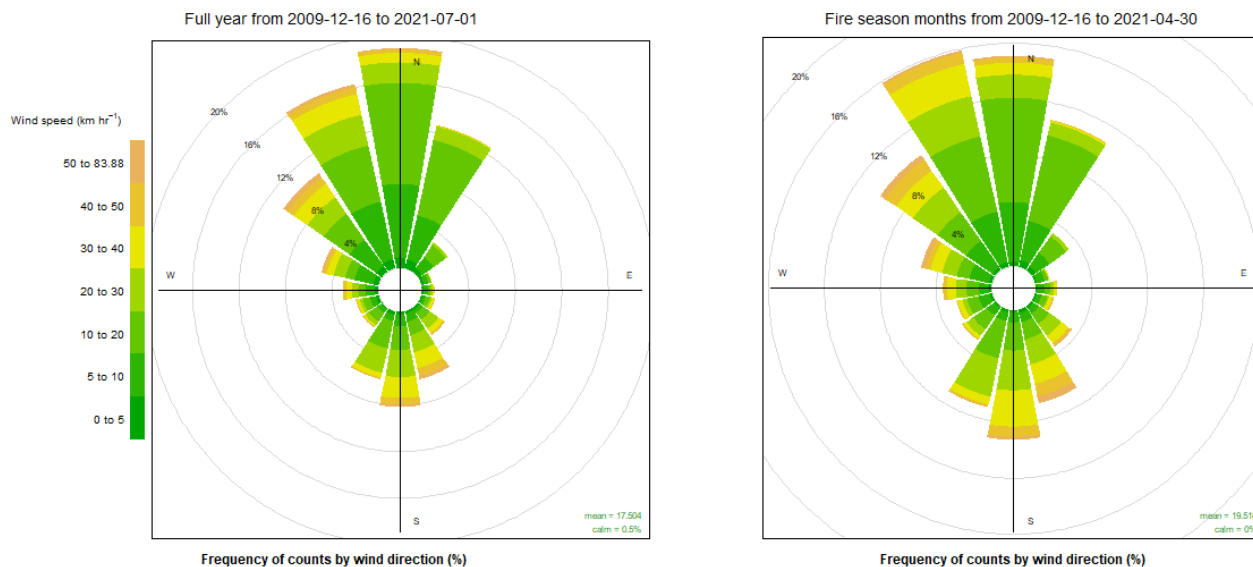
Period: 2009-12-16 - 2021-07-01

Length of record: 11 years

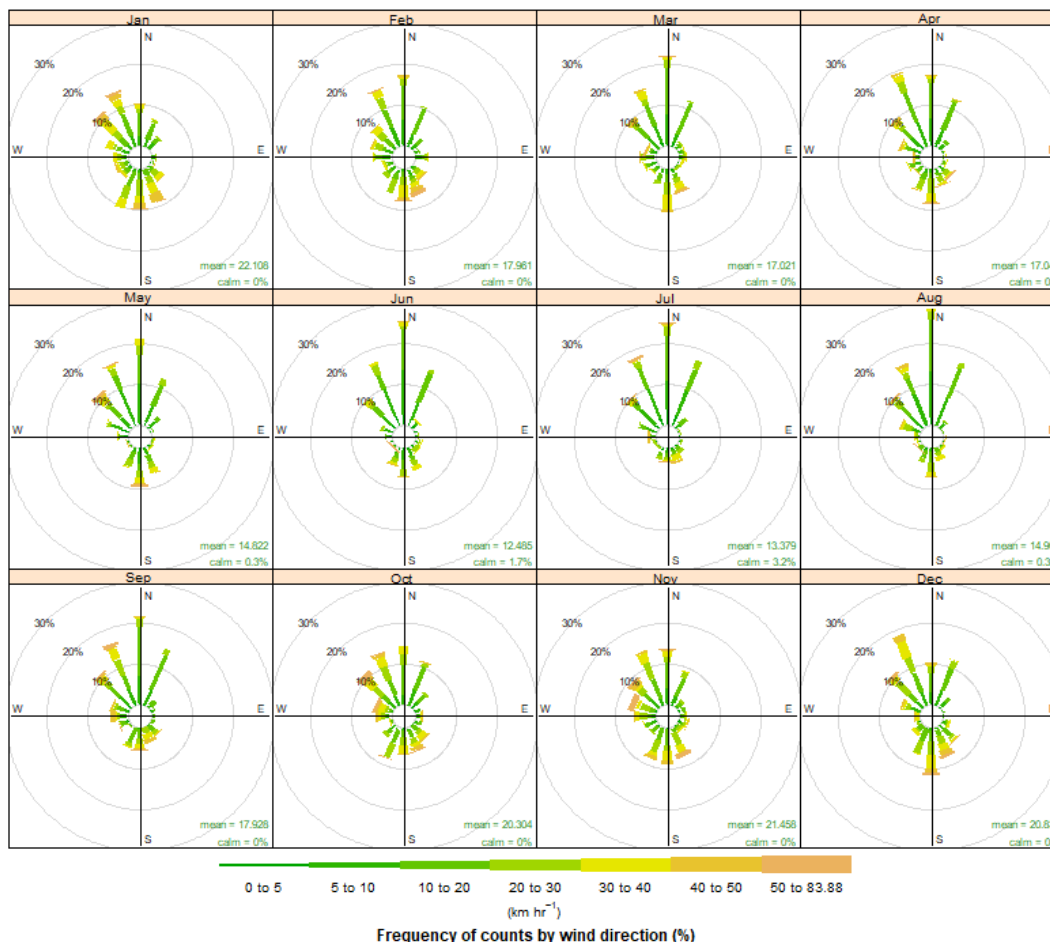
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	2.8	3.9	5.3	5.9	19.3	25.9	26.8	21.9	9.3	7.6	5.0	3.4	137.1	34.8
max	7	12	13	13	29	30	31	31	19	15	20	13	209	70
min	0	1	0	1	6	16	14	12	3	0	1	0	89	14
<b>Moderate</b>														
mean	8.7	7.4	11.5	15.7	9.6	3.8	4.0	8.2	15.7	12.5	8.6	6.4	112.1	71.1
max	18	16	18	20	20	11	16	17	23	16	15	12	143	92
min	1	1	3	8	2	0	0	0	7	6	4	1	72	38
<b>High</b>														
mean	5.5	6.8	6.1	4.7	1.5	0.2	0.2	0.8	3.6	5.8	7.2	5.5	47.9	42.0
max	10	13	12	13	6	2	1	3	11	13	10	9	64	56
min	1	1	0	1	0	0	0	0	0	1	3	2	24	22
<b>Very High</b>														
mean	4.1	3.4	3.3	1.4	0.4	0.0	0.0	0.1	1.0	2.3	2.8	4.5	23.2	21.5
max	7	8	8	6	2	0	0	1	3	5	6	8	29	35
min	0	0	1	0	0	0	0	0	0	0	0	1	13	11
<b>Extreme</b>														
mean	5.5	3.9	3.1	1.5	0.2	0.1	0.0	0.0	0.4	2.2	3.4	6.1	26.3	24.7
max	9	8	7	4	2	1	0	0	1	7	8	11	40	39
min	0	0	0	0	0	0	0	0	0	0	0	2	13	15
<b>Very Extreme</b>														
mean	4.4	2.9	1.8	0.7	0.1	0.0	0.0	0.0	0.0	0.6	3.0	5.2	18.7	18.2
max	10	9	8	2	1	0	0	0	0	4	10	12	34	40
min	1	0	0	0	0	0	0	0	0	0	0	0	9	6
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Otago (Inland Otago)														
Curing%	80	90	80	60	50	50	60	70	60	40	40	70		
<b>Low</b>														
mean	0.8	1.1	0.8	2.4	5.8	7.3	5.3	2.1	1.8	2.4	2.1	0.8	32.6	10.8
max	2	5	3	4	10	15	11	7	6	6	8	4	59	21
min	0	0	0	0	0	1	0	0	0	0	0	0	16	2
<b>Moderate</b>														
mean	6.6	5.6	12.1	23.8	22.4	21.1	24.4	23.6	22.3	19.2	15.3	9.2	205.5	92.5
max	11	12	20	27	28	28	29	29	28	25	21	19	228	126
min	2	2	2	19	17	15	20	19	16	11	10	4	172	67
<b>High</b>														
mean	11.6	11.0	12.0	2.7	2.6	1.6	0.9	4.3	4.9	7.6	9.0	12.5	80.9	66.9
max	17	16	21	6	7	5	4	10	8	12	14	19	102	81
min	6	5	6	0	0	0	0	1	2	1	2	3	54	31
<b>Very High</b>														
mean	5.1	4.6	3.5	1.1	0.2	0.0	0.5	0.5	1.0	1.7	3.5	4.9	26.6	23.7
max	11	8	7	4	1	0	2	1	3	5	6	11	39	39
min	2	1	1	0	0	0	0	0	0	0	0	1	20	16
<b>Extreme</b>														
mean	5.6	4.5	2.4	0.0	0.0	0.0	0.0	0.5	0.0	0.1	0.2	3.5	16.8	15.8
max	10	10	7	0	0	0	0	2	0	1	1	5	25	24
min	2	0	1	0	0	0	0	0	0	0	0	1	7	9
<b>Very Extreme</b>														
mean	1.2	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.5
max	4	4	1	0	0	0	0	0	0	0	0	0	5	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	1.6	2.1	2.0	2.1	6.5	6.9	4.9	2.9	2.2	2.6	2.5	2.0	38.4	15.5
max	3	6	4	4	11	13	10	7	7	5	8	7	68	28
min	0	0	0	0	0	0	0	0	0	1	1	0	21	5
<b>Moderate</b>														
mean	0.1	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1
max	1	0	0	0	1	3	0	0	0	0	0	0	3	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.6	1.0	1.9	2.5	6.1	9.4	7.0	4.2	1.9	2.7	1.1	1.1	39.5	11.2
max	1	3	3	4	13	14	15	8	4	7	4	3	57	20
min	0	0	0	1	1	3	0	2	1	1	0	0	26	6
<b>Very High</b>														
mean	1.2	1.4	3.2	3.2	6.3	5.7	7.3	6.3	2.9	1.9	2.0	1.2	42.5	14.1
max	3	3	7	8	11	12	14	10	6	5	4	4	54	21
min	0	0	0	0	2	0	3	1	1	0	0	0	30	3
<b>Extreme</b>														
mean	4.4	4.3	6.5	11.1	6.3	4.6	7.8	10.4	9.0	6.2	4.4	4.0	78.8	40.9
max	7	8	12	14	9	11	16	15	11	9	8	11	91	55
min	1	1	2	6	3	1	1	3	5	1	2	1	57	28
<b>Very Extreme</b>														
mean	23.1	19.5	17.5	11.1	5.7	3.1	4.0	7.3	14.0	17.5	20.1	22.7	165.6	130.5

max	29	27	28	17	11	6	14	13	19	26	24	28	196	161
min	19	12	10	7	2	0	0	2	9	11	8	11	120	88

Windroses for Butchers Dam Raws (Butchers Dam)



Butchers\_Dam station from 2009-12-16 to 2021-07-01





Station Name: Clyde 2 Ews (CLY)	Period: 1997-09-19 - 2021-07-01												Length of record: 23 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	20.9	20.5	18.0	13.6	9.3	5.3	4.8	8.2	12.5	14.9	17.4	19.8	13.8	17.9
median	20.7	20.3	17.8	13.5	9.0	5.0	4.7	8.0	12.5	14.8	17.2	19.8	14.1	17.6
max	34.3	32.5	29.1	25.6	24.1	18.2	17.0	19.7	23.3	26.5	29.6	31.0	34.3	34.3
min	8.9	8.6	8.1	2.6	-1.6	-5.1	-4.4	-0.4	2.5	3.7	4.9	7.8	-5.1	2.6
<b>Relative Humidity, %</b>														
mean	51.1	53.1	57.7	64.2	73.5	78.9	77.9	68.9	56.8	53.0	49.2	49.0	61.1	53.9
median	50.0	51.0	58.0	64.0	75.0	82.0	80.0	69.0	57.0	52.0	46.1	47.0	60.0	53.0
max	100.0	100.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.9	100.0	100.0	100.0
min	13	16	25	23	31	30	31	27	21	18	14	20	13	13
<b>Wind Speed, km/h</b>														
mean	9.3	7.7	7.2	6.5	5.7	4.9	5.0	6.0	9.1	9.7	9.8	8.9	7.5	8.5
median	7.2	6.0	5.5	4.7	4.0	3.1	3.1	4.2	6.8	7.6	7.9	7.4	5.5	6.5
max	35.0	34.9	41.8	40.7	36.7	33.8	47.5	49.7	63.0	41.8	46.1	33.1	63.0	46.1
min	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.4	0.0	0.5	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	1.5	1.4	0.9	0.9	1.1	1.1	0.7	0.6	0.8	1.1	1.2	1.1	1.0	1.2
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	78.8	55.0	50.6	32.6	47.2	41.2	28.2	22.0	23.2	23.4	39.2	44.6	78.8	78.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	42.2	40.6	29.9	28.5	33.3	32.6	22.0	18.2	25.4	34.0	35.6	34.0	31.3	35.0
max	95.4	129.6	86.3	55.1	67.2	130.0	49.4	34.4	49.0	57.6	133.2	84.4	133.2	133.2
min	10.2	3.8	6.2	7.2	5.8	3.0	3.0	6.4	10.0	6.2	2.8	6.6	2.8	2.8
<b>Seasonal Rainfall, millimetres</b>														
mean													376.1	247.3
max													549.0	363.4
min													268	167
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	81.5	81.0	80.0	76.7	68.5	62.6	68.5	73.5	78.5	78.8	80.6	81.6	76.0	80.0
median	87.0	86.8	85.0	82.6	75.1	70.3	73.8	78.9	83.6	84.3	86.5	86.7	81.9	85.4
max	96.1	94.7	92.3	92.9	90.0	89.2	88.2	90.6	92.1	94.5	96.0	94.6	96.1	96.1
min	10.8	10.6	17.6	10.9	7.4	2.5	10.8	12.2	17.1	20.3	12.9	20.2	2.5	10.6
<b>Duff Moisture Code, DMC</b>														
mean	43.1	43.0	40.8	31.9	14.7	6.1	3.6	6.6	16.4	25.4	35.0	42.9	25.8	37.4
median	37.1	40.4	36.8	30.2	11.2	4.3	2.7	5.7	15.1	22.8	31.8	39.8	19.4	33.4
max	125.5	113.0	116.4	84.6	61.0	38.8	15.4	22.3	44.8	92.4	95.9	112.2	125.5	125.5
min	3.3	2.6	3.9	1.9	0.1	0.0	0.0	0.0	1.3	2.2	1.0	2.5	0.0	1.0
<b>Drought Code, DC</b>														
mean	529.5	553.4	570.2	580.3	514.0	429.8	370.9	355.0	355.6	370.8	415.3	489.4	461.6	500.6
median	522.4	545.5	561.2	575.9	495.5	410.3	381.7	351.5	335.2	360.5	420.8	500.4	440.0	488.1
max	929.7	988.6	1032.9	933.5	919.8	855.6	690.0	691.3	738.2	720.0	706.9	780.4	1032.9	1032.9
min	155.1	248.1	243.2	293.8	228.2	125.4	76.5	103.4	127.2	159.1	150.7	193.1	76.5	150.7
<b>Initial Spread Index, ISI</b>														
mean	5.1	4.2	3.5	2.5	1.4	1.0	1.2	1.7	3.2	3.9	4.9	4.6	3.1	4.1
median	4.0	3.8	2.9	1.9	1.0	0.7	0.9	1.3	2.5	2.9	4.0	4.0	1.9	3.2
max	33.2	31.6	46.7	39.5	18.4	11.2	25.0	24.1	31.0	51.5	53.0	35.6	53.0	53.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	69.8	70.5	67.5	54.9	26.8	11.5	6.8	12.4	28.6	42.1	55.9	68.4	43.1	61.2
median	62.4	67.1	63.3	52.6	21.2	8.4	5.2	11.0	26.9	38.8	52.6	65.8	34.3	56.5
max	178.7	159.4	181.6	126.7	99.0	66.8	28.4	39.9	76.1	132.8	139.4	157.1	181.6	181.6
min	6.2	5.1	7.5	3.8	0.2	0.0	0.0	0.0	2.5	4.3	1.9	4.9	0.0	1.9
<b>Fire Weather Index, FWI</b>														
mean	15.0	13.1	11.0	7.3	2.6	1.1	1.0	2.0	6.2	9.0	12.9	14.0	7.9	11.7
median	12.5	13.1	9.9	5.7	0.9	0.4	0.4	0.8	4.9	7.3	11.4	12.5	4.3	9.7
max	66.5	62.7	88.2	77.0	31.3	18.1	30.7	33.1	44.8	76.4	73.3	63.6	88.2	88.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	4.8	3.6	2.7	1.5	0.3	0.1	0.1	0.2	1.1	2.2	3.7	4.1	2.0	3.2
median	2.4	2.6	1.6	0.6	0.0	0.0	0.0	0.0	0.5	0.9	2.0	2.4	0.4	1.5
max	45.8	41.3	75.5	59.4	12.1	4.6	11.7	13.3	22.8	58.6	54.4	42.3	75.5	75.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	150.6	99.1	81.8	39.2	9.5	2.9	2.8	6.8	33.5	67.9	113.2	128.3	61.3	97.2
max	381.4	232.0	219.2	88.5	57.2	17.2	22.7	23.4	130.6	255.8	275.1	316.6	381.4	381.4
min	15.3	8.6	21.1	6.2	0.2	0.1	0.0	0.5	5.6	10.6	15.3	23.1	0.0	6.2
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													735.5	684.0
max													1484.8	1363.7
min													270.7	183.1

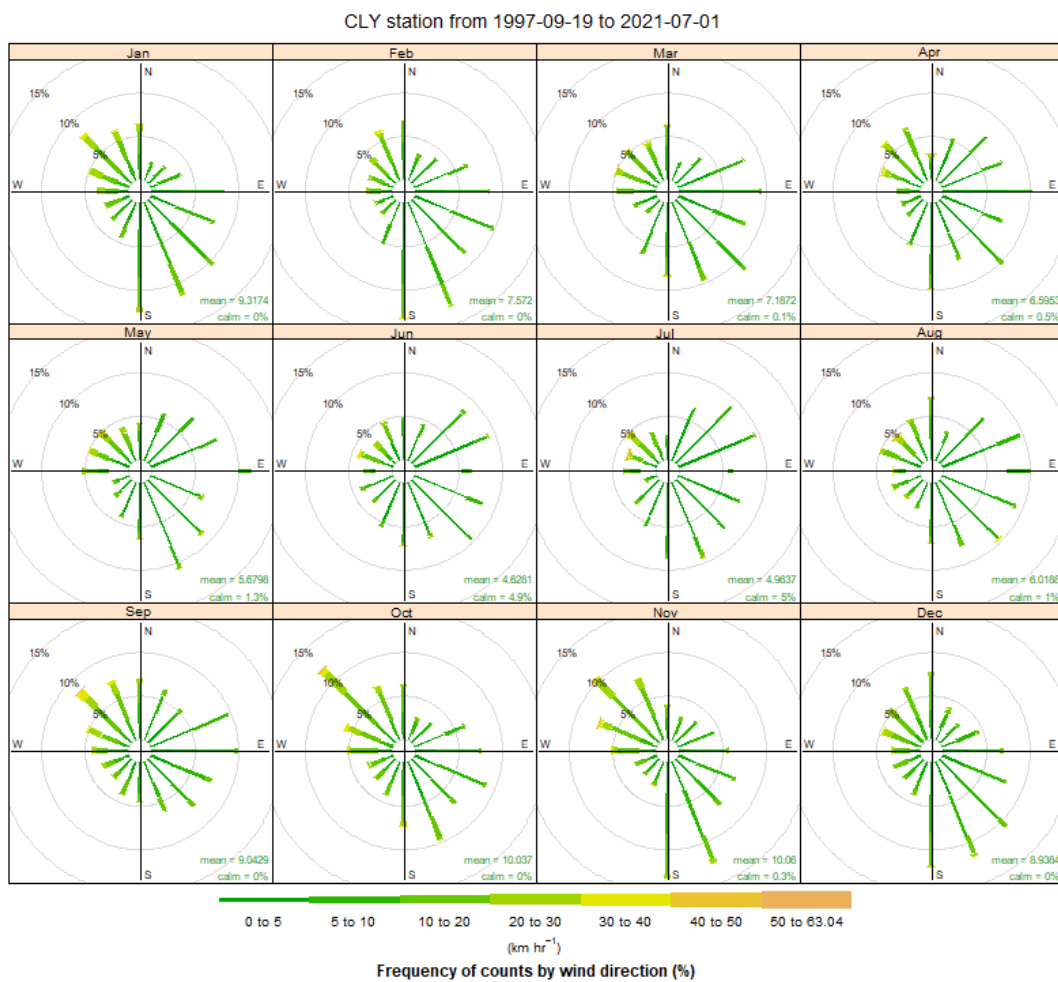
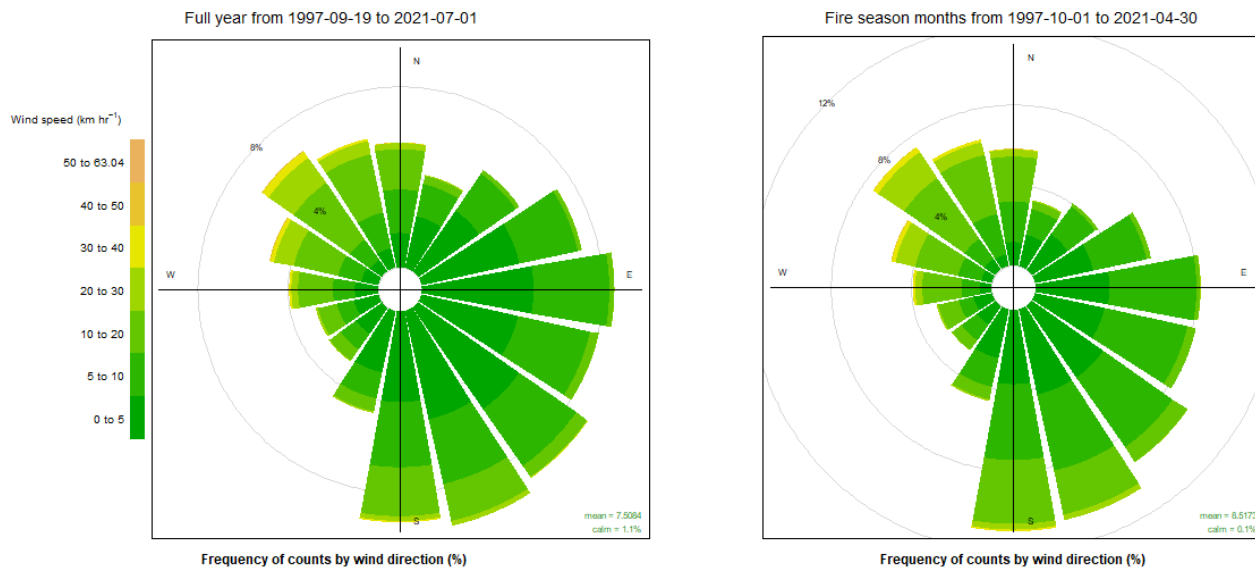
Station Name: Clyde 2 Ews (CLY)

Period: 1997-09-19 - 2021-07-01

Length of record: 23 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	7.1	7.1	8.5	12.6	25.0	28.1	30.3	27.8	14.2	11.5	7.5	6.7	186.3	60.9
max	23	23	24	24	31	30	31	31	26	26	21	18	254	106
min	1	1	0	4	8	17	25	18	2	0	0	0	119	27
<b>Moderate</b>														
mean	10.8	11.3	15.7	15.2	5.6	1.9	0.7	3.1	13.8	14.9	12.3	12.5	117.8	92.2
max	19	19	29	25	20	12	5	13	25	23	19	20	162	122
min	4	5	6	6	0	0	0	0	4	5	3	4	88	55
<b>High</b>														
mean	7.3	6.7	4.8	1.6	0.3	0.0	0.0	0.0	1.5	3.1	6.4	6.7	38.6	37.2
max	13	17	13	5	3	1	1	1	7	9	18	14	66	60
min	0	0	1	0	0	0	0	0	0	0	0	0	11	6
<b>Very High</b>														
mean	2.7	1.9	1.3	0.5	0.0	0.0	0.0	0.0	0.3	0.7	2.0	2.9	12.4	11.7
max	8	8	8	3	1	0	0	1	5	5	6	10	24	29
min	0	0	0	0	0	0	0	0	0	0	0	0	2	0
<b>Extreme</b>														
mean	1.9	1.3	0.7	0.1	0.0	0.0	0.0	0.0	0.1	0.7	1.2	1.9	7.9	7.9
max	5	6	5	1	0	0	0	0	2	6	6	7	21	20
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.4	2.3	2.2
max	5	1	1	1	0	0	0	0	0	2	4	2	13	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Otago (Inland Otago)														
Curing%	80	90	80	60	50	50	60	70	60	40	40	70		
<b>Low</b>														
mean	2.0	2.0	2.3	5.3	9.0	12.1	11.9	4.5	3.6	4.3	3.9	2.3	63.1	22.2
max	6	7	5	15	17	24	24	11	10	9	9	8	109	40
min	0	0	0	0	1	1	0	0	0	0	0	0	30	12
<b>Moderate</b>														
mean	13.8	10.8	19.8	23.7	21.6	17.7	18.7	25.1	24.5	23.3	21.2	18.0	238.3	130.2
max	26	26	28	29	29	29	28	30	29	28	26	25	287	172
min	4	2	9	14	14	6	7	19	17	19	15	8	216	103
<b>High</b>														
mean	11.6	12.7	8.0	0.9	0.4	0.3	0.3	1.3	1.8	3.0	4.6	9.7	54.7	50.7
max	20	21	21	5	3	2	2	6	9	10	13	19	85	80
min	1	1	2	0	0	0	0	0	0	0	0	1	21	13
<b>Very High</b>														
mean	2.4	2.1	0.6	0.1	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.8	6.9	6.7
max	7	7	2	2	0	0	1	1	1	1	2	4	15	15
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<b>Extreme</b>														
mean	1.1	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.3	2.4
max	6	4	1	0	0	0	0	1	0	1	1	2	7	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	1	1	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	2.5	2.7	3.1	3.9	7.4	10.3	6.3	4.8	2.9	3.6	3.2	2.7	53.3	21.5
max	6	10	7	12	15	22	13	9	9	9	8	9	89	39
min	0	0	0	0	1	0	0	1	0	0	0	0	27	10
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.3	0.2	0.3	0.2	0.0	0.0	0.0	0.0	1.1	0.2
max	1	0	1	1	1	1	3	2	0	0	0	1	4	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	3.1	3.3	3.7	6.0	12.1	12.8	16.0	9.7	4.7	4.9	3.0	3.0	82.4	27.2
max	9	7	9	15	20	23	23	17	8	13	7	7	104	41
min	0	0	0	3	4	4	7	2	1	0	0	0	55	12
<b>Very High</b>														
mean	3.3	2.6	4.0	6.7	6.3	4.0	5.1	9.0	5.0	3.2	2.5	2.8	54.3	24.8
max	8	8	11	17	18	12	15	13	12	13	7	6	74	55
min	1	0	0	3	1	0	0	3	1	0	0	0	32	11
<b>Extreme</b>														
mean	7.7	8.6	12.2	10.0	3.4	1.7	2.3	5.4	11.5	9.8	7.5	8.3	88.5	63.5
max	16	16	23	19	10	6	8	12	22	22	15	16	100	87
min	4	3	6	0	0	0	0	1	3	3	2	3	70	40
<b>Very Extreme</b>														
mean	14.4	11.1	8.0	3.4	1.6	1.0	0.9	1.9	6.0	9.6	13.8	14.1	85.6	75.0
max	24	24	20	9	8	6	3	6	13	20	25	25	131	118
min	2	0	1	1	0	0	0	0	1	2	2	4	32	24

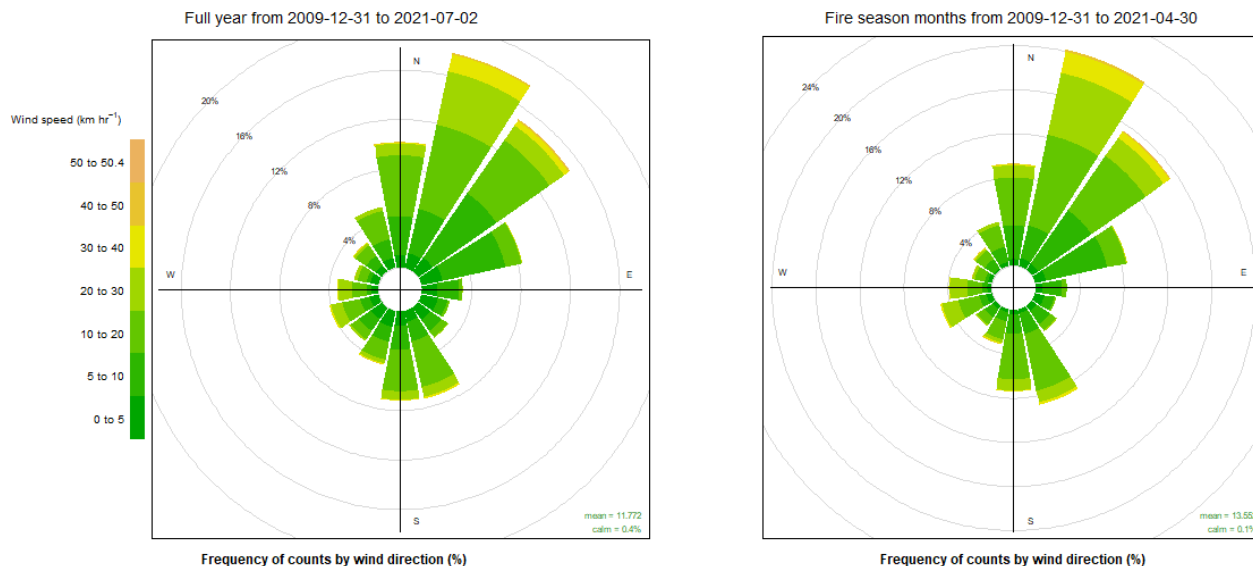
### Windroses for Clyde 2 Ews (CLY)



Station Name: Cromwell (CRM)		Period: 2009-12-31 - 2021-07-02											Length of record: 11 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	21.1	21.1	18.2	14.4	9.8	6.0	5.8	8.6	12.2	15.3	18.1	20.5	14.2	18.4
median	21.0	21.3	18.2	14.0	9.7	5.6	5.8	8.4	12.2	15.0	17.9	20.7	14.4	18.3
max	32.5	29.8	27.9	25.1	20.0	16.9	16.7	19.0	20.9	26.2	29.0	30.2	32.5	32.5
min	10.1	8.2	6.9	5.3	-0.8	-1.9	-2.8	1.8	2.5	4.6	3.7	8.9	-2.8	3.7
<b>Relative Humidity, %</b>														
mean	43.2	46.1	52.2	58.3	71.6	78.0	75.3	67.0	52.8	47.1	44.3	42.2	56.6	47.7
median	40	45	51	58	71	82	76	67	53	46	42	40	53	46
max	96	95	95	98	100	100	100	99	93	89	91	90	100	98
min	15	18	16	22	32	30	29	29	18	18	15	18	15	15
<b>Wind Speed, km/h</b>														
mean	14.4	12.5	11.9	10.6	9.1	7.6	7.5	9.4	13.0	15.3	15.2	15.1	11.8	13.6
median	12.2	10.8	10.4	9.4	7.2	5.8	5.4	7.9	11.9	13.7	13.3	13.7	10.1	11.9
max	50.4	37.1	41.4	43.2	36.0	43.9	36.4	42.5	35.6	43.9	46.1	44.6	50.4	50.4
min	0.7	1.8	0.0	0.0	0.0	0.0	0.0	0.7	2.2	1.4	1.4	2.2	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	1.5	1.7	0.9	1.0	1.5	1.1	0.9	0.6	0.9	1.1	1.2	1.0	1.1	1.2
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	47.8	60.0	23.8	30.4	47.6	34.8	35.8	16.2	27.8	29.4	27.4	45.4	60.0	60.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	39.9	49.5	30.9	30.3	44.4	33.9	28.0	17.7	26.0	32.8	36.2	29.8	33.3	35.6
max	82.6	137.4	72.2	64.0	72.4	104.6	51.2	69.8	53.2	67.0	96.8	74.4	137.4	137.4
min	9.2	8.2	11.4	5.2	3.4	6.6	5.8	3.6	12.2	6.0	9.4	6.4	3.4	5.2
<b>Seasonal Rainfall, millimetres</b>														
mean													399.4	250.4
max													543.6	337.0
min													278.2	165.8
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	84.3	84.3	81.9	79.1	69.5	66.7	70.7	76.3	79.9	82.1	83.2	85.7	78.6	82.9
median	89.0	88.5	86.5	84.5	76.1	72.8	75.8	80.6	84.6	86.5	88.1	89.3	84.1	87.4
max	95.5	94.4	94.7	93.1	89.0	88.7	88.1	88.6	93.4	94.5	94.7	95.1	95.5	95.5
min	9.8	13.4	22.4	13.8	9.4	5.8	12.4	24.5	22.2	25.8	20.2	26.9	5.8	9.8
<b>Duff Moisture Code, DMC</b>														
mean	53.2	49.2	51.0	33.4	14.9	6.6	4.0	7.9	16.6	28.4	38.6	56.0	30.1	44.4
median	43.5	46.6	50.0	31.0	10.8	3.6	3.5	7.2	16.2	26.7	33.3	51.8	22.4	38.1
max	138.0	117.1	126.6	86.1	51.4	45.0	16.1	20.0	35.2	74.7	102.8	136.0	138.0	138.0
min	3.3	6.8	3.3	3.7	0.0	0.0	0.0	0.3	1.7	5.8	4.0	6.5	0.0	3.3
<b>Drought Code, DC</b>														
mean	534.6	515.0	558.5	561.6	473.1	365.8	304.9	288.3	294.0	327.5	372.6	469.5	425.1	479.9
median	480.3	497.3	566.8	568.4	521.5	353.5	300.7	272.1	300.7	326.3	382.7	465.4	408.9	463.1
max	1014.9	925.1	811.6	834.0	778.8	632.8	538.4	452.9	493.6	607.4	648.3	807.3	1014.9	1014.9
min	283.5	266.0	222.1	256.0	236.4	140.2	72.8	97.0	117.3	147.1	178.3	205.0	72.8	147.1
<b>Initial Spread Index, ISI</b>														
mean	8.2	6.9	5.2	3.8	1.8	1.4	1.5	2.4	4.1	6.3	7.5	8.7	4.8	6.6
median	6.5	5.8	4.1	2.8	1.2	0.9	1.0	1.7	3.2	4.6	6.2	7.2	3.1	5.1
max	44.9	32.1	27.0	22.3	22.8	20.6	13.0	25.8	19.1	44.2	52.5	48.3	52.5	52.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	83.0	78.3	80.8	57.0	26.8	12.1	7.5	14.3	28.4	46.0	59.1	83.9	48.3	70.0
median	71.3	75.4	82.7	54.6	20.0	7.0	6.8	13.5	27.9	43.0	54.8	81.2	38.3	63.1
max	206.0	176.1	176.6	131.3	86.4	76.4	28.4	35.4	59.2	113.7	135.1	177.6	206.0	206.0
min	6.5	12.9	6.3	7.1	0.1	0.0	0.0	0.6	3.3	10.9	7.6	12.1	0.0	6.3
<b>Fire Weather Index, FWI</b>														
mean	22.6	20.0	16.3	10.5	3.5	1.6	1.2	3.1	7.7	13.9	18.3	24.1	11.9	17.9
median	20.7	18.7	14.8	8.3	1.7	0.4	0.5	1.6	6.9	11.5	17.1	23.8	7.4	15.9
max	80.6	62.8	61.4	57.3	31.2	26.2	17.3	36.0	35.0	68.9	61.8	73.2	80.6	80.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	9.1	7.0	5.2	2.6	0.5	0.2	0.1	0.4	1.4	3.9	6.3	9.6	3.9	6.2
median	5.8	4.8	3.2	1.2	0.1	0.0	0.0	0.1	0.8	2.0	4.2	7.4	0.9	3.6
max	64.4	41.4	39.7	35.2	12.0	8.8	4.2	15.5	14.7	48.8	40.3	54.3	64.4	64.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	301.5	200.3	156.6	70.6	14.6	6.8	2.8	12.1	42.6	122.2	189.2	296.4	118.0	191.0
max	581.2	386.2	386.5	176.3	50.5	39.4	11.0	36.3	68.3	282.5	321.5	458.8	581.2	581.2
min	96.4	91.5	31.8	15.7	2.6	0.1	0.3	0.5	17.1	63.7	40.6	95.8	0.1	15.7
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1415.6	1295.0
max													1890.4	1818.2
min													1024.9	975.5

Station Name: Cromwell (CRM)														Period: 2009-12-31 - 2021-07-02	Length of record: 11 years
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Forest Fire Danger Class (FFDC) Frequency</b>															
<b>Low</b>															
mean	3.0	3.5	6.2	8.1	23.0	27.2	29.8	24.1	10.8	5.7	5.2	3.3	149.8	36.1	
max	7	13	18	18	30	30	31	31	21	9	18	10	194	64	
min	0	0	0	1	2	16	25	16	2	0	1	0	110	22	
<b>Moderate</b>															
mean	7.9	7.1	11.2	16.2	7.3	2.5	1.2	6.7	16.9	14.5	8.5	6.0	105.9	72.5	
max	18	13	18	25	25	11	6	15	24	19	12	13	145	97	
min	3	2	2	10	1	0	0	0	8	7	3	1	69	46	
<b>High</b>															
mean	6.5	9.0	7.5	3.8	0.5	0.1	0.0	0.1	2.1	6.0	8.5	7.5	51.6	49.0	
max	10	14	17	7	3	1	0	1	5	13	11	11	67	62	
min	2	5	1	1	0	0	0	0	0	3	1	3	26	35	
<b>Very High</b>															
mean	4.5	3.6	2.9	1.3	0.1	0.2	0.0	0.1	0.1	2.8	3.0	5.7	24.4	22.5	
max	11	9	8	4	1	2	0	1	1	9	7	9	39	37	
min	1	0	0	0	0	0	0	0	0	0	1	1	12	13	
<b>Extreme</b>															
mean	6.0	3.7	2.2	0.5	0.1	0.0	0.0	0.0	0.1	1.9	3.6	5.7	23.9	23.3	
max	14	9	9	3	1	0	0	0	1	7	12	12	38	39	
min	0	1	0	0	0	0	0	0	0	0	0	2	11	12	
<b>Very Extreme</b>															
mean	3.0	1.4	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.3	2.8	9.6	9.0	
max	9	5	4	1	0	0	0	0	0	1	4	6	15	18	
min	0	0	0	0	0	0	0	0	0	0	0	0	4	4	
<b>Grass Fire Danger Class (GFDC) Frequency</b>															
Curing source Otago (Inland Otago)															
Curing%	80	90	80	60	50	50	60	70	60	40	40	70			
<b>Low</b>															
mean	1.1	0.7	1.5	3.4	6.7	8.6	6.9	2.4	2.5	2.2	2.0	0.8	38.9	12.5	
max	2	4	3	6	12	16	13	10	7	6	8	3	50	18	
min	0	0	0	0	0	2	1	0	0	0	0	0	29	8	
<b>Moderate</b>															
mean	6.5	6.1	14.3	24.2	23.4	20.6	23.8	26.3	24.4	21.0	17.7	8.5	216.7	98.2	
max	12	10	22	28	29	28	29	30	29	26	24	18	240	110	
min	1	2	3	21	18	14	18	21	20	12	9	3	194	81	
<b>High</b>															
mean	14.7	13.7	12.2	2.5	0.8	0.6	0.3	2.2	3.1	7.5	9.5	15.7	82.8	75.8	
max	20	18	18	5	2	3	2	6	7	16	17	22	100	84	
min	10	8	4	1	0	0	0	0	0	4	3	10	60	54	
<b>Very High</b>															
mean	5.5	4.5	2.0	0.0	0.1	0.1	0.0	0.1	0.0	0.4	0.6	4.6	17.9	17.5	
max	8	10	8	0	1	1	0	1	0	2	2	6	23	29	
min	1	2	0	0	0	0	0	0	0	0	0	2	12	12	
<b>Extreme</b>															
mean	3.1	3.0	1.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	1.3	8.5	8.0	
max	5	6	3	0	0	0	0	1	0	0	1	4	13	12	
min	0	1	0	0	0	0	0	0	0	0	0	0	5	2	
<b>Very Extreme</b>															
mean	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	
max	1	1	0	0	0	0	0	0	0	0	0	0	1	1	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Scrub Fire Danger Class (SFDC) Frequency</b>															
<b>Low</b>															
mean	1.6	1.6	2.6	3.0	6.5	7.6	5.5	3.1	2.6	2.3	2.3	0.9	39.7	15.0	
max	3	5	5	5	11	16	11	12	7	5	7	3	50	20	
min	0	0	0	0	0	1	0	0	0	0	1	0	31	9	
<b>Moderate</b>															
mean	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	
max	0	0	0	0	0	1	0	0	0	0	0	0	1	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>High</b>															
mean	1.2	1.5	2.5	3.3	9.2	12.8	13.9	7.5	2.4	1.8	1.7	1.8	59.7	14.5	
max	3	5	5	6	16	20	23	15	7	5	5	5	89	19	
min	0	0	1	1	4	5	10	0	0	0	0	0	37	10	
<b>Very High</b>															
mean	1.0	1.7	2.6	3.7	7.0	4.4	6.7	8.5	3.5	2.3	1.7	1.5	44.6	14.5	
max	3	4	5	9	15	8	9	15	7	6	4	3	57	22	
min	0	0	1	1	2	1	5	2	1	0	1	0	35	11	
<b>Extreme</b>															
mean	4.6	4.0	9.0	11.5	5.5	3.4	2.9	7.6	11.3	7.7	4.2	3.3	75.1	44.8	
max	11	7	16	21	12	7	5	12	15	12	6	9	95	53	
min	0	1	1	4	2	0	0	1	6	4	1	0	43	26	
<b>Very Extreme</b>															
mean	22.5	19.4	14.2	8.5	2.7	1.7	2.0	4.3	10.3	16.9	20.1	23.5	146.0	123.5	
max	30	25	28	16	5	8	7	11	17	25	25	30	171	142	
min	16	14	7	1	1	0	0	0	5	13	9	14	119	98	

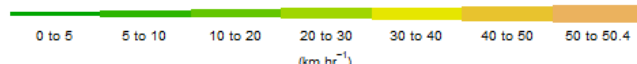
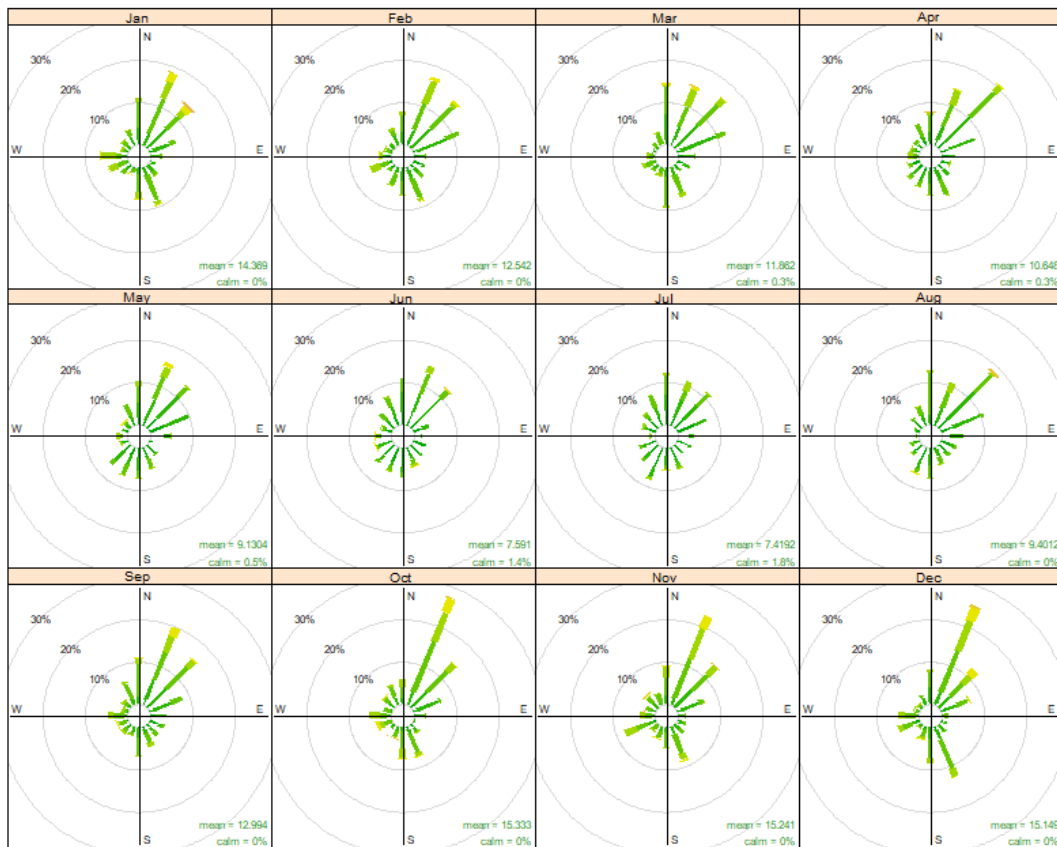
### Windroses for Cromwell (CRM)



Frequency of counts by wind direction (%)

Frequency of counts by wind direction (%)

### CRM station from 2009-12-31 to 2021-07-02



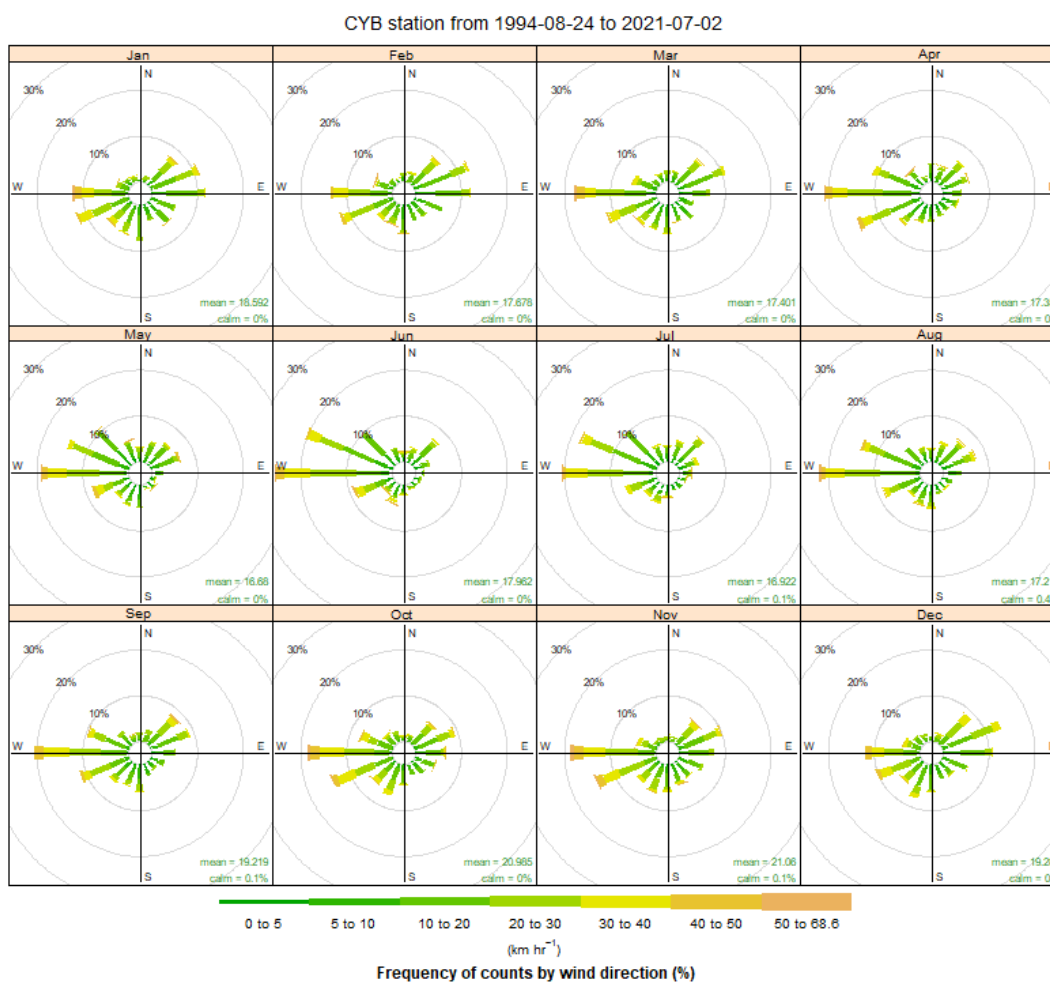
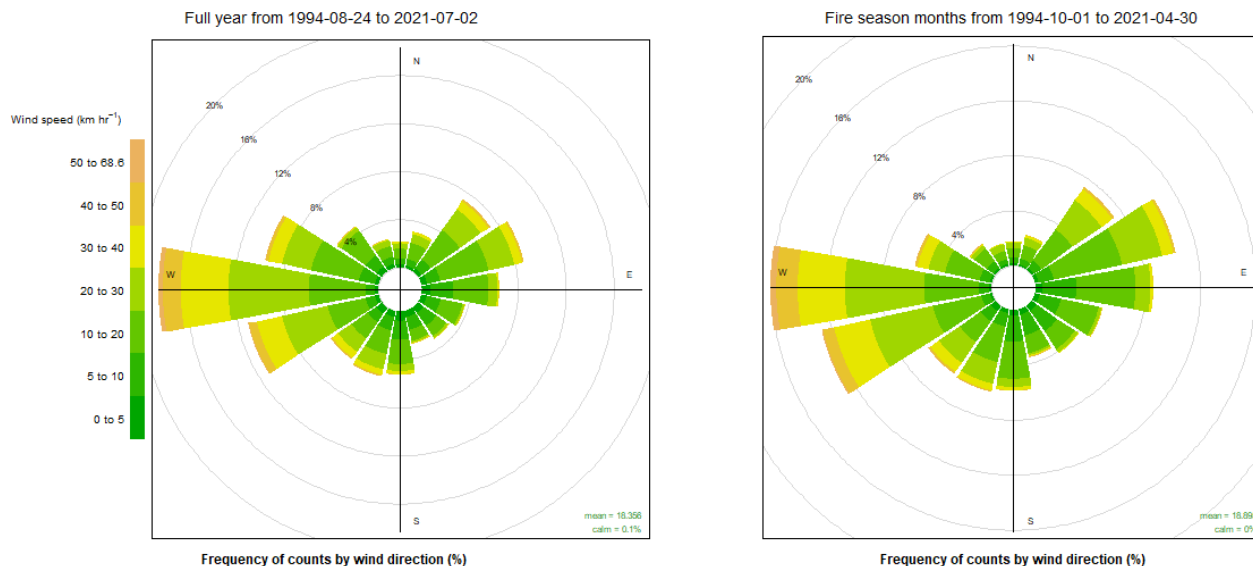
Frequency of counts by wind direction (%)

Station Name: Glenledi Raws (CYB)													Period: 1994-08-24 - 2021-07-02		Length of record: 26 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	16.5	16.7	15.5	13.0	10.7	8.1	7.8	9.0	11.2	12.5	13.6	15.5	12.5	14.8		
median	16.3	16.3	15.3	12.8	10.6	8.1	7.6	8.8	10.9	12.2	13.3	15.3	12.2	14.3		
max	31.4	33.0	28.4	23.8	22.6	17.6	23.6	19.8	25.9	26.6	27.4	31.1	33.0	33.0		
min	6.8	6.6	5.7	2.6	0.5	0.2	0.5	-0.1	-1.4	1.0	3.2	6.0	-1.4	1.0		
<b>Relative Humidity, %</b>																
mean	72.0	71.4	71.8	73.7	76.7	78.4	77.0	75.2	69.5	68.3	69.5	70.5	72.8	71.0		
median	72.0	71.4	72.0	74.0	78.0	80.0	78.0	76.0	70.0	68.8	70.0	71.0	74.0	71.3		
max	100	100	100	100	100	100	100	100	100	100	100	99	100	100		
min	20.0	32.9	29.0	29.0	33.0	39.0	35.6	35.5	28.0	25.0	26.0	29.8	20.0	20.0		
<b>Wind Speed, km/h</b>																
mean	18.7	18.0	17.3	17.3	16.9	17.9	16.8	17.6	19.6	21.3	21.2	19.8	18.5	19.1		
median	16.4	16.2	15.5	15.6	15.0	16.9	15.0	16.0	18.6	19.4	20.0	18.1	16.9	17.3		
max	56.1	68.3	58.1	60.7	67.7	51.3	53.9	57.9	68.6	61.0	64.4	59.8	68.6	68.3		
min	1.6	2.0	0.9	0.7	0.1	0.3	0.0	0.0	0.0	1.8	0.0	1.8	0.0	0.0		
<b>24-hr Rainfall, millimeters</b>																
mean	2.7	2.6	1.7	2.3	2.7	2.6	2.1	1.9	1.7	2.6	2.6	2.5	2.3	2.4		
median	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.2	0.2		
max	73.8	76.8	63.4	87.2	63.8	115.6	64.8	45.8	42.6	48.6	46.2	60.6	115.6	87.2		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	79.5	73.0	53.8	70.5	81.1	73.6	65.0	60.5	54.3	81.3	79.5	80.0	71.0	73.9		
max	190.2	207.4	111.4	227.0	185.2	264.0	185.4	131.4	138.8	202.0	228.8	172.0	264.0	228.8		
min	10.2	14.4	0.2	5.4	17.2	24.2	17.8	15.0	13.0	29.6	23.2	23.4	0.2	0.2		
<b>Seasonal Rainfall, millimetres</b>																
mean													852.0	517.5		
max													1285.6	956.0		
min													572.2	191.8		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	69.2	71.4	71.5	66.9	60.5	58.4	61.3	62.3	69.2	67.4	68.5	69.4	66.3	69.2		
median	78.0	78.4	78.3	76.2	66.4	62.5	67.1	69.3	76.2	73.2	74.6	76.2	73.5	76.6		
max	94.2	90.4	90.9	90.6	88.7	86.8	88.7	88.2	90.1	92.8	92.5	91.6	94.2	94.2		
min	5.9	2.0	5.4	5.1	2.0	5.5	2.8	4.2	9.4	0.9	9.6	3.9	0.9	0.9		
<b>Duff Moisture Code, DMC</b>																
mean	10.4	11.7	11.5	8.4	3.8	1.2	1.5	3.0	6.2	6.6	7.9	10.7	6.9	9.6		
median	8.3	9.7	8.6	5.5	2.3	0.7	1.1	1.8	4.8	5.2	6.5	8.5	4.6	7.5		
max	43.4	44.3	46.5	52.0	31.4	11.5	8.9	16.0	26.3	28.8	34.4	40.9	52.0	52.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Drought Code, DC</b>																
mean	208.2	244.5	264.4	260.9	188.7	104.5	73.1	59.4	57.6	64.0	99.9	166.4	149.2	186.2		
median	198.3	241.1	253.0	242.3	148.6	57.8	27.4	21.4	29.9	46.1	87.8	169.9	127.7	175.5		
max	582.0	703.4	734.9	746.3	775.2	724.1	397.6	269.3	271.0	237.4	307.3	400.1	775.2	746.3		
min	5.4	4.9	48.3	2.6	0.4	0.0	0.0	0.0	0.0	1.7	3.6	5.3	0.0	1.7		
<b>Initial Spread Index, ISI</b>																
mean	3.2	3.2	3.0	2.5	1.8	1.4	1.5	2.1	3.2	3.4	3.4	3.3	2.7	3.1		
median	2.2	2.3	2.1	1.7	1.1	1.0	1.2	1.3	2.2	2.0	2.2	2.4	1.7	2.1		
max	43.5	40.7	33.3	28.6	35.3	12.3	10.8	33.4	27.1	50.0	37.7	30.3	50.0	50.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	17.9	20.2	19.7	14.7	6.8	2.1	2.6	4.5	8.4	9.4	12.5	17.6	11.4	16.0		
median	14.5	17.2	15.4	10.5	4.2	1.3	1.7	2.7	6.5	7.8	10.7	14.8	7.7	12.9		
max	69.7	73.5	67.4	75.5	57.0	19.5	15.1	23.2	35.3	38.9	45.6	59.3	75.5	75.5		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Fire Weather Index, FWI</b>																
mean	4.8	5.1	4.7	3.4	1.6	0.7	0.8	1.6	3.1	3.5	4.0	4.9	3.2	4.3		
median	2.9	3.6	2.8	1.7	0.4	0.3	0.4	0.5	1.2	1.5	2.0	3.1	0.9	2.4		
max	59.8	58.0	37.8	29.3	31.1	6.9	8.7	29.5	27.3	39.4	39.4	42.9	59.8	59.8		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	0.9	0.9	0.8	0.5	0.2	0.0	0.0	0.2	0.4	0.6	0.7	0.9	0.5	0.7		
median	0.2	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.0	0.1		
max	38.0	35.9	16.9	10.7	12.0	0.8	1.2	10.8	9.5	18.2	18.2	21.1	38.0	38.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	28.8	24.9	23.9	14.0	5.9	1.1	1.4	5.2	12.2	17.1	18.0	25.9	14.9	21.8		
max	122.6	119.1	75.6	45.5	40.4	3.2	4.5	34.7	36.3	64.1	56.6	97.5	122.6	122.6		
min	5.1	1.3	1.4	0.9	0.1	0.1	0.1	0.1	1.1	0.3	2.5	3.3	0.1	0.3		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													178.4	155.4		
max													320.5	322.6		
min													48.8	48.4		

Station Name: Glenledi Raws (CYB)      Period: 1994-08-24 - 2021-07-02      Length of record: 26 years														FIRE SEASON
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	19.9	17.7	19.7	22.1	28.7	30.0	30.9	29.5	25.7	25.5	23.2	19.9	292.7	147.0
max	28	27	31	30	31	30	31	31	30	31	30	31	343	182
min	5	4	0	1	8	29	29	16	15	12	15	4	248	71
<b>Moderate</b>														
mean	9.8	9.7	10.3	7.5	2.2	0.0	0.1	1.4	4.3	5.2	6.4	9.9	67.0	59.7
max	23	20	27	28	20	1	2	14	15	18	13	22	106	125
min	3	1	0	0	0	0	0	0	0	0	0	0	22	25
<b>High</b>														
mean	1.0	0.7	0.9	0.3	0.1	0.0	0.0	0.0	0.0	0.3	0.4	0.9	4.7	4.5
max	5	4	5	4	3	0	0	1	1	2	3	8	15	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.9
max	2	1	1	1	0	0	0	0	0	0	1	2	3	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	1	2	1	0	0	0	0	0	0	0	0	1	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	1	0	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Otago (Coastal Otago)														
Curing%	60	70	60	60	30	30	30	40	50	50	40	60		
<b>Low</b>														
mean	6.8	4.1	5.5	7.8	12.8	13.6	12.2	10.9	6.2	6.7	6.6	6.9	100.0	44.3
max	12	9	12	15	25	21	22	23	14	16	11	15	129	62
min	0	0	0	0	3	7	3	1	1	1	1	2	61	17
<b>Moderate</b>														
mean	22.2	19.3	23.9	21.1	17.8	16.3	18.7	19.2	20.6	20.8	20.7	21.8	242.5	149.7
max	28	24	28	29	26	23	28	29	27	26	28	28	273	173
min	17	15	17	15	6	9	9	8	14	14	16	15	224	136
<b>High</b>														
mean	1.8	4.3	1.5	1.1	0.4	0.1	0.1	0.8	2.9	2.8	2.4	2.2	20.4	16.4
max	7	10	5	6	2	1	1	5	8	10	6	7	41	36
min	0	0	0	0	0	0	0	0	0	0	0	0	5	5
<b>Very High</b>														
mean	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.3	0.1	2.1	1.7
max	2	1	1	0	1	0	0	1	3	4	2	1	8	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.3
max	0	2	0	0	0	0	0	0	0	1	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	7.7	5.9	6.2	8.7	12.5	13.6	11.7	11.9	7.7	9.4	8.0	8.0	111.5	54.0
max	14	13	13	17	24	21	22	25	16	20	14	18	148	82
min	2	1	0	0	2	6	2	1	1	2	1	2	74	22
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	0	1	0	1	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.5	3.0	3.8	3.3	4.6	5.0	5.4	3.8	3.0	3.2	2.6	2.5	42.8	20.6
max	6	8	9	9	11	10	10	10	9	6	7	9	79	34
min	0	0	0	0	0	0	1	1	1	0	0	0	26	10
<b>Very High</b>														
mean	4.4	4.3	5.5	5.0	4.7	4.5	5.8	5.1	3.9	3.8	4.5	3.6	55.2	30.9
max	8	10	11	12	13	10	10	9	8	9	9	9	71	50
min	1	0	1	1	2	1	2	0	0	0	1	0	44	20
<b>Extreme</b>														
mean	9.2	8.3	9.2	7.8	5.8	4.8	5.7	6.7	8.6	7.0	8.0	9.3	90.3	58.6
max	13	14	14	16	12	8	14	15	14	14	14	16	111	77
min	5	2	2	2	0	1	1	2	3	2	2	3	70	42
<b>Very Extreme</b>														
mean	7.2	6.7	6.3	5.2	3.3	2.1	2.3	3.6	6.7	7.5	6.9	7.6	65.4	48.1
max	15	13	14	12	10	6	8	13	17	18	15	16	102	81
min	2	1	0	0	0	0	0	0	0	1	2	2	33	21



### Windroses for Glenledi Raws (CYB)



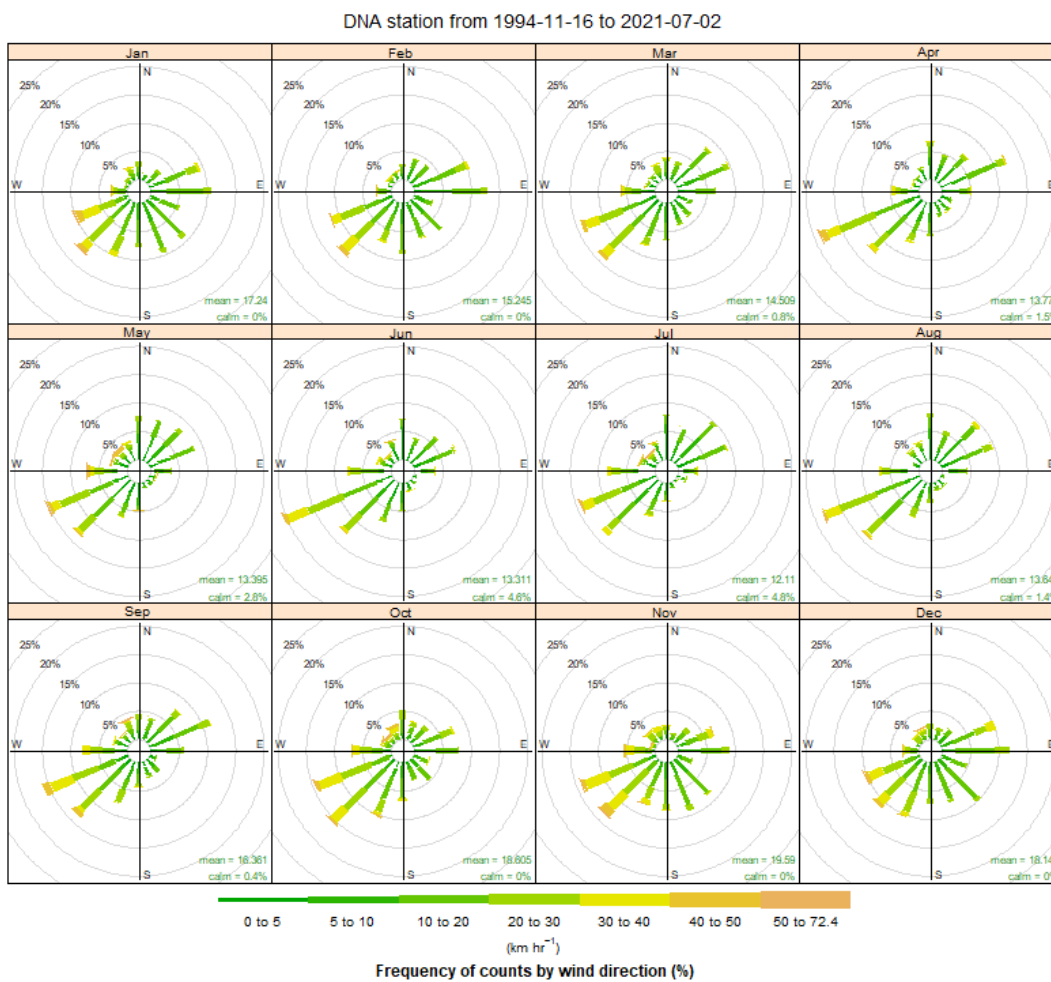
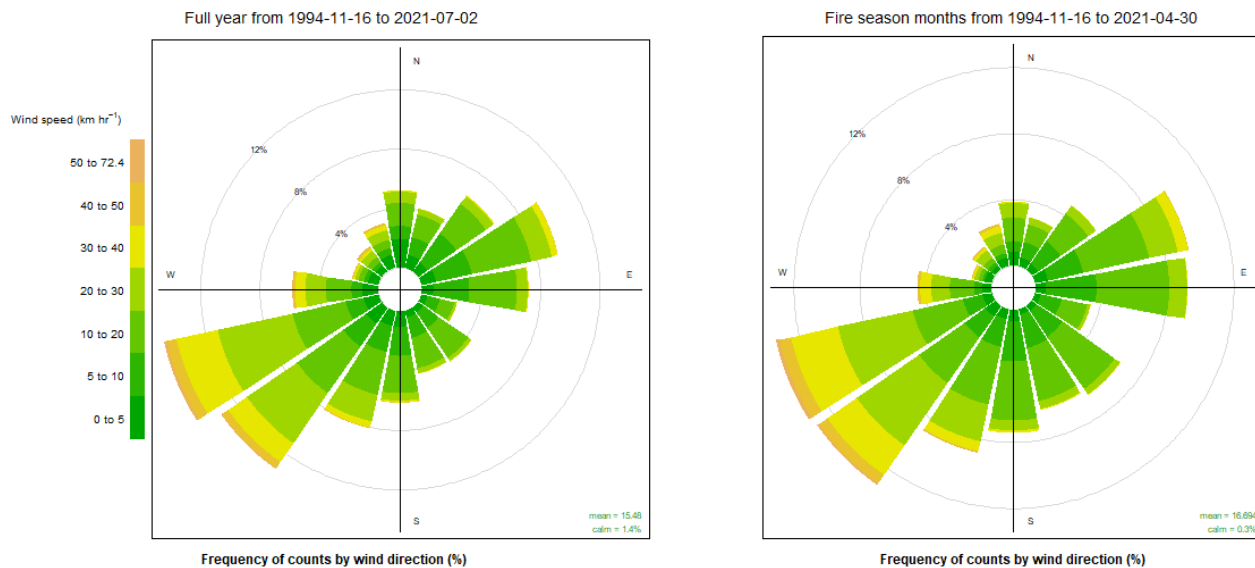
Station Name: Dunedin Aero SYNOP (DNA) Period: 1964-01-01 - 2021-07-02 Length of record: 57 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	18.4	18.4	16.9	14.1	10.7	7.9	7.4	9.6	12.2	14.1	15.6	17.3	13.5	16.4
median	18.0	18.0	16.6	14.0	10.4	8.0	7.2	9.3	12.0	14.0	15.2	17.0	13.2	16.0
max	33.0	33.0	29.3	26.6	24.3	19.0	18.0	24.0	24.0	28.4	30.0	32.6	33.0	33.0
min	7.8	7.0	7.3	3.4	-1.5	-1.6	-0.6	1.1	1.0	2.2	4.4	2.2	-1.6	2.2
<b>Relative Humidity, %</b>														
mean	62.9	63.2	64.6	67.6	73.5	76.4	76.3	70.4	63.7	61.5	61.7	62.6	67.1	63.4
median	63	63	64	68	75	76	77	71	64	61	62	62	67	63
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	12	6	24	23	29	27	18	22	12	17	17	15	6	6
<b>Wind Speed, km/h</b>														
mean	18.8	16.7	15.9	14.8	14.6	13.4	12.4	14.9	17.5	19.8	20.8	19.7	16.6	18.1
median	17.0	15.0	13.0	13.0	13.0	11.1	9.3	13.0	16.7	18.5	19.0	18.5	15.0	17.0
max	64.8	63.0	66.7	82.0	72.4	66.7	70.4	61.1	64.8	68.5	70.4	70.4	82.0	82.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	2.2	1.9	1.8	1.7	2.0	1.7	1.5	1.4	1.4	1.9	1.9	2.2	1.8	2.0
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	66.1	68.0	86.1	137.0	78.0	73.4	101.6	66.7	64.1	63.5	75.0	60.8	137.0	137.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	68.0	55.6	57.4	51.3	61.1	51.6	47.5	43.9	42.8	59.9	58.3	68.4	55.5	59.8
max	187.6	166.2	198.4	182.8	246.6	174.2	152.8	138.6	122.9	152.8	158.2	132.7	246.6	198.4
min	16.8	5.1	6.8	5.2	5.8	7.6	7.0	10.6	11.9	11.2	10.8	11.2	5.1	5.1
<b>Seasonal Rainfall, millimetres</b>														
mean													665.7	418.0
max													905.7	667.5
min													412.3	219.8
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	75.7	76.7	75.6	72.5	66.6	64.2	65.0	69.1	73.9	74.0	75.2	74.7	71.9	74.9
median	82.2	82.9	82.0	79.8	74.2	71.2	72.9	76.3	79.9	80.3	81.2	81.2	78.7	81.4
max	96.7	98.0	92.7	92.2	90.3	89.9	90.5	92.0	93.3	94.0	95.2	94.1	98.0	98.0
min	10.8	7.1	2.9	0.2	0.7	0.0	2.2	0.7	3.0	11.0	12.3	16.0	0.0	0.2
<b>Duff Moisture Code, DMC</b>														
mean	17.6	20.1	19.1	14.2	7.1	3.0	2.7	4.6	8.8	12.1	14.6	16.7	11.7	16.3
median	14.3	17.1	14.0	10.8	5.0	2.2	2.2	3.9	7.5	9.9	12.9	13.8	8.4	13.2
max	91.7	81.3	82.2	91.7	40.9	23.3	15.7	19.6	34.4	44.7	46.2	74.1	91.7	91.7
min	0.4	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	291.5	338.4	346.9	348.2	286.3	202.5	163.9	133.9	131.3	145.1	185.1	247.8	235.1	271.6
median	294.2	332.4	341.7	334.3	277.4	184.8	140.2	105.0	112.1	115.3	164.5	244.1	221.9	264.8
max	707.6	729.4	770.6	729.7	610.5	534.3	443.6	419.7	381.8	430.9	488.7	518.1	770.6	770.6
min	26.6	75.3	3.5	2.5	1.0	0.2	0.3	0.1	0.8	1.7	4.2	11.9	0.1	1.7
<b>Initial Spread Index, ISI</b>														
mean	5.0	4.6	4.1	3.1	2.3	1.8	1.8	2.5	3.9	4.6	5.1	4.8	3.6	4.5
median	3.4	3.2	2.7	2.0	1.3	1.0	1.1	1.6	2.4	2.9	3.4	3.4	2.2	2.9
max	53.7	75.8	66.5	51.8	31.5	33.4	49.7	29.6	52.0	57.1	73.2	73.8	75.8	75.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	29.6	34.1	32.4	24.9	13.0	5.7	5.0	7.7	13.7	18.5	23.1	27.3	19.5	27.1
median	24.9	30.1	25.1	19.5	9.4	4.1	3.8	6.6	11.8	15.7	21.5	23.5	14.6	22.5
max	134.9	127.1	125.7	139.5	68.7	40.9	28.3	33.4	47.5	71.0	61.6	109.2	139.5	139.5
min	0.7	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	9.0	9.1	8.1	5.5	2.8	1.4	1.2	2.4	4.7	6.5	8.0	8.4	5.6	7.8
median	6.5	6.8	5.5	3.2	0.8	0.4	0.5	0.8	2.8	4.2	6.0	6.2	2.7	5.4
max	72.9	88.9	72.4	69.3	38.2	26.4	38.4	24.1	40.6	59.7	69.9	61.7	88.9	88.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.3	2.2	1.9	1.1	0.4	0.1	0.1	0.3	0.8	1.4	1.8	2.0	1.2	1.8
median	0.7	0.8	0.6	0.2	0.0	0.0	0.0	0.0	0.2	0.3	0.6	0.7	0.2	0.5
max	53.9	76.6	53.2	49.2	17.2	8.9	17.4	7.6	19.1	37.9	50.1	40.1	76.6	76.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	70.7	62.5	59.4	31.7	13.4	4.1	3.5	8.8	24.2	42.7	54.9	61.5	36.5	54.8
max	251.8	234.1	303.9	181.9	72.0	19.2	19.6	29.5	96.6	180.4	197.3	186.8	303.9	303.9
min	13.3	6.1	3.3	1.8	0.2	0.1	0.1	0.5	1.1	6.5	8.6	9.6	0.1	1.8
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													437.4	385.3
max													919.8	853.4
min													226.8	127.3

Station Name: Dunedin Aero SYNOP (DNA) Period: 1964-01-01 - 2021-07-02 Length of record: 57 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	12.7	10.8	14.3	18.4	26.0	28.8	30.3	27.8	21.3	17.7	13.3	13.4	234.8	100.5
max	26	26	29	30	31	30	31	31	30	28	26	28	278	151
min	1	0	0	1	9	21	24	18	5	2	2	1	163	44
<b>Moderate</b>														
mean	13.1	13.0	12.6	9.8	4.5	1.2	0.6	3.2	7.9	11.0	13.6	13.3	103.8	86.3
max	23	22	24	25	15	9	7	13	23	23	26	23	154	117
min	5	2	2	0	0	0	0	0	0	3	3	3	76	57
<b>High</b>														
mean	3.5	3.2	2.8	1.3	0.4	0.0	0.0	0.0	0.7	1.8	2.5	3.0	19.3	18.2
max	12	10	13	5	7	0	1	1	8	7	9	11	45	49
min	0	0	0	0	0	0	0	0	0	0	0	0	4	3
<b>Very High</b>														
mean	1.0	0.7	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.4	0.5	0.8	4.4	4.4
max	5	6	5	6	2	0	0	0	1	7	3	4	15	13
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.6	0.4	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	2.5	2.5
max	5	5	5	4	0	0	0	0	2	2	3	3	12	13
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
max	3	3	4	1	0	0	0	0	0	0	1	1	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Otago (Coastal Otago)														
Curing%	60	70	60	60	30	30	30	40	50	50	40	60		
<b>Low</b>														
mean	3.9	2.7	4.4	5.9	10.7	12.6	12.5	7.6	4.1	4.1	3.6	4.3	76.3	28.9
max	11	8	12	15	22	22	25	16	10	12	11	10	102	47
min	0	0	0	0	1	2	3	0	0	0	0	0	50	10
<b>Moderate</b>														
mean	21.9	17.9	23.0	21.8	19.2	16.8	18.0	21.8	21.5	20.9	21.2	22.1	246.1	148.8
max	28	26	28	29	26	27	28	29	29	28	27	27	273	166
min	16	11	17	15	9	8	6	13	15	15	15	16	195	125
<b>High</b>														
mean	4.7	6.3	3.4	2.2	1.1	0.6	0.5	1.5	3.9	5.0	4.5	4.3	37.9	30.3
max	13	13	12	8	6	4	4	8	11	12	11	13	70	57
min	0	1	0	0	0	0	0	0	0	0	1	0	22	13
<b>Very High</b>														
mean	0.5	1.1	0.3	0.1	0.0	0.0	0.0	0.1	0.5	0.8	0.7	0.4	4.4	3.7
max	3	3	2	2	1	1	1	1	3	5	5	3	12	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.7	0.6
max	0	2	1	0	0	0	0	0	1	2	2	1	4	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	4.7	3.8	4.7	5.8	8.9	9.9	9.3	7.4	4.9	5.4	4.7	5.5	75.1	34.8
max	13	9	12	15	23	20	21	17	15	12	12	13	100	53
min	0	0	0	0	0	1	2	0	0	0	0	0	46	17
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.1	0.1	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.9	0.2
max	1	0	1	1	2	3	2	1	1	0	1	1	5	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.2	2.2	3.1	4.4	6.5	7.4	8.6	5.4	3.5	2.6	1.6	2.2	49.5	18.1
max	6	9	12	9	16	16	19	13	11	8	5	7	71	31
min	0	0	0	0	1	0	1	2	0	0	0	0	33	7
<b>Very High</b>														
mean	3.3	3.5	4.6	5.2	5.1	4.8	5.7	6.1	4.9	3.9	3.5	3.1	53.7	27.1
max	8	9	9	12	13	10	11	13	9	9	9	8	74	40
min	0	0	0	0	2	1	0	0	1	0	0	0	37	14
<b>Extreme</b>														
mean	8.0	8.3	8.5	7.8	5.9	4.6	4.3	6.9	8.1	8.2	8.1	7.6	86.3	56.6
max	15	17	14	14	11	11	11	12	15	16	15	13	108	74
min	2	3	2	2	0	0	0	1	2	2	2	2	56	36
<b>Very Extreme</b>														
mean	12.8	10.4	10.0	6.9	4.4	3.1	2.9	5.1	8.6	10.9	12.0	12.7	99.7	75.5
max	25	20	20	13	13	9	12	15	18	22	24	24	151	113
min	4	2	2	1	0	0	0	0	1	4	4	3	63	43

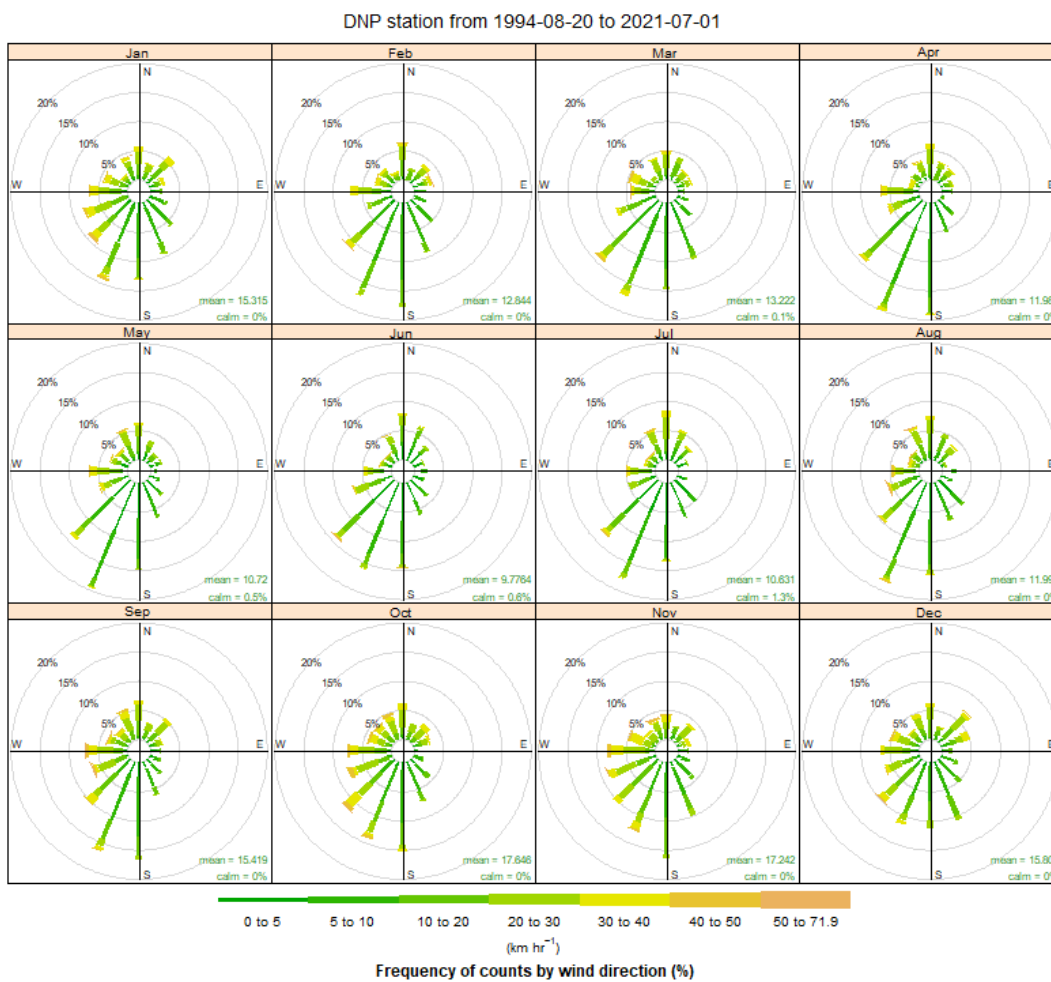
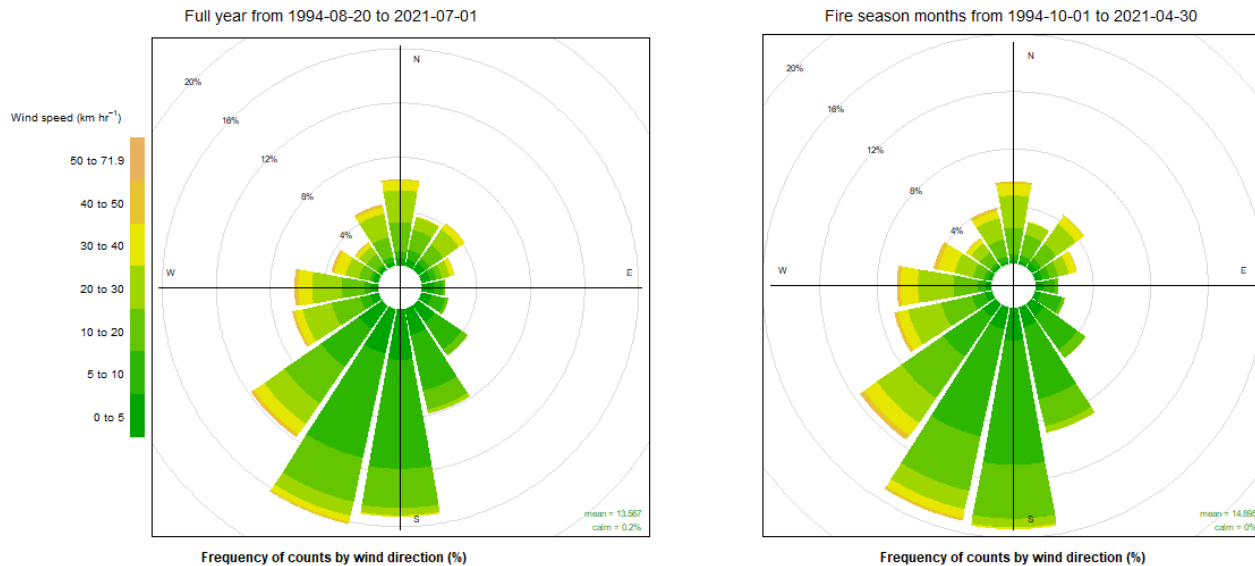
Windroses for Dunedin Aero SYNOP (DNA)



Station Name: Dansey Pass Raws (DNP)													Period: 1994-08-20 - 2021-07-01		Length of record: 26 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	19.2	19.1	17.0	13.3	10.4	7.0	6.4	8.4	11.2	13.2	15.3	17.8	13.2	16.4		
median	19.3	19.2	17.1	13.2	10.2	6.6	6.1	8.4	11.5	13.4	15.2	17.9	12.9	16.4		
max	33.6	32.6	30.3	23.8	21.6	19.0	17.2	17.8	23.4	24.2	27.2	28.6	33.6	33.6		
min	3.6	5.1	3.8	0.3	-0.1	-1.1	-7.2	-2.4	0.2	-0.9	2.3	6.3	-7.2	-0.9		
<b>Relative Humidity, %</b>																
mean	49.2	50.6	52.6	58.7	63.0	67.5	65.5	60.9	52.0	50.5	49.0	48.8	55.7	51.3		
median	47.7	49.0	51.0	58.0	63.0	68.0	66.0	61.0	49.0	48.0	47.0	47.1	54.0	50.0		
max	99	97	99	99	99	100	100	100	99	99	97	96	100	99		
min	9.0	9.1	12.6	14.3	17.0	24.6	23.0	11.6	9.0	11.0	14.0	12.0	9.0	9.0		
<b>Wind Speed, km/h</b>																
mean	15.5	13.1	13.1	11.8	10.8	9.9	10.4	12.1	15.9	17.6	17.3	16.2	13.7	15.0		
median	12.0	9.5	9.0	8.1	6.8	6.4	6.5	8.2	13.4	15.3	15.1	14.0	9.9	11.4		
max	56.5	52.7	56.3	47.1	46.3	62.8	68.9	71.9	68.4	51.2	58.8	54.6	71.9	58.8		
min	0.1	1.6	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.1	2.0	1.0	0.0	0.0		
<b>24-hr Rainfall, millimetres</b>																
mean	2.1	1.7	1.5	1.5	1.6	1.4	1.3	1.1	1.2	1.6	1.8	2.0	1.6	1.7		
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
max	105.2	52.6	42.0	61.4	51.8	33.8	46.8	26.0	39.2	58.6	53.2	47.6	105.2	105.2		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	58.5	49.9	46.6	45.8	48.9	43.2	39.7	33.5	34.8	50.8	54.6	61.8	47.4	52.6		
max	151.6	144.8	128.8	117.6	138.8	107.2	147.4	80.0	74.2	125.8	192.0	124.6	192.0	192.0		
min	4.6	3.6	4.4	12.2	8.6	2.2	7.2	4.2	7.4	22.8	4.2	4.6	2.2	3.6		
<b>Seasonal Rainfall, millimetres</b>																
mean													568.3	368.7		
max													840.6	535.8		
min													371.8	215.0		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	79.7	80.0	79.5	75.2	69.9	66.9	69.7	72.2	77.5	77.4	78.4	79.1	75.5	78.5		
median	86.5	86.6	85.4	82.5	79.9	74.9	77.2	79.8	84.2	83.8	85.2	86.0	82.8	85.2		
max	97.4	96.7	95.6	94.2	91.9	91.4	90.1	93.4	96.4	95.4	95.6	96.4	97.4	97.4		
min	6.3	12.3	14.2	4.9	1.8	7.9	0.7	5.7	16.4	19.5	6.1	21.0	0.7	4.9		
<b>Duff Moisture Code, DMC</b>																
mean	29.9	32.3	29.7	23.6	14.1	6.2	4.6	7.1	14.8	17.9	23.3	27.3	19.2	26.2		
median	23.4	29.2	23.0	19.0	10.3	4.3	3.8	6.1	12.3	16.9	19.9	24.9	14.1	21.7		
max	147.0	123.3	115.2	120.8	72.8	43.8	18.5	28.2	65.6	66.3	91.5	116.4	147.0	147.0		
min	0.6	3.4	2.1	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.9	0.8	0.0	0.6		
<b>Drought Code, DC</b>																
mean	315.1	360.9	375.9	383.6	325.4	246.5	198.9	164.4	157.5	168.4	207.2	273.2	264.6	297.0		
median	298.8	348.2	380.4	371.0	309.2	232.7	170.8	153.1	130.7	163.5	210.7	268.9	255.2	286.9		
max	676.7	639.5	713.8	671.9	636.2	599.5	460.0	418.2	387.3	342.3	421.4	571.7	713.8	713.8		
min	6.0	105.4	67.5	55.2	50.2	11.6	1.3	1.0	0.3	2.0	2.9	38.9	0.3	2.0		
<b>Initial Spread Index, ISI</b>																
mean	7.6	6.5	5.9	3.9	3.0	2.1	2.4	3.4	5.8	6.3	7.2	7.1	5.1	6.4		
median	4.6	4.3	3.7	2.4	1.8	1.2	1.4	1.8	3.5	3.7	4.5	4.4	2.8	3.8		
max	62.7	72.3	58.1	56.1	37.2	34.3	48.0	46.4	69.6	71.7	70.8	60.0	72.3	72.3		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	46.7	51.0	47.8	39.1	24.2	11.3	8.3	11.9	21.8	26.3	34.1	41.8	30.3	40.9		
median	38.9	47.5	39.7	34.0	18.8	8.1	7.0	10.6	19.1	25.3	31.5	39.4	23.7	34.9		
max	186.3	162.4	155.6	162.5	104.4	72.9	28.1	40.8	78.4	81.4	118.6	154.2	186.3	186.3		
min	1.1	6.7	3.9	1.2	0.0	0.0	0.0	0.0	0.0	0.9	1.3	1.5	0.0	0.9		
<b>Fire Weather Index, FWI</b>																
mean	16.0	14.8	13.3	8.7	5.2	2.4	2.3	4.0	8.5	10.0	13.1	14.2	9.4	12.9		
median	10.6	11.3	9.2	5.5	2.7	0.6	0.7	1.6	6.0	7.3	9.8	10.6	4.9	8.8		
max	102.8	117.8	96.0	103.6	45.7	43.2	36.5	39.9	86.0	73.6	109.2	90.3	117.8	117.8		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	6.2	5.2	4.4	2.4	1.1	0.4	0.3	0.7	2.1	2.7	4.4	4.9	2.9	4.3		
median	1.8	2.0	1.4	0.6	0.2	0.0	0.0	0.1	0.6	0.9	1.6	1.8	0.5	1.3		
max	99.1	126.1	87.8	100.3	23.6	21.4	15.9	18.5	72.2	54.8	110.2	78.7	126.1	126.1		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	199.3	151.4	136.9	70.5	32.4	11.3	9.1	21.3	64.0	82.4	123.6	148.4	87.6	130.4		
max	711.1	625.1	427.8	497.0	156.9	42.7	29.3	101.9	240.5	257.5	644.7	605.0	711.1	711.1		
min	22.4	40.0	19.1	7.5	0.4	0.4	0.2	0.3	14.6	11.5	26.6	20.4	0.2	7.5		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													1050.7	917.1		
max													2230.2	2003.9		
min													485.2	373.7		

Station Name: Dansey Pass Raws (DNP)      Period: 1994-08-20 - 2021-07-01      Length of record: 26 years														FIRE SEASON
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	9.0	7.7	9.8	14.2	19.7	25.8	27.6	24.3	13.9	13.1	9.6	9.7	184.2	71.7
max	22	15	23	26	31	30	31	31	23	29	22	22	246	102
min	1	0	0	3	5	14	18	11	1	5	0	0	129	35
<b>Moderate</b>														
mean	10.2	10.3	10.9	11.5	9.3	3.9	3.4	5.8	12.3	12.3	12.5	10.3	112.9	78.9
max	19	16	23	26	20	14	13	13	22	20	23	17	149	115
min	3	4	2	1	0	0	0	0	7	2	5	3	75	52
<b>High</b>														
mean	4.7	5.1	5.3	2.1	1.3	0.2	0.0	0.8	2.8	3.7	3.9	6.1	36.0	31.4
max	14	10	14	8	6	2	1	8	9	11	9	12	50	45
min	0	1	1	0	0	0	0	0	0	0	0	1	24	13
<b>Very High</b>														
mean	2.5	2.2	2.1	0.8	0.4	0.0	0.0	0.1	0.7	1.4	2.0	2.2	14.5	13.2
max	7	6	8	5	3	0	0	2	4	4	6	5	32	28
min	0	0	0	0	0	0	0	0	0	0	0	0	2	1
<b>Extreme</b>														
mean	2.5	2.0	2.0	1.0	0.3	0.0	0.0	0.0	0.3	0.5	1.7	1.8	12.3	11.9
max	11	9	7	8	5	1	0	0	5	5	8	10	39	33
min	0	0	0	0	0	0	0	0	0	0	0	0	2	1
<b>Very Extreme</b>														
mean	2.1	1.0	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9	5.4	5.2
max	15	10	7	5	0	0	0	0	1	0	6	9	20	24
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Otago (Inland Otago)														
Curing%	80	90	80	60	50	50	60	70	60	40	40	70		
<b>Low</b>														
mean	2.3	2.2	2.8	5.6	7.8	8.5	8.9	5.8	4.3	4.3	4.3	3.1	60.0	24.5
max	8	6	6	12	19	18	26	13	8	14	8	8	81	40
min	0	0	0	2	2	0	1	0	0	1	0	0	42	12
<b>Moderate</b>														
mean	11.7	9.2	13.7	20.9	19.4	19.6	20.4	19.7	19.0	19.0	16.8	13.9	203.2	105.0
max	22	16	22	27	27	28	28	28	26	25	24	22	241	127
min	2	1	3	15	12	12	5	12	13	11	10	4	173	75
<b>High</b>														
mean	9.5	9.6	9.2	3.0	3.5	1.7	1.7	4.4	5.8	6.4	7.4	9.7	72.0	55.2
max	19	18	19	11	8	6	5	10	14	11	13	16	89	77
min	2	5	3	0	0	0	0	0	1	2	1	0	49	38
<b>Very High</b>														
mean	3.5	3.7	2.9	0.4	0.3	0.2	0.0	0.9	0.8	1.3	1.3	2.8	18.2	16.3
max	10	8	6	2	3	1	1	7	3	4	6	8	32	28
min	0	1	0	0	0	0	0	0	0	0	0	0	9	8
<b>Extreme</b>														
mean	3.6	2.9	2.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1	1.6	10.7	10.1
max	10	7	7	1	0	0	0	2	1	1	2	6	21	21
min	0	0	0	0	0	0	0	0	0	0	0	0	3	2
<b>Very Extreme</b>														
mean	0.4	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.1
max	3	2	2	0	0	0	0	0	0	0	0	0	6	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.8	3.5	3.7	5.0	7.9	8.6	7.4	6.8	4.3	4.3	4.2	4.0	63.4	28.1
max	10	7	8	13	20	19	24	15	9	10	8	10	84	43
min	0	0	0	1	2	0	0	0	0	1	0	0	45	15
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.1
max	0	1	0	1	0	1	2	0	1	0	0	0	2	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.2	2.4	2.7	4.4	4.3	7.0	7.0	5.0	2.3	3.5	2.6	3.1	46.5	20.4
max	6	6	6	10	12	15	13	10	7	9	7	6	65	29
min	0	0	0	1	1	3	2	0	0	0	0	0	36	8
<b>Very High</b>														
mean	2.8	2.3	3.1	4.4	4.9	5.5	5.5	5.5	3.5	3.0	1.8	2.2	44.6	19.5
max	9	5	7	15	13	11	11	9	7	6	6	6	61	35
min	0	0	0	0	0	0	0	3	0	0	0	0	30	9
<b>Extreme</b>														
mean	5.6	5.6	7.6	8.3	7.7	4.9	6.5	6.8	7.5	6.4	6.0	5.9	78.7	45.6
max	13	9	16	21	16	13	14	12	12	13	10	10	106	70
min	1	1	2	1	1	1	1	2	3	2	3	2	60	32
<b>Very Extreme</b>														
mean	16.6	14.4	13.9	8.0	6.2	3.9	4.5	6.8	12.3	13.8	15.4	15.8	131.8	98.6
max	28	27	27	24	17	9	11	17	22	21	25	27	165	141
min	6	7	5	3	0	0	0	0	6	7	9	3	99	79

Windroses for Dansey Pass Raws (DNP)

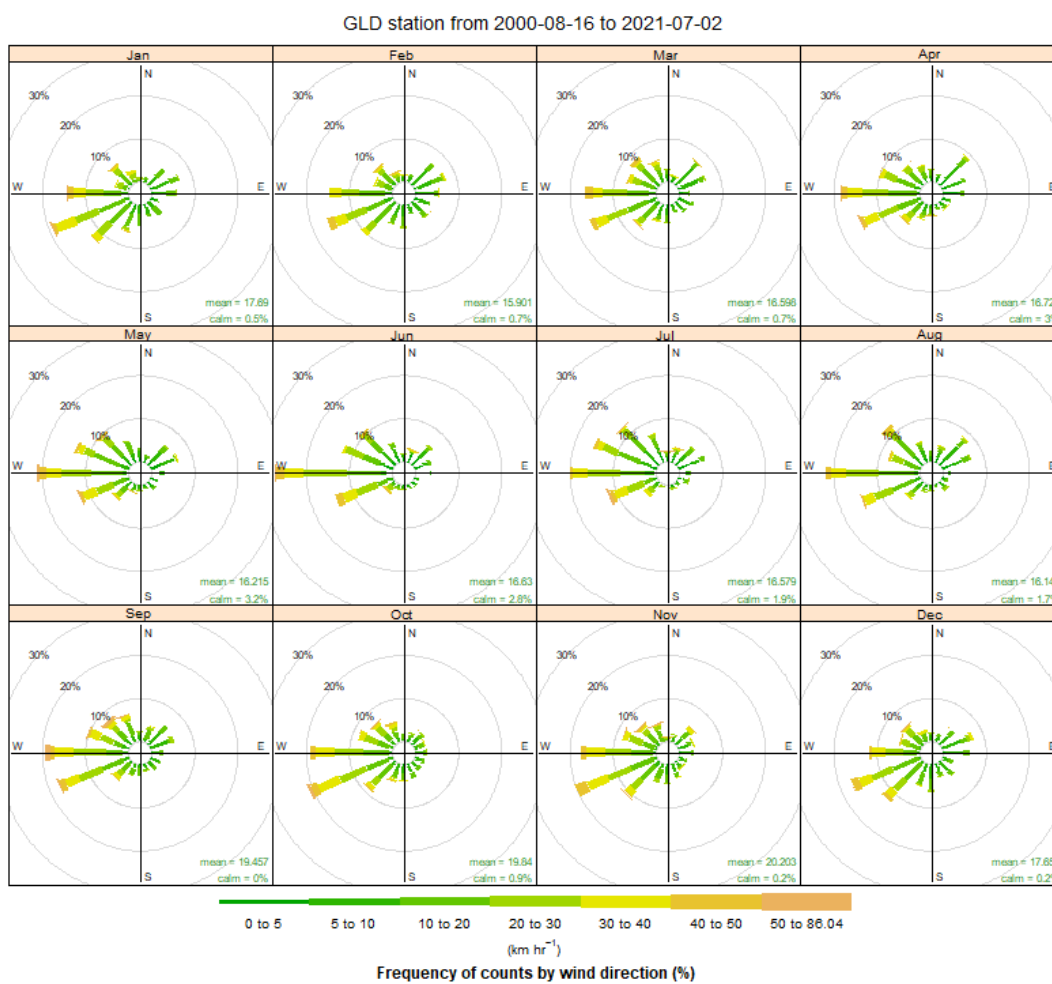
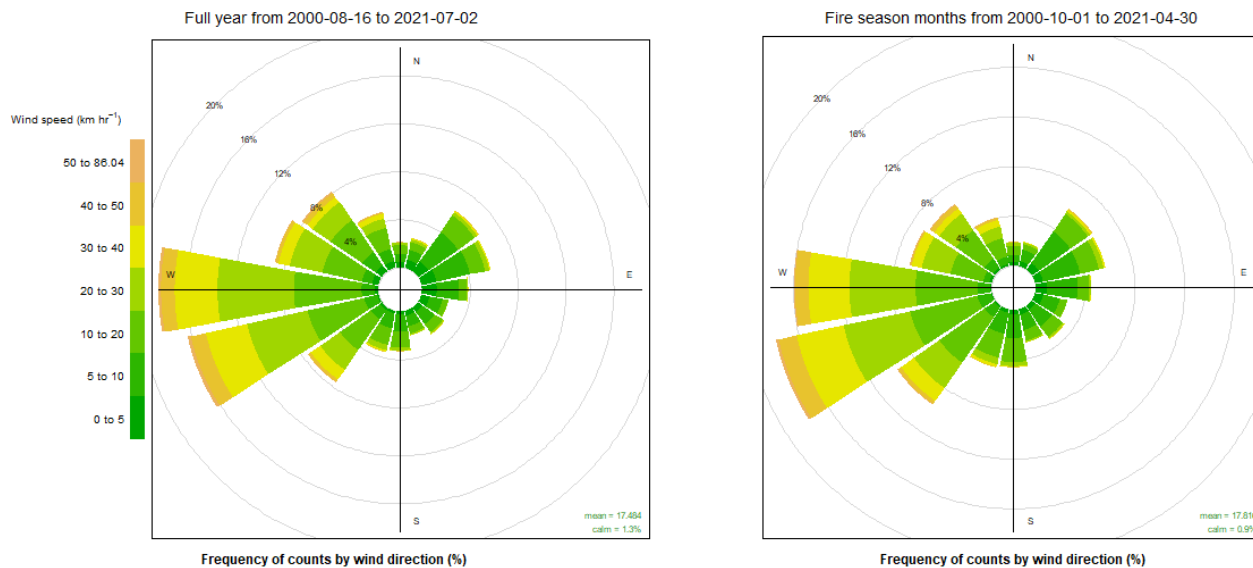


Station Name: Glendhu Raws (GLD)		Period: 2000-08-16 - 2021-07-02											Length of record: 20 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	16.0	15.8	14.4	11.3	8.6	6.1	5.4	6.6	8.9	11.1	13.1	15.2	11.0	13.8
median	16.2	15.8	14.3	11.3	8.7	6.2	5.6	6.6	9.4	11.2	13.2	15.6	10.8	13.8
max	30.2	29.6	32.6	22.8	23.1	17.3	18.0	21.1	23.7	27.8	29.0	28.4	32.6	32.6
min	3.8	2.0	-0.4	-9.9	-2.9	-5.0	-7.4	-6.4	-8.8	-7.4	0.1	-2.7	-9.9	-9.9
<b>Relative Humidity, %</b>														
mean	62.9	64.4	64.6	69.6	72.7	72.6	70.0	69.3	63.3	62.7	62.0	62.2	66.3	64.0
median	61.0	61.0	62.1	69.0	73.0	74.0	69.0	68.0	61.0	62.0	62.0	60.0	65.0	62.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	20	19	22	22	23	19	13	16	16	12	16	13	12	12
<b>Wind Speed, km/h</b>														
mean	17.7	16.2	16.6	16.7	16.4	17.0	16.5	16.2	20.0	19.7	20.4	18.0	17.6	17.9
median	14.8	13.7	14.4	15.0	13.8	15.4	14.4	13.9	18.0	17.3	18.5	15.0	15.4	15.5
max	65.8	48.2	52.2	71.3	57.3	55.2	70.2	56.5	86.0	77.4	58.7	63.0	86.0	77.4
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	3.9	3.9	2.8	3.4	3.9	3.4	2.9	2.8	2.9	4.0	3.8	3.8	3.4	3.6
median	0.4	0.2	0.2	0.2	0.4	0.8	0.2	0.2	0.2	0.6	0.4	0.4	0.4	0.2
max	70.0	70.0	44.8	112.8	65.6	77.6	74.2	34.0	47.4	58.6	79.4	60.8	112.8	112.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	113.8	111.7	88.5	103.9	119.9	100.4	89.0	81.7	87.5	123.5	111.1	119.9	104.2	110.3
max	239.0	226.2	169.4	196.4	259.6	233.0	226.6	126.6	140.6	182.4	261.0	295.6	295.6	295.6
min	51.4	54.8	22.4	42.2	22.8	33.6	34.8	33.6	21.8	50.4	30.6	29.8	21.8	22.4
<b>Seasonal Rainfall, millimetres</b>														
mean													1250.9	771.1
max													1514.4	904.8
min													1012.2	495.4
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	66.8	67.2	67.2	60.3	53.3	52.0	56.2	57.8	62.3	61.2	66.0	67.0	61.4	65.1
median	75.1	75.2	75.5	68.4	57.5	55.7	61.5	64.6	72.6	65.8	73.2	75.7	68.9	73.1
max	93.4	93.3	94.1	91.5	90.3	91.0	91.3	90.7	92.4	94.6	93.9	95.3	95.3	95.3
min	2.9	3.6	3.6	2.8	2.1	1.1	1.5	2.5	1.4	3.8	7.8	4.9	1.1	2.8
<b>Duff Moisture Code, DMC</b>														
mean	10.2	9.7	9.4	5.1	2.6	1.2	1.2	2.3	4.6	4.7	7.1	10.7	5.7	8.1
median	7.8	7.7	6.6	4.3	1.5	0.6	0.7	1.3	3.0	3.5	5.4	8.6	3.5	6.1
max	44.1	38.6	37.4	27.3	15.4	18.1	8.0	14.6	24.3	21.2	30.1	48.2	48.2	48.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	96.7	109.5	103.7	88.1	39.7	12.1	3.7	6.2	9.2	13.7	35.4	74.4	49.3	74.2
median	94.3	107.1	90.6	72.2	11.2	2.6	2.1	3.0	5.3	9.0	26.4	67.3	19.9	57.5
max	275.7	327.3	344.2	308.5	211.8	120.4	29.7	51.2	45.2	80.3	176.3	264.1	344.2	344.2
min	4.7	4.0	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.4	2.4	2.9	0.0	0.4
<b>Initial Spread Index, ISI</b>														
mean	3.7	3.2	3.3	2.3	1.7	1.3	1.6	1.9	3.3	3.3	3.8	3.7	2.8	3.3
median	1.9	1.8	1.7	1.2	0.7	0.5	0.8	1.0	1.6	1.2	1.8	1.9	1.3	1.7
max	59.9	40.7	39.1	36.1	20.9	16.2	26.4	23.9	41.3	78.3	40.3	48.1	78.3	78.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	15.2	15.0	14.6	8.3	3.8	1.4	1.3	2.4	4.5	5.1	9.0	14.8	7.9	11.7
median	12.2	12.6	10.8	7.1	2.0	0.7	0.7	1.3	3.0	3.6	6.8	12.6	4.5	8.8
max	62.1	59.7	56.0	39.5	23.4	25.1	8.4	14.6	24.1	23.3	33.4	62.0	62.1	62.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	5.1	4.4	4.4	2.5	1.3	0.6	0.7	1.1	2.6	2.7	3.8	5.1	2.9	4.0
median	2.1	1.6	1.4	0.6	0.2	0.1	0.2	0.3	0.6	0.5	0.9	2.0	0.6	0.9
max	67.2	45.3	44.5	34.0	22.6	16.5	17.1	15.4	32.2	46.6	37.2	48.7	67.2	67.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.1	0.8	0.9	0.3	0.1	0.0	0.1	0.1	0.4	0.5	0.6	1.0	0.5	0.8
median	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
max	46.6	23.3	22.5	14.0	6.8	3.9	4.1	3.4	12.7	24.4	16.4	26.4	46.6	46.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	35.4	22.4	24.8	9.4	4.2	1.1	1.7	2.9	11.2	14.9	19.3	31.1	14.9	22.5
max	116.3	77.7	69.4	33.8	28.4	10.0	9.3	8.7	41.0	59.7	54.7	119.6	119.6	119.6
min	3.1	1.4	0.7	2.1	0.0	0.0	0.1	0.0	0.1	0.4	2.9	0.5	0.0	0.4
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													178.6	161.3
max													368.7	318.7
min													58.9	36.0



Station Name: Glendhu Raws (GLD)      Period: 2000-08-16 - 2021-07-02      Length of record: 20 years														FIRE SEASON
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	20.6	20.1	22.9	26.0	29.8	29.9	31.0	30.8	27.4	28.0	23.5	20.8	310.6	161.1
max	30	29	31	30	31	30	31	31	30	31	30	31	341	195
min	13	5	9	12	20	27	31	27	17	23	13	7	281	100
<b>Moderate</b>														
mean	8.3	6.9	6.7	3.9	1.2	0.1	0.0	0.2	2.5	2.9	6.4	8.7	48.0	44.2
max	17	18	18	18	11	3	0	4	11	7	17	18	71	89
min	1	0	0	0	0	0	0	0	0	0	0	0	24	17
<b>High</b>														
mean	1.8	0.9	1.4	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	1.2	5.7	5.7
max	7	5	6	1	0	0	0	0	2	1	1	7	14	20
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.0
max	2	3	1	0	0	0	0	0	0	0	1	3	5	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	2	0	0	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Otago (Coastal Otago)														
Curing%	60	70	60	60	30	30	30	40	50	50	40	60		
<b>Low</b>														
mean	8.8	6.9	9.3	11.9	16.6	17.0	15.7	13.4	10.5	11.7	8.3	9.7	139.9	66.2
max	17	12	21	25	30	24	23	23	24	18	15	22	185	96
min	2	1	1	3	2	10	5	5	2	5	1	3	96	37
<b>Moderate</b>														
mean	18.4	16.7	18.6	16.9	13.8	12.9	14.7	16.6	15.6	15.9	17.4	17.3	194.8	121.0
max	23	22	26	24	27	20	21	25	26	25	29	22	217	149
min	13	12	10	5	1	6	8	8	5	10	11	9	159	103
<b>High</b>														
mean	3.3	4.0	2.8	1.2	0.7	0.0	0.6	1.0	3.4	2.6	3.8	3.7	27.0	22.0
max	8	9	7	3	5	1	5	5	10	6	9	9	45	35
min	0	0	0	0	0	0	0	0	0	0	0	0	11	6
<b>Very High</b>														
mean	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.5	0.3	2.9	2.4
max	2	1	1	1	0	0	0	1	2	4	4	2	8	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.7	0.6
max	1	2	0	0	0	0	0	0	1	1	0	0	2	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	9.5	8.8	9.8	12.7	16.4	16.6	14.9	14.0	11.6	13.7	9.9	10.3	148.2	74.5
max	17	15	17	25	31	24	20	24	23	21	16	24	184	96
min	4	3	1	6	3	9	6	5	2	6	4	3	112	43
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	0	0	0	0	0	0	0	0	1	1	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	3.0	3.4	3.9	3.4	3.4	3.9	4.3	3.4	2.5	3.0	2.7	2.8	39.5	21.6
max	6	13	9	9	7	8	8	5	6	6	5	7	50	38
min	0	0	0	1	0	0	2	1	0	0	0	0	22	10
<b>Very High</b>														
mean	3.7	3.5	3.8	2.9	2.8	2.8	4.4	4.2	3.0	2.5	3.4	3.5	40.5	23.0
max	7	7	7	7	7	5	9	8	6	6	7	8	52	30
min	1	1	1	0	0	1	0	2	0	0	1	1	30	16
<b>Extreme</b>														
mean	6.1	5.8	6.1	5.7	5.0	4.9	4.4	5.6	5.0	5.0	5.4	5.7	64.7	39.7
max	10	10	12	11	15	15	10	14	12	10	15	9	90	52
min	3	0	1	2	0	0	1	1	1	2	1	2	44	28
<b>Very Extreme</b>														
mean	8.7	6.8	7.4	5.4	3.4	1.8	3.0	3.8	8.0	6.8	8.6	8.7	72.2	53.3
max	14	16	15	17	11	7	8	8	17	16	15	21	105	78
min	3	0	1	1	0	0	0	0	0	1	3	1	38	16

### Windroses for Glendhu Raws (GLD)



Station Name: Hawea Flat Raws  
(Hawea\_Flat)

Period: 2017-05-18 - 2021-07-01

Length of record: 4 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	22.4	20.4	18.3	14.0	10.4	6.3	6.9	9.1	11.9	15.0	18.0	19.7	14.1	18.3
median	22.4	21.1	18.6	13.9	10.3	5.9	6.6	8.9	12.1	14.9	18.4	20.0	14.2	18.1
max	32.4	27.9	25.9	21.6	20.5	17.4	15.2	17.8	19.4	25.2	27.3	28.8	32.4	32.4
min	10.5	7.8	5.1	5.3	2.2	0.0	0.3	3.1	1.4	6.5	4.8	8.4	0.0	4.8
<b>Relative Humidity, %</b>														
mean	46.7	51.7	58.1	61.6	76.9	85.2	81.5	72.1	58.0	53.2	51.1	50.1	62.9	53.2
median	45.0	50.0	58.0	61.0	77.5	89.0	83.0	72.0	56.0	50.0	47.0	47.0	60.0	51.0
max	93	99	95	99	100	100	100	100	96	93	92	94	100	99
min	20	22	21	30	41	45	47	37	31	33	20	21	20	20
<b>Wind Speed, km/h</b>														
mean	15.7	13.0	11.4	12.0	8.6	6.6	7.3	8.9	13.2	14.4	14.5	14.3	11.5	13.6
median	12.0	8.6	6.8	7.2	5.0	4.3	4.7	5.2	9.2	11.2	10.6	11.0	7.6	9.0
max	42.5	44.3	35.3	38.9	34.9	33.5	29.9	35.3	37.8	42.1	41.0	34.6	44.3	44.3
min	2.5	3.2	2.5	1.1	0.0	0.0	0.0	1.4	1.8	1.4	3.2	2.5	0.0	1.1
<b>24-hr Rainfall, millimetres</b>														
mean	1.5	2.7	1.8	2.3	2.0	1.3	2.5	1.2	2.3	1.2	2.2	2.3	1.9	2.0
median	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
max	25.6	78.4	36.2	41.2	29.0	32.6	40.2	20.2	41.8	23.8	32.2	39.6	78.4	78.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	26.8	92.3	64.8	75.9	70.7	34.2	82.1	22.9	74.1	49.7	68.5	86.7	62.4	66.4
max	50.2	152.2	100.4	92.8	97.4	66.8	95.8	28.4	127.8	59.0	102.8	185.0	185.0	185.0
min	3.8	31.0	27.4	49.4	25.6	17.2	67.8	12.4	0.0	43.4	21.8	34.4	0.0	3.8
<b>Seasonal Rainfall, millimetres</b>														
mean													748.8	422.6
max													811.8	522.0
min													625.0	317.4
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	83.9	79.4	77.3	73.4	63.9	57.4	55.8	65.6	73.4	78.2	77.7	78.8	71.6	78.4
median	88.8	87.6	84.0	81.0	73.6	62.0	58.9	73.2	83.0	84.8	86.1	86.2	79.8	85.2
max	95.2	93.3	92.4	90.7	87.5	87.0	80.8	88.0	89.2	90.4	94.0	93.5	95.2	95.2
min	24.4	11.4	10.7	9.8	2.8	2.3	3.9	9.1	12.9	19.8	21.1	7.0	2.3	7.0
<b>Duff Moisture Code, DMC</b>														
mean	53.7	32.4	19.5	14.9	6.8	3.3	1.0	3.6	9.8	19.7	23.1	29.8	17.7	27.6
median	36.3	30.9	19.2	10.9	5.1	2.0	0.8	3.1	7.8	13.9	20.3	24.7	10.0	21.1
max	145.0	105.0	55.5	52.6	23.7	12.4	2.8	10.3	36.9	56.2	59.5	87.1	145.0	145.0
min	3.7	5.6	4.2	2.4	0.0	0.0	0.0	0.0	1.1	4.2	1.6	0.7	0.0	0.7
<b>Drought Code, DC</b>														
mean	305.7	297.9	325.9	291.7	186.0	119.3	26.1	15.2	21.3	61.6	110.7	184.2	160.7	224.7
median	262.3	292.2	325.8	281.8	146.5	48.9	9.2	11.6	14.9	59.3	110.6	206.8	127.2	240.3
max	663.2	444.7	476.3	480.5	376.3	299.5	193.1	49.3	73.8	142.7	214.6	408.0	663.2	663.2
min	49.8	137.1	233.1	132.1	21.5	23.2	0.4	0.3	0.0	5.0	7.4	5.2	0.0	5.0
<b>Initial Spread Index, ISI</b>														
mean	9.0	6.2	3.9	3.6	1.4	0.9	0.7	1.8	3.6	5.3	5.6	6.3	3.9	5.7
median	6.6	4.4	2.6	2.0	1.0	0.6	0.5	1.1	2.3	3.7	4.0	4.3	1.9	3.6
max	67.9	36.9	25.7	33.5	7.3	8.8	5.1	19.1	21.8	37.3	25.5	24.2	67.9	67.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	70.5	48.8	33.5	25.8	11.3	5.7	1.4	4.4	9.9	21.5	29.4	41.7	24.7	38.7
median	50.7	49.4	33.4	19.6	9.5	3.5	1.3	3.6	7.9	17.0	27.0	38.2	14.6	32.0
max	187.5	111.4	82.0	82.7	40.9	22.5	3.7	13.6	36.8	56.1	67.6	113.6	187.5	187.5
min	7.1	10.5	8.1	4.6	0.0	0.0	0.0	0.0	0.7	3.9	3.1	1.0	0.0	1.0
<b>Fire Weather Index, FWI</b>														
mean	21.9	14.1	8.0	6.2	1.6	0.7	0.2	1.3	4.1	8.1	10.0	13.8	7.3	11.7
median	18.2	13.1	6.2	3.0	0.6	0.2	0.1	0.4	2.0	5.1	7.4	9.7	2.2	7.9
max	121.8	56.6	41.0	51.6	12.1	13.4	3.3	19.2	27.8	41.4	41.0	55.2	121.8	121.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	9.4	4.4	1.8	1.5	0.1	0.1	0.0	0.1	0.7	1.8	2.5	4.6	2.2	3.7
median	4.6	2.6	0.7	0.2	0.0	0.0	0.0	0.0	0.1	0.5	0.9	1.5	0.1	1.1
max	133.7	34.4	19.5	29.2	2.2	2.7	0.2	5.1	9.8	19.8	19.5	32.9	133.7	133.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	364.7	123.0	56.2	29.7	3.5	2.9	0.2	4.5	27.3	33.4	78.3	82.2	67.2	109.6
max	669.4	141.5	67.6	56.1	6.9	8.5	0.3	9.5	64.4	40.5	134.1	154.6	669.4	669.4
min	201.7	106.4	44.8	5.2	1.7	0.1	0.1	2.0	7.0	26.6	22.4	18.8	0.1	5.2
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													805.9	791.7
max													1024.7	1405.1
min													595.0	517.9

Station Name: Hawea Flat Raws  
(Hawea\_Flat)

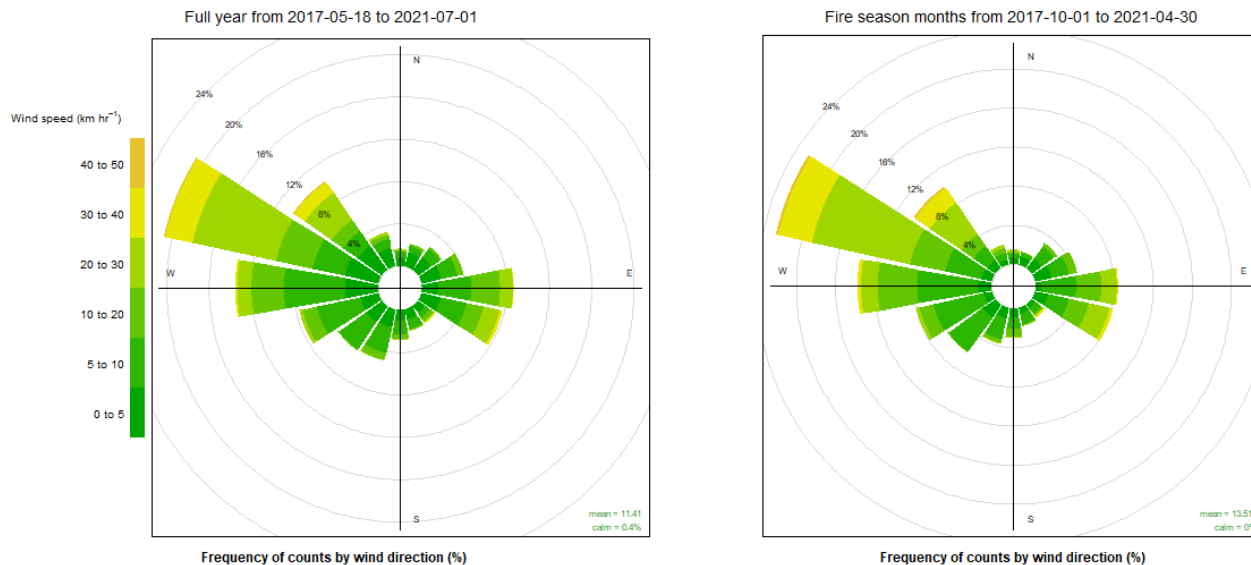
Period: 2017-05-18 - 2021-07-01

Length of record: 4 years

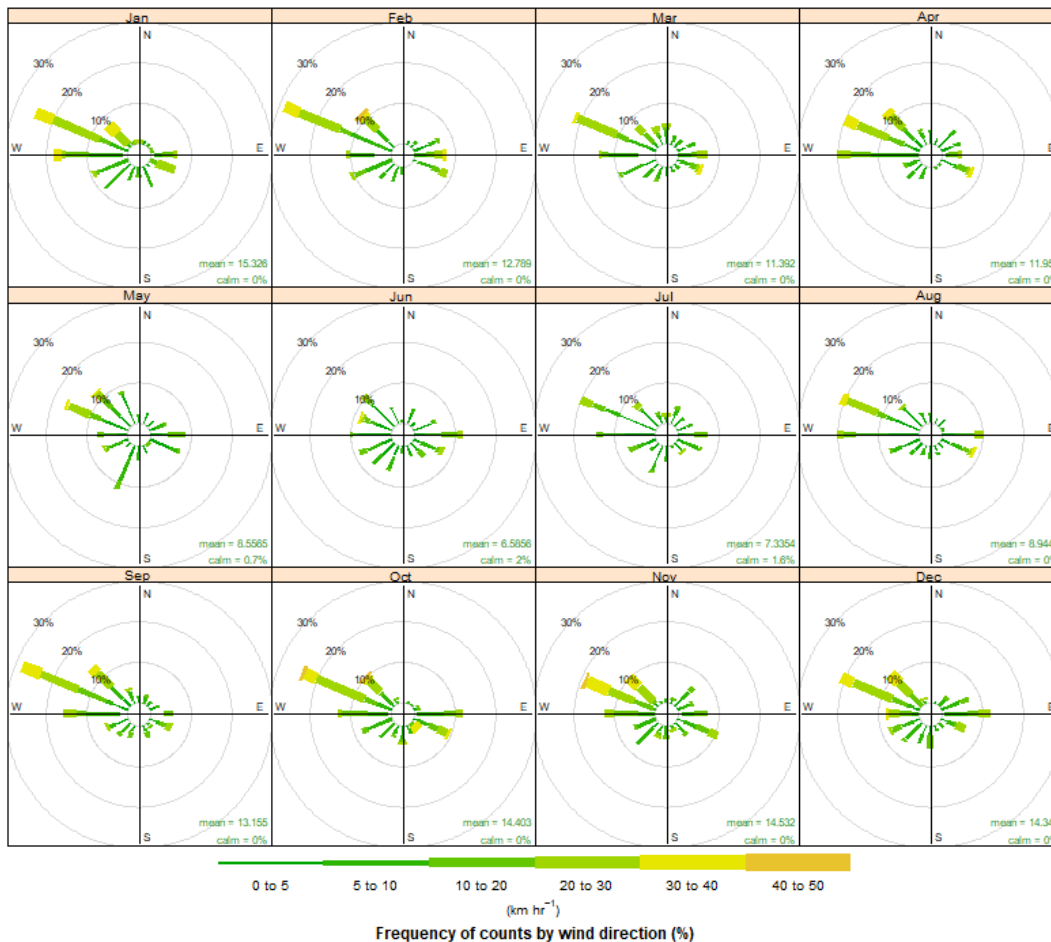
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	2.3	7.7	13.7	19.7	29.7	28.3	31.0	30.3	21.7	20.3	13.0	15.3	233.0	80.0
max	5	14	18	28	31	30	31	31	27	23	24	25	258	113
min	0	4	11	15	27	25	31	29	13	17	3	5	201	55
<b>Moderate</b>														
mean	7.7	12.0	12.3	8.7	1.3	1.7	0.0	0.7	6.7	9.7	11.7	8.7	81.0	77.8
max	10	17	15	12	4	5	0	2	12	13	17	12	105	95
min	3	6	8	2	0	0	0	0	3	7	5	5	55	61
<b>High</b>														
mean	7.7	4.3	3.3	1.7	0.0	0.0	0.0	0.0	1.7	1.0	3.0	3.3	26.0	27.8
max	11	5	6	3	0	0	0	0	5	1	5	6	35	36
min	4	4	1	0	0	0	0	0	0	1	1	1	20	18
<b>Very High</b>														
mean	5.0	2.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.0	12.0	12.5
max	8	4	2	0	0	0	0	0	0	0	3	5	13	20
min	3	1	0	0	0	0	0	0	0	0	0	0	10	7
<b>Extreme</b>														
mean	4.3	1.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.7	9.0	10.2
max	7	2	2	0	0	0	0	0	0	0	2	3	10	19
min	2	1	0	0	0	0	0	0	0	0	0	0	8	4
<b>Very Extreme</b>														
mean	4.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.0
max	9	1	0	0	0	0	0	0	0	0	0	0	9	11
min	1	0	0	0	0	0	0	0	0	0	0	0	1	1
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Otago (Inland Otago)														
Curing%	80	90	80	60	50	50	60	70	60	40	40	70		
<b>Low</b>														
mean	0.7	3.0	4.0	5.3	9.7	13.7	19.0	8.0	5.7	5.3	4.7	4.7	83.7	24.8
max	1	6	6	6	16	15	21	14	10	6	7	10	103	31
min	0	0	2	4	4	12	17	4	0	4	2	1	72	21
<b>Moderate</b>														
mean	4.3	9.7	20.3	21.7	20.3	15.7	12.0	20.3	19.7	20.7	18.3	16.7	199.7	111.2
max	8	12	22	24	24	18	14	25	22	21	20	21	215	125
min	2	8	18	18	15	14	10	14	17	20	16	13	184	96
<b>High</b>														
mean	16.3	10.0	3.0	2.7	1.0	0.7	0.0	2.3	4.7	4.3	6.3	6.3	57.7	52.2
max	20	12	5	5	3	2	0	3	8	5	8	10	70	60
min	12	8	1	1	0	0	0	1	3	4	4	4	50	39
<b>Very High</b>														
mean	3.3	2.0	2.7	0.3	0.0	0.0	0.0	0.3	0.0	0.7	0.7	3.3	13.3	14.5
max	4	2	5	1	0	0	0	1	0	2	1	5	16	20
min	3	2	1	0	0	0	0	0	0	0	0	1	9	9
<b>Extreme</b>														
mean	6.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	8.8
max	7	4	2	0	0	0	0	0	0	0	0	0	12	12
min	5	2	0	0	0	0	0	0	0	0	0	0	7	4
<b>Very Extreme</b>														
mean	0.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.8
max	1	1	0	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	1.0	4.3	4.7	6.0	9.3	11.7	14.3	8.3	5.0	5.3	5.7	5.3	81.0	28.5
max	2	8	6	7	16	12	15	14	8	6	8	11	100	37
min	0	1	3	5	3	11	13	5	0	4	2	2	64	23
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
max	0	0	0	0	0	1	0	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.0	2.3	3.3	5.0	9.0	12.7	11.7	6.3	2.3	3.0	2.3	4.0	63.0	19.2
max	3	4	4	7	12	16	13	9	6	4	6	6	66	30
min	0	0	3	1	5	9	10	4	0	2	0	2	59	13
<b>Very High</b>														
mean	1.0	2.0	5.3	6.7	5.7	2.0	3.7	9.0	5.7	3.0	2.0	3.3	49.3	21.8
max	1	3	7	10	8	3	5	13	10	4	4	5	54	27
min	1	1	4	4	4	0	3	3	0	2	1	2	43	18
<b>Extreme</b>														
mean	3.0	5.3	11.0	5.3	4.7	1.7	1.0	4.0	8.7	10.3	6.3	6.3	67.7	48.5
max	5	10	13	7	5	2	3	6	15	12	8	8	71	61
min	1	0	7	4	4	1	0	2	4	8	4	5	63	32
<b>Very Extreme</b>														
mean	25.0	14.3	6.7	7.0	2.3	1.7	0.3	3.3	8.3	9.3	13.7	12.0	104.0	94.2

max	28	15	7	12	4	5	1	4	15	11	19	18	119	126
min	20	14	6	2	1	0	0	3	5	8	8	8	95	69

### Windroses for Hawea Flat Raws (Hawea Flats)



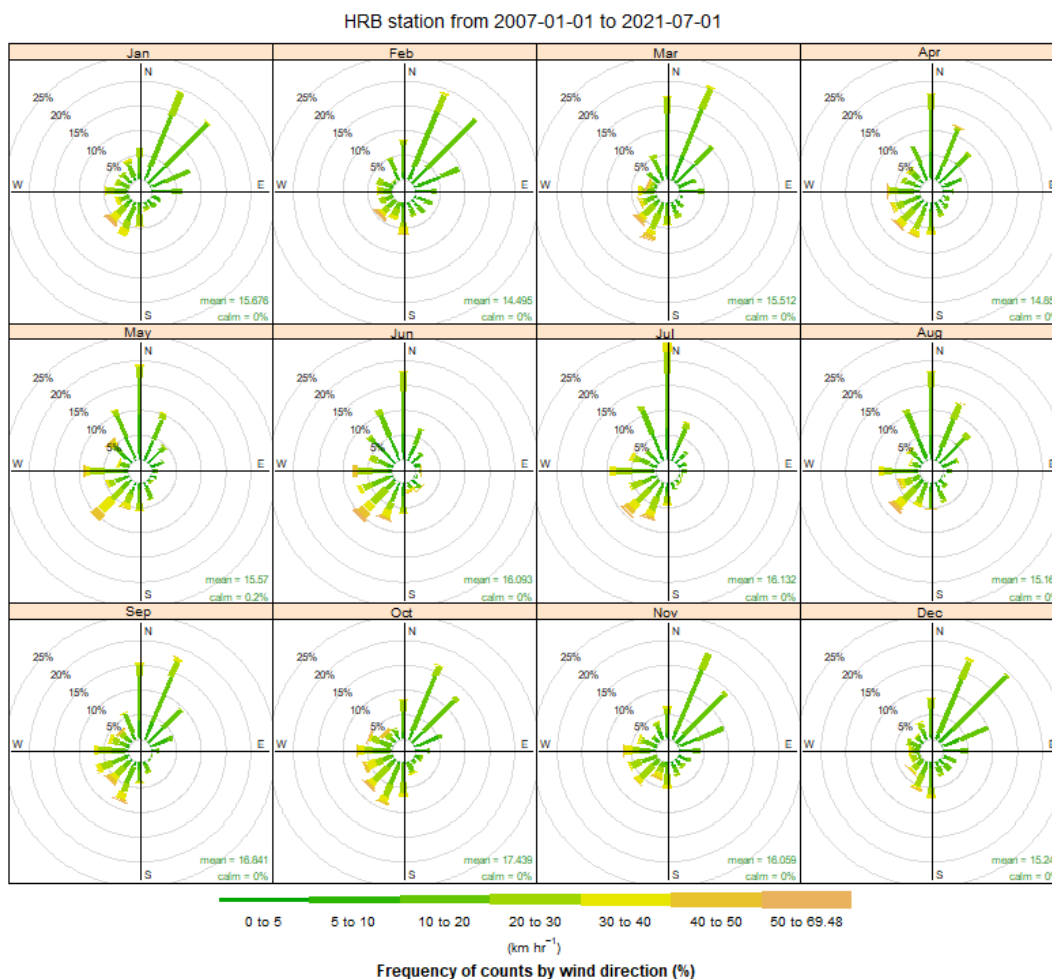
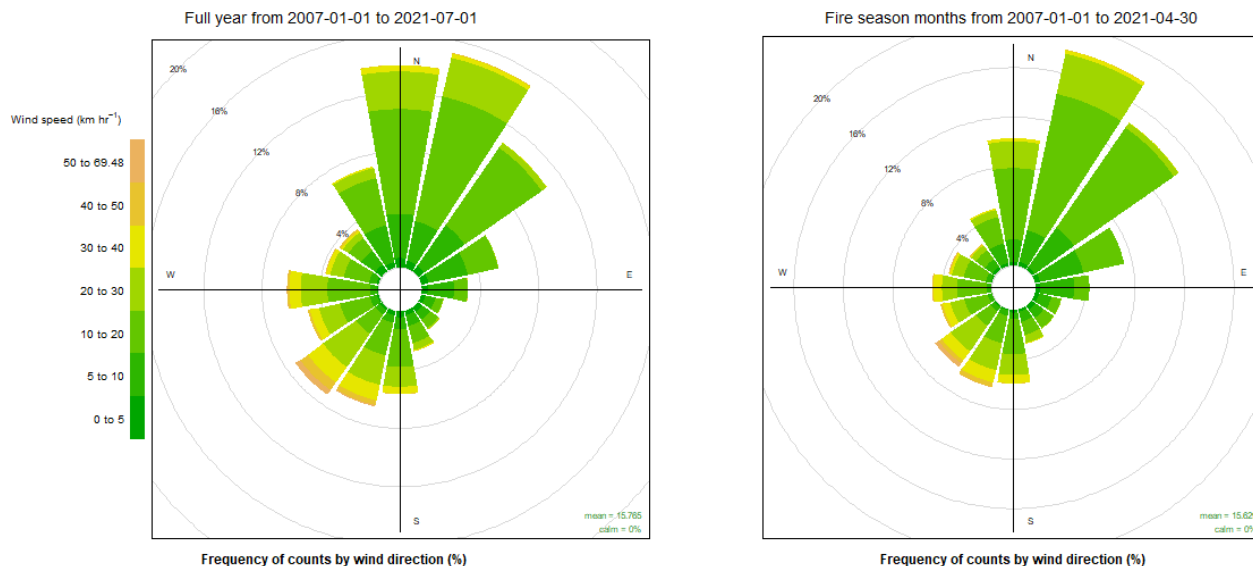
### Hawea\_Flat station from 2017-05-18 to 2021-07-01



Station Name: Herbert Raws (HRB)		Period: 2007-01-01 - 2021-07-01											Length of record: 14 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	14.7	14.6	13.7	11.3	8.9	6.5	6.0	6.8	8.5	9.9	11.7	13.4	10.5	12.8
median	14.0	14.3	13.5	11.4	8.7	6.2	5.7	6.9	8.1	9.3	11.4	13.2	10.2	12.4
max	28.2	30.9	26.4	21.1	21.0	15.5	16.5	16.4	19.9	21.9	25.9	27.2	30.9	30.9
min	5.2	3.5	2.6	0.7	-1.1	-1.1	-1.6	-2.8	-0.5	-0.4	2.0	3.1	-2.8	-0.4
<b>Relative Humidity, %</b>														
mean	69.0	70.7	69.1	67.1	67.2	66.6	64.3	67.1	63.6	64.3	66.6	70.8	67.2	68.2
median	72	72	70	66	65	66	64	67	62	63	70	72	68	69
max	99	99	100	99	99	99	99	99	100	99	98	99	100	100
min	16	18	27	24	22	18	22	20	12	21	15	21	12	15
<b>Wind Speed, km/h</b>														
mean	15.7	14.7	15.3	14.7	15.5	16.1	16.1	15.1	16.9	17.5	16.1	15.3	15.8	15.6
median	13.3	13.3	12.6	12.6	13.0	14.0	14.0	13.0	14.4	15.8	14.5	13.4	13.7	13.7
max	69.5	56.2	64.4	58.0	56.5	60.8	56.5	58.0	59.0	65.2	54.0	54.0	69.5	69.5
min	2.5	1.4	0.4	1.8	0.0	1.4	1.1	1.1	2.5	1.1	2.3	2.5	0.0	0.4
<b>24-hr Rainfall, millimetres</b>														
mean	3.0	2.9	2.2	2.8	3.0	2.1	2.4	2.3	1.9	2.2	2.3	2.4	2.5	2.5
median	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
max	172.2	134.0	104.8	128.8	144.6	153.8	91.4	100.6	39.0	36.8	51.0	53.6	172.2	172.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	72.6	86.0	68.7	86.4	92.1	62.3	74.1	72.3	57.0	68.6	69.8	73.8	73.6	75.1
max	137.2	292.6	147.6	309.8	464.6	275.8	198.6	304.2	121.4	159.8	222.0	155.2	464.6	309.8
min	22.4	20.2	19.2	20.2	14.6	7.8	5.8	15.4	28.4	30.4	13.4	19.8	5.8	13.4
<b>Seasonal Rainfall, millimetres</b>														
mean													883.6	548.1
max													1170.6	886.4
min													668.8	285.0
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	68.1	68.4	69.5	68.3	66.0	67.9	70.4	66.5	68.2	67.6	66.9	65.3	67.8	67.8
median	76.4	77.8	76.7	77.7	75.9	77.0	78.9	77.7	77.6	76.0	75.5	71.5	76.7	76.3
max	94.0	93.8	91.1	89.9	89.1	88.7	89.7	90.8	93.8	93.2	94.6	93.3	94.6	94.6
min	4.6	2.0	2.2	2.1	3.3	3.2	4.1	2.7	1.0	5.3	4.2	6.8	1.0	2.0
<b>Duff Moisture Code, DMC</b>														
mean	10.4	10.9	11.5	9.5	5.5	4.4	5.0	4.6	7.4	6.8	8.9	8.8	7.8	9.6
median	8.4	9.6	9.2	7.6	4.7	3.7	4.0	4.2	5.8	5.6	8.2	7.3	6.1	7.9
max	33.7	34.2	46.0	49.7	25.0	17.5	19.1	18.5	37.6	20.6	31.5	31.2	49.7	49.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	187.2	210.1	222.8	215.0	148.9	90.4	66.7	25.3	21.8	28.1	71.4	142.2	120.7	155.4
median	186.8	198.0	228.5	204.4	93.8	63.1	51.9	19.3	19.6	19.8	64.2	142.2	74.6	133.8
max	461.7	437.4	545.3	556.6	477.5	304.6	227.7	102.5	74.5	108.9	187.6	325.1	556.6	556.6
min	5.4	4.1	2.8	1.7	0.0	0.0	0.0	0.0	0.0	1.3	2.9	4.4	0.0	1.3
<b>Initial Spread Index, ISI</b>														
mean	2.9	2.5	2.9	2.6	2.5	2.6	3.0	2.5	3.3	3.2	3.0	2.5	2.8	2.8
median	1.7	1.8	1.8	1.9	1.8	1.8	2.3	1.9	2.1	2.0	1.7	1.4	1.8	1.8
max	32.2	19.3	35.7	38.0	28.7	20.1	23.6	17.4	29.4	60.4	22.4	59.3	60.4	60.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	17.7	18.6	19.8	16.4	9.4	6.9	7.1	5.7	8.0	8.1	12.8	14.5	12.1	15.5
median	14.6	17.1	16.2	13.4	7.8	5.9	6.3	5.0	6.8	6.3	11.9	12.7	9.2	12.5
max	57.0	56.3	76.0	81.2	44.2	26.4	31.1	19.4	37.5	25.9	38.0	44.2	81.2	81.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	4.3	4.1	4.7	3.9	2.7	2.2	2.7	2.0	3.1	3.0	3.9	3.3	3.3	3.9
median	2.0	2.5	2.1	2.0	1.0	0.9	1.3	0.8	1.1	1.3	1.4	0.9	1.4	1.7
max	38.8	26.7	46.5	42.1	29.0	19.7	29.7	16.2	25.7	44.8	32.3	49.9	49.9	49.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	0.8	0.7	0.9	0.6	0.4	0.2	0.3	0.2	0.5	0.4	0.7	0.5	0.5	0.7
median	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
max	17.6	9.1	24.3	20.4	10.5	5.3	11.0	3.8	8.5	22.7	12.8	27.5	27.5	27.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	25.3	18.6	30.2	16.4	10.8	7.6	9.7	6.0	13.5	13.3	20.4	16.9	15.7	20.1
max	60.0	70.6	155.9	48.8	44.9	14.7	38.1	15.2	52.8	62.3	53.4	59.1	155.9	155.9
min	2.8	0.9	0.8	1.3	1.2	0.7	0.3	0.9	3.5	0.6	0.6	1.5	0.3	0.6
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													188.6	142.4
max													435.3	396.9
min													110.6	23.9

Station Name: Herbert Raws (HRB)														Period: 2007-01-01 - 2021-07-01	Length of record: 14 years
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Forest Fire Danger Class (FFDC) Frequency</b>															
<b>Low</b>															
mean	21.5	19.9	20.8	22.1	27.1	27.1	28.1	29.6	25.9	27.1	22.9	23.9	295.9	157.1	
max	31	28	31	30	31	30	31	31	30	31	30	31	330	203	
min	10	7	2	9	18	21	17	24	10	16	12	14	263	113	
<b>Moderate</b>															
mean	8.1	7.6	8.6	7.3	3.5	2.9	2.8	1.4	3.8	3.9	6.1	6.7	62.6	49.1	
max	18	18	19	19	10	9	14	7	17	14	15	17	82	87	
min	0	0	0	0	0	0	0	0	0	0	0	0	32	9	
<b>High</b>															
mean	0.9	0.8	0.9	0.6	0.4	0.0	0.1	0.0	0.3	0.1	1.0	0.3	5.2	4.4	
max	4	5	6	3	3	0	2	0	3	1	4	2	19	22	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very High</b>															
mean	0.4	0.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.2	1.2	
max	1	1	3	1	0	0	0	0	0	0	1	1	7	6	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Extreme</b>															
mean	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	
max	1	0	3	0	0	0	0	0	0	0	0	0	3	3	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Grass Fire Danger Class (GFDC) Frequency</b>															
Curing source Otago (Coastal Otago)															
Curing%	60	70	60	60	30	30	30	40	50	50	40	60			
<b>Low</b>															
mean	7.2	6.2	7.9	7.5	9.5	7.9	6.9	8.3	7.4	7.9	8.5	9.4	94.4	54.1	
max	13	13	14	18	18	15	14	20	11	14	19	19	121	87	
min	2	1	0	2	3	2	0	0	2	1	0	3	79	30	
<b>Moderate</b>															
mean	21.9	18.9	20.9	21.4	20.8	21.2	23.2	21.6	18.5	20.1	18.7	20.3	247.5	143.0	
max	29	23	27	28	28	27	29	29	26	29	29	28	264	158	
min	16	14	15	12	12	15	16	10	10	15	11	12	232	119	
<b>High</b>															
mean	1.7	2.8	2.0	1.0	0.7	0.9	0.9	1.1	3.8	2.8	2.8	1.1	21.7	13.9	
max	5	8	7	3	4	3	3	4	12	8	7	3	39	27	
min	0	0	0	0	0	0	0	0	1	0	0	0	11	6	
<b>Very High</b>															
mean	0.1	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.1	1.4	1.1	
max	1	2	1	1	0	0	0	0	2	1	0	1	6	4	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Extreme</b>															
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.2	
max	0	0	0	0	0	0	0	0	0	2	0	1	2	2	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Scrub Fire Danger Class (SFDC) Frequency</b>															
<b>Low</b>															
mean	7.6	8.4	8.3	8.3	9.0	7.4	6.5	8.8	8.6	9.1	8.9	9.8	100.6	59.5	
max	13	16	15	19	19	14	13	20	13	18	19	19	118	91	
min	2	4	1	3	1	1	0	3	4	2	1	5	89	38	
<b>Moderate</b>															
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>High</b>															
mean	3.9	2.4	3.7	2.9	3.6	3.6	3.2	2.6	2.4	2.5	3.6	4.9	39.5	24.1	
max	6	8	8	6	6	7	5	5	6	5	8	9	49	31	
min	2	1	0	1	0	0	1	0	0	0	0	1	28	13	
<b>Very High</b>															
mean	5.8	5.5	5.6	5.5	4.6	4.6	4.9	5.5	4.0	4.8	4.4	5.5	60.7	37.2	
max	10	10	10	10	12	9	8	10	7	8	7	9	86	44	
min	3	2	2	1	1	0	3	1	0	0	2	2	41	26	
<b>Extreme</b>															
mean	8.3	6.9	7.3	8.1	8.6	8.9	9.6	9.1	7.5	8.2	6.9	6.1	95.6	52.4	
max	15	11	12	15	14	14	17	14	12	15	12	12	109	65	
min	3	3	3	0	3	5	5	1	2	3	2	1	83	35	
<b>Very Extreme</b>															
mean	5.4	5.1	6.1	5.2	5.1	5.5	6.7	4.9	7.4	6.4	6.2	4.8	68.9	39.1	
max	10	13	15	11	12	10	13	12	18	15	13	9	100	70	
min	2	0	1	1	1	1	1	1	4	1	0	1	45	16	

### Windroses for Herbert Raws (HRB)

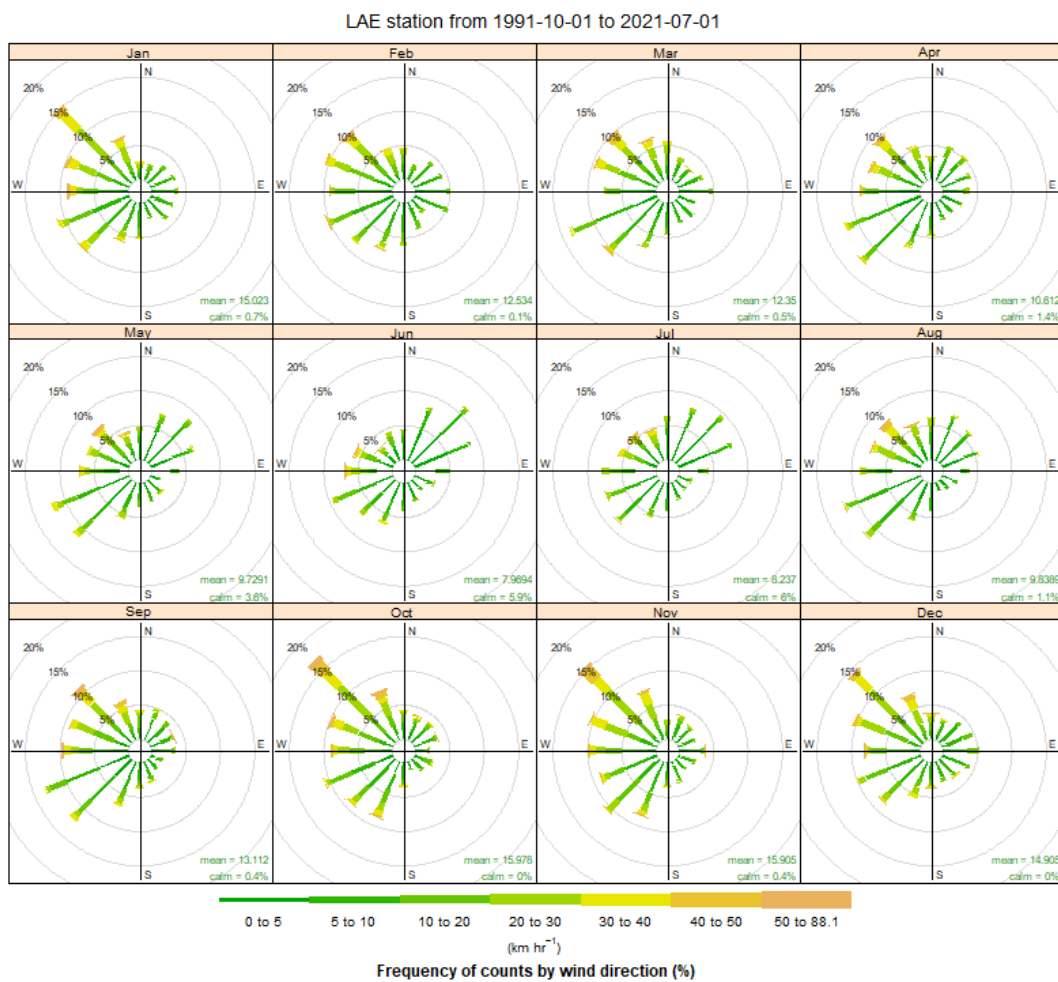
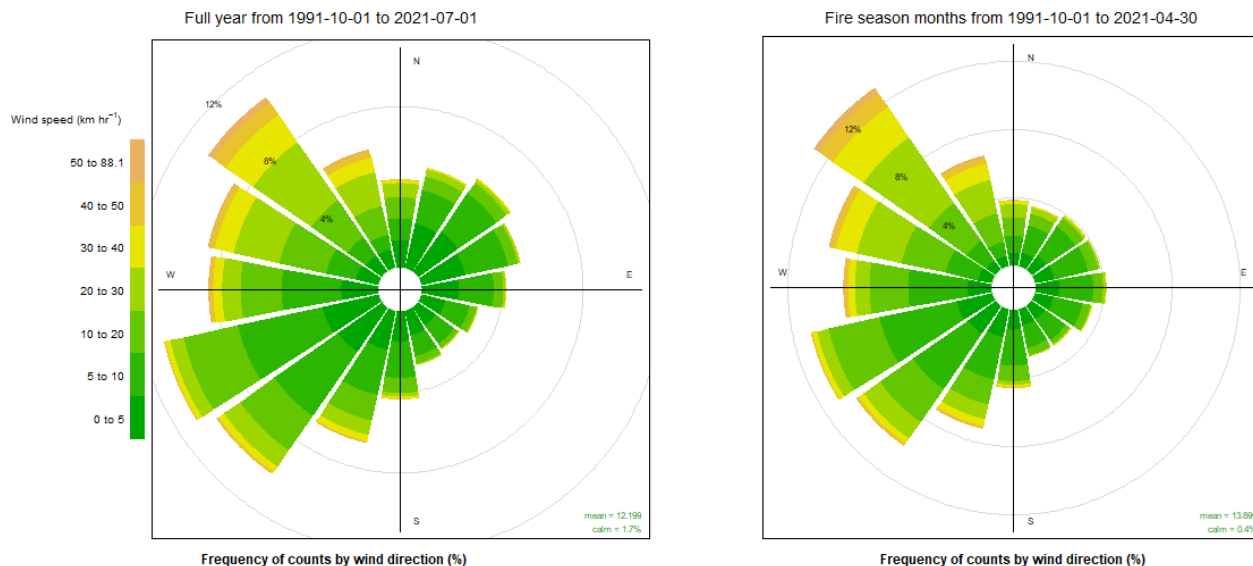




Station Name: Lauder Ews (LAE)	Period: 1991-10-01 - 2021-07-01												Length of record: 29 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	19.6	19.3	16.7	13.0	9.4	5.2	4.8	7.7	11.0	13.4	15.6	18.2	12.8	16.5
median	19.6	19.4	16.6	12.8	8.9	4.9	4.8	7.4	11.1	13.4	15.4	18.4	12.9	16.4
max	32.9	31.4	30.0	25.5	22.3	17.4	16.4	18.7	22.0	29.0	27.3	29.3	32.9	32.9
min	3.6	5.0	5.0	0.3	-3.6	-9.4	-14.1	-2.1	0.3	3.2	2.0	6.5	-14.1	0.3
<b>Relative Humidity, %</b>														
mean	49.3	51.9	54.8	61.2	69.0	75.2	73.4	65.4	55.6	52.9	49.7	48.5	58.9	52.6
median	46.7	50.0	54.0	61.0	70.0	76.8	74.0	66.0	54.9	51.2	47.1	46.0	58.0	51.0
max	100.0	100.0	100.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	96.6	100.0	100.0	100.0
min	10.0	14.0	16.0	24.2	24.0	30.4	10.0	22.0	10.0	21.4	16.0	13.0	10.0	10.0
<b>Wind Speed, km/h</b>														
mean	15.1	12.7	12.5	10.6	9.8	8.2	8.1	9.8	13.7	16.0	16.2	15.5	12.4	14.1
median	10.3	8.6	8.0	6.5	6.0	5.0	5.0	5.8	9.0	11.9	12.2	11.0	7.9	9.4
max	73.0	61.6	77.0	52.2	76.0	60.8	88.1	57.8	86.8	83.2	57.4	71.5	88.1	83.2
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	1.7	1.6	1.2	1.2	1.1	1.1	0.8	0.6	0.9	1.3	1.5	1.7	1.2	1.5
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	69.4	55.6	45.4	62.2	60.4	48.8	37.4	20.4	30.2	32.0	39.0	55.2	69.4	69.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	50.4	46.2	37.6	37.7	34.2	33.3	23.9	17.4	27.7	39.9	44.9	51.2	37.0	44.0
max	156.6	146.2	87.2	90.8	79.4	104.8	61.4	49.6	84.4	77.4	110.4	142.2	156.6	156.6
min	5.8	4.0	2.0	5.6	8.4	1.8	2.8	0.0	4.4	5.8	1.6	0.2	0.0	0.2
<b>Seasonal Rainfall, millimetres</b>														
mean													444.4	309.5
max													700.7	498.9
min													224.2	168.6
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	81.1	80.6	79.1	75.8	70.4	64.9	69.4	74.5	78.1	77.9	79.1	80.2	75.9	79.1
median	87.4	86.8	85.5	82.6	78.2	72.5	76.3	80.2	84.0	84.3	86.2	86.8	82.7	85.5
max	97.0	95.5	94.5	91.9	90.6	89.8	87.9	91.2	94.2	92.2	95.0	96.0	97.0	97.0
min	7.5	1.5	7.9	8.6	0.6	3.2	6.9	13.9	8.8	12.4	12.2	12.4	0.6	1.5
<b>Duff Moisture Code, DMC</b>														
mean	40.7	40.2	34.6	27.4	13.7	6.2	4.3	7.5	16.1	20.9	26.3	35.2	22.8	32.1
median	28.7	34.0	27.5	22.4	10.6	4.0	3.1	6.6	13.8	18.3	22.9	27.1	15.8	25.4
max	201.5	151.4	128.7	96.5	58.9	29.1	27.0	27.1	50.5	63.9	83.1	156.8	201.5	201.5
min	3.2	3.4	0.2	0.5	0.0	0.0	0.0	0.0	0.2	1.1	1.0	0.6	0.0	0.2
<b>Drought Code, DC</b>														
mean	407.0	430.5	450.1	454.1	390.0	330.3	280.5	271.5	272.6	272.6	306.4	368.0	353.0	383.5
median	388.0	419.2	457.0	462.9	402.3	319.9	263.9	260.0	264.4	285.1	325.0	362.4	334.9	369.2
max	916.3	868.6	876.0	761.2	674.6	642.3	533.6	494.3	502.6	496.6	567.7	770.4	916.3	916.3
min	54.4	155.0	108.6	173.6	114.5	97.2	92.7	84.8	10.1	18.0	75.6	14.2	10.1	14.2
<b>Initial Spread Index, ISI</b>														
mean	8.6	6.7	5.8	3.7	2.5	1.7	1.8	2.9	5.1	6.3	7.5	7.8	5.1	6.6
median	4.7	4.3	3.4	2.2	1.4	0.9	1.1	1.6	2.8	3.3	4.3	4.8	2.5	3.7
max	89.4	65.4	58.7	45.3	43.0	37.2	37.8	45.4	73.3	65.8	56.7	70.2	89.4	89.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	62.9	63.3	56.1	46.0	24.3	11.5	8.1	13.6	27.0	33.6	41.7	55.0	37.0	51.1
median	47.2	55.9	47.9	39.4	19.8	7.7	6.0	12.2	24.0	30.2	38.0	44.3	27.7	42.5
max	260.0	210.9	188.3	134.3	92.7	51.4	47.3	47.7	72.2	90.7	121.6	207.8	260.0	260.0
min	6.1	6.7	0.4	1.0	0.0	0.0	0.0	0.0	0.5	2.1	1.9	1.2	0.0	0.4
<b>Fire Weather Index, FWI</b>														
mean	19.1	16.8	14.3	8.7	4.4	2.0	1.6	3.6	8.5	11.1	14.7	17.3	10.2	14.6
median	13.4	12.8	10.2	5.7	1.9	0.5	0.6	1.5	5.6	7.1	10.7	12.9	4.9	10.0
max	116.3	107.3	105.2	73.9	54.5	39.0	23.9	50.9	76.3	79.2	93.9	101.4	116.3	116.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	8.3	6.5	5.2	2.3	0.9	0.3	0.2	0.7	2.2	3.4	5.3	6.9	3.5	5.4
median	2.7	2.5	1.7	0.6	0.1	0.0	0.0	0.1	0.6	0.9	1.8	2.5	0.5	1.6
max	123.1	106.9	103.2	55.2	32.2	17.8	7.5	28.5	58.5	62.4	84.3	96.6	123.1	123.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	263.4	184.4	158.6	67.6	27.0	9.5	5.3	20.5	66.0	106.3	161.5	218.1	107.3	165.7
max	811.5	665.0	478.9	256.0	133.2	36.3	25.9	97.3	282.4	319.2	643.5	819.0	819.0	819.0
min	22.3	24.2	4.5	7.4	0.5	0.2	0.1	0.7	15.6	11.9	26.8	29.1	0.1	4.5
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1288.2	1148.4
max													2718.1	2531.2
min													547.9	268.5

Station Name: Lauder Ews (LAE)													Period: 1991-10-01 - 2021-07-01		Length of record: 29 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Forest Fire Danger Class (FFDC) Frequency</b>																
<b>Low</b>																
mean	6.8	7.0	9.7	13.4	21.9	26.8	29.0	24.4	13.1	11.8	8.8	8.4	181.1	65.7		
max	21	18	28	27	31	30	31	31	25	27	22	25	246	117		
min	1	1	0	1	4	16	17	13	1	4	0	0	122	24		
<b>Moderate</b>																
mean	10.0	9.5	11.6	12.1	7.5	2.9	2.0	5.8	12.9	12.1	10.6	9.3	106.1	75.9		
max	21	18	20	26	21	14	13	17	24	20	17	17	165	107		
min	2	1	3	2	0	0	0	0	4	3	4	2	70	47		
<b>High</b>																
mean	6.1	5.5	4.4	2.7	1.0	0.2	0.0	0.6	2.4	4.1	5.2	5.8	37.9	33.6		
max	13	14	14	13	5	2	1	4	7	10	11	11	66	50		
min	2	0	0	0	0	0	0	0	0	0	1	1	19	12		
<b>Very High</b>																
mean	2.6	2.1	1.8	0.8	0.3	0.1	0.0	0.2	0.9	1.4	2.2	2.9	15.3	13.6		
max	9	6	7	5	3	1	0	4	5	4	7	9	34	33		
min	0	0	0	0	0	0	0	0	0	0	0	0	5	3		
<b>Extreme</b>																
mean	2.6	2.5	2.3	0.8	0.3	0.0	0.0	0.0	0.5	1.5	2.1	2.6	15.1	14.1		
max	9	7	12	4	3	0	0	1	4	6	8	10	29	28		
min	0	0	0	0	0	0	0	0	0	0	0	0	5	2		
<b>Very Extreme</b>																
mean	2.9	1.7	1.3	0.3	0.0	0.0	0.0	0.0	0.1	0.2	1.1	2.0	9.6	9.4		
max	10	9	9	3	0	0	0	0	2	2	9	14	33	29		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Grass Fire Danger Class (GFDC) Frequency</b>																
Curing source Otago (Inland Otago)																
Curing%	80	90	80	60	50	50	60	70	60	40	40	70				
<b>Low</b>																
mean	2.3	2.1	3.1	5.6	7.2	10.4	9.7	4.2	4.1	4.3	4.1	2.9	60.1	24.4		
max	10	7	8	13	17	21	23	11	13	10	14	11	81	48		
min	0	0	0	0	0	0	0	0	0	0	0	0	37	13		
<b>Moderate</b>																
mean	10.7	9.1	15.0	21.6	21.1	18.3	20.4	22.6	20.8	18.8	16.6	13.7	208.5	105.4		
max	21	18	23	29	28	30	29	29	28	24	23	21	242	130		
min	1	1	5	13	13	9	6	14	13	13	10	6	176	77		
<b>High</b>																
mean	10.6	10.3	7.7	2.6	2.3	1.0	0.8	3.2	4.2	6.3	7.1	9.1	65.2	53.8		
max	19	18	15	6	8	6	3	9	13	12	12	18	91	79		
min	4	3	2	0	0	0	0	0	0	2	2	3	40	28		
<b>Very High</b>																
mean	2.8	2.9	3.0	0.3	0.3	0.3	0.1	0.7	0.8	1.4	2.1	3.2	17.8	15.7		
max	8	7	12	3	2	2	1	4	4	4	8	8	30	27		
min	0	0	0	0	0	0	0	0	0	0	0	0	3	4		
<b>Extreme</b>																
mean	3.9	3.1	1.9	0.0	0.1	0.0	0.0	0.4	0.0	0.1	0.1	2.1	11.8	11.2		
max	9	7	7	0	1	0	0	3	1	1	2	7	24	23		
min	1	0	0	0	0	0	0	0	0	0	0	0	5	4		
<b>Very Extreme</b>																
mean	0.8	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.8		
max	5	4	2	0	0	0	0	0	0	0	0	0	8	8		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Scrub Fire Danger Class (SFDC) Frequency</b>																
<b>Low</b>																
mean	3.2	3.1	3.8	4.2	7.1	9.6	7.3	4.6	3.4	4.1	3.8	3.5	57.7	25.6		
max	11	9	10	11	16	21	17	12	11	8	13	11	81	48		
min	0	1	0	0	0	0	0	0	0	0	0	0	37	12		
<b>Moderate</b>																
mean	0.0	0.0	0.1	0.1	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.6	0.2		
max	0	0	2	2	1	3	2	1	0	0	0	1	4	2		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>High</b>																
mean	2.0	2.8	3.0	4.9	6.7	9.6	9.8	7.1	3.6	3.6	2.6	3.0	58.7	21.7		
max	7	8	8	10	16	18	19	15	8	6	7	9	79	41		
min	0	0	0	0	0	2	3	1	0	0	0	0	36	12		
<b>Very High</b>																
mean	1.8	2.3	2.8	5.2	7.0	4.4	6.9	8.0	3.8	3.4	1.8	2.0	49.5	19.1		
max	6	6	9	14	17	12	14	14	9	9	3	9	71	39		
min	0	0	0	0	2	0	0	1	0	1	0	0	33	5		
<b>Extreme</b>																
mean	6.8	5.9	8.9	9.2	5.7	3.7	4.2	5.9	9.0	7.6	6.4	5.6	78.8	50.8		
max	16	14	15	24	14	10	14	14	17	14	12	13	114	77		
min	2	0	2	2	1	0	0	0	3	1	1	2	48	25		
<b>Very Extreme</b>																
mean	17.2	14.2	12.4	6.5	4.4	2.6	2.6	5.3	10.2	12.3	15.4	16.8	120.1	94.9		
max	28	24	24	14	14	7	8	18	21	23	27	27	166	135		
min	6	3	1	1	0	0	0	0	2	3	7	4	77	44		

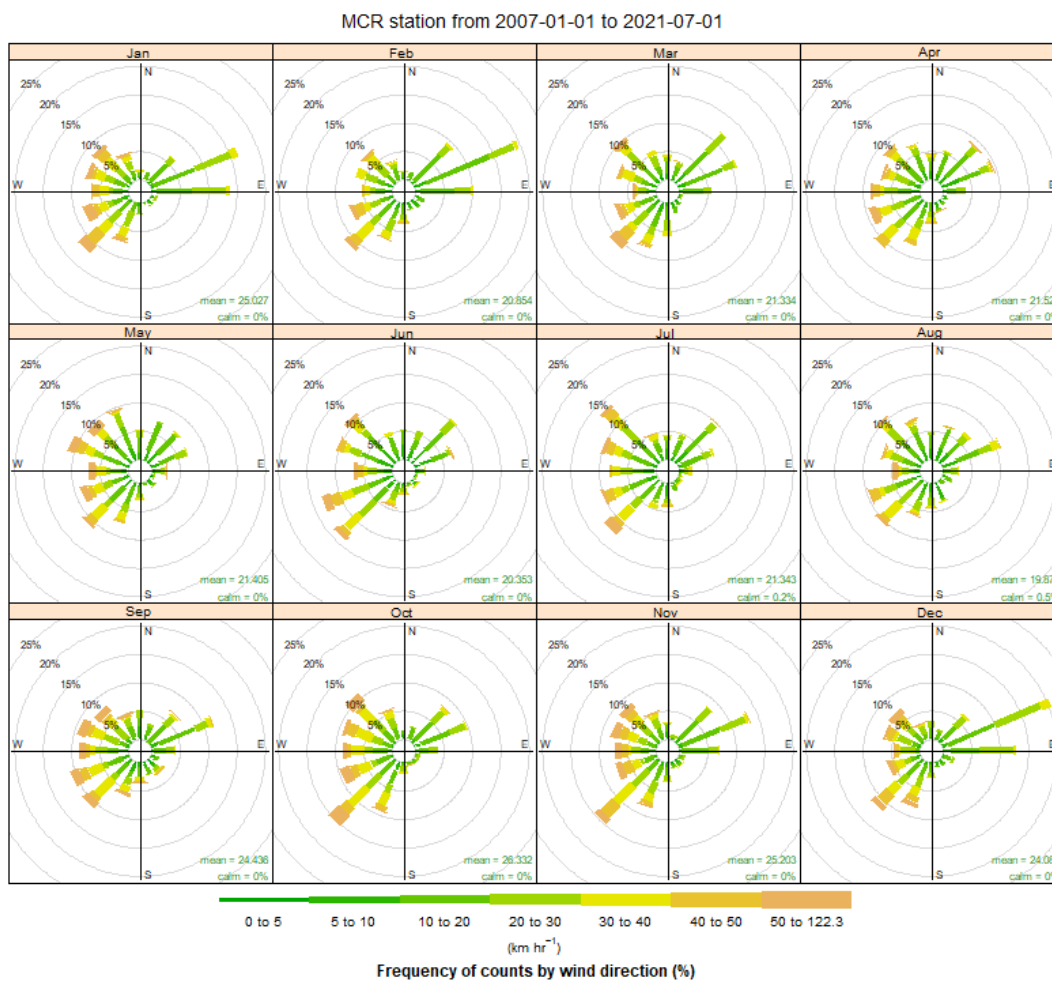
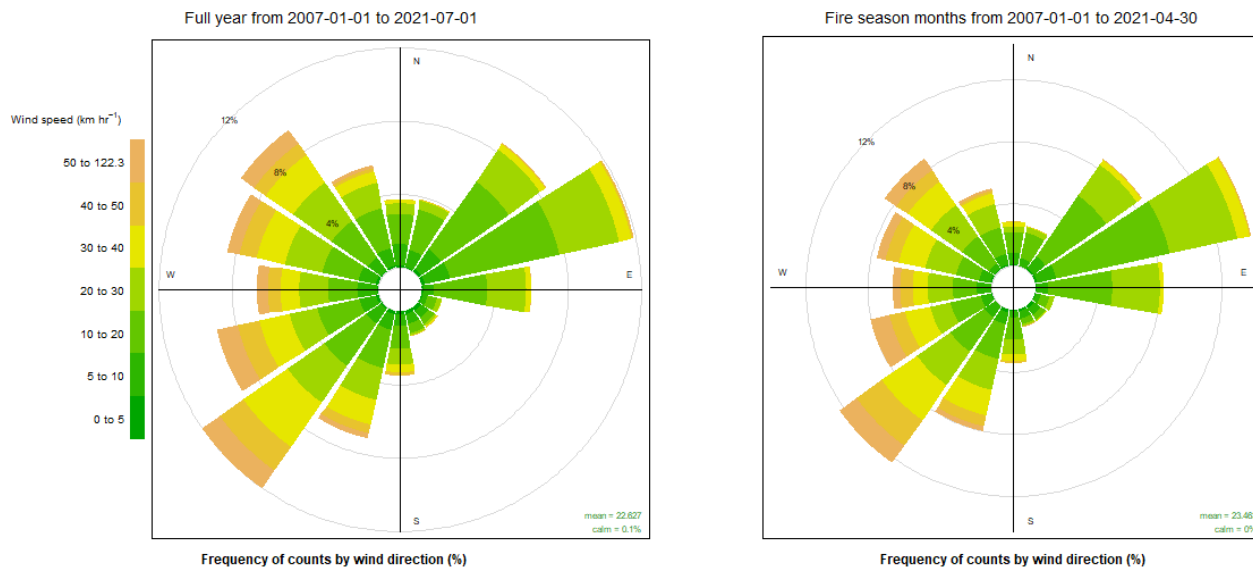
### Windroses for Lauder Ews (LAE)



Station Name: Macrae's Raws (MCR)													Period: 2007-01-01 - 2021-07-01		Length of record: 14 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	16.2	16.1	15.1	11.9	9.1	6.5	5.8	7.2	9.1	11.0	13.3	15.0	11.4	14.1		
median	16.0	16.0	15.3	11.9	9.1	6.2	5.5	7.2	9.3	10.8	12.9	15.1	11.0	13.9		
max	30.4	30.2	25.0	22.0	20.5	15.6	15.2	16.6	19.9	23.1	27.4	26.5	30.4	30.4		
min	4.6	4.7	1.9	1.9	-1.7	-1.9	-1.6	-3.0	-2.2	0.0	1.8	4.1	-3.0	0.0		
<b>Relative Humidity, %</b>																
mean	61.1	62.7	61.9	64.8	68.2	72.0	69.4	68.1	61.4	59.0	59.0	62.5	64.2	61.6		
median	60.0	62.0	62.0	64.0	67.0	72.5	68.0	67.0	59.5	58.0	57.0	61.0	63.0	61.0		
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
min	11	15	15	18	14	21	14	19	12	13	18	22	11	11		
<b>Wind Speed, km/h</b>																
mean	25.0	20.9	21.3	21.5	21.4	20.4	21.3	19.9	24.4	26.3	25.2	24.1	22.6	23.5		
median	22.0	18.4	18.3	18.4	17.3	16.5	17.6	17.1	20.4	23.0	22.3	21.6	19.4	20.5		
max	94.8	65.5	74.4	72.7	80.6	74.0	89.7	85.3	122.3	96.5	72.4	76.8	122.3	96.5		
min	2.9	2.7	2.2	1.1	2.4	1.5	0.0	0.0	1.8	2.9	1.8	4.3	0.0	1.1		
<b>24-hr Rainfall, millimetres</b>																
mean	2.3	2.2	1.7	1.8	2.4	1.7	1.7	1.2	1.3	2.0	1.9	2.2	1.9	2.0		
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
max	62.8	56.6	28.9	51.7	91.2	82.3	69.0	29.2	24.4	56.2	51.0	53.6	91.2	62.8		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	62.9	64.9	53.0	56.6	73.1	50.6	51.6	37.6	39.9	63.0	58.2	66.8	56.5	60.8		
max	131.2	200.2	87.8	153.2	255.7	193.7	136.6	94.1	70.7	131.0	222.0	144.1	255.7	222.0		
min	15.6	15.0	18.0	12.9	4.8	15.1	8.2	15.9	13.0	26.1	3.0	16.9	3.0	3.0		
<b>Seasonal Rainfall, millimetres</b>																
mean													678.2	435.5		
max													936.0	592.8		
min													487.2	233.3		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	75.0	74.7	74.7	71.5	65.7	64.8	68.4	67.7	72.2	72.5	73.4	73.0	71.1	73.6		
median	82.1	82.4	82.0	80.7	76.8	74.3	77.8	78.7	80.1	80.6	82.5	80.2	79.9	81.5		
max	96.3	94.8	94.3	92.6	91.2	90.5	92.6	92.2	94.3	93.1	93.9	92.9	96.3	96.3		
min	2.4	0.6	1.0	1.0	1.2	2.7	0.0	0.8	5.7	2.9	0.2	5.0	0.0	0.2		
<b>Duff Moisture Code, DMC</b>																
mean	16.7	16.9	19.1	13.6	7.8	4.9	3.8	5.4	9.3	9.8	16.0	19.1	11.9	15.9		
median	13.3	14.9	15.1	12.7	5.6	2.9	3.4	4.9	8.3	8.1	12.7	15.6	8.7	12.9		
max	57.6	49.1	62.9	48.1	28.9	29.4	13.3	16.5	40.8	33.8	65.4	79.0	79.0	79.0		
min	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>Drought Code, DC</b>																
mean	221.1	261.0	278.0	285.7	222.7	144.0	107.2	65.0	65.5	68.2	107.1	184.7	169.3	202.5		
median	209.5	242.4	276.5	306.1	235.1	114.6	79.6	38.2	38.3	47.1	95.8	184.2	146.4	193.7		
max	447.7	513.1	594.8	606.8	487.7	500.0	405.5	353.7	324.5	331.4	312.1	356.2	606.8	606.8		
min	6.8	61.1	52.3	8.2	0.2	0.0	0.0	0.0	0.0	1.7	3.1	4.4	0.0	1.7		
<b>Initial Spread Index, ISI</b>																
mean	7.9	5.9	6.2	5.1	4.1	3.1	3.7	3.8	6.3	6.6	8.1	6.3	5.6	6.6		
median	4.2	3.6	3.2	3.1	2.3	1.7	2.3	2.2	3.5	4.0	4.3	3.6	3.0	3.7		
max	72.1	49.5	61.6	44.1	46.1	30.7	29.6	38.9	78.5	63.8	69.5	56.3	78.5	72.1		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	27.1	28.0	31.4	23.7	14.0	8.5	5.8	7.5	11.8	12.6	21.6	28.4	18.4	24.8		
median	22.5	26.3	26.8	22.4	10.3	4.8	4.7	6.2	10.3	11.4	18.6	25.4	13.6	21.0		
max	82.8	73.9	92.7	78.4	49.6	51.2	22.9	29.6	40.7	33.7	71.8	90.4	92.7	92.7		
min	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	12.1	10.0	11.0	8.0	5.2	3.1	3.0	3.5	6.6	7.2	11.2	10.3	7.6	10.0		
median	7.6	7.3	5.8	5.3	2.7	0.8	1.2	1.4	3.6	4.5	7.4	6.6	4.0	6.4		
max	85.6	61.1	72.7	54.2	51.4	40.7	27.2	37.0	47.9	55.5	79.2	61.0	85.6	85.6		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	4.1	2.7	3.6	2.0	1.1	0.5	0.4	0.6	1.5	1.6	3.5	3.0	2.1	3.0		
median	1.0	0.9	0.6	0.5	0.2	0.0	0.0	0.0	0.3	0.4	0.9	0.8	0.3	0.7		
max	71.7	39.4	53.6	31.9	29.1	19.2	9.4	16.3	25.6	33.2	62.4	39.4	71.7	71.7		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	132.4	77.4	110.9	56.0	34.4	16.8	12.7	17.9	44.9	50.5	106.1	92.9	62.7	89.4		
max	356.5	182.3	439.9	172.8	166.6	63.4	28.8	51.9	129.9	175.9	274.7	180.3	439.9	439.9		
min	31.5	15.6	10.5	7.5	1.0	2.1	1.4	1.0	3.5	8.9	3.8	15.6	1.0	3.8		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													752.7	629.3		
max													1185.0	1291.4		
min													405.1	279.0		

Station Name: Macrae's Raws (MCR)														Period: 2007-01-01 - 2021-07-01	Length of record: 14 years
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Forest Fire Danger Class (FFDC) Frequency</b>															
<b>Low</b>															
mean	11.8	10.8	14.7	15.1	21.2	25.2	27.9	25.7	19.9	18.4	12.6	12.2	215.6	94.5	
max	26	22	29	27	31	30	31	31	29	29	29	25	279	134	
min	1	4	1	3	2	14	19	17	7	5	0	5	153	64	
<b>Moderate</b>															
mean	11.9	12.2	9.6	11.2	8.0	4.1	3.1	5.1	8.4	11.1	12.1	12.6	109.5	81.9	
max	22	19	16	18	27	11	12	12	18	18	25	18	164	105	
min	4	5	2	3	0	0	0	0	1	2	1	6	71	59	
<b>High</b>															
mean	4.1	3.4	3.0	2.6	1.4	0.6	0.0	0.2	1.5	1.3	3.1	4.1	25.3	21.5	
max	9	10	9	8	9	4	0	2	10	7	7	10	37	41	
min	0	0	0	0	0	0	0	0	0	0	0	0	10	6	
<b>Very High</b>															
mean	1.2	1.3	1.6	0.5	0.4	0.1	0.0	0.0	0.1	0.1	1.2	1.3	7.9	7.0	
max	4	5	5	2	3	1	0	0	1	1	5	3	14	14	
min	0	0	0	0	0	0	0	0	0	0	0	0	1	2	
<b>Extreme</b>															
mean	1.5	0.6	1.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.6	5.4	5.8	
max	5	4	7	6	0	0	0	0	0	0	5	4	18	21	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0.5	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.6	1.6	
max	4	0	7	0	0	0	0	0	0	0	2	3	7	9	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Grass Fire Danger Class (GFDC) Frequency</b>															
Curing source Otago (Coastal Otago)															
Curing%	60	70	60	60	30	30	30	40	50	50	40	60			
<b>Low</b>															
mean	3.8	3.3	4.4	5.6	9.4	8.5	7.1	7.1	4.3	4.5	4.9	5.3	68.1	31.1	
max	11	9	10	13	22	18	15	20	9	11	16	13	97	48	
min	1	0	0	1	0	2	0	1	1	0	0	1	46	17	
<b>Moderate</b>															
mean	18.6	14.9	19.7	19.4	19.1	19.3	21.1	20.8	17.5	17.4	15.7	18.8	222.1	125.1	
max	22	21	23	26	29	28	26	26	24	26	26	24	250	146	
min	13	9	15	15	9	11	15	10	9	9	10	15	197	102	
<b>High</b>															
mean	6.3	7.1	5.2	4.5	2.1	2.2	2.8	2.4	6.1	6.6	6.9	5.4	57.6	42.1	
max	11	15	9	9	8	4	8	6	11	12	18	10	71	57	
min	3	2	1	1	0	0	0	0	0	1	1	0	36	32	
<b>Very High</b>															
mean	2.1	1.7	1.6	0.6	0.4	0.0	0.0	0.6	1.7	2.3	2.3	1.5	14.9	12.0	
max	6	5	7	2	4	0	0	3	3	8	7	4	23	21	
min	0	0	0	0	0	0	0	0	0	0	0	0	7	6	
<b>Extreme</b>															
mean	0.2	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.3	0.1	2.6	2.0	
max	1	3	1	0	0	0	0	0	2	2	2	1	5	7	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Scrub Fire Danger Class (SFDC) Frequency</b>															
<b>Low</b>															
mean	4.8	4.6	5.4	6.4	9.5	9.1	6.9	8.1	6.9	6.9	5.9	6.4	80.9	40.1	
max	10	11	10	15	21	17	15	20	10	16	18	15	113	61	
min	1	0	1	2	0	3	0	2	3	2	0	2	53	22	
<b>Moderate</b>															
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	
max	0	0	0	0	0	0	0	1	0	0	0	0	1	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>High</b>															
mean	1.4	1.7	2.8	1.9	1.9	2.7	3.1	2.4	1.5	1.1	1.3	1.2	22.9	11.1	
max	5	4	6	4	7	8	9	6	4	4	5	7	33	17	
min	0	0	1	0	0	0	0	0	0	0	0	0	16	5	
<b>Very High</b>															
mean	2.4	3.0	2.9	3.1	3.1	5.6	3.8	4.6	2.9	2.3	2.6	3.1	39.5	19.5	
max	5	8	5	6	6	10	7	11	9	6	5	6	52	29	
min	0	0	0	1	0	2	1	1	1	0	0	0	28	8	
<b>Extreme</b>															
mean	6.9	6.2	7.7	7.9	6.6	5.4	8.7	6.9	5.6	6.0	5.0	5.9	78.8	45.6	
max	11	10	10	15	15	9	12	13	10	12	8	9	90	58	
min	1	3	4	1	0	2	4	3	1	2	2	3	61	27	
<b>Very Extreme</b>															
mean	15.6	12.8	12.1	10.8	9.9	7.2	8.5	8.9	13.1	14.8	15.1	14.3	143.1	96.0	
max	21	19	21	20	20	12	15	17	21	24	27	19	163	128	
min	7	5	3	5	1	3	1	2	5	6	3	9	116	74	

### Windroses for Macrae's Raws (MCR)

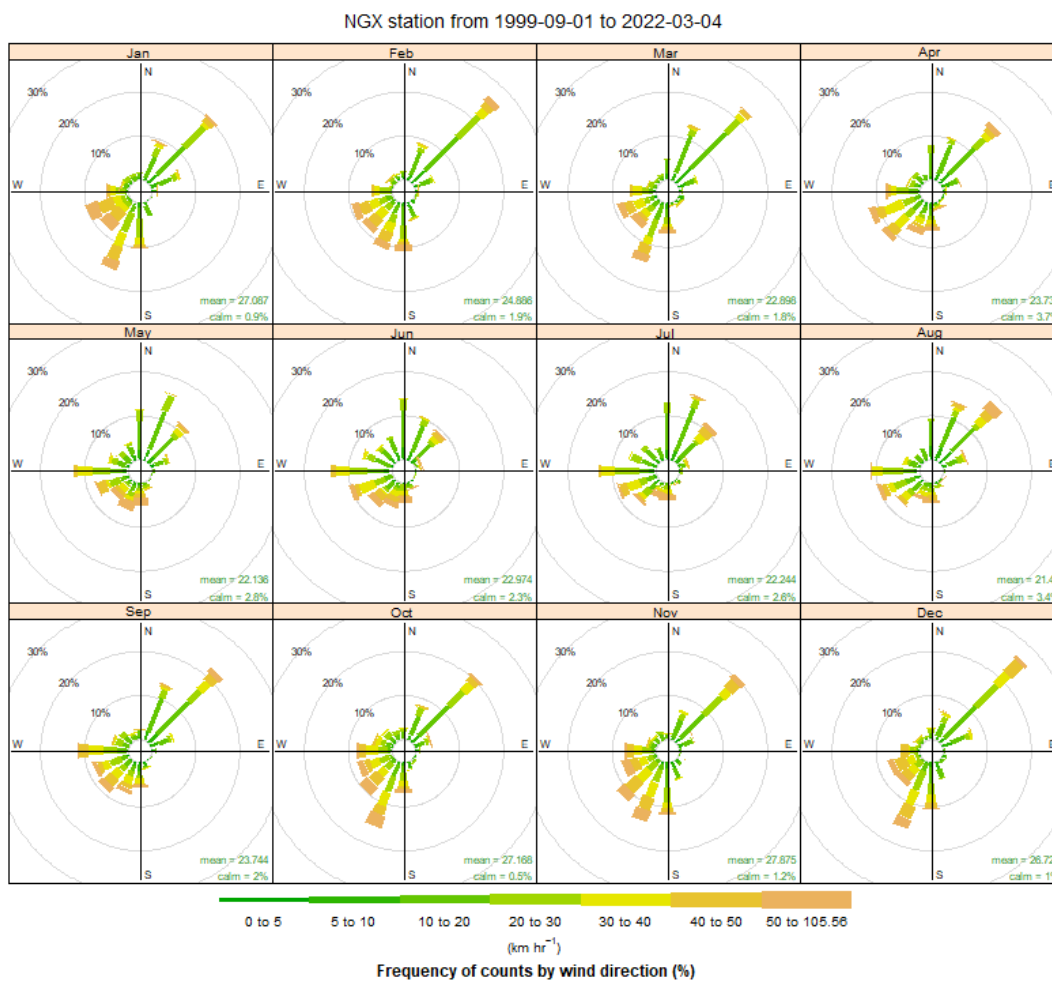
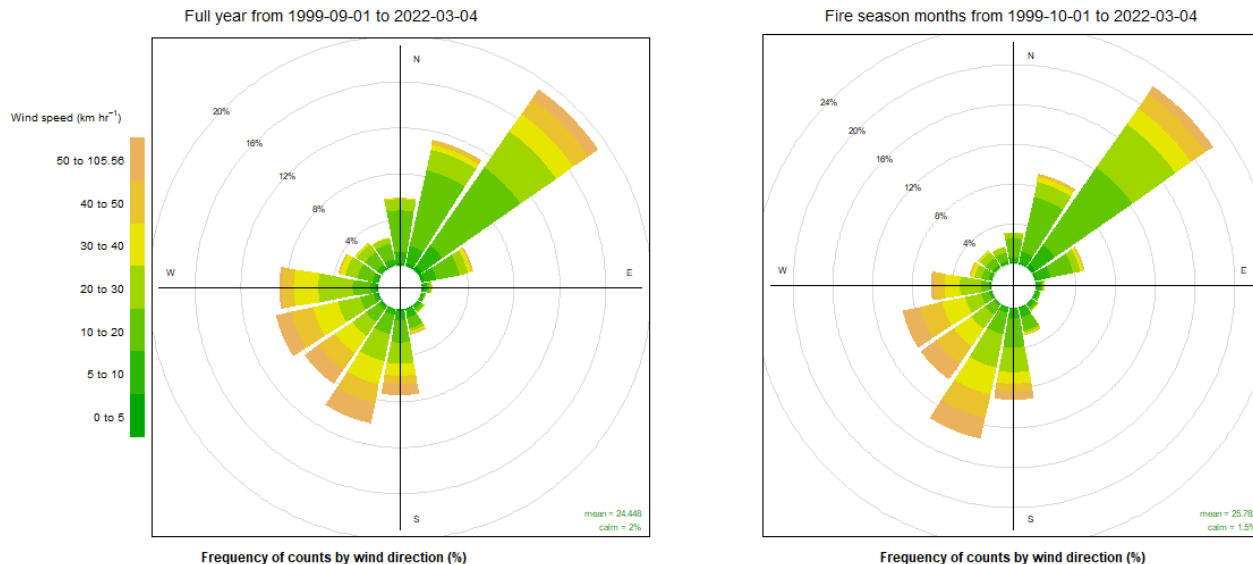


Station Name: Nugget Point Aws (NGX)	Period: 1999-09-01 - 2022-03-04												Length of record: 22 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	15.4	15.3	14.3	12.2	9.8	8.0	7.4	8.5	10.2	11.5	12.7	14.7	11.7	13.7
median	15.0	15.0	14.0	12.0	10.0	7.9	7.2	8.3	10.0	11.0	12.4	14.5	11.4	13.6
max	28.5	26.7	26.5	22.2	20.4	17.1	16.5	17.6	20.0	25.0	27.0	29.0	29.0	29.0
min	7.0	7.3	5.0	3.0	0.5	1.0	0.5	0.1	-0.1	2.0	4.0	6.0	-0.1	2.0
<b>Relative Humidity, %</b>														
mean	75.2	74.9	75.8	76.9	80.0	80.0	80.1	78.8	73.5	73.0	73.4	74.5	76.3	74.8
median	75	75	76	77	80	81	80	79	74	74	74	74	77	75
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	32.0	36.0	29.0	43.0	41.0	40.4	34.0	42.0	29.0	33.0	31.0	27.0	27.0	27.0
<b>Wind Speed, km/h</b>														
mean	26.9	25.0	22.8	23.6	22.2	23.1	22.1	22.1	24.0	27.1	28.0	27.4	24.6	25.9
median	24.0	20.4	18.5	19.0	19.0	19.0	19.0	18.5	20.0	24.0	24.1	24.1	20.4	22.2
max	90.7	77.8	87.0	94.5	105.6	91.0	91.0	94.5	80.0	83.3	83.0	77.8	105.6	94.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	2.4	2.3	1.7	2.1	2.5	2.3	1.8	1.7	1.9	2.3	2.4	2.0	2.1	2.2
median	0.2	0.0	0.0	0.2	0.3	0.4	0.2	0.2	0.2	0.4	0.6	0.2	0.2	0.2
max	49.4	66.4	61.2	33.0	65.8	39.4	34.4	21.0	34.0	32.0	26.2	53.0	66.4	66.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	76.1	63.2	52.0	62.8	76.4	68.1	56.4	51.3	54.7	69.7	70.0	63.1	63.6	65.3
max	137.4	177.8	107.0	121.4	166.6	143.8	107.4	106.6	113.8	126.0	127.6	169.6	177.8	177.8
min	18.8	19.4	0.0	23.6	8.6	21.8	20.8	13.0	17.6	28.6	29.0	11.4	0.0	0.0
<b>Seasonal Rainfall, millimetres</b>														
mean													763.7	460.2
max													945.8	629.2
min													619.2	368.6
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	67.2	69.2	70.5	64.7	58.4	58.3	59.6	61.1	65.4	66.4	67.2	69.5	64.8	67.8
median	74.8	76.1	76.1	71.9	62.8	62.1	65.7	66.7	71.0	72.0	73.0	76.7	71.6	74.6
max	90.9	89.9	90.7	87.4	88.6	86.1	86.6	86.6	90.0	90.4	89.5	90.6	90.9	90.9
min	2.2	1.1	5.1	3.0	0.0	2.9	3.4	1.0	0.6	2.1	8.3	3.3	0.0	1.1
<b>Duff Moisture Code, DMC</b>														
mean	8.0	7.9	8.7	5.1	2.0	1.0	1.1	1.9	3.5	4.1	5.0	8.1	4.7	6.7
median	6.3	7.1	7.0	4.4	1.2	0.5	0.7	1.3	3.0	3.5	4.4	7.1	3.2	5.4
max	34.0	27.0	35.0	23.2	14.3	15.1	6.4	9.0	14.2	18.1	20.9	29.6	35.0	35.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	222.7	258.4	287.0	283.6	211.6	126.7	82.4	60.6	54.4	55.6	88.4	165.0	157.2	192.5
median	225.7	265.5	293.2	289.8	192.4	128.5	70.1	43.9	41.4	47.0	84.5	168.2	136.0	183.2
max	505.3	426.4	474.5	485.8	430.2	425.9	292.2	185.1	204.7	215.5	221.5	322.5	505.3	505.3
min	6.1	4.8	78.9	55.8	0.5	0.1	0.0	0.0	0.0	1.9	3.7	5.0	0.0	1.9
<b>Initial Spread Index, ISI</b>														
mean	3.6	3.8	3.2	2.6	1.7	1.5	1.8	1.9	2.8	3.3	3.6	4.1	2.8	3.5
median	2.6	2.7	2.2	1.8	1.1	1.1	1.3	1.4	1.9	2.1	2.4	2.9	1.8	2.4
max	23.7	32.0	22.7	26.0	27.5	20.4	18.9	16.3	23.7	42.4	30.8	35.9	42.4	42.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	14.1	14.3	15.6	9.6	3.7	1.9	2.0	3.2	5.3	6.2	8.4	13.9	8.2	11.7
median	11.7	13.3	12.9	8.3	2.3	1.0	1.3	2.3	4.7	5.4	7.6	12.7	5.6	9.7
max	52.9	44.9	57.6	40.4	23.8	25.0	12.1	12.5	18.1	21.6	32.4	46.4	57.6	57.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	4.7	4.8	4.3	2.8	1.1	0.7	0.9	1.2	2.2	2.7	3.4	5.1	2.8	4.0
median	3.0	3.2	2.5	1.0	0.4	0.3	0.4	0.4	0.8	1.1	2.1	3.7	0.9	2.3
max	33.2	35.0	31.4	27.9	22.1	16.7	13.2	12.9	18.4	31.6	29.5	34.7	35.0	35.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	0.8	0.8	0.7	0.3	0.1	0.0	0.1	0.1	0.2	0.3	0.5	0.9	0.4	0.6
median	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.1
max	13.4	14.7	12.1	9.8	6.5	4.0	2.6	2.5	4.7	12.3	10.8	14.5	14.7	14.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	24.6	23.5	21.0	10.0	2.9	1.2	1.7	2.8	7.4	9.9	14.5	26.1	12.1	18.5
max	65.2	71.6	65.4	27.7	15.2	7.4	6.7	7.0	19.7	31.0	64.0	92.4	92.4	92.4
min	4.9	2.7	1.6	1.4	0.3	0.1	0.2	0.3	0.8	1.6	3.1	3.7	0.1	1.4
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													145.6	130.2
max													206.6	198.2
min													84.3	73.9

Station Name: Nugget Point Aws (NGX)      Period: 1999-09-01 - 2022-03-04      Length of record: 22 years														FIRE SEASON
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	21.4	18.9	21.7	25.3	30.5	29.8	30.9	30.7	28.2	28.4	25.8	20.5	312.0	162.0
max	29	28	31	30	31	30	31	31	30	31	30	31	336	186
min	6	7	7	17	24	27	29	29	25	24	17	7	292	140
<b>Moderate</b>														
mean	8.3	8.5	8.6	4.5	0.5	0.2	0.1	0.3	1.8	2.6	4.0	9.8	49.3	46.4
max	23	19	22	13	7	3	2	2	5	7	10	22	70	68
min	2	0	0	0	0	0	0	0	0	0	0	0	29	25
<b>High</b>														
mean	1.1	1.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	3.6	3.6
max	4	5	2	2	0	0	0	0	0	0	4	6	9	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
max	2	0	2	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Otago (Coastal Otago)														
Curing%	60	70	60	60	30	30	30	40	50	50	40	60		
<b>Low</b>														
mean	6.5	3.9	4.9	7.2	12.7	12.5	11.8	10.3	6.4	5.5	5.4	4.7	91.7	38.5
max	13	9	12	12	22	24	21	20	13	13	12	11	115	54
min	2	0	0	3	0	6	5	1	0	0	1	0	72	24
<b>Moderate</b>														
mean	21.3	17.9	24.0	21.4	18.0	17.4	19.0	20.1	21.0	22.0	21.5	22.6	246.0	149.7
max	26	22	29	26	30	24	26	30	26	27	26	27	266	164
min	13	10	18	17	9	6	10	10	14	16	16	17	214	129
<b>High</b>														
mean	3.3	5.3	2.1	1.3	0.3	0.1	0.2	0.6	2.4	3.4	3.0	3.4	25.5	22.0
max	7	11	5	3	2	1	1	3	5	9	7	9	37	34
min	0	1	0	0	0	0	0	0	0	0	1	1	16	15
<b>Very High</b>														
mean	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.3	1.9	1.9
max	0	4	0	1	0	0	0	0	1	2	2	3	5	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	0	3	0	0	0	0	0	0	0	1	0	0	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	8.8	6.5	6.3	9.8	13.9	14.0	12.9	12.2	9.7	9.3	8.0	7.4	118.7	56.5
max	15	13	12	17	24	24	21	20	17	18	16	18	138	75
min	3	1	0	4	1	7	6	1	2	3	2	1	93	37
<b>Moderate</b>														
mean	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.2
max	1	0	1	0	0	1	1	0	1	0	0	1	3	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.3	2.3	3.5	3.1	3.6	4.1	3.5	3.8	3.0	2.0	1.8	1.8	33.8	15.8
max	4	5	9	6	10	8	7	7	6	4	4	4	45	24
min	0	0	0	0	1	0	1	1	0	0	0	0	21	9
<b>Very High</b>														
mean	3.7	3.4	5.6	4.7	5.2	5.3	5.8	5.5	4.2	5.1	4.0	2.9	55.4	29.3
max	7	7	10	8	16	11	10	9	8	9	8	7	67	38
min	1	1	1	1	1	1	1	2	1	0	1	0	40	21
<b>Extreme</b>														
mean	8.0	7.6	8.1	6.4	6.0	4.5	6.1	5.8	7.1	6.7	7.6	7.9	81.7	51.9
max	13	12	18	12	19	9	12	17	14	12	13	15	101	65
min	3	2	4	1	2	1	1	1	2	0	2	3	66	36
<b>Very Extreme</b>														
mean	9.1	8.5	7.4	6.0	2.4	2.2	2.6	3.7	5.9	8.0	8.6	11.0	75.3	58.5
max	15	15	13	11	8	7	8	7	10	15	18	20	89	73
min	4	3	3	2	0	0	0	0	2	3	4	6	63	45



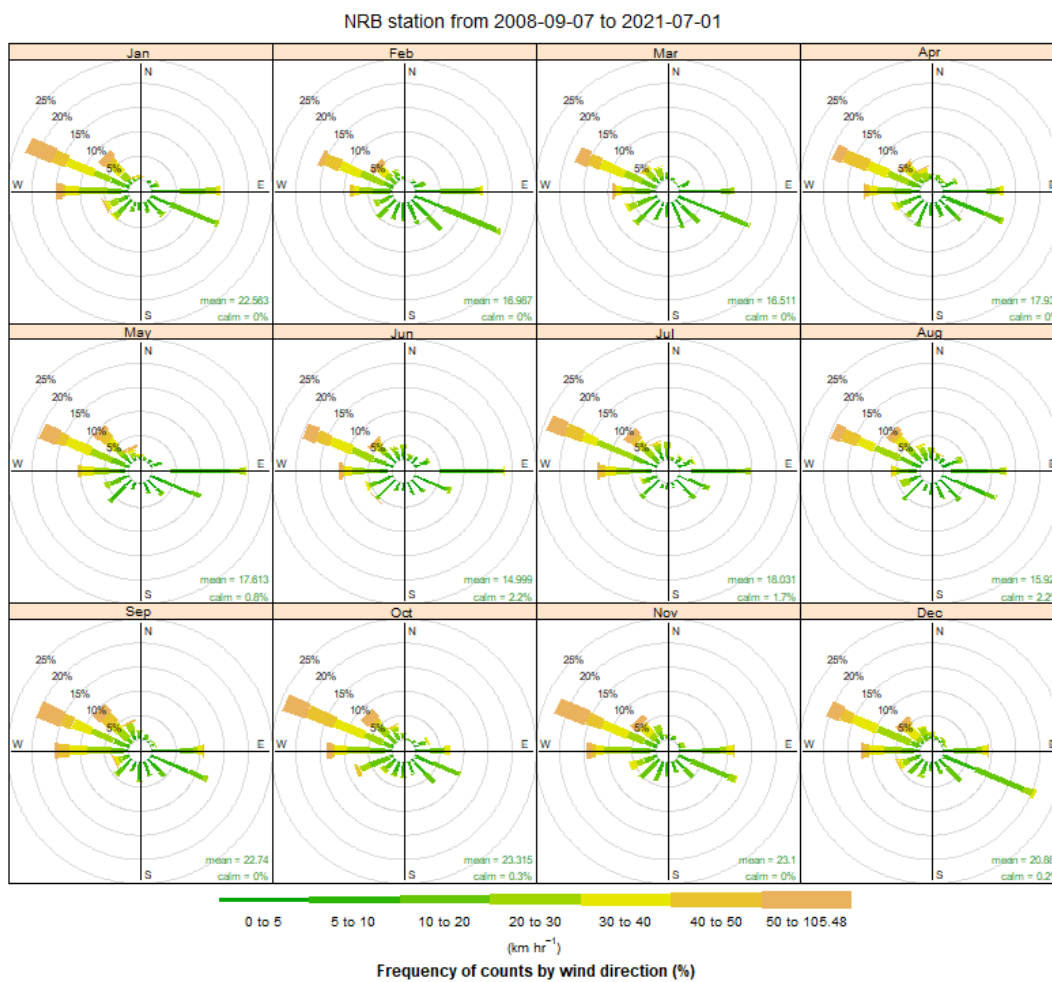
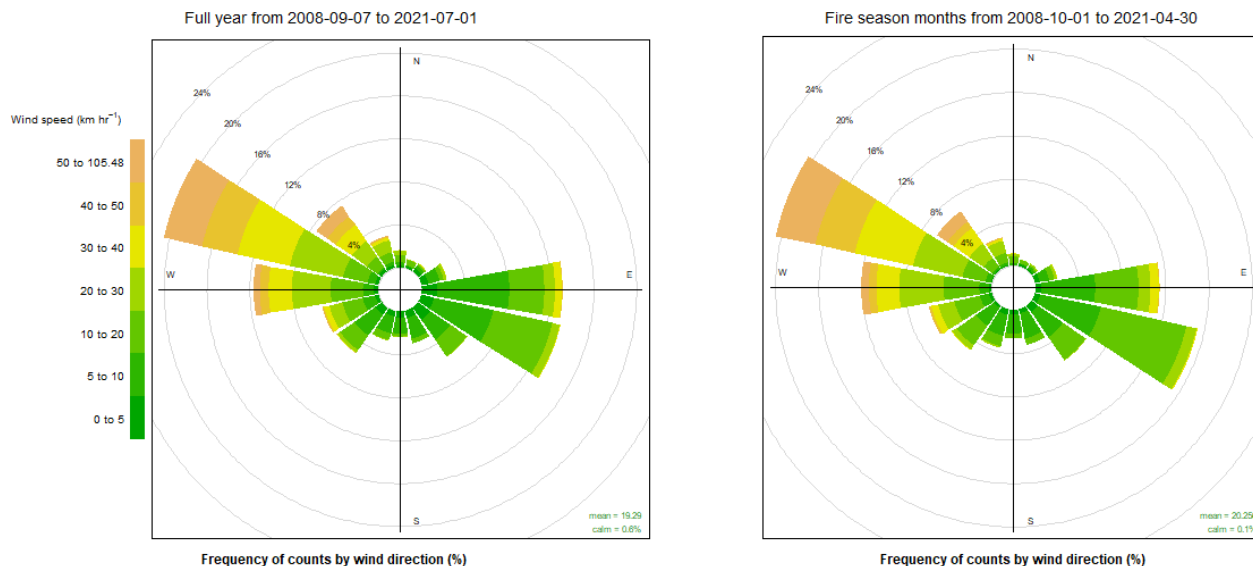
Windroses for Nugget Point Aws (NGX)



Station Name: Naseby Forest Raws (NRB)      Period: 2008-09-07 - 2021-07-01      Length of record: 12 years													FIRE SEASON		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR		
<b>Temperature, degrees Celsius</b>															
mean	17.3	17.0	15.2	12.2	9.1	6.3	6.0	7.6	9.6	11.4	13.8	16.2	11.9	14.7	
median	17.5	17.4	15.8	12.4	9.7	6.2	5.9	8.0	9.9	11.8	13.8	16.8	11.6	14.9	
max	31.1	28.7	25.3	21.4	19.2	16.1	15.4	17.0	20.6	23.7	25.3	28.3	31.1	31.1	
min	4.4	3.4	1.8	-0.9	-3.3	-3.1	-3.0	-3.9	-1.8	0.3	-1.7	3.4	-3.9	-1.7	
<b>Relative Humidity, %</b>															
mean	55.7	59.2	61.4	63.1	65.9	68.8	63.3	63.6	57.1	56.7	55.7	56.8	60.6	58.3	
median	53.0	58.0	60.0	60.5	63.0	68.5	60.0	62.0	54.0	54.0	52.0	54.0	58.0	56.0	
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
min	11	14	17	22	24	19	21	14	11	12	18	14	11	11	
<b>Wind Speed, km/h</b>															
mean	22.5	17.2	16.3	17.7	17.4	14.5	17.5	15.8	22.7	23.3	23.0	20.9	19.1	20.2	
median	17.8	12.2	10.8	11.9	9.7	7.9	11.2	9.0	16.7	18.4	17.6	17.6	13.3	15.1	
max	84.6	71.3	74.5	74.9	90.0	71.3	67.0	68.0	105.5	85.7	92.9	71.3	105.5	92.9	
min	3.2	1.4	1.7	0.7	0.0	0.0	0.0	0.0	1.4	0.0	2.5	0.0	0.0	0.0	
<b>24-hr Rainfall, millimetres</b>															
mean	2.8	2.4	2.0	2.0	2.3	1.6	1.4	1.4	1.3	2.3	2.3	2.1	2.0	2.3	
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	69.8	56.2	51.4	41.4	47.0	40.0	34.6	59.6	32.6	58.6	60.4	54.8	69.8	69.8	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Rainfall, millimetres</b>															
mean	77.8	70.4	64.9	63.0	69.4	48.5	44.5	44.6	38.8	74.2	72.1	62.1	60.9	69.2	
max	156.6	188.6	127.8	138.2	134.6	132.2	148.4	96.0	78.2	125.8	218.0	106.2	218.0	218.0	
min	18.2	18.2	19.4	17.8	19.0	3.0	12.0	9.4	8.6	37.4	7.2	21.4	3.0	7.2	
<b>Seasonal Rainfall, millimetres</b>															
mean													730.5	483.0	
max													1036.8	636.8	
min													460.1	280.8	
<b>Fine Fuel Moisture Code, FFMC</b>															
mean	75.7	74.5	72.3	69.3	65.0	65.1	69.3	69.3	74.3	70.9	74.2	74.4	71.2	73.0	
median	85.0	84.0	81.2	80.8	75.6	74.3	77.9	78.4	82.0	80.5	83.1	82.9	80.7	82.6	
max	95.9	95.3	93.7	91.6	90.0	89.9	89.4	91.8	94.0	93.6	93.7	94.4	95.9	95.9	
min	0.0	1.1	0.0	1.8	2.7	2.7	1.1	7.6	13.8	3.4	2.6	4.4	0.0	0.0	
<b>Duff Moisture Code, DMC</b>															
mean	19.5	20.3	18.1	11.9	7.3	3.7	3.9	6.0	10.3	10.8	14.7	19.7	12.2	16.4	
median	16.1	19.4	13.2	10.7	5.4	2.6	3.5	4.8	8.6	8.8	12.0	19.3	9.1	14.0	
max	63.2	54.4	66.4	38.1	27.5	17.8	13.1	18.1	43.6	38.4	53.6	68.2	68.2	68.2	
min	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.0	0.0	
<b>Drought Code, DC</b>															
mean	200.6	232.1	245.0	233.1	175.4	102.5	76.1	57.0	55.5	62.8	89.1	174.0	142.6	176.1	
median	192.4	219.0	262.4	222.6	160.8	111.1	75.4	32.1	26.8	43.3	74.2	167.3	124.0	168.3	
max	451.9	444.6	505.5	517.8	462.1	374.3	197.4	227.1	215.5	225.9	296.7	392.5	517.8	517.8	
min	5.6	64.7	2.2	1.6	0.0	0.0	0.0	0.0	0.0	1.1	2.7	37.6	0.0	1.1	
<b>Initial Spread Index, ISI</b>															
mean	9.7	6.7	5.7	5.2	3.8	3.1	4.0	3.9	7.2	7.5	9.3	7.5	6.2	7.4	
median	4.6	3.4	2.7	2.5	1.8	1.3	2.1	2.0	3.4	3.0	4.0	4.1	2.7	3.4	
max	109.8	68.1	52.0	49.6	29.4	33.9	33.4	36.0	81.5	70.4	70.9	50.5	109.8	109.8	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Buildup Index, BUI</b>															
mean	30.4	32.1	28.9	20.0	12.4	6.2	6.3	8.4	12.8	13.5	19.7	29.2	18.4	24.8	
median	25.7	31.2	22.7	19.1	9.7	4.3	5.7	5.8	10.1	11.6	16.3	28.7	14.0	21.4	
max	85.6	80.0	87.5	64.3	45.9	31.0	20.2	30.0	56.5	53.9	73.8	79.7	87.5	87.5	
min	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.4	0.0	0.0	
<b>Fire Weather Index, FWI</b>															
mean	14.7	11.4	9.7	7.4	4.4	2.4	3.2	3.9	7.5	7.7	11.4	12.0	8.0	10.6	
median	9.4	7.5	4.8	3.8	1.9	0.5	1.0	1.1	4.0	3.7	6.5	8.1	3.3	6.0	
max	110.9	87.7	77.8	64.4	38.0	30.8	31.9	39.2	82.0	56.3	83.1	59.1	110.9	110.9	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Daily Severity Rating, DSR</b>															
mean	5.7	3.9	3.3	2.1	0.9	0.4	0.5	0.8	2.0	2.1	4.0	3.8	2.5	3.6	
median	1.4	1.0	0.4	0.3	0.1	0.0	0.0	0.0	0.3	0.3	0.7	1.1	0.2	0.6	
max	113.2	74.8	60.4	43.3	17.0	11.7	12.5	18.0	66.3	34.1	68.0	37.2	113.2	113.2	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Severity Rating, MSR</b>															
mean	182.5	116.8	103.2	60.1	25.1	12.5	16.8	24.2	59.3	62.1	114.4	117.0	74.5	108.0	
max	345.5	277.7	482.1	271.2	60.9	35.6	39.5	90.8	261.8	202.2	524.3	268.3	524.3	524.3	
min	53.0	17.1	11.8	7.0	1.8	1.1	0.3	1.2	17.5	14.4	18.7	42.4	0.3	7.0	
<b>Cumulative Daily Severity Rating, CDSR</b>															
mean													893.9	756.0	
max													1944.9	2015.0	
min													464.5	299.8	

Station Name: Naseby Forest Raws (NRB)      Period: 2008-09-07 - 2021-07-01      Length of record: 12 years														
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	10.7	10.6	16.2	17.8	23.8	27.7	27.1	25.8	19.4	19.5	14.6	12.2	225.4	100.4
max	18	18	27	26	31	30	31	31	28	31	24	23	289	138
min	4	1	2	8	17	24	20	15	2	9	1	7	155	50
<b>Moderate</b>														
mean	10.5	10.9	9.2	9.2	6.1	2.2	3.8	4.2	9.1	9.4	10.6	10.6	95.8	71.6
max	14	15	18	17	11	5	11	11	16	18	24	18	121	91
min	7	6	4	4	0	0	0	0	2	0	5	6	56	55
<b>High</b>														
mean	4.5	3.4	3.1	1.7	0.9	0.2	0.1	0.9	1.0	1.9	3.2	4.3	25.2	22.4
max	9	7	9	4	4	2	1	5	6	8	9	6	44	33
min	1	1	0	0	0	0	0	0	0	0	0	2	12	12
<b>Very High</b>														
mean	2.5	1.7	0.8	0.4	0.2	0.0	0.0	0.1	0.1	0.0	0.9	2.4	9.1	8.6
max	6	5	2	2	1	0	0	1	1	0	4	5	20	19
min	0	0	0	0	0	0	0	0	0	0	0	0	2	2
<b>Extreme</b>														
mean	1.9	1.4	0.8	0.7	0.0	0.0	0.0	0.0	0.4	0.2	0.3	1.2	6.9	6.6
max	8	6	4	6	0	0	0	0	5	2	4	6	26	24
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.9	0.2	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	2.8	2.6
max	5	3	8	2	0	0	0	0	0	0	5	2	15	20
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Otago (Inland Otago)														
Curing%	80	90	80	60	50	50	60	70	60	40	40	70		
<b>Low</b>														
mean	3.6	4.0	5.6	8.2	9.5	8.6	8.2	6.8	5.2	6.7	6.2	4.6	77.2	37.6
max	12	9	10	18	21	15	19	16	9	13	11	8	97	56
min	0	0	0	1	2	0	0	1	0	2	0	2	57	23
<b>Moderate</b>														
mean	10.0	9.8	14.2	16.4	16.6	18.1	19.2	17.8	16.7	16.8	14.3	12.8	182.7	95.1
max	15	21	21	22	24	28	26	21	22	22	22	17	223	117
min	6	2	7	11	9	12	12	12	11	9	10	8	166	71
<b>High</b>														
mean	8.6	7.8	6.5	4.0	3.7	2.2	2.4	4.2	5.8	4.8	5.5	7.8	63.3	45.5
max	14	15	11	7	7	5	6	7	9	10	10	10	80	67
min	5	4	1	0	0	0	0	1	1	2	2	3	44	28
<b>Very High</b>														
mean	2.9	2.4	2.0	1.3	1.2	1.2	1.2	1.6	2.2	2.5	3.6	3.8	25.8	18.8
max	7	5	3	6	5	3	3	5	5	7	10	7	38	28
min	1	0	0	0	0	0	0	0	0	0	0	0	18	7
<b>Extreme</b>														
mean	4.7	2.8	2.2	0.0	0.0	0.0	0.0	0.6	0.1	0.2	0.4	2.2	13.0	12.2
max	11	7	9	0	0	0	0	3	1	1	3	6	23	27
min	1	0	0	0	0	0	0	0	0	0	0	0	6	5
<b>Very Extreme</b>														
mean	1.2	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.1
max	4	3	3	0	0	0	0	0	0	0	0	0	7	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	5.0	5.3	7.2	8.2	10.2	8.2	8.5	8.1	6.0	8.0	6.7	5.8	87.3	45.2
max	13	11	13	18	20	16	20	18	9	13	12	9	107	60
min	1	0	1	2	4	0	3	1	0	4	0	3	61	27
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	0	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.7	2.8	3.1	3.1	3.9	6.2	3.8	4.2	1.7	2.5	1.9	2.3	37.2	17.0
max	4	8	5	10	11	11	9	7	4	5	3	4	47	25
min	0	0	0	1	0	3	1	1	0	0	0	1	25	9
<b>Very High</b>														
mean	2.1	2.2	3.8	2.3	3.0	4.4	3.5	3.8	2.9	3.2	1.7	2.6	35.5	18.8
max	3	4	9	4	10	10	6	9	6	6	5	6	47	30
min	1	0	0	1	1	1	2	1	1	1	0	1	26	12
<b>Extreme</b>														
mean	5.4	6.6	6.1	7.4	6.2	5.6	7.7	7.0	7.1	5.1	5.4	4.8	74.3	41.4
max	12	9	11	15	14	14	15	11	11	11	13	8	95	53
min	0	4	2	1	1	1	0	2	2	1	2	1	64	31
<b>Very Extreme</b>														
mean	16.8	11.3	10.8	8.9	7.7	5.6	7.4	8.0	12.3	12.2	14.3	15.4	130.8	89.8
max	22	24	23	16	15	12	12	16	18	21	26	22	163	120
min	11	4	4	5	2	2	1	1	5	7	9	8	109	72

### Windroses for Naseby Forest Raws (NRB)

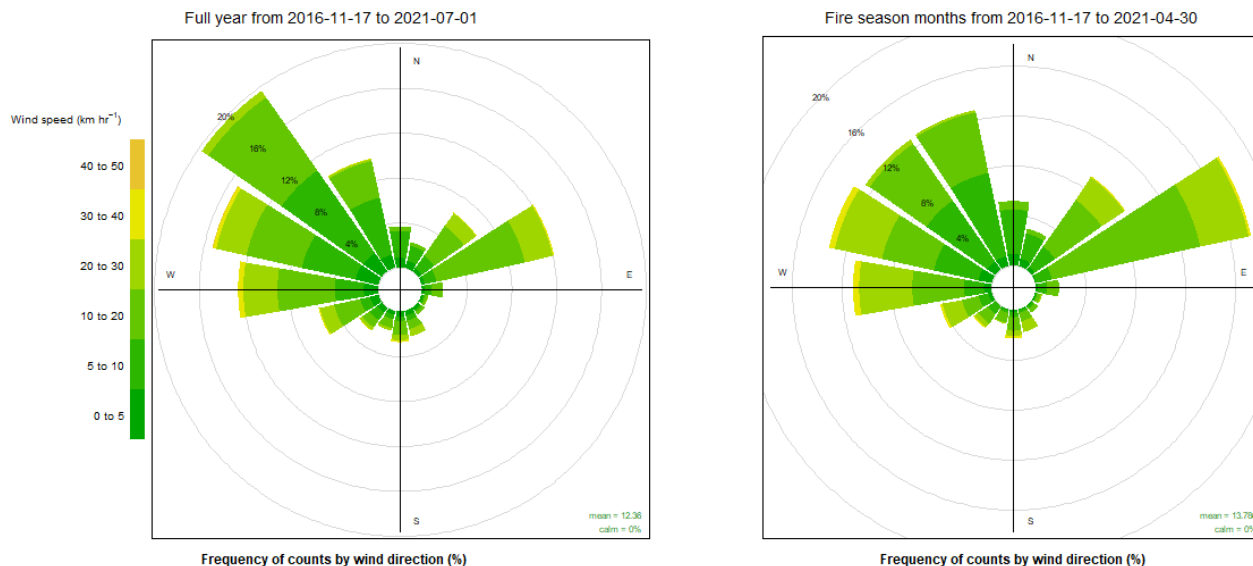


Station Name: Otematata Raws (Otematata)    Period: 2016-11-17 - 2021-07-01    Length of record: 4 years														
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	21.9	21.2	18.8	14.7	10.8	6.8	6.9	9.6	12.6	16.0	18.4	20.0	15.0	18.8
median	21.8	21.0	18.9	14.2	10.3	6.8	6.8	9.2	12.4	15.9	18.0	20.3	14.8	18.6
max	33.6	32.0	28.4	22.8	20.9	15.1	13.6	19.3	20.6	27.0	29.7	29.7	33.6	33.6
min	12.6	8.4	6.8	7.1	0.9	-0.4	-0.9	3.6	2.5	6.1	4.8	10.0	-0.9	4.8
<b>Relative Humidity, %</b>														
mean	46.4	48.3	55.1	58.0	69.1	75.8	72.2	63.5	53.3	47.8	47.9	47.5	57.1	50.2
median	43.0	47.0	55.0	56.0	71.0	78.5	73.0	65.0	53.0	45.0	44.0	44.0	56.0	49.0
max	93	97	93	96	97	97	100	95	91	92	95	94	100	97
min	16	15	22	32	31	34	36	23	27	22	17	13	13	13
<b>Wind Speed, km/h</b>														
mean	16.1	12.9	11.6	11.3	10.3	9.1	8.8	9.5	13.3	13.8	16.0	15.1	12.4	13.8
median	15.5	10.8	9.7	9.2	9.0	8.6	7.6	8.3	12.1	12.6	15.1	14.4	10.8	12.6
max	36.4	33.5	30.2	53.1	34.6	25.9	27.0	34.2	43.2	35.3	37.1	36.7	53.1	53.1
min	3.2	2.9	2.2	1.8	1.1	1.8	1.1	1.1	2.9	2.2	2.5	3.6	1.1	1.8
<b>24-hr Rainfall, millimetres</b>														
mean	1.6	1.7	1.2	1.4	1.2	0.6	1.5	0.4	0.9	1.1	2.1	1.8	1.3	1.5
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	34.4	52.0	20.8	27.4	20.4	14.8	32.6	8.2	28.8	21.6	70.6	18.6	70.6	70.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	38.3	55.1	40.1	49.4	32.4	17.1	46.7	11.3	27.8	35.0	66.2	62.0	40.1	49.4
max	65.3	128.6	60.0	63.0	54.2	21.2	100.2	23.8	61.4	59.4	144.6	90.0	144.6	144.6
min	18.0	4.8	19.8	30.6	18.6	13.6	19.4	2.0	9.2	17.4	29.9	45.9	2.0	4.8
<b>Seasonal Rainfall, millimetres</b>														
mean													481.3	340.0
max													631.0	418.4
min													378.8	256.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	83.4	83.6	80.6	76.9	74.1	71.3	66.7	78.7	79.4	81.0	81.0	80.3	78.1	81.0
median	88.0	87.9	84.8	83.7	79.4	77.1	73.9	81.4	84.1	85.8	86.7	87.1	83.3	86.3
max	95.6	95.5	93.1	90.8	89.9	87.3	87.6	91.2	91.1	93.2	94.8	96.3	96.3	96.3
min	18.7	11.3	17.0	8.9	12.8	27.9	11.2	41.7	19.3	23.1	6.9	20.7	6.9	6.9
<b>Duff Moisture Code, DMC</b>														
mean	39.3	47.1	41.7	26.6	15.0	7.2	3.8	9.0	19.3	27.8	28.2	30.5	25.2	34.6
median	34.6	45.9	42.1	18.2	10.3	5.1	4.0	8.5	18.5	26.8	25.0	25.8	18.4	31.9
max	103.1	106.0	119.0	70.6	69.4	25.2	9.2	25.4	43.4	62.4	69.0	71.7	119.0	119.0
min	2.7	6.3	4.7	2.3	1.6	0.4	0.0	0.5	4.1	5.0	2.6	2.7	0.0	2.3
<b>Drought Code, DC</b>														
mean	381.6	417.6	470.0	468.0	424.9	360.0	294.8	265.2	268.1	310.1	292.5	319.9	361.4	382.9
median	356.9	425.3	506.3	457.9	403.6	412.3	255.8	224.9	270.1	312.8	325.9	308.9	363.9	378.5
max	655.6	526.1	587.0	666.6	683.6	534.3	466.6	473.8	376.4	402.6	497.2	543.1	683.6	666.6
min	214.1	260.1	252.3	233.0	199.4	206.0	158.4	143.9	154.4	194.7	60.1	101.8	60.1	60.1
<b>Initial Spread Index, ISI</b>														
mean	8.4	6.6	4.6	3.8	2.2	1.5	1.4	2.9	4.4	5.9	7.0	6.7	4.7	6.1
median	6.6	5.6	3.5	2.6	1.7	1.3	1.2	2.2	3.4	4.4	6.1	5.5	2.9	4.6
max	39.3	23.1	24.3	37.9	10.7	9.6	10.6	28.3	25.2	33.4	33.8	31.9	39.3	39.3
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
<b>Buildup Index, BUI</b>														
mean	60.6	72.0	66.6	45.3	26.9	13.6	7.3	16.4	32.0	43.7	43.9	47.6	40.5	54.6
median	55.7	71.6	69.7	33.2	19.4	10.0	7.9	15.5	31.6	43.6	40.4	42.0	32.0	51.9
max	136.8	140.5	156.3	110.0	110.7	45.1	16.9	44.8	63.5	81.1	100.3	107.6	156.3	156.3
min	5.3	11.9	9.0	4.6	3.2	0.8	0.0	0.9	7.9	9.5	4.7	5.3	0.0	4.6
<b>Fire Weather Index, FWI</b>														
mean	20.2	18.6	13.6	9.1	4.1	1.8	1.1	4.1	8.8	12.6	15.0	15.3	10.5	15.0
median	18.9	18.2	11.6	5.9	2.2	0.8	0.5	2.9	6.8	10.4	14.5	12.9	6.3	13.0
max	83.5	58.1	54.8	58.5	34.0	19.7	13.1	39.9	35.6	44.7	60.2	62.9	83.5	83.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	7.6	6.0	4.0	2.4	0.6	0.2	0.1	0.7	1.9	3.4	4.6	5.0	3.1	4.8
median	4.9	4.6	2.1	0.6	0.1	0.0	0.0	0.2	0.8	1.7	3.1	2.5	0.7	2.5
max	68.5	36.1	32.5	36.5	14.0	5.3	2.6	18.6	15.2	22.7	38.4	41.5	68.5	68.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	274.5	174.8	120.4	40.2	9.2	6.6	2.3	20.9	57.6	104.5	132.0	145.0	90.7	141.6
max	364.8	314.4	182.8	59.1	14.2	18.3	3.6	52.0	101.4	164.4	196.4	278.2	364.8	364.8
min	161.8	80.1	32.4	14.6	1.6	0.9	0.1	3.8	25.0	73.3	37.1	45.5	0.1	14.6
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1088.1	960.7
max													1336.5	1106.7
min													711.9	825.5

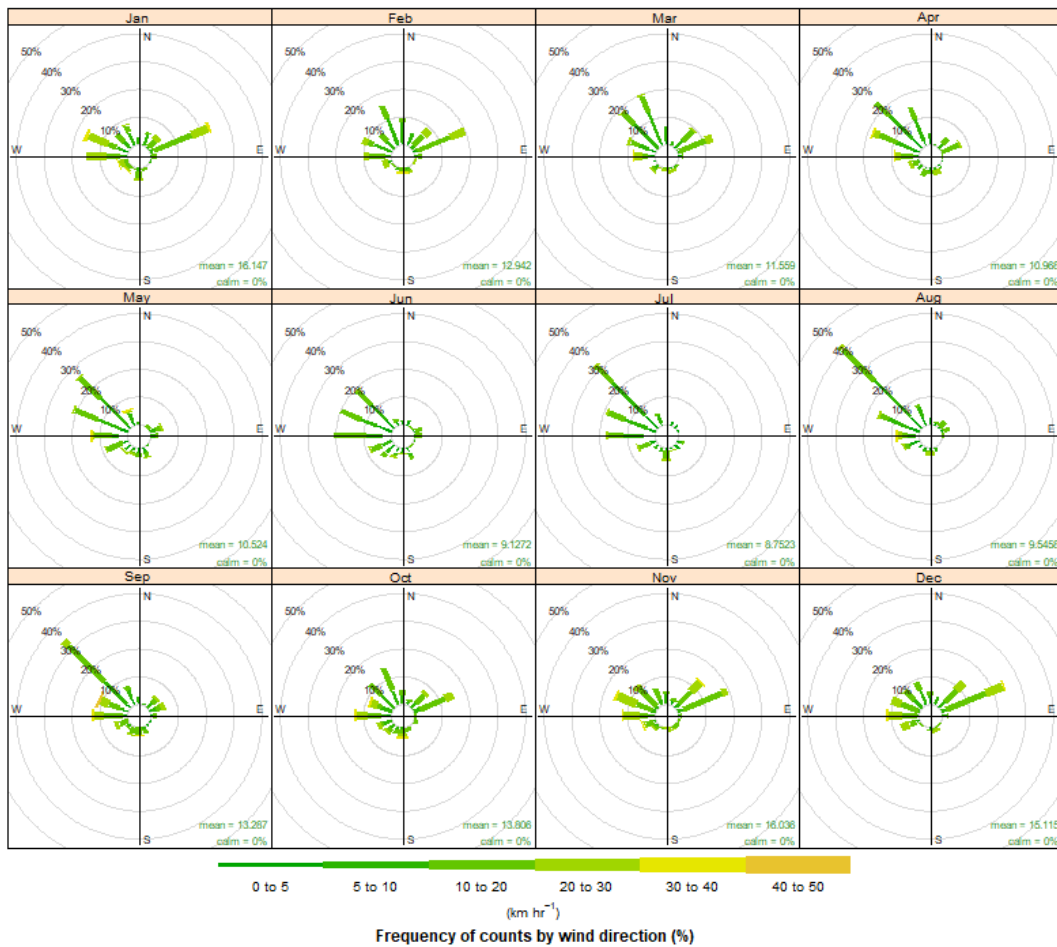
Station Name: Otematata Raws (Otematata) Period: 2016-11-17 - 2021-07-01 Length of record: 4 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	3.0	3.8	7.8	13.0	25.5	27.0	30.8	21.8	9.8	7.2	8.2	9.2	167.0	50.5
max	6	12	18	16	31	30	31	28	15	10	19	14	199	62
min	1	0	3	9	20	19	30	13	5	1	2	5	133	40
<b>Moderate</b>														
mean	7.5	8.0	14.0	15.0	5.5	2.8	0.2	8.5	15.0	13.8	8.0	11.0	109.2	78.0
max	12	12	18	18	11	10	1	15	18	18	10	19	128	87
min	2	4	10	12	0	0	0	3	9	11	6	5	90	65
<b>High</b>														
mean	7.2	8.8	5.0	1.2	0.0	0.2	0.0	0.2	3.8	7.0	9.0	4.2	46.8	45.5
max	11	12	8	2	0	1	0	1	5	11	18	7	60	52
min	4	4	3	0	0	0	0	0	0	5	3	2	33	31
<b>Very High</b>														
mean	4.5	3.5	2.5	0.5	0.0	0.0	0.0	0.5	1.5	2.2	3.0	2.2	20.5	18.0
max	7	5	5	1	0	0	0	2	5	6	6	4	27	26
min	0	0	0	0	0	0	0	0	0	0	0	0	14	12
<b>Extreme</b>														
mean	7.0	3.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.8	1.5	3.5	17.2	17.2
max	11	10	1	1	0	0	0	0	0	1	3	8	27	20
min	4	0	0	0	0	0	0	0	0	0	0	0	8	14
<b>Very Extreme</b>														
mean	1.8	0.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	4.5	3.0
max	4	1	3	0	0	0	0	0	0	0	1	3	8	6
min	0	0	0	0	0	0	0	0	0	0	0	0	2	1
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source Otago (Inland Otago)														
Curing%	80	90	80	60	50	50	60	70	60	40	40	70		
<b>Low</b>														
mean	0.5	1.5	2.5	5.2	3.5	4.2	10.0	1.5	3.2	2.2	2.5	3.0	40.0	16.8
max	1	4	4	7	5	6	17	5	7	6	6	5	47	22
min	0	0	1	4	1	2	5	0	0	1	0	1	32	14
<b>Moderate</b>														
mean	7.0	5.2	16.2	22.8	26.0	25.2	20.8	26.2	22.0	21.8	20.0	12.2	225.5	106.2
max	11	10	20	25	29	28	26	28	25	25	26	15	235	114
min	1	1	13	19	22	23	14	24	17	18	16	7	218	102
<b>High</b>														
mean	12.8	13.2	10.2	1.8	1.5	0.5	0.2	2.8	4.2	6.5	7.0	12.8	73.5	66.5
max	17	15	13	6	4	1	1	7	5	9	11	15	85	73
min	7	9	5	0	0	0	0	0	3	4	4	12	63	60
<b>Very High</b>														
mean	6.5	6.0	1.0	0.2	0.0	0.0	0.0	0.2	0.5	0.5	0.5	2.8	18.2	17.0
max	10	8	2	1	0	0	0	1	1	1	1	5	25	20
min	2	4	0	0	0	0	0	0	0	0	0	0	14	12
<b>Extreme</b>														
mean	4.2	2.2	1.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	8.0	5.8
max	7	5	3	0	0	0	0	1	0	0	0	1	12	12
min	1	1	0	0	0	0	0	0	0	0	0	0	2	2
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	1.0	2.2	3.0	4.8	3.5	4.5	8.8	2.0	3.5	2.8	3.2	5.2	44.5	22.5
max	2	6	5	6	5	7	14	6	7	6	8	9	54	26
min	0	0	1	4	1	3	5	0	0	1	0	3	35	19
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.2	1.5	2.2	3.0	7.2	8.0	7.5	5.8	2.2	2.8	1.5	2.5	45.5	14.5
max	3	3	4	5	10	11	12	8	4	5	2	3	53	17
min	0	0	0	1	3	4	3	3	1	0	1	2	40	11
<b>Very High</b>														
mean	2.2	1.2	3.5	5.8	10.0	11.0	8.2	7.0	2.5	3.0	3.0	1.5	59.0	19.2
max	3	3	5	9	16	15	11	12	4	5	4	2	72	23
min	0	0	1	4	7	7	5	4	2	1	1	1	51	15
<b>Extreme</b>														
mean	3.5	5.5	11.5	10.5	7.0	5.2	5.8	11.5	11.0	6.8	3.5	3.8	85.5	42.0
max	7	9	13	15	10	8	10	18	15	8	6	5	94	53
min	0	2	10	5	1	2	0	7	6	5	1	1	75	33
<b>Very Extreme</b>														
mean	23.0	17.8	10.8	6.0	3.2	1.2	0.8	4.8	10.8	15.8	18.8	18.0	130.8	114.0
max	30	24	12	14	7	2	2	9	15	20	26	21	139	125
min	18	14	7	1	0	0	0	1	8	13	11	15	121	98

Windroses for Otematata Raws (Otematata)



Otematata station from 2016-11-17 to 2021-07-01

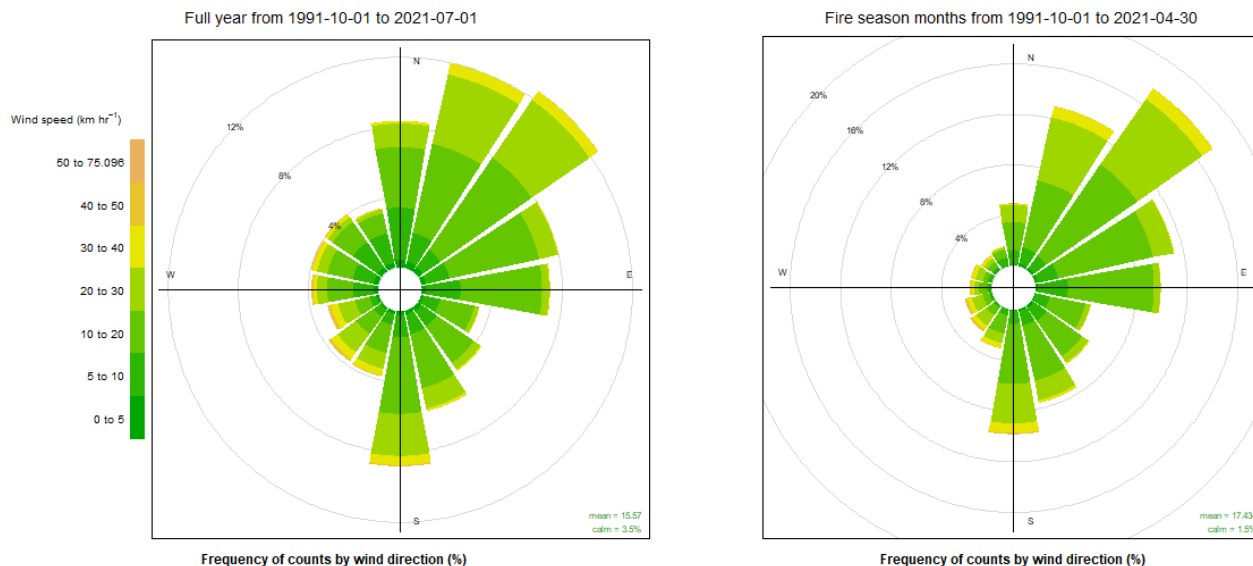


Station Name: Oamaru Aero (OUA)		Period: 1991-10-01 - 2021-07-01											Length of record: 29 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	17.5	17.5	16.5	14.3	11.8	9.1	8.7	10.2	12.0	13.5	14.7	16.3	13.5	15.7
median	17.0	17.0	16.0	14.0	11.3	9.0	8.4	10.0	11.8	13.0	14.1	16.0	13.2	15.3
max	31.0	35.0	29.0	24.6	25.0	20.0	18.5	21.3	23.0	26.8	28.0	31.0	35.0	35.0
min	9.0	8.5	7.0	4.0	3.0	1.2	1.0	2.0	3.0	6.0	6.8	6.0	1.0	4.0
<b>Relative Humidity, %</b>														
mean	69.1	70.0	68.1	69.1	71.0	70.1	68.9	68.1	64.7	65.9	66.5	69.6	68.4	68.3
median	71	71	70	70	72	70	68	68	66	68	69	71	70	70
max	99	100	100	100	100	100	100	100	100	100	99	100	100	100
min	23	18	16	16	24	31	22	21	20	22	21	15	15	15
<b>Wind Speed, km/h</b>														
mean	18.6	17.0	16.4	13.4	12.4	11.4	11.5	12.8	16.1	18.0	18.9	19.0	15.5	17.4
median	18.0	17.0	15.0	13.0	11.0	9.3	9.3	11.0	15.0	17.0	18.5	18.5	15.0	17.0
max	54.0	75.1	56.0	48.0	50.0	48.2	53.7	54.0	53.7	48.2	53.7	52.0	75.1	75.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	1.9	2.0	1.5	2.0	1.7	1.7	1.5	1.8	1.4	1.5	2.0	2.1	1.8	1.9
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	44.0	65.2	68.6	104.8	75.2	55.2	114.4	74.0	35.6	65.2	51.4	54.2	114.4	104.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	57.9	56.8	46.5	61.4	52.2	49.7	46.0	55.4	43.0	49.0	57.9	63.7	53.3	56.2
max	147.0	170.6	190.0	133.8	203.0	179.0	191.2	170.4	113.0	111.2	160.8	166.0	203.0	190.0
min	14.8	3.6	2.4	5.6	3.2	8.6	3.2	7.2	4.8	9.8	6.2	16.6	2.4	2.4
<b>Seasonal Rainfall, millimetres</b>														
mean													639.6	395.3
max													1029	786
min													383	165
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	74.3	74.4	75.7	70.7	69.5	68.9	70.4	70.3	73.4	74.0	73.5	72.1	72.3	73.5
median	81.0	81.1	81.6	79.2	78.8	78.5	79.9	79.2	80.4	80.7	79.9	79.6	80.1	80.5
max	94.0	94.1	93.1	93.8	90.3	89.4	91.2	91.3	92.2	93.8	92.6	95.3	95.3	95.3
min	5.2	2.3	5.6	2.6	0.4	3.1	3.1	2.4	9.7	6.1	7.5	3.9	0.4	2.3
<b>Duff Moisture Code, DMC</b>														
mean	15.1	16.1	17.1	14.0	8.5	7.0	7.2	7.8	12.0	13.9	14.4	13.8	12.3	14.9
median	12.2	15.0	14.1	10.4	6.5	5.0	5.6	5.9	9.9	11.0	11.4	11.5	9.5	12.1
max	55.6	51.7	63.0	90.9	54.1	29.1	33.4	25.8	49.2	43.9	49.8	52.6	90.9	90.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	294.2	347.6	373.0	363.7	288.7	219.2	185.4	136.7	132.0	142.1	184.6	243.6	242.7	277.5
median	282.0	352.2	371.7	331.2	267.4	207.3	171.8	96.5	100.8	110.7	165.7	246.8	220.6	266.8
max	632.0	696.4	823.8	834.9	723.0	697.7	576.6	462.5	485.1	396.4	434.5	496.7	834.9	834.9
min	6.2	18.3	3.7	32.5	1.5	0.4	0.0	0.4	0.8	2.2	5.1	5.4	0.0	2.2
<b>Initial Spread Index, ISI</b>														
mean	3.9	3.4	4.1	2.7	2.3	2.1	2.3	2.5	3.8	4.0	3.9	3.8	3.3	3.7
median	2.9	2.8	2.8	2.0	1.7	1.6	1.8	1.8	2.5	2.8	2.7	2.7	2.3	2.7
max	55.2	31.4	56.8	34.7	28.2	25.2	39.8	53.6	41.8	48.0	43.6	73.8	73.8	73.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	26.0	28.1	30.1	24.6	15.4	12.4	12.1	12.5	17.5	20.3	22.9	23.5	20.5	25.1
median	21.7	27.0	25.7	19.3	11.7	9.1	9.6	9.1	15.3	16.7	19.3	19.9	16.2	21.0
max	90.3	84.2	101.0	137.9	91.2	49.9	56.7	44.6	63.8	64.2	66.3	82.7	137.9	137.9
min	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	7.0	6.6	7.8	4.9	3.1	2.5	2.8	3.0	5.4	6.1	6.4	6.5	5.2	6.5
median	5.2	5.4	5.5	2.9	1.7	1.1	1.4	1.3	3.1	4.4	4.4	4.4	3.1	4.6
max	61.4	37.3	73.7	73.7	31.5	33.5	49.8	57.6	44.8	47.0	53.7	81.9	81.9	81.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.4	1.2	1.8	1.0	0.4	0.3	0.4	0.4	1.1	1.2	1.3	1.4	1.0	1.3
median	0.5	0.5	0.6	0.2	0.1	0.0	0.0	0.0	0.2	0.4	0.4	0.4	0.2	0.4
max	39.8	16.5	54.9	54.9	12.2	13.6	27.4	35.5	22.8	24.8	31.4	66.2	66.2	66.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	44.7	33.3	56.0	28.2	12.5	10.1	11.1	13.1	32.4	36.7	40.2	44.6	30.2	40.5
max	177.1	91.4	204.8	299.0	44.3	70.3	52.6	63.5	158.6	127.3	150.8	261.0	299.0	299.0
min	6.5	3.6	2.1	0.9	0.6	0.1	0.5	1.3	2.1	1.1	1.7	3.0	0.1	0.9
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													363.0	283.6
max													673.4	749.9
min													115.0	50.7

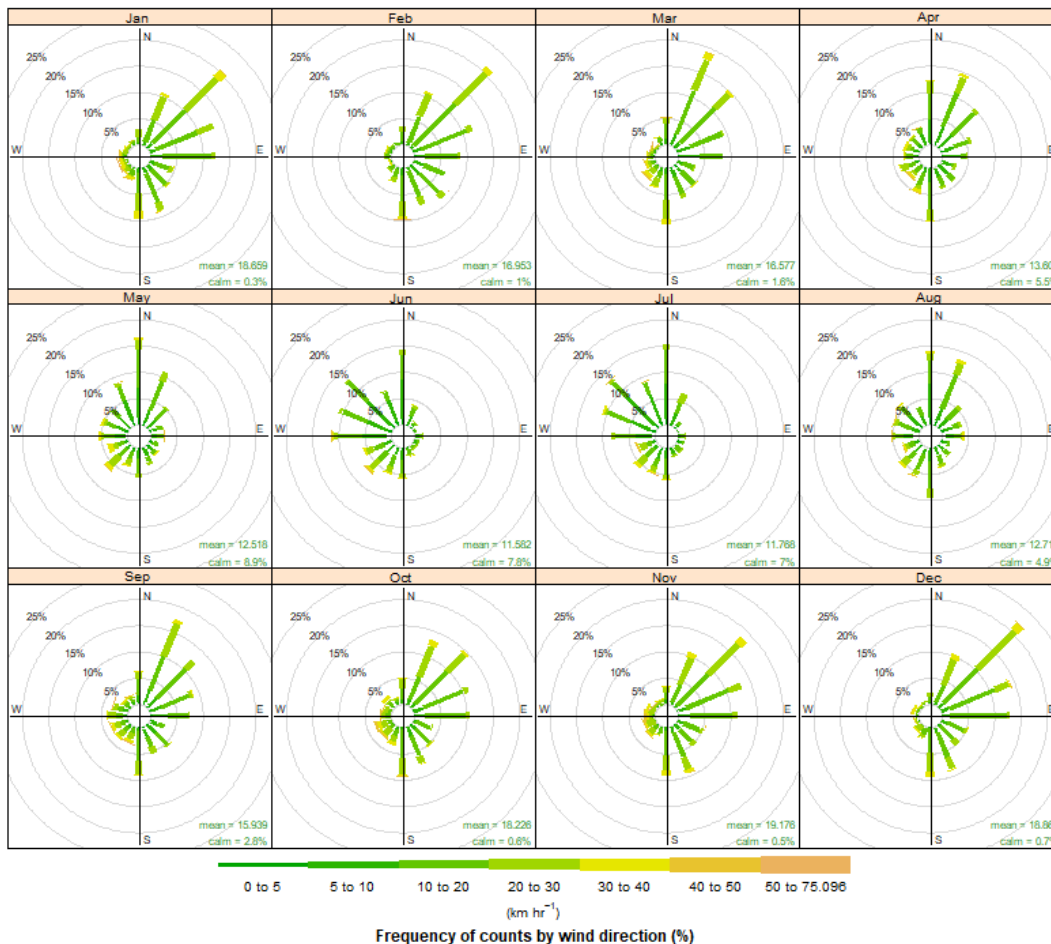


Station Name: Oamaru Aero (OUA)														Period: 1991-10-01 - 2021-07-01	Length of record: 29 years
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Forest Fire Danger Class (FFDC) Frequency</b>															
<b>Low</b>															
mean	14.9	13.3	14.7	19.3	24.6	25.6	26.0	25.1	19.7	16.9	15.5	16.2	231.8	110.3	
max	30	27	31	30	31	30	31	31	30	31	30	31	317	185	
min	0	3	0	1	9	11	8	9	3	1	1	5	170	53	
<b>Moderate</b>															
mean	13.6	12.8	12.8	9.4	6.0	3.9	4.7	5.5	8.5	12.4	12.4	12.4	114.4	86.2	
max	25	24	25	23	21	14	22	21	24	23	25	23	175	126	
min	1	1	0	0	0	0	0	0	0	0	0	0	46	27	
<b>High</b>															
mean	1.9	1.9	2.3	0.8	0.3	0.4	0.2	0.3	1.4	1.4	1.6	1.8	14.2	11.7	
max	9	8	10	8	4	6	2	3	9	9	5	7	30	30	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very High</b>															
mean	0.4	0.2	0.7	0.2	0.0	0.1	0.0	0.0	0.2	0.2	0.3	0.2	2.6	2.2	
max	3	3	7	3	1	1	1	0	2	2	3	1	9	9	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Extreme</b>															
mean	0.2	0.1	0.4	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.3	0.4	1.8	1.5	
max	2	1	3	2	0	0	1	1	5	2	5	3	7	7	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.4	
max	1	0	2	4	0	0	0	0	0	0	0	3	6	6	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Grass Fire Danger Class (GFDC) Frequency</b>															
Curing source Otago (Coastal Otago)															
Curing%	60	70	60	60	30	30	30	40	50	50	40	60			
<b>Low</b>															
mean	4.2	3.0	4.0	7.1	8.6	7.9	7.9	7.0	4.9	4.3	4.6	5.3	68.6	32.3	
max	12	9	9	17	19	21	22	22	12	13	11	16	115	64	
min	0	0	0	0	0	1	0	0	0	0	0	1	38	14	
<b>Moderate</b>															
mean	24.3	20.0	23.8	21.8	21.6	21.5	22.5	22.7	21.1	22.7	22.7	23.1	267.8	158.5	
max	31	26	30	30	31	28	29	29	27	28	28	28	292	181	
min	19	13	13	13	12	9	8	9	15	17	14	15	227	129	
<b>High</b>															
mean	2.2	4.7	2.7	1.0	0.8	0.6	0.6	1.1	3.3	3.3	2.3	2.2	25.0	18.7	
max	7	13	12	4	4	5	2	4	9	8	10	6	55	47	
min	0	0	0	0	0	0	0	0	0	0	0	0	12	9	
<b>Very High</b>															
mean	0.3	0.5	0.4	0.2	0.0	0.0	0.0	0.1	0.8	0.7	0.4	0.3	3.7	2.7	
max	1	2	5	3	0	0	1	1	4	3	3	2	8	8	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Extreme</b>															
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	
max	1	1	1	0	0	0	0	1	1	1	0	1	1	2	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Scrub Fire Danger Class (SFDC) Frequency</b>															
<b>Low</b>															
mean	5.2	4.1	4.7	6.8	7.3	6.9	6.7	6.9	5.7	5.4	5.3	6.2	71.1	37.5	
max	12	12	11	16	18	21	19	22	14	15	13	17	121	72	
min	0	0	0	0	0	0	0	0	0	0	0	1	40	16	
<b>Moderate</b>															
mean	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.1	
max	0	0	0	1	1	1	1	1	0	0	0	0	2	1	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>High</b>															
mean	1.8	2.2	2.4	4.0	4.1	5.0	4.4	4.8	2.9	2.3	2.2	1.7	37.9	16.3	
max	4	6	7	9	9	11	9	12	10	8	9	4	66	31	
min	0	0	0	0	0	1	0	1	0	0	0	0	24	6	
<b>Very High</b>															
mean	4.3	4.4	4.7	5.1	7.2	6.9	7.0	6.0	4.2	4.8	4.0	4.5	63.1	31.4	
max	9	9	10	9	15	12	15	14	11	14	7	10	85	42	
min	1	0	1	1	3	2	1	0	0	0	2	0	45	16	
<b>Extreme</b>															
mean	9.8	10.1	9.9	8.9	8.4	8.3	9.2	8.8	9.1	9.4	9.6	9.5	111.0	67.2	
max	15	15	15	18	12	16	22	16	17	15	18	20	131	91	
min	5	7	5	4	2	1	1	3	4	2	3	4	75	44	
<b>Very Extreme</b>															
mean	9.9	7.5	9.4	5.1	3.8	2.8	3.6	4.4	8.1	9.1	8.9	9.1	81.8	59.7	
max	19	15	22	15	11	10	10	14	18	19	15	18	116	97	
min	3	1	2	0	0	0	0	0	0	1	1	0	51	30	

### Windroses for Oamaru Aero (OUA)



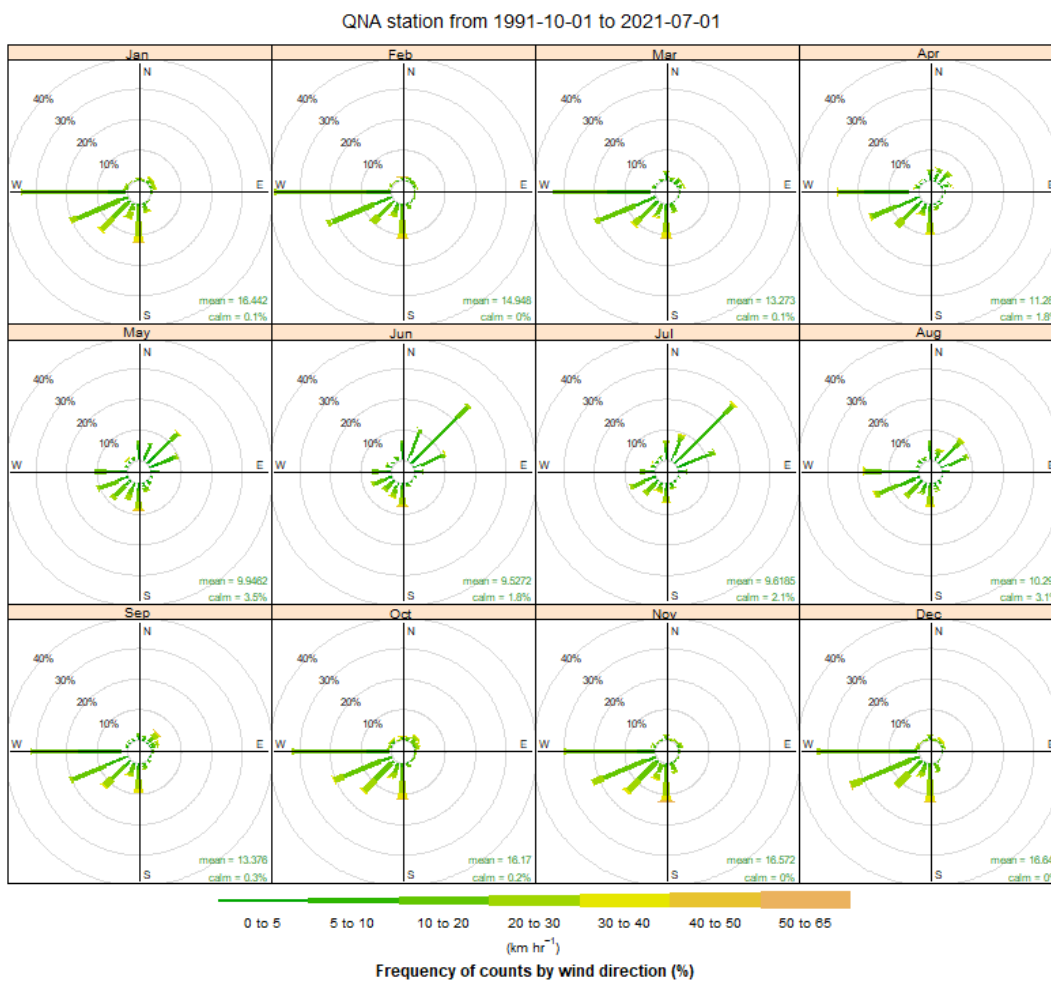
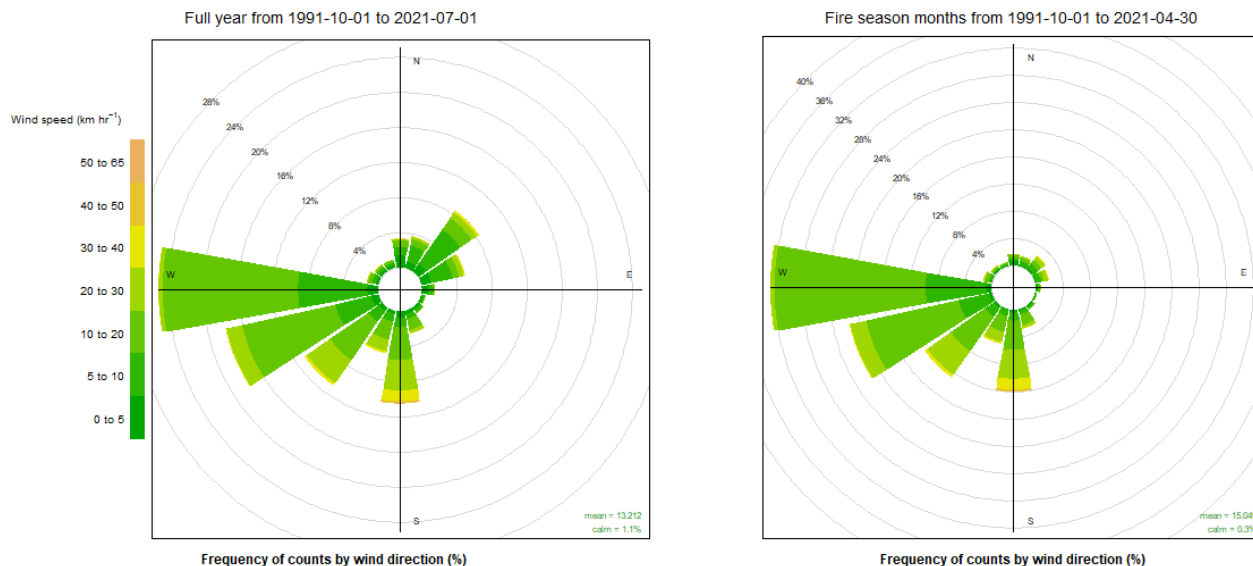
### OUA station from 1991-10-01 to 2021-07-01



Station Name: Queenstown Aero (QNA)													Period: 1979-01-01 - 2021-07-01		Length of record: 42 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	18.0	17.7	15.6	12.6	9.2	5.9	5.2	7.5	10.2	12.4	14.6	16.7	12.1	15.4		
median	18.0	18.0	15.5	12.7	9.0	5.8	5.0	7.2	10.0	12.1	14.7	16.9	12.0	15.0		
max	29.2	28.0	27.0	23.3	19.0	17.6	15.0	17.7	22.0	24.2	25.6	27.5	29.2	29.2		
min	6.0	5.0	0.0	0.8	-1.8	-4.7	-2.4	0.0	0.0	2.0	0.0	5.0	-4.7	0.0		
<b>Relative Humidity, %</b>																
mean	53.7	55.7	59.7	62.4	69.1	73.3	71.7	65.9	59.8	56.7	53.4	53.8	61.3	56.5		
median	53	55	60	62	70	73	72	65	59	55	52	53	61	56		
max	100	96	98	98	100	100	100	100	100	99	100	100	100	100		
min	17	14	21	18	27	30	32	26	12	23	20	18	12	14		
<b>Wind Speed, km/h</b>																
mean	16.2	14.8	13.0	10.9	9.6	9.2	9.2	9.7	13.2	15.8	16.3	16.7	12.9	14.8		
median	15.0	13.0	11.1	9.3	7.4	7.4	7.4	7.4	13.0	14.8	15.0	15.0	11.1	14.8		
max	44.4	48.0	46.0	46.3	51.9	46.0	40.7	40.0	46.3	50.0	59.3	65.0	65.0	65.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>24-hr Rainfall, millimeters</b>																
mean	2.3	1.9	1.8	2.0	2.4	2.3	1.7	2.0	2.0	2.2	1.9	2.0	2.0	2.0		
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
max	76.8	54.2	85.7	83.8	83.5	83.7	52.0	60.6	84.6	52.0	88.0	65.2	88.0	88.0		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	69.6	55.6	55.9	60.8	73.7	69.3	52.9	61.1	59.1	66.9	56.3	61.8	61.9	61.0		
max	205.8	140.4	169.5	239.1	205.5	192.5	122.0	223.5	143.4	177.6	228.6	130.7	239.1	239.1		
min	2.2	5.2	15.0	10.6	10.0	7.2	1.8	7.8	6.0	4.8	5.6	9.2	1.8	2.2		
<b>Seasonal Rainfall, millimetres</b>																
mean													743.0	426.5		
max													1356.6	674.8		
min													554	299		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	78.6	78.7	76.0	72.7	65.3	61.0	64.8	66.9	72.1	74.2	78.1	77.6	72.1	76.5		
median	84.9	85.0	83.0	81.0	72.2	66.6	72.6	74.3	79.7	81.7	84.5	84.0	79.7	83.4		
max	93.9	94.6	92.9	92.7	89.1	89.1	87.6	88.5	94.7	90.8	93.5	93.6	94.7	94.6		
min	10.6	10.2	8.1	14.1	3.6	0.8	5.4	7.9	4.7	12.1	12.4	14.1	0.8	8.1		
<b>Duff Moisture Code, DMC</b>																
mean	23.3	24.0	18.1	11.9	5.3	1.9	1.7	3.0	7.2	11.4	19.3	21.9	12.4	18.5		
median	18.5	20.7	15.6	9.7	4.1	1.2	1.2	2.4	6.0	10.0	16.9	18.4	8.5	15.1		
max	102.7	93.5	72.6	39.4	28.5	20.7	12.9	12.9	27.3	46.7	66.1	92.7	102.7	102.7		
min	1.4	1.1	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.0	0.0		
<b>Drought Code, DC</b>																
mean	243.1	287.8	302.8	280.3	202.3	105.8	61.2	36.4	30.3	45.8	100.3	179.8	156.6	205.8		
median	248.0	290.3	308.8	286.4	197.7	80.8	30.6	14.7	18.4	38.6	95.6	175.0	136.0	203.2		
max	621.4	588.4	608.3	506.6	471.3	402.7	256.9	225.7	180.6	182.4	258.6	408.7	621.4	621.4		
min	5.5	5.0	21.0	2.3	0.6	0.0	0.0	0.1	0.0	1.3	3.7	8.9	0.0	1.3		
<b>Initial Spread Index, ISI</b>																
mean	5.3	4.8	3.6	2.5	1.5	1.1	1.3	1.6	2.7	3.6	4.7	4.9	3.1	4.2		
median	4.3	3.9	2.8	2.0	1.1	0.8	1.0	1.2	2.0	2.8	3.8	4.0	1.9	3.2		
max	27.8	45.1	26.6	26.9	14.6	15.5	18.3	14.3	30.6	25.3	26.0	56.1	56.1	56.1		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	35.9	38.3	30.5	21.0	9.6	3.3	2.6	3.9	8.3	13.4	25.0	32.1	18.6	28.0		
median	30.7	34.2	27.4	17.9	7.5	2.1	1.9	3.0	6.8	11.9	23.0	28.2	12.8	23.6		
max	144.2	119.5	105.2	65.4	49.1	36.7	21.8	17.1	34.2	52.6	73.9	99.2	144.2	144.2		
min	2.6	2.1	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.5	0.0	0.0		
<b>Fire Weather Index, FWI</b>																
mean	11.0	10.5	7.2	4.3	1.6	0.6	0.6	1.0	2.7	4.6	8.1	9.7	5.1	7.9		
median	8.8	8.8	5.2	2.9	0.6	0.3	0.3	0.4	1.0	3.2	6.9	7.8	1.9	5.8		
max	63.0	63.5	47.8	33.4	19.9	16.4	11.9	11.4	34.4	29.1	42.6	54.9	63.5	63.5		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	3.0	2.6	1.5	0.7	0.1	0.0	0.0	0.1	0.3	0.7	1.6	2.4	1.1	1.8		
median	1.3	1.3	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.0	0.1	0.6		
max	41.6	42.2	25.6	13.6	5.4	3.9	2.2	2.0	14.3	10.6	20.8	32.6	42.2	42.2		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	92.7	72.8	46.3	19.6	4.6	1.1	1.0	2.2	9.4	21.7	49.1	73.5	32.8	53.7		
max	389.7	237.4	121.5	54.9	28.9	7.0	4.4	9.0	30.3	98.5	167.4	201.9	389.7	389.7		
min	13.8	7.5	3.8	1.8	0.2	0.0	0.0	0.1	0.2	4.8	8.8	7.7	0.0	1.8		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													393.8	376.5		
max													706.9	844.4		
min													186.3	117.6		

Station Name: Queenstown Aero (QNA)      Period: 1979-01-01 - 2021-07-01      Length of record: 42 years														
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	10.1	9.1	14.5	19.5	28.8	29.7	31.0	30.6	25.9	21.0	12.0	11.3	243.5	97.3
max	22	23	29	29	31	30	31	31	30	31	26	26	283	149
min	0	0	2	6	17	26	30	28	14	2	1	2	198	56
<b>Moderate</b>														
mean	13.0	12.9	12.8	9.7	2.2	0.3	0.0	0.4	4.0	9.5	14.9	13.7	93.5	86.7
max	20	22	24	23	12	4	1	3	15	20	23	23	125	113
min	3	5	2	1	0	0	0	0	0	0	4	5	60	61
<b>High</b>														
mean	5.0	3.8	2.8	0.6	0.0	0.0	0.0	0.0	0.1	0.6	2.6	4.3	19.8	19.8
max	15	12	11	3	2	0	0	0	3	10	10	14	42	42
min	0	0	0	0	0	0	0	0	0	0	0	0	6	3
<b>Very High</b>														
mean	1.5	1.6	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	5.4	5.4
max	7	10	3	2	0	0	0	0	1	0	4	6	18	18
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.0	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	2.6	2.6
max	11	8	1	0	0	0	0	0	0	0	3	5	12	16
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.5
max	4	2	1	0	0	0	0	0	0	0	0	2	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Otago (Inland Otago)														
Curing%	80	90	80	60	50	50	60	70	60	40	40	70		
<b>Low</b>														
mean	2.4	1.8	3.3	6.5	10.3	11.9	11.5	7.9	6.5	5.2	3.2	2.9	73.4	25.4
max	8	6	9	19	19	23	23	17	17	12	10	8	103	41
min	0	0	0	0	2	3	3	1	1	0	0	0	55	15
<b>Moderate</b>														
mean	12.2	10.6	17.8	22.3	20.0	17.9	19.3	21.7	22.1	22.7	21.9	16.7	225.2	124.0
max	23	18	26	30	29	27	27	28	29	27	27	26	268	150
min	2	3	8	10	12	7	8	13	13	16	14	7	195	100
<b>High</b>														
mean	12.4	11.5	8.5	1.1	0.7	0.2	0.3	1.3	1.4	3.1	4.7	9.9	55.0	51.2
max	21	18	17	4	4	1	2	6	5	12	15	19	82	74
min	6	5	2	0	0	0	0	0	0	0	0	3	32	26
<b>Very High</b>														
mean	3.0	3.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.5	9.0	9.0
max	12	9	5	1	0	0	0	1	1	1	1	4	18	21
min	0	0	0	0	0	0	0	0	0	0	0	0	3	2
<b>Extreme</b>														
mean	1.0	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.6	2.6
max	7	4	2	0	0	0	0	0	0	0	0	3	7	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
max	0	1	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.7	3.6	4.7	6.1	10.0	11.7	9.7	9.0	6.4	6.1	3.8	4.1	78.8	32.3
max	9	11	9	17	18	24	21	19	16	15	9	11	102	50
min	0	0	0	1	2	3	1	2	0	0	0	0	57	20
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.9	0.1
max	0	0	1	3	2	1	2	2	1	0	0	0	5	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.7	2.0	3.8	4.6	7.1	9.1	8.4	7.3	4.0	2.7	1.7	2.4	54.9	18.8
max	4	5	8	11	16	18	18	13	9	7	5	7	74	31
min	0	0	0	1	1	0	1	2	0	0	0	0	37	7
<b>Very High</b>														
mean	3.0	2.6	3.5	5.0	6.8	5.5	7.6	7.2	5.0	3.5	3.2	3.1	56.0	23.7
max	7	6	8	12	16	15	20	17	12	8	7	8	75	34
min	0	0	1	1	1	0	2	1	0	0	0	0	36	13
<b>Extreme</b>														
mean	6.9	7.4	9.8	9.6	5.1	2.7	4.2	5.3	9.0	8.5	7.8	7.0	83.2	56.8
max	14	16	15	18	13	9	10	11	24	14	13	18	114	71
min	1	3	2	2	0	0	0	0	0	2	1	2	59	37
<b>Very Extreme</b>														
mean	15.8	12.7	9.2	4.5	1.9	0.9	1.0	2.0	5.6	10.2	13.5	14.5	91.7	80.5
max	28	24	20	10	6	6	5	7	13	24	27	25	123	123
min	6	4	1	0	0	0	0	0	0	3	5	4	57	45

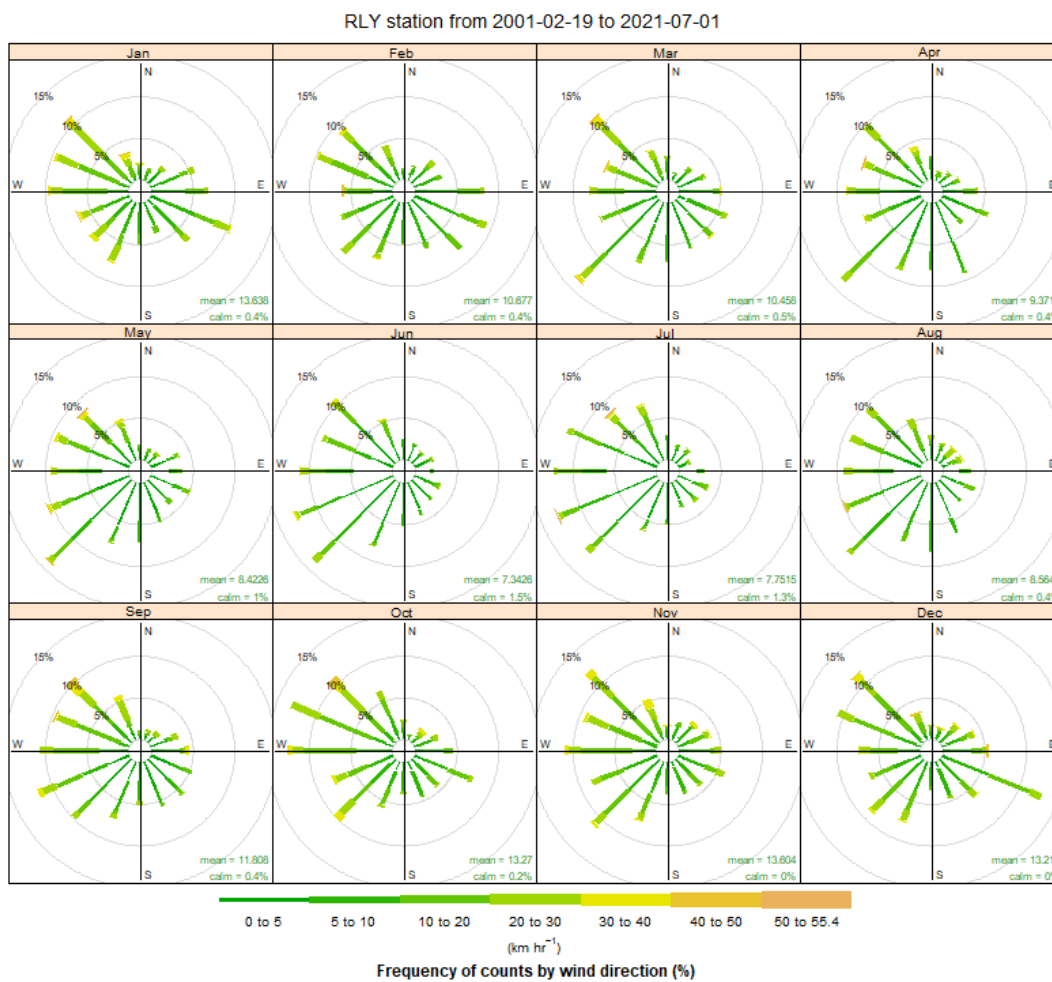
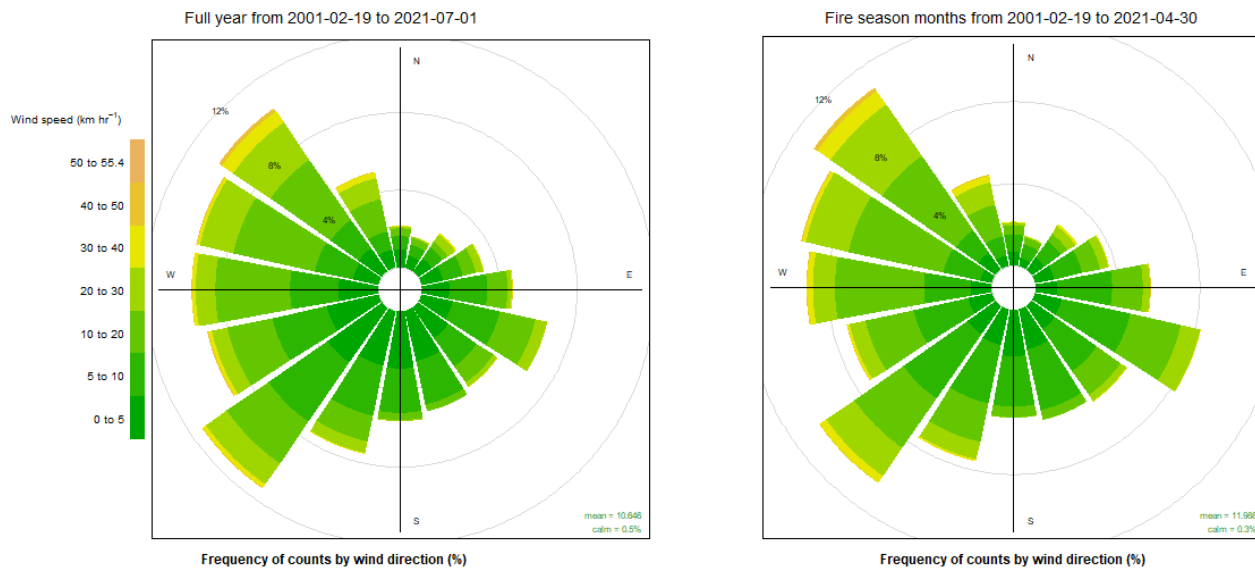
### Windroses for Queenstown Aero (QNA)



Station Name: Ranfurly Ews (RLY)		Period: 2001-02-19 - 2021-07-01											Length of record: 20 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	18.8	18.1	16.0	12.2	8.4	5.2	4.8	7.1	10.5	12.7	15.2	17.6	12.2	15.8
median	18.8	18.1	16.0	12.0	8.1	4.8	4.4	6.9	10.4	12.6	15.1	17.8	12.0	15.7
max	32.1	30.8	29.3	22.4	21.0	15.9	16.7	17.6	21.2	24.0	27.1	28.4	32.1	32.1
min	7.1	4.3	4.4	1.9	-4.4	-3.8	-5.6	-3.3	-0.4	1.6	1.8	4.9	-5.6	1.6
<b>Relative Humidity, %</b>														
mean	49.0	51.9	55.9	63.1	71.0	74.1	72.9	67.9	56.4	52.9	49.1	49.1	59.6	53.1
median	48	49	56	63	73	76	74	68	56	52	47	47	59	52
max	98	97	100	100	100	100	100	100	100	95	99	95	100	100
min	10.0	15.0	14.0	21.9	23.0	31.0	35.0	27.0	17.0	22.0	17.0	15.0	10.0	10.0
<b>Wind Speed, km/h</b>														
mean	13.7	11.0	10.7	9.4	8.6	7.8	7.6	8.8	12.4	13.5	14.1	13.5	10.9	12.2
median	11.6	8.6	7.6	6.5	5.4	5.0	4.7	5.8	9.3	11.2	12.0	11.4	8.0	9.8
max	50.9	45.0	49.9	50.9	55.4	41.6	53.7	41.0	53.7	51.8	53.1	47.5	55.4	53.1
min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	1.8	1.6	1.0	1.1	1.2	1.1	0.7	0.6	0.9	1.3	1.4	1.8	1.2	1.4
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	65.0	53.6	41.0	57.8	52.8	33.4	25.0	18.4	37.8	26.8	39.2	56.6	65.0	65.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	51.1	45.8	33.5	36.1	36.1	33.3	21.6	18.9	26.7	38.8	41.3	54.3	36.5	43.0
max	136.8	136.6	108.2	69.0	80.0	115.6	70.4	52.6	57.4	88.2	130.8	122.4	136.8	136.8
min	6.6	12.6	0.4	10.0	7.4	0.0	1.6	3.4	4.6	13.6	1.2	10.6	0.0	0.4
<b>Seasonal Rainfall, millimetres</b>														
mean													437.5	304.7
max													643.6	458.0
min													300.8	189.0
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	80.9	79.9	79.7	75.9	68.0	66.6	70.0	72.9	77.8	77.5	79.7	79.3	75.6	79.0
median	86.5	86.5	85.1	81.4	75.9	73.6	77.1	78.8	83.0	83.2	85.9	85.9	81.9	85.0
max	97.1	95.0	94.9	91.8	90.9	90.0	88.0	90.4	93.5	92.9	94.6	95.3	97.1	97.1
min	10.2	7.0	16.2	9.2	2.4	7.1	6.0	11.4	10.6	19.9	6.6	19.8	2.4	6.6
<b>Duff Moisture Code, DMC</b>														
mean	33.6	34.1	35.9	28.2	13.5	6.7	4.6	6.9	14.7	19.0	28.2	34.0	21.5	30.4
median	27.5	32.8	34.5	20.8	9.8	4.2	3.8	5.9	13.4	17.4	23.8	30.0	15.1	26.0
max	112.4	112.6	96.6	104.0	61.6	49.0	18.2	21.3	45.4	50.0	82.0	110.5	112.6	112.6
min	1.5	2.4	1.1	1.9	0.0	0.0	0.0	0.0	1.1	2.8	1.1	1.2	0.0	1.1
<b>Drought Code, DC</b>														
mean	387.5	417.5	448.0	461.6	397.0	331.5	282.1	266.0	265.8	272.6	313.1	374.5	352.1	382.7
median	369.0	421.3	466.9	467.0	390.9	340.1	307.6	252.7	275.1	289.0	325.9	389.3	345.4	383.0
max	829.1	844.3	710.4	723.3	669.2	672.0	567.2	456.7	463.8	447.6	554.7	625.4	844.3	844.3
min	91.7	150.6	127.9	137.3	103.6	87.0	87.3	108.2	118.8	66.9	37.6	82.4	37.6	37.6
<b>Initial Spread Index, ISI</b>														
mean	6.7	5.0	4.7	2.9	1.9	1.6	1.6	2.2	4.1	4.4	5.9	5.6	3.9	5.0
median	4.4	3.9	3.2	2.0	1.2	0.9	1.2	1.4	2.7	2.9	4.3	4.4	2.2	3.4
max	93.8	37.1	47.7	56.6	32.9	25.3	24.3	18.7	38.6	55.5	47.9	68.6	93.8	93.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	53.9	55.1	58.1	47.1	24.0	12.3	8.6	12.5	25.1	31.6	44.4	53.3	35.4	49.1
median	45.7	54.6	57.4	37.3	18.2	8.0	7.3	11.2	23.3	29.5	40.7	49.4	26.8	43.6
max	167.6	168.9	138.7	147.5	97.0	82.9	32.5	37.4	65.7	72.5	119.5	145.1	168.9	168.9
min	3.0	4.8	2.1	3.6	0.0	0.0	0.0	0.0	2.1	5.4	2.1	2.4	0.0	2.1
<b>Fire Weather Index, FWI</b>														
mean	15.7	13.1	12.6	7.6	3.5	1.8	1.5	2.7	7.0	8.4	13.2	13.9	8.4	12.1
median	11.5	11.4	9.9	4.5	1.1	0.6	0.6	0.9	4.8	6.3	10.9	11.6	4.2	9.1
max	124.5	62.9	71.9	93.9	33.4	40.6	23.9	29.3	49.5	71.5	81.4	92.3	124.5	124.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	5.8	3.8	3.8	1.9	0.6	0.2	0.1	0.4	1.5	2.0	4.0	4.4	2.4	3.7
median	2.0	2.0	1.6	0.4	0.0	0.0	0.0	0.0	0.4	0.7	1.9	2.1	0.3	1.3
max	139.0	41.5	52.6	84.4	13.5	19.2	7.5	10.8	27.1	52.0	65.5	81.8	139.0	139.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	187.4	109.2	112.1	44.5	18.9	8.0	4.8	11.1	45.2	62.8	124.6	139.7	72.4	111.5
max	547.4	226.4	308.1	195.8	117.4	37.7	21.0	40.5	170.5	178.1	402.7	426.4	547.4	547.4
min	22.4	28.7	6.3	3.5	0.1	0.1	0.1	0.5	13.3	14.5	16.0	28.0	0.1	3.5
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													868.6	763.9
max													1514.8	1305.3
min													306.3	267.4

Station Name: Ranfurly Ews (RLY)      Period: 2001-02-19 - 2021-07-01      Length of record: 20 years														FIRE SEASON
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	7.6	7.0	9.7	15.8	24.1	27.2	29.1	25.9	14.2	12.4	8.3	8.4	189.7	69.3
max	18	16	26	28	31	30	31	31	23	25	20	18	255	105
min	0	1	0	6	3	16	21	17	1	5	0	1	132	40
<b>Moderate</b>														
mean	10.8	11.6	12.0	10.8	5.4	2.5	1.9	4.5	13.2	14.3	11.1	10.7	108.8	82.2
max	20	17	20	21	16	12	9	12	19	21	19	19	142	105
min	3	7	5	2	0	0	0	0	7	5	5	3	76	54
<b>High</b>														
mean	5.6	5.6	4.9	2.4	1.2	0.2	0.1	0.5	1.8	2.8	6.2	6.4	37.6	33.9
max	14	12	12	11	8	3	1	5	7	7	15	12	60	52
min	1	1	0	0	0	0	0	0	0	0	0	2	11	18
<b>Very High</b>														
mean	2.7	1.9	2.3	0.5	0.2	0.1	0.0	0.1	0.6	1.0	2.3	2.6	14.3	12.9
max	8	5	8	4	2	1	0	1	4	4	5	7	33	20
min	0	0	0	0	0	0	0	0	0	0	0	0	3	1
<b>Extreme</b>														
mean	2.5	1.9	1.5	0.4	0.2	0.1	0.0	0.0	0.3	0.5	1.6	1.9	10.7	9.8
max	8	7	6	3	3	1	0	0	4	4	7	7	21	21
min	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<b>Very Extreme</b>														
mean	1.7	0.3	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.9	4.3	4.0
max	8	2	3	1	0	0	0	0	0	1	6	6	14	13
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Otago (Inland Otago)														
Curing%	80	90	80	60	50	50	60	70	60	40	40	70		
<b>Low</b>														
mean	1.8	2.4	2.9	4.8	8.9	8.8	8.8	4.5	4.4	4.1	3.7	3.2	58.4	23.0
max	5	7	10	11	21	21	27	10	12	15	8	7	84	39
min	0	0	0	2	0	0	0	0	0	0	0	0	43	14
<b>Moderate</b>														
mean	12.4	9.7	16.7	23.6	20.5	20.4	21.7	23.4	21.9	22.4	18.7	14.7	226.2	118.2
max	20	16	25	28	29	30	30	28	29	27	25	20	260	139
min	5	5	9	19	10	8	4	18	14	13	10	6	196	96
<b>High</b>														
mean	10.3	10.8	8.0	1.4	1.5	0.5	0.5	2.7	3.4	4.0	6.8	10.7	60.7	52.4
max	18	16	17	4	9	2	2	7	9	9	17	16	81	74
min	6	5	2	0	0	0	0	0	0	1	3	3	45	42
<b>Very High</b>														
mean	3.8	3.5	2.2	0.1	0.1	0.3	0.1	0.3	0.3	0.5	0.7	1.9	13.8	12.7
max	8	7	6	1	1	3	1	3	1	2	3	7	24	27
min	1	0	0	0	0	0	0	0	0	0	0	0	2	3
<b>Extreme</b>														
mean	2.4	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5	5.7	5.4
max	7	6	3	0	0	0	0	0	0	1	0	2	12	12
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<b>Very Extreme</b>														
mean	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4
max	2	1	1	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	3.1	3.4	3.3	4.3	8.1	8.0	6.8	5.5	3.7	3.8	3.7	3.7	57.4	25.4
max	9	9	10	9	21	20	22	11	10	11	8	9	82	38
min	0	0	0	1	0	0	0	0	0	0	0	0	40	15
<b>Moderate</b>														
mean	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.4	0.1
max	0	0	1	0	1	1	1	0	0	0	0	1	2	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.5	2.4	3.6	5.8	8.1	10.6	9.5	8.6	4.1	3.6	2.2	2.9	63.9	23.1
max	6	5	10	10	19	18	18	18	8	9	7	8	88	30
min	0	0	0	1	1	4	1	4	1	0	0	1	46	12
<b>Very High</b>														
mean	2.5	2.5	4.3	6.7	5.8	5.4	8.5	6.9	3.8	4.4	1.7	2.5	55.1	24.4
max	7	5	10	19	16	18	18	14	7	8	5	6	84	39
min	1	1	0	0	0	0	1	0	0	1	0	0	31	14
<b>Extreme</b>														
mean	6.6	6.8	8.9	8.7	5.2	4.1	3.9	6.2	8.8	8.3	7.0	6.1	80.5	52.5
max	11	15	17	15	12	9	12	12	16	14	13	11	99	65
min	2	3	4	4	0	0	0	2	3	3	3	1	61	30
<b>Very Extreme</b>														
mean	16.3	13.1	10.8	4.6	3.7	1.8	2.2	3.8	9.5	10.9	15.4	15.7	108.0	86.8
max	26	20	21	13	12	6	6	9	19	17	26	28	137	114
min	8	4	0	0	0	0	0	0	5	4	6	6	73	56

### Windroses for Ranfurly Ews (RLY)

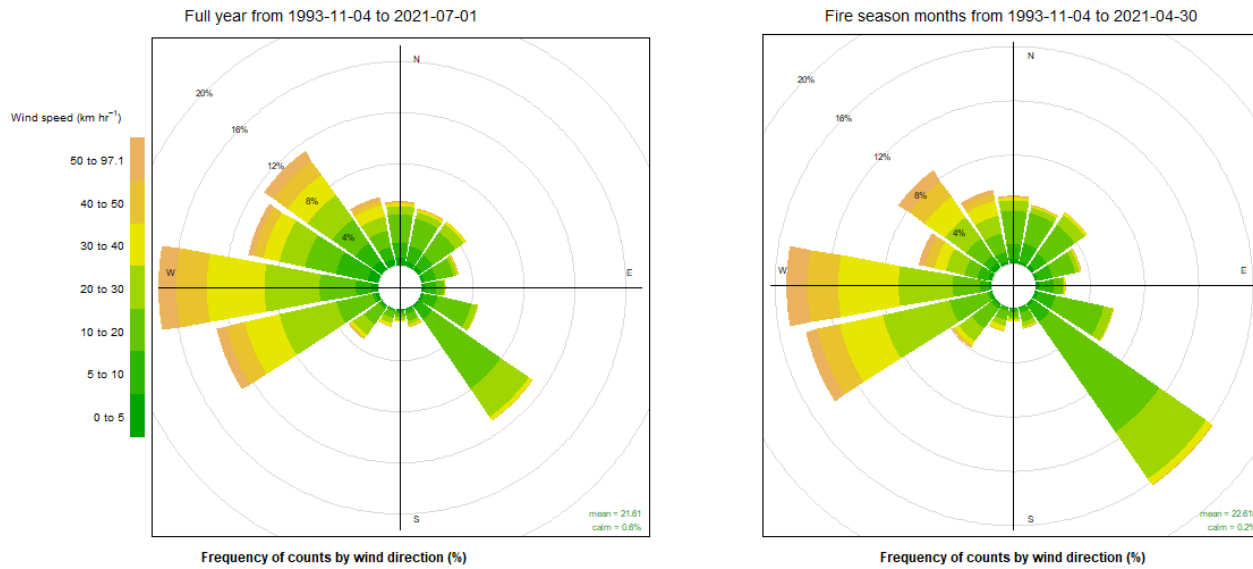




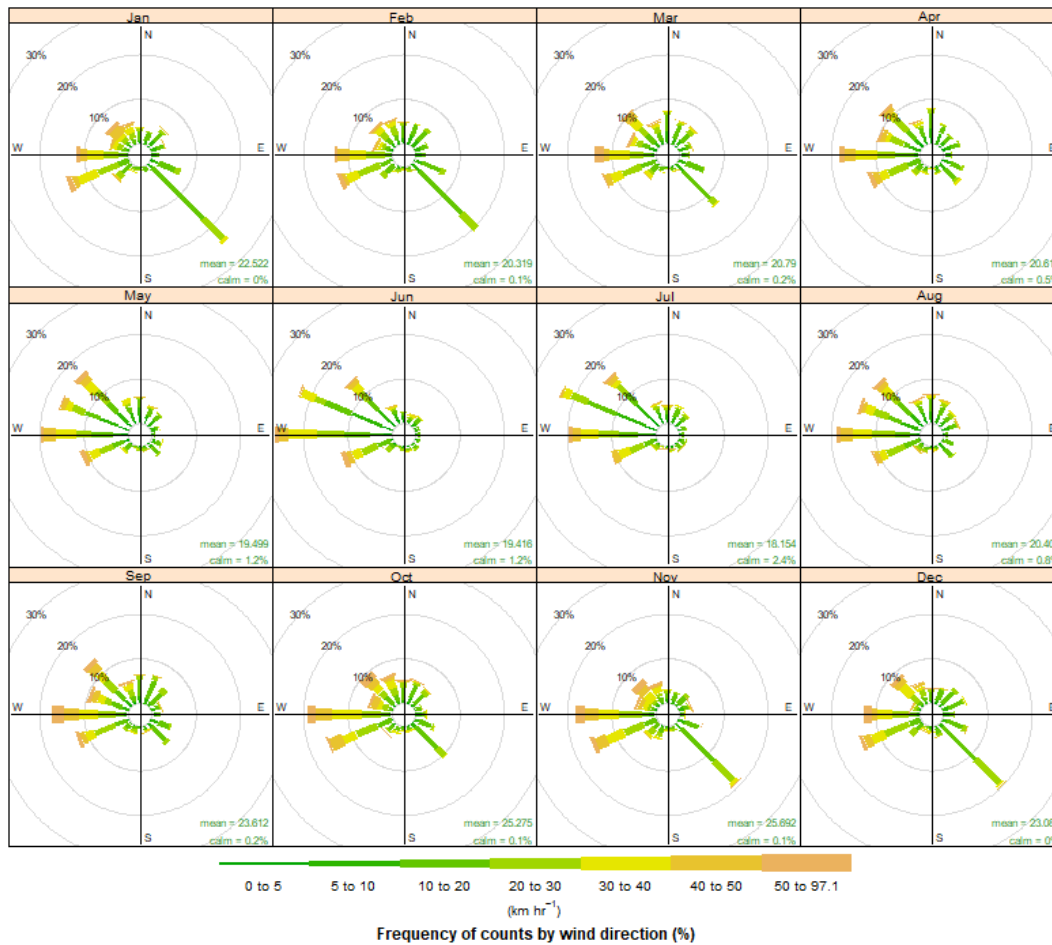
Station Name: Traquair Raws (TRQ)		Period: 1993-11-04 - 2021-07-01											Length of record: 27 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	16.0	16.1	14.7	11.9	9.3	6.2	5.8	7.4	9.7	11.1	12.5	14.7	11.3	13.9
median	15.9	16.0	14.4	11.6	9.1	6.1	5.6	7.3	9.7	10.9	12.2	14.4	10.9	13.6
max	29.8	29.8	26.8	23.8	21.7	15.9	16.1	16.5	23.0	24.2	25.9	28.1	29.8	29.8
min	5.3	5.1	2.6	0.0	-1.5	-3.3	-5.6	-1.8	-1.5	0.0	0.7	3.8	-5.6	0.0
<b>Relative Humidity, %</b>														
mean	67.2	67.1	66.5	69.5	73.4	77.3	75.0	71.6	65.4	64.8	65.7	66.6	69.2	66.8
median	68.0	68.0	67.0	70.0	73.0	79.0	76.0	72.0	65.9	65.0	66.6	67.0	70.0	67.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	14.0	6.0	21.0	29.0	21.0	32.0	26.0	26.9	16.0	18.0	21.0	23.0	6.0	6.0
<b>Wind Speed, km/h</b>														
mean	22.5	20.3	20.8	20.6	19.5	19.4	18.1	20.4	23.6	25.4	25.6	23.1	21.6	22.6
median	19.4	17.5	17.0	17.7	15.9	16.4	14.7	17.4	20.0	22.0	23.1	20.2	18.7	19.5
max	82.2	79.0	71.1	97.1	72.4	70.4	70.2	76.0	79.6	85.3	81.8	82.8	97.1	97.1
min	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	2.3	2.2	1.5	2.0	2.2	1.8	1.7	1.4	1.3	2.2	2.1	2.3	1.9	2.1
median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
max	73.4	60.8	93.0	173.0	109.8	83.0	148.4	98.4	50.6	47.2	96.4	54.4	173.0	173.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	67.7	64.7	48.0	61.5	66.1	52.0	52.9	43.1	40.1	67.6	64.0	69.9	58.1	63.3
max	189.4	186.8	100.2	226.4	329.6	202.4	201.8	163.6	97.8	188.6	281.4	151.8	329.6	281.4
min	27.0	9.0	5.2	9.6	9.0	12.2	11.2	12.6	8.4	22.0	8.0	16.4	5.2	5.2
<b>Seasonal Rainfall, millimetres</b>														
mean													697.5	439.2
max													1010.6	605.8
min													488.4	280.4
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	72.0	73.4	73.9	70.0	65.7	61.2	65.7	67.1	72.4	69.1	71.4	71.5	69.4	71.6
median	80.2	81.2	80.8	79.2	74.5	68.2	73.7	74.8	78.7	75.6	78.0	79.0	77.1	79.3
max	95.8	98.1	93.1	90.5	89.6	86.0	88.1	89.4	92.7	92.4	93.6	93.0	98.1	98.1
min	3.1	4.1	1.5	1.4	0.1	2.4	2.7	1.3	4.4	4.3	5.8	4.3	0.1	1.4
<b>Duff Moisture Code, DMC</b>														
mean	14.0	15.3	14.3	11.0	6.4	2.0	2.2	3.6	7.4	8.1	10.4	12.9	8.9	12.3
median	10.4	12.7	11.8	10.0	4.9	1.3	1.6	2.9	6.4	6.5	8.8	10.4	6.3	9.9
max	61.0	59.8	46.9	48.1	30.5	18.1	8.4	14.7	30.1	29.5	35.3	49.0	61.0	61.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	221.8	266.5	286.8	288.1	224.0	144.5	113.9	77.2	76.7	82.2	118.0	179.2	173.8	206.0
median	211.4	255.8	303.6	293.7	248.5	115.1	88.5	36.8	41.6	65.0	112.0	171.6	157.8	189.8
max	512.5	592.6	543.7	517.0	484.8	403.6	378.5	297.3	285.0	286.8	362.6	371.9	592.6	592.6
min	5.0	8.6	9.4	2.0	0.0	0.0	0.0	0.0	0.4	1.5	3.3	4.4	0.0	1.5
<b>Initial Spread Index, ISI</b>														
mean	5.6	5.1	5.1	4.1	3.0	2.0	2.4	3.4	5.3	5.3	5.9	5.2	4.4	5.2
median	3.1	3.1	2.9	2.4	1.7	1.2	1.5	1.9	3.0	2.7	3.0	2.9	2.3	2.9
max	60.9	94.1	48.0	48.2	42.1	19.3	36.3	41.5	42.3	71.4	48.0	65.4	94.1	94.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	23.3	25.9	24.4	19.4	11.4	3.5	3.8	5.3	10.1	11.5	15.9	20.8	14.6	20.2
median	18.0	22.0	20.8	18.0	8.3	2.4	2.6	4.4	9.3	9.7	14.4	17.7	10.4	16.7
max	91.3	93.7	69.8	74.7	52.1	32.0	15.6	24.2	45.7	40.4	51.6	68.3	93.7	93.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	8.6	8.4	8.0	6.1	3.4	1.2	1.5	2.6	5.4	5.5	7.3	7.6	5.5	7.4
median	4.9	5.5	5.1	3.5	1.0	0.4	0.5	0.8	2.8	2.9	4.0	4.7	2.4	4.3
max	81.6	93.0	69.3	58.2	41.0	17.1	23.2	31.1	41.8	60.0	60.7	59.2	93.0	93.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.5	2.3	2.0	1.4	0.6	0.1	0.2	0.4	1.0	1.2	1.8	1.9	1.3	1.9
median	0.5	0.6	0.5	0.3	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.4	0.1	0.4
max	65.8	82.9	49.3	36.1	19.4	4.1	7.1	12.0	20.1	38.2	39.0	37.3	82.9	82.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	79.5	65.6	59.4	38.8	18.0	3.4	4.8	12.0	31.3	38.1	55.1	62.0	39.0	56.9
max	291.9	247.8	176.4	156.4	72.5	12.3	14.4	49.3	86.5	155.7	167.9	172.8	291.9	291.9
min	5.2	8.2	7.3	5.7	0.6	0.1	0.1	0.5	4.9	4.4	1.9	8.6	0.1	1.9
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													467.9	406.0
max													898.7	886.2
min													188.6	93.7

Station Name: Traquair Raws (TRQ)      Period: 1993-11-04 - 2021-07-01      Length of record: 27 years														FIRE SEASON
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	15.5	13.5	16.0	18.6	25.8	29.3	30.3	28.5	21.8	22.4	17.7	16.2	255.7	118.3
max	29	24	30	29	31	30	31	31	30	31	30	29	305	178
min	2	2	1	4	13	24	23	16	8	7	2	3	207	74
<b>Moderate</b>														
mean	11.0	11.1	11.3	9.1	4.4	0.7	0.7	2.4	7.5	7.6	9.8	11.0	86.7	71.9
max	21	21	20	24	14	6	8	12	19	22	23	18	118	102
min	2	4	1	1	0	0	0	0	0	0	0	2	53	29
<b>High</b>														
mean	2.8	2.2	2.3	1.9	0.6	0.0	0.0	0.1	0.7	0.8	1.9	2.6	15.8	15.1
max	8	11	8	7	4	0	0	3	5	5	7	12	31	26
min	0	0	0	0	0	0	0	0	0	0	0	0	6	0
<b>Very High</b>														
mean	0.8	0.7	0.9	0.3	0.2	0.0	0.0	0.0	0.0	0.2	0.4	0.7	4.3	4.2
max	7	4	4	3	4	0	0	0	1	3	4	4	14	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.7	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.3	2.3
max	8	2	4	1	0	0	0	0	0	0	3	3	13	13
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5
max	3	4	1	1	0	0	0	0	0	0	0	0	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Otago (Coastal Otago)														
Curing%	60	70	60	60	30	30	30	40	50	50	40	60		
<b>Low</b>														
mean	5.1	3.7	4.3	6.2	9.0	11.3	9.6	7.4	4.2	5.6	4.8	5.5	76.7	34.9
max	13	8	10	12	19	21	18	15	9	13	13	14	109	62
min	1	0	0	1	0	2	2	0	0	0	0	1	52	18
<b>Moderate</b>														
mean	20.4	17.3	21.6	19.9	20.0	18.1	20.3	20.6	19.0	19.1	19.0	20.8	236.1	138.1
max	25	23	26	26	29	28	28	26	26	25	28	26	266	155
min	14	11	15	14	11	9	11	10	14	11	14	13	210	120
<b>High</b>														
mean	4.0	5.0	4.0	3.4	1.9	0.6	1.0	2.4	5.1	4.4	4.6	3.5	39.8	29.2
max	11	11	9	8	8	2	3	9	10	9	13	11	63	47
min	0	0	1	0	0	0	0	0	0	1	0	0	25	16
<b>Very High</b>														
mean	1.4	1.3	1.1	0.5	0.1	0.0	0.0	0.6	1.7	1.5	1.6	1.1	11.0	8.5
max	7	4	4	3	1	0	1	3	6	6	5	3	20	17
min	0	0	0	0	0	0	0	0	0	0	0	0	2	2
<b>Extreme</b>														
mean	0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.1	1.6	1.5
max	1	3	0	0	0	0	0	0	1	3	0	1	4	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	6.3	5.3	5.4	7.3	9.1	11.6	9.0	8.6	6.0	8.0	6.6	6.7	89.9	45.3
max	14	12	10	12	19	23	18	17	11	15	13	18	123	74
min	1	0	0	2	0	2	2	1	0	1	0	1	67	26
<b>Moderate</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	1	0	0	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.3	2.3	2.4	2.1	4.0	4.9	5.5	3.6	2.3	2.1	2.0	1.6	35.1	14.5
max	6	6	5	6	12	12	13	7	5	6	6	4	53	26
min	0	1	0	0	0	0	1	0	0	0	0	0	23	5
<b>Very High</b>														
mean	3.0	2.8	3.9	4.4	5.5	4.6	5.7	4.9	3.6	3.8	3.3	3.5	49.0	24.8
max	6	9	8	8	16	9	11	9	9	7	7	6	63	44
min	0	0	0	0	0	1	1	1	0	1	0	0	36	13
<b>Extreme</b>														
mean	7.5	7.8	9.3	7.7	6.1	5.0	5.9	6.9	7.0	6.1	6.7	8.0	84.1	53.2
max	13	14	17	16	12	11	10	14	13	11	11	15	98	74
min	3	2	3	4	2	1	2	3	2	3	3	3	67	41
<b>Very Extreme</b>														
mean	12.0	10.1	10.0	8.5	6.1	3.8	4.9	7.0	11.1	11.0	11.5	11.2	107.1	74.4
max	22	19	18	19	16	9	12	16	18	18	25	25	142	100
min	3	3	3	3	1	0	0	1	4	6	0	2	76	35

### Windroses for Traquair Raws (TRQ)



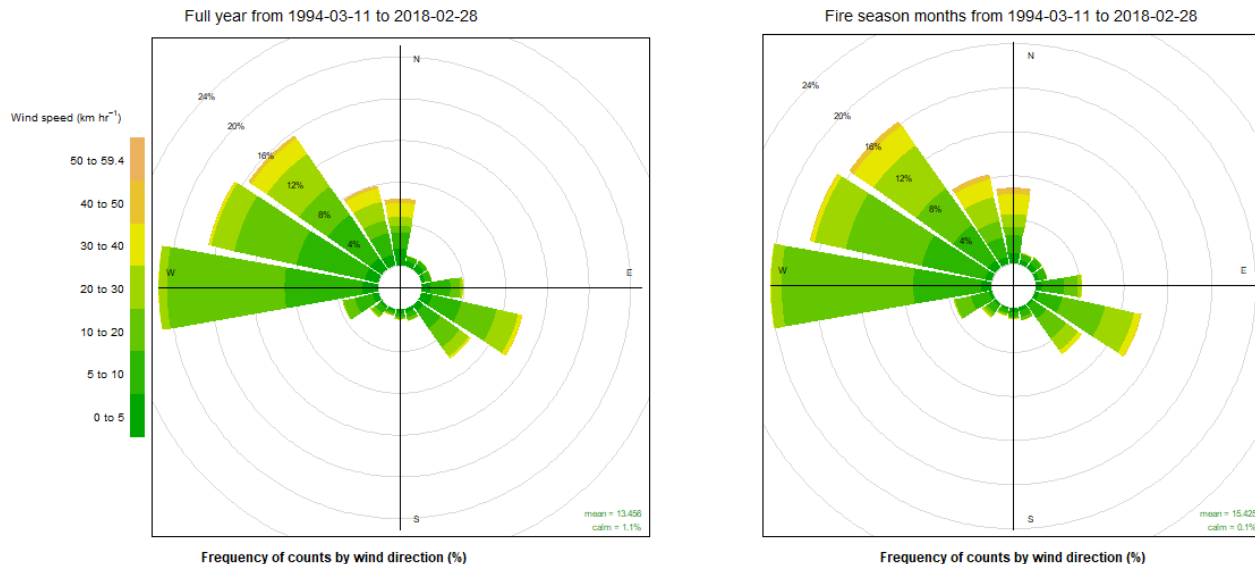
### TRQ station from 1993-11-04 to 2021-07-01



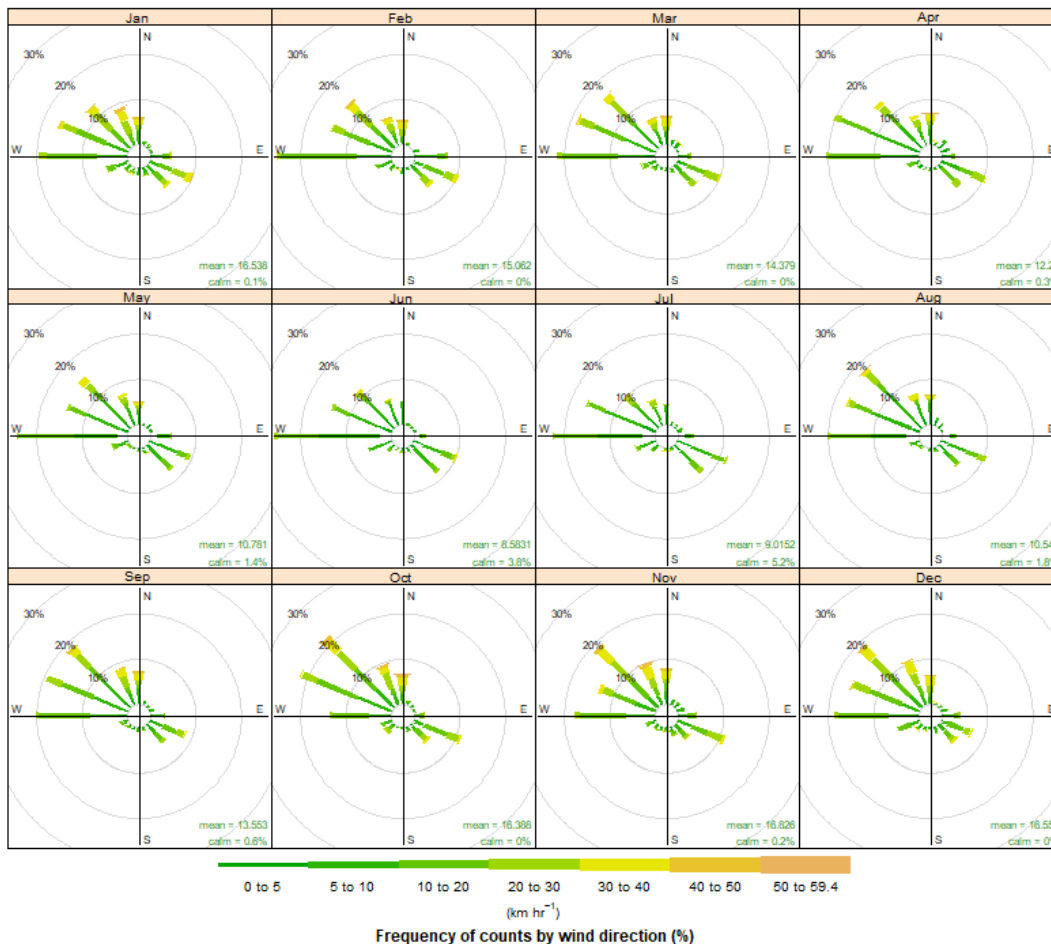
Station Name: Wanaka Aero Raws (WFA)      Period: 1994-03-11 - 2021-07-01      Length of record: 27 years													FIRE SEASON		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR		
<b>Temperature, degrees Celsius</b>															
mean	20.3	20.2	17.4	13.5	10.0	6.2	5.6	7.9	11.2	13.5	16.0	18.6	13.3	17.0	
median	20.4	20.3	17.6	13.7	10.0	6.0	5.1	8.0	11.0	13.8	16.0	19.0	13.0	17.0	
max	31.5	29.0	28.0	23.0	20.0	18.3	16.0	17.0	20.0	22.0	28.0	28.0	31.5	31.5	
min	8.0	7.3	7.0	4.0	1.0	-2.0	-2.7	0.0	0.7	3.0	4.0	7.7	-2.7	3.0	
<b>Relative Humidity, %</b>															
mean	43.7	45.3	51.5	59.9	70.2	77.8	76.0	67.8	56.2	52.0	47.0	44.6	57.8	49.2	
median	41.0	43.0	50.0	59.0	71.0	79.0	77.0	68.0	55.0	50.0	44.0	42.0	55.1	47.0	
max	98	99	99	98	100	100	100	100	99	94	93	97	100	99	
min	11	12	17	26	24	30	28	29	20	18	13	13	11	11	
<b>Wind Speed, km/h</b>															
mean	16.6	15.1	14.3	11.9	10.5	8.5	8.6	10.4	13.9	16.0	17.0	16.6	13.2	15.3	
median	14.8	13.0	11.2	9.2	7.2	6.0	7.0	7.0	11.0	13.0	15.0	14.8	11.0	13.0	
max	57.0	48.0	44.0	51.0	44.3	39.0	38.9	50.0	50.0	53.0	59.4	52.0	59.4	59.4	
min	0.0	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.8	0.0	0.0	
<b>24-hr Rainfall, millimeters</b>															
mean	1.7	1.4	1.6	1.5	1.9	2.1	1.6	1.8	1.7	1.6	1.9	2.0	1.7	1.7	
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	44.4	61.4	88.0	61.9	82.6	77.5	79.4	83.5	74.8	40.4	88.0	94.0	94.0	94.0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Rainfall, millimetres</b>															
mean	49.1	41.6	48.9	45.9	58.5	63.4	48.9	53.1	52.9	50.8	53.3	64.3	52.6	50.6	
max	125.8	127.8	119.2	161.9	185.8	142.8	159.4	267.2	148.8	108.4	246.4	227.3	267.2	246.4	
min	5.2	5.8	11.4	8.0	14.2	4.0	6.4	4.8	5.4	7.0	2.6	12.6	2.6	2.6	
<b>Seasonal Rainfall, millimetres</b>															
mean													630.7	354.1	
max													1340.0	716.8	
min													438.2	233.0	
<b>Fine Fuel Moisture Code, FFMC</b>															
mean	83.7	83.3	80.1	76.0	67.6	60.9	65.0	68.0	75.0	77.1	80.0	81.4	74.7	80.2	
median	88.6	88.4	86.0	83.1	75.5	68.9	71.9	75.2	82.4	84.0	86.4	87.8	81.8	86.2	
max	95.6	96.4	94.5	91.4	90.3	89.7	87.2	89.5	92.6	92.7	94.9	96.0	96.4	96.4	
min	15.8	16.7	6.6	12.8	3.9	1.0	4.2	9.1	7.0	17.8	12.6	7.0	1.0	6.6	
<b>Duff Moisture Code, DMC</b>															
mean	40.2	44.1	34.1	21.8	8.7	3.1	1.9	3.5	9.5	16.3	25.6	34.4	20.1	30.8	
median	33.9	38.6	28.0	18.4	6.3	1.6	1.3	2.9	8.4	14.2	20.6	29.8	12.5	25.1	
max	152.4	121.0	118.8	91.2	53.4	25.4	13.3	18.2	28.8	55.8	99.2	144.7	152.4	152.4	
min	4.0	3.8	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	
<b>Drought Code, DC</b>															
mean	310.5	387.8	404.6	388.4	313.5	211.4	128.4	95.2	80.5	100.8	155.6	231.7	234.2	282.5	
median	305.9	386.8	391.0	389.6	319.6	219.2	129.6	92.0	65.1	90.7	150.8	224.5	215.9	273.2	
max	658.4	748.3	698.7	716.2	618.5	453.7	289.0	247.6	225.7	300.0	379.5	497.9	748.3	748.3	
min	39.6	127.1	50.2	17.7	1.3	0.1	0.0	0.6	0.2	2.2	3.7	4.8	0.0	2.2	
<b>Initial Spread Index, ISI</b>															
mean	9.3	8.1	5.9	3.5	2.0	1.1	1.3	1.9	3.7	5.1	7.2	7.9	4.7	6.7	
median	6.9	6.1	4.2	2.6	1.2	0.8	0.9	1.3	2.6	3.5	5.1	6.1	2.6	4.7	
max	77.9	48.9	47.7	30.7	32.2	13.4	17.0	24.2	62.0	43.8	59.1	56.4	77.9	77.9	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Buildup Index, BUI</b>															
mean	58.4	66.7	54.3	37.3	15.7	5.7	3.3	5.6	13.0	21.6	34.1	48.2	30.1	45.6	
median	52.5	59.7	47.3	32.4	11.9	3.1	2.4	4.5	10.9	19.3	29.7	43.2	19.8	38.5	
max	186.9	172.3	164.6	138.4	87.9	43.7	22.7	28.1	41.7	59.2	116.9	167.6	186.9	186.9	
min	7.5	7.3	2.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	
<b>Fire Weather Index, FWI</b>															
mean	20.9	20.3	14.4	7.9	2.9	0.8	0.7	1.5	4.5	7.8	13.3	17.0	9.2	14.4	
median	17.7	17.8	11.4	6.0	0.8	0.3	0.3	0.5	2.7	5.5	10.3	14.3	3.8	10.8	
max	130.7	95.0	92.0	54.8	55.7	19.5	13.8	23.6	49.0	54.3	94.5	75.6	130.7	130.7	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Daily Severity Rating, DSR</b>															
mean	8.5	7.8	4.6	1.8	0.5	0.1	0.0	0.2	0.7	1.8	4.2	6.1	3.0	4.9	
median	4.4	4.4	2.0	0.6	0.0	0.0	0.0	0.0	0.2	0.6	1.7	3.0	0.3	1.8	
max	151.4	86.1	81.4	32.5	33.5	5.2	2.8	7.3	26.7	32.0	85.4	57.5	151.4	151.4	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Monthly Severity Rating, MSR</b>															
mean	271.1	223.1	148.4	51.7	15.3	2.1	1.5	4.9	22.3	54.5	129.7	181.8	92.2	151.5	
max	773.4	491.6	399.8	169.4	104.4	12.5	6.5	21.7	56.5	153.6	455.0	375.7	773.4	773.4	
min	44.0	45.2	22.9	2.4	0.3	0.0	0.1	0.1	1.3	12.8	8.7	30.3	0.0	2.4	
<b>Cumulative Daily Severity Rating, CDSR</b>															
mean													1106.4	1057.6	
max													1701.1	2031.1	
min													372.2	308.4	

Station Name: Wanaka Aero Raws (WFA)      Period: 1994-03-11 - 2021-07-01      Length of record: 27 years														FIRE SEASON
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	5.0	4.7	7.8	12.5	25.6	29.3	30.9	29.3	20.5	15.5	8.7	7.3	197.3	61.3
max	18	16	23	29	31	30	31	31	30	27	26	20	267	118
min	0	0	1	0	11	24	30	24	6	3	1	0	159	38
<b>Moderate</b>														
mean	8.4	7.6	11.4	13.6	4.7	0.6	0.1	1.6	9.0	12.2	12.2	10.0	91.2	75.7
max	19	15	21	21	16	5	1	6	22	20	20	21	141	97
min	2	1	4	1	0	0	0	0	0	4	3	4	54	51
<b>High</b>														
mean	7.0	6.8	6.0	2.8	0.5	0.1	0.0	0.1	0.5	2.5	5.8	6.4	38.4	37.4
max	14	14	13	10	5	1	0	2	3	12	11	12	58	59
min	2	1	0	0	0	0	0	0	0	0	0	1	15	15
<b>Very High</b>														
mean	3.8	3.7	2.6	0.5	0.2	0.0	0.0	0.0	0.0	0.5	1.3	3.2	15.7	15.3
max	10	13	8	3	1	0	0	0	1	4	6	8	32	31
min	0	1	0	0	0	0	0	0	0	0	0	0	5	4
<b>Extreme</b>														
mean	4.3	3.5	2.4	0.4	0.1	0.0	0.0	0.0	0.0	0.3	1.3	3.0	15.5	15.4
max	10	11	9	2	2	0	0	0	0	3	6	13	25	36
min	0	0	0	0	0	0	0	0	0	0	0	0	2	2
<b>Very Extreme</b>														
mean	2.4	2.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.1	7.2	7.1
max	11	7	6	1	1	0	0	0	0	0	7	6	19	22
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Otago (Inland Otago)														
Curing%	80	90	80	60	50	50	60	70	60	40	40	70		
<b>Low</b>														
mean	1.2	1.4	2.2	4.8	8.7	11.3	11.5	7.2	5.0	4.3	3.2	2.4	63.2	19.4
max	3	4	6	18	16	20	21	16	12	9	15	8	87	50
min	0	0	0	0	2	2	4	0	0	0	0	0	42	10
<b>Moderate</b>														
mean	7.2	6.2	12.0	23.0	20.6	18.3	19.1	21.7	22.3	21.1	17.9	10.7	200.0	97.8
max	17	13	22	28	27	28	27	28	29	25	23	22	243	122
min	2	1	4	12	14	9	10	14	15	16	8	4	174	76
<b>High</b>														
mean	12.7	11.3	11.4	2.1	1.6	0.4	0.4	1.8	2.5	4.8	7.5	13.2	69.7	63.3
max	22	19	21	5	7	2	2	6	5	10	17	21	92	79
min	8	6	3	0	0	0	0	0	0	1	1	6	38	43
<b>Very High</b>														
mean	5.4	4.8	3.7	0.1	0.2	0.0	0.0	0.2	0.2	0.7	1.4	3.4	19.9	19.6
max	13	11	8	1	2	0	0	2	1	3	4	11	32	35
min	1	1	1	0	0	0	0	0	0	0	0	0	11	12
<b>Extreme</b>														
mean	4.0	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	11.0	11.0
max	8	9	5	0	0	0	0	1	1	0	1	4	18	19
min	0	0	0	0	0	0	0	0	0	0	0	0	2	2
<b>Very Extreme</b>														
mean	0.5	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
max	2	3	1	0	0	0	0	0	0	0	0	0	6	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	2.2	2.2	3.3	4.7	8.6	10.7	9.2	8.3	4.9	4.8	3.2	3.1	65.1	23.3
max	5	7	8	16	16	20	16	17	12	11	15	10	89	49
min	0	0	0	0	2	2	2	1	0	0	0	0	43	16
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
max	0	0	0	0	0	1	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.3	1.5	2.4	3.2	7.3	10.4	11.5	7.2	3.4	2.9	2.0	2.1	55.2	15.1
max	4	5	8	9	16	16	20	14	7	7	5	6	69	26
min	0	0	0	0	2	3	5	1	1	0	0	0	40	5
<b>Very High</b>														
mean	1.7	1.3	2.3	4.6	6.4	5.3	5.4	6.3	3.6	3.2	1.9	1.9	43.9	16.7
max	5	5	8	12	17	13	11	12	8	7	5	4	65	31
min	0	0	0	1	1	0	1	1	0	1	0	0	25	9
<b>Extreme</b>														
mean	3.9	4.3	7.3	9.9	5.2	2.6	3.4	6.5	9.8	7.3	5.2	4.1	69.6	41.9
max	9	9	13	15	13	10	10	15	20	12	11	9	104	59
min	1	0	3	4	1	0	0	1	3	1	1	1	48	27
<b>Very Extreme</b>														
mean	22.0	19.0	15.6	7.7	3.5	0.9	1.5	2.6	8.2	12.8	17.8	19.8	131.4	115.3
max	29	26	26	17	11	4	6	7	14	28	28	27	155	146
min	11	10	5	1	0	0	0	0	1	4	5	10	91	75

### Windroses for Wanaka Aero Raws (WFA)



### WFA station from 1994-03-11 to 2018-02-28

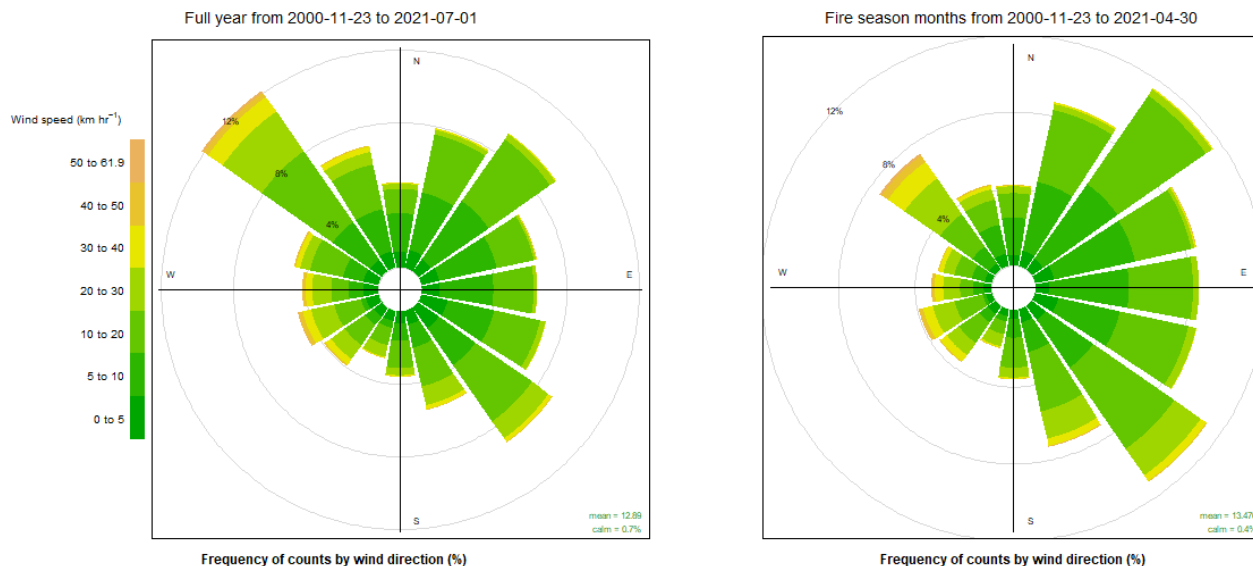


Station Name: Windsor Ews (WND)		Period: 2000-11-23 - 2021-07-01											Length of record: 20 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	18.6	18.2	17.2	14.5	11.5	8.9	8.4	10.1	12.4	14.1	15.9	17.5	14.0	16.6
median	18.1	18.0	16.8	14.3	11.1	8.7	8.1	9.9	12.2	13.5	15.4	17.3	13.8	16.3
max	30.4	33.0	28.8	24.9	23.2	17.6	18.4	21.2	23.1	26.0	29.7	30.3	33.0	33.0
min	11.0	7.9	7.0	4.8	2.2	-2.5	1.5	1.2	3.7	4.3	5.6	9.2	-2.5	4.3
<b>Relative Humidity, %</b>														
mean	62.4	63.6	62.5	64.1	67.5	66.3	65.0	64.5	58.9	59.8	60.8	62.9	63.2	62.3
median	63	64	64	65	68	66	65	63	59	61	63	65	64	64
max	99	99	100	98	100	100	100	100	97	97	100	97	100	100
min	13.0	25.0	17.0	15.8	23.0	30.0	26.0	24.0	20.0	21.0	18.0	19.0	13.0	13.0
<b>Wind Speed, km/h</b>														
mean	14.7	11.9	12.1	11.3	11.6	11.7	11.7	11.5	14.2	15.5	14.9	14.6	13.0	13.6
median	12.2	10.1	9.8	9.0	9.0	10.2	10.3	10.0	11.5	13.7	12.9	12.6	11.0	11.5
max	51.4	41.9	51.0	61.9	55.7	49.0	49.7	52.6	57.0	60.1	58.3	53.5	61.9	61.9
min	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	1.7	1.7	1.0	1.5	1.4	1.2	1.2	1.3	0.8	1.4	1.7	2.0	1.4	1.6
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	57.4	64.0	26.8	61.0	92.4	67.6	68.8	39.8	20.2	45.0	54.4	97.2	97.2	97.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	49.9	49.3	31.2	44.6	44.2	36.8	37.0	39.2	25.4	42.3	49.9	62.6	42.7	47.1
max	149.0	181.8	65.8	148.8	230.4	178.6	128.8	144.6	53.0	84.4	214.4	167.2	230.4	214.4
min	15.2	4.5	2.4	12.2	5.0	3.6	1.2	5.8	7.2	7.6	5.8	11.4	1.2	2.4
<b>Seasonal Rainfall, millimetres</b>														
mean													512.4	337.0
max													778.8	458.3
min													354.4	159.4
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	77.5	77.6	79.1	75.8	72.7	74.1	76.0	73.2	78.3	76.8	76.4	75.8	76.1	77.0
median	83.2	83.5	83.8	82.3	81.1	81.7	82.3	81.6	83.7	83.0	82.9	82.4	82.5	83.0
max	96.0	93.2	94.7	94.2	90.1	89.5	89.7	91.5	93.2	93.9	94.4	94.0	96.0	96.0
min	11.1	8.4	11.3	2.9	4.3	1.2	2.2	4.8	10.0	19.0	8.3	16.4	1.2	2.9
<b>Duff Moisture Code, DMC</b>														
mean	23.8	26.0	29.3	25.5	13.5	11.8	12.3	12.3	20.3	21.7	22.9	24.0	20.3	24.8
median	20.9	25.7	23.9	19.2	11.7	9.3	10.2	9.9	18.9	16.8	19.2	20.8	16.6	20.7
max	92.6	61.8	92.5	113.0	58.2	39.0	44.2	43.5	60.6	66.0	73.6	90.0	113.0	113.0
min	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.5	2.2	0.0	1.4	0.0	0.0
<b>Drought Code, DC</b>														
mean	350.1	408.5	448.0	465.1	385.7	316.2	271.8	206.5	212.8	232.2	268.5	313.1	324.3	355.5
median	334.1	404.9	466.1	495.8	407.1	311.3	254.8	173.5	197.9	219.4	245.1	309.6	305.5	335.7
max	734.5	783.2	804.7	817.6	741.2	625.8	519.6	575.6	540.5	620.6	661.0	642.2	817.6	817.6
min	103.4	83.6	60.3	96.0	0.6	0.3	0.5	0.2	3.0	35.4	4.4	20.1	0.2	4.4
<b>Initial Spread Index, ISI</b>														
mean	5.0	3.6	4.3	3.5	2.9	2.9	3.1	3.0	5.1	5.0	4.6	4.7	4.0	4.4
median	3.1	2.8	2.8	2.4	2.0	2.2	2.3	2.1	3.0	3.1	3.1	2.7	2.6	2.8
max	58.0	32.8	61.1	77.4	36.4	26.5	32.2	36.4	56.5	63.3	49.1	65.4	77.4	77.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	39.7	43.8	49.1	43.4	24.3	21.0	21.1	20.4	30.8	33.3	35.9	38.8	33.5	40.6
median	35.5	44.0	41.7	34.0	21.4	17.0	17.3	17.0	29.1	26.4	31.7	34.4	28.3	35.3
max	138.7	95.0	143.7	165.4	97.2	63.4	70.6	73.2	77.4	90.7	96.9	126.7	165.4	165.4
min	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.7	4.4	0.0	2.7	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	10.3	9.0	10.5	8.3	4.9	4.7	4.8	4.8	9.1	9.4	9.5	9.7	7.9	9.5
median	7.4	7.8	7.7	5.4	3.4	3.2	3.7	3.1	6.1	6.6	6.8	6.1	5.3	6.7
max	76.4	51.2	79.8	127.1	61.4	47.5	36.7	50.8	59.0	85.1	70.4	104.1	127.1	127.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.9	2.0	2.9	2.4	0.8	0.8	0.7	0.9	2.3	2.7	2.6	3.0	2.0	2.6
median	1.0	1.0	1.0	0.5	0.2	0.2	0.3	0.2	0.7	0.8	0.8	0.7	0.5	0.8
max	58.6	28.9	63.2	144.2	39.8	25.2	16.0	28.4	37.1	70.8	50.7	101.3	144.2	144.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	90.4	56.7	90.3	68.0	26.1	24.4	23.1	26.8	69.5	82.8	78.0	83.1	59.9	78.5
max	291.4	129.1	317.3	524.5	88.6	89.4	51.9	93.9	241.7	303.9	260.5	497.3	524.5	524.5
min	9.5	9.3	4.7	3.3	1.5	1.5	0.8	0.7	13.3	9.0	11.1	5.6	0.7	3.3
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													719.4	518.7
max													1204.8	1091.5
min													315.2	197.5

Station Name: Windsor Ews (WND)														Period: 2000-11-23 - 2021-07-01	Length of record: 20 years
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON	
<b>Forest Fire Danger Class (FFDC) Frequency</b>															
<b>Low</b>															
mean	10.7	8.7	11.1	13.4	19.1	18.6	18.9	19.9	12.3	12.7	11.8	12.6	169.6	81.6	
max	27	19	28	29	31	30	31	31	22	25	26	28	228	132	
min	3	1	0	3	6	4	4	3	1	2	0	2	120	47	
<b>Moderate</b>															
mean	14.3	15.2	13.3	13.0	10.8	10.3	11.1	10.2	13.2	13.0	12.8	13.1	150.3	95.9	
max	24	21	24	24	22	23	24	24	23	27	26	21	193	117	
min	3	6	3	0	0	0	0	0	7	5	4	3	112	64	
<b>High</b>															
mean	3.6	2.8	4.0	2.1	0.8	1.0	1.0	0.7	2.6	3.2	3.4	3.4	28.8	21.8	
max	8	7	10	9	4	6	3	4	8	11	9	10	43	40	
min	0	0	0	0	0	0	0	0	0	0	0	0	16	7	
<b>Very High</b>															
mean	1.2	1.0	1.2	0.6	0.1	0.0	0.0	0.1	0.9	0.9	1.0	0.7	8.0	6.3	
max	10	3	5	3	2	1	1	1	4	5	4	6	18	24	
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
<b>Extreme</b>															
mean	0.8	0.4	0.8	0.3	0.0	0.1	0.0	0.2	0.7	0.8	0.7	0.9	6.0	4.7	
max	3	2	5	2	0	1	1	3	5	4	4	4	13	14	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0.3	0.0	0.4	0.6	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.3	2.6	2.0	
max	3	1	3	7	1	0	0	1	2	3	3	5	10	9	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Grass Fire Danger Class (GFDC) Frequency</b>															
Curing source Otago (Coastal Otago)															
Curing%	60	70	60	60	30	30	30	40	50	50	40	60			
<b>Low</b>															
mean	3.7	2.8	3.2	5.0	7.2	6.1	4.3	6.0	3.2	3.8	4.6	4.5	54.4	28.0	
max	12	9	8	13	19	13	10	23	8	10	16	8	86	48	
min	0	0	0	1	0	0	0	0	0	0	0	1	32	16	
<b>Moderate</b>															
mean	23.0	20.4	24.5	23.0	22.6	22.9	25.6	23.1	20.8	21.6	20.9	23.1	271.6	156.8	
max	27	24	29	29	30	28	30	29	26	29	28	26	291	174	
min	17	16	21	17	12	17	21	8	13	15	13	17	251	144	
<b>High</b>															
mean	3.2	4.2	2.8	1.6	1.0	1.0	1.0	1.6	4.3	4.2	4.0	2.7	31.8	22.4	
max	8	10	8	5	3	4	3	5	8	11	10	5	50	38	
min	0	1	0	0	0	0	0	0	1	1	0	0	16	9	
<b>Very High</b>															
mean	0.9	0.8	0.3	0.2	0.1	0.0	0.0	0.2	1.5	0.9	0.7	0.6	6.4	4.3	
max	2	3	1	3	1	0	1	2	6	3	3	2	10	8	
min	0	0	0	0	0	0	0	0	0	0	0	0	2	1	
<b>Extreme</b>															
mean	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.1	1.1	0.8	
max	1	2	1	1	0	0	0	0	1	2	0	2	4	3	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Very Extreme</b>															
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Scrub Fire Danger Class (SFDC) Frequency</b>															
<b>Low</b>															
mean	3.6	3.4	3.0	4.3	6.1	4.4	3.7	5.5	3.4	4.0	4.6	4.7	50.8	28.1	
max	10	10	6	11	15	11	9	22	8	11	16	8	76	50	
min	0	0	0	1	0	0	0	0	0	0	0	1	34	18	
<b>Moderate</b>															
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.1	
max	0	0	0	0	0	1	0	1	1	2	1	0	3	3	
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>High</b>															
mean	3.1	2.8	3.5	3.5	4.1	3.9	3.1	3.7	3.0	3.2	2.5	3.6	40.0	22.1	
max	7	8	8	8	8	10	11	9	9	10	6	7	53	40	
min	1	0	0	0	1	0	0	0	0	0	0	0	28	12	
<b>Very High</b>															
mean	3.4	4.2	4.7	5.4	6.3	5.6	7.0	5.8	4.2	4.2	3.2	4.2	58.2	29.2	
max	8	8	12	12	15	12	16	11	10	9	8	7	76	43	
min	0	1	0	1	0	2	2	0	0	0	0	0	42	18	
<b>Extreme</b>															
mean	10.1	10.2	10.2	11.2	8.3	10.1	11.4	9.6	8.9	8.6	9.7	9.2	117.6	70.2	
max	16	17	16	18	16	16	19	15	15	17	19	14	130	88	
min	5	4	5	3	1	6	3	4	3	1	4	4	106	48	
<b>Very Extreme</b>															
mean	10.8	7.7	9.5	5.6	6.1	6.0	5.8	6.3	10.5	10.9	10.0	9.3	98.3	62.4	
max	20	16	21	19	13	13	11	13	21	21	20	22	129	84	
min	2	2	0	1	1	0	0	1	3	4	4	0	66	38	



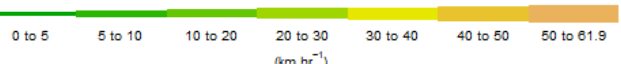
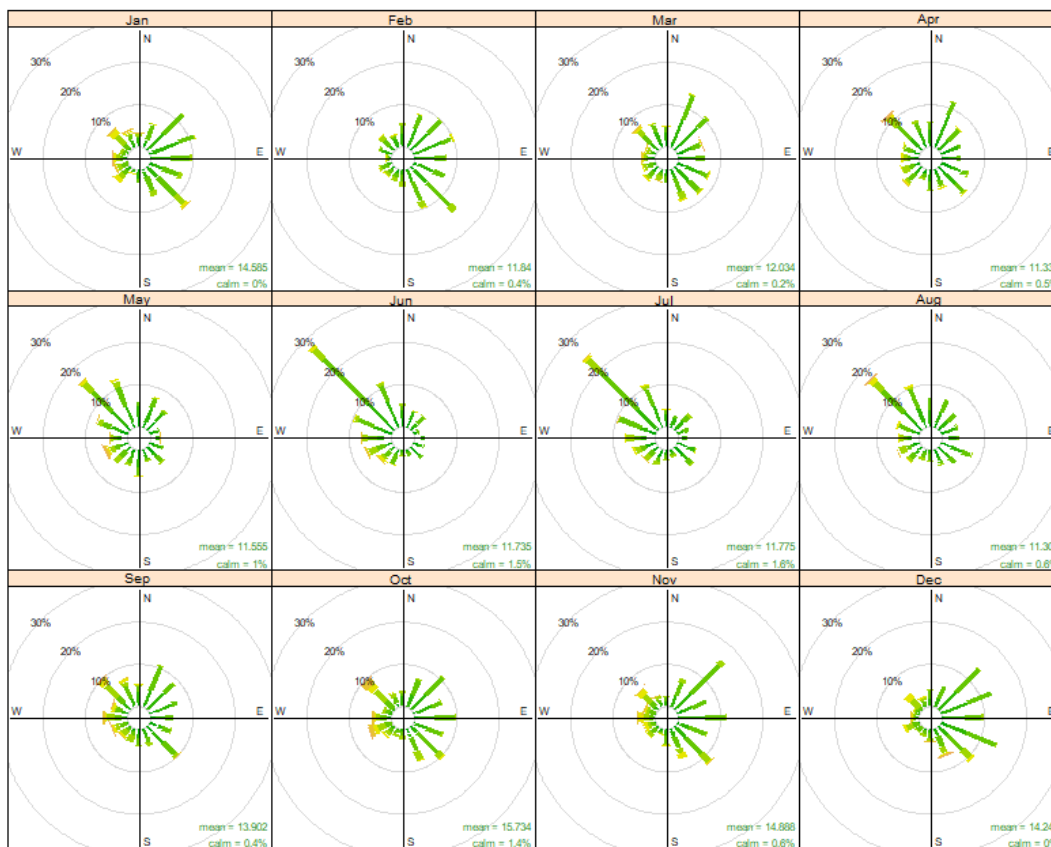
### Windroses for Windsor Ews (WND)



Frequency of counts by wind direction (%)

Frequency of counts by wind direction (%)

### WND station from 2000-11-23 to 2021-07-01



Frequency of counts by wind direction (%)

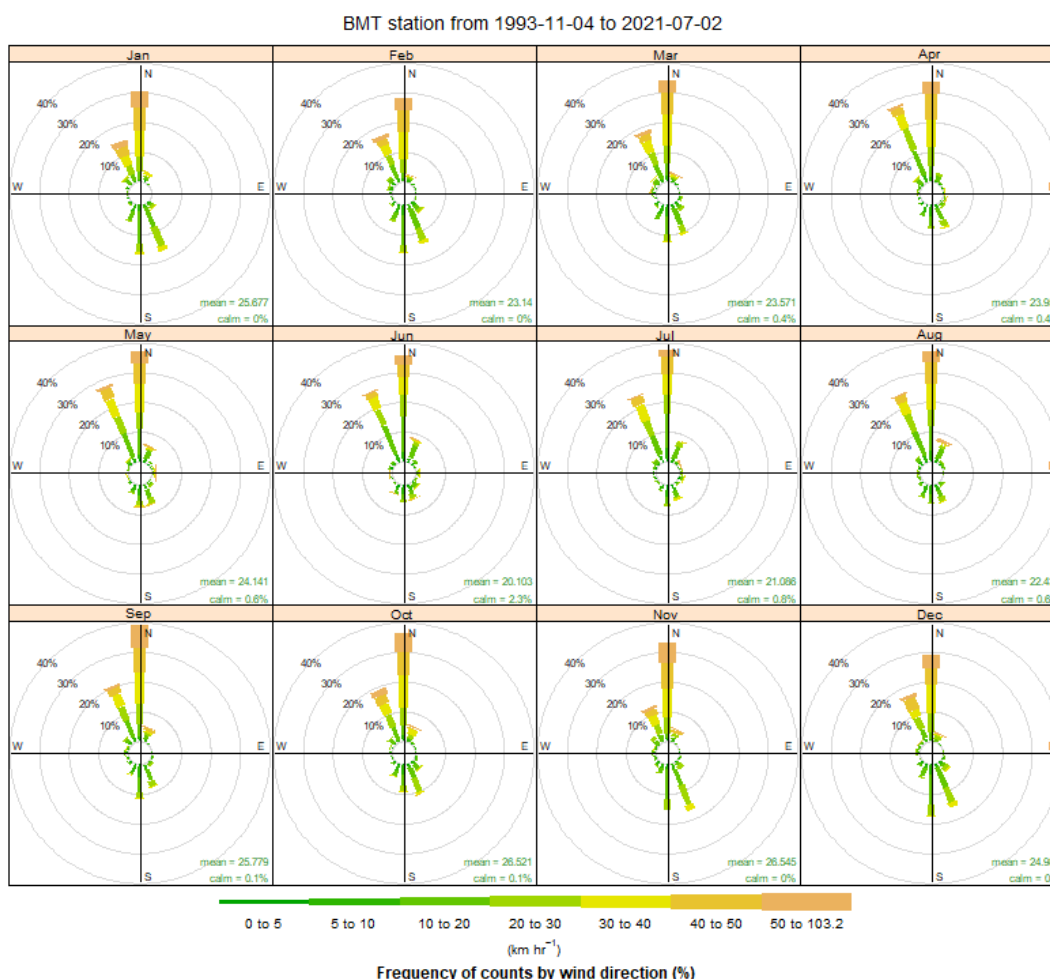
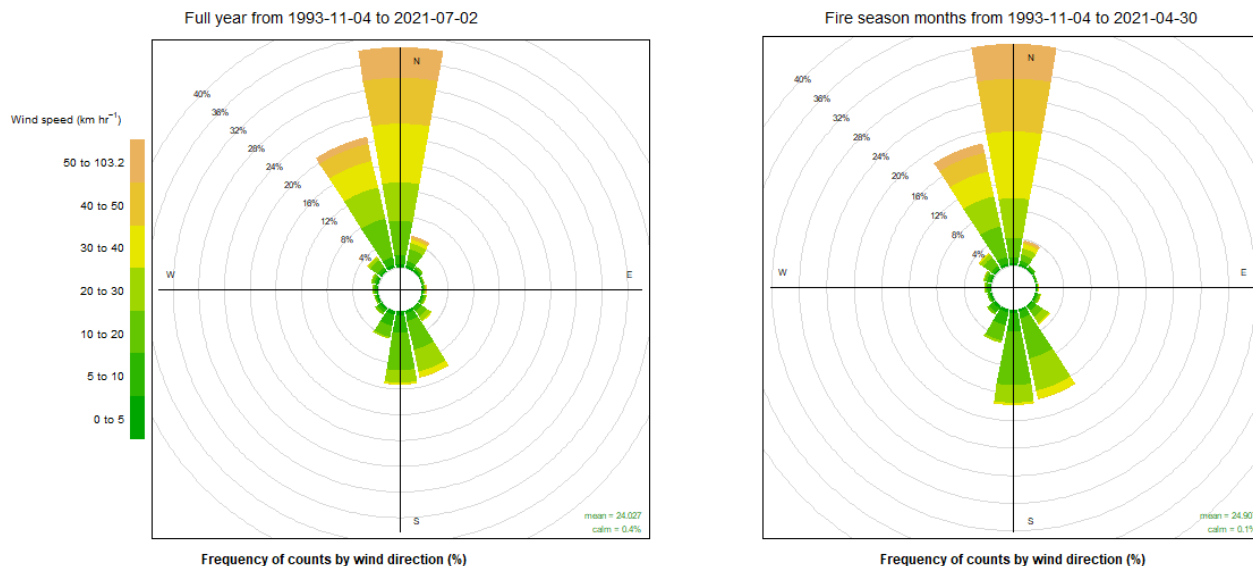
Station Name: Blackmount Raws (BMT)      Period: 1993-11-04 - 2021-07-02      Length of record: 27 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	16.9	16.9	14.9	12.1	9.4	6.4	5.7	7.5	9.8	11.7	13.3	15.7	11.7	14.5
median	16.9	16.9	14.8	12.1	9.4	6.2	5.6	7.6	9.9	11.9	13.3	15.5	11.6	14.3
max	28.2	29.6	24.7	21.1	17.8	16.1	15.1	15.4	21.7	22.1	24.6	26.8	29.6	29.6
min	5.9	7.5	5.1	1.6	0.3	-2.0	-3.0	-1.7	-0.6	0.1	0.0	3.2	-3.0	0.0
<b>Relative Humidity, %</b>														
mean	63.1	64.9	67.9	72.5	78.5	82.7	81.7	76.6	69.7	64.7	63.4	62.7	70.7	65.6
median	61.0	62.0	66.0	71.0	79.0	84.0	83.0	77.0	69.0	62.0	61.0	60.3	70.0	64.0
max	100	100	100	100	100	100	100	100	99	100	100	100	100	100
min	23.0	26.0	30.0	43.2	36.0	43.4	30.9	29.7	14.1	22.0	27.0	21.0	14.1	21.0
<b>Wind Speed, km/h</b>														
mean	25.7	23.3	23.5	23.7	23.9	19.9	20.0	21.5	25.0	26.3	26.6	24.9	23.7	24.9
median	22.4	19.7	20.5	20.7	20.5	16.6	16.9	17.6	22.0	24.7	24.0	22.0	20.5	22.0
max	75.2	72.4	72.7	78.1	68.0	61.6	75.4	81.0	103.2	89.6	71.1	70.1	103.2	89.6
min	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>24-hr Rainfall, millimetres</b>														
mean	3.2	3.3	3.0	3.4	4.5	3.3	3.3	3.1	3.8	3.9	3.3	3.4	3.4	3.4
median	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.0
max	96.2	59.8	97.8	64.2	88.4	60.2	53.8	72.4	74.2	91.6	55.0	70.6	97.8	97.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	96.9	92.5	95.5	104.3	135.9	96.6	101.4	96.3	112.8	119.7	99.6	104.2	104.6	101.8
max	251.0	173.2	246.6	341.4	437.4	170.8	197.2	207.4	276.8	244.0	189.0	215.0	437.4	341.4
min	30.2	11.6	18.2	47.4	51.8	30.4	27.8	19.6	7.2	12.6	27.8	17.8	7.2	11.6
<b>Seasonal Rainfall, millimetres</b>														
mean													1255.8	710.2
max													1800.2	1005.6
min													868.6	481.8
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	72.8	72.3	69.5	64.1	55.2	48.9	51.8	58.6	63.2	65.8	69.1	70.9	63.5	69.2
median	81.8	81.5	78.6	72.7	60.5	50.2	54.6	64.6	70.8	72.7	76.9	79.0	71.3	78.1
max	93.1	92.5	90.5	87.4	86.3	84.6	86.0	88.6	94.6	92.4	92.2	93.0	94.6	93.1
min	2.0	2.0	2.7	1.3	1.1	2.1	2.7	3.8	3.3	6.2	0.7	8.3	0.7	0.7
<b>Duff Moisture Code, DMC</b>														
mean	12.6	13.3	9.2	4.8	1.5	0.5	0.6	1.3	3.1	5.0	8.0	10.9	5.9	9.1
median	10.8	11.1	6.5	3.7	1.0	0.2	0.3	0.8	2.4	3.9	6.4	8.8	3.3	6.8
max	69.9	50.2	44.2	22.5	9.1	5.7	4.3	10.5	17.9	34.7	39.6	55.4	69.9	69.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	125.2	156.1	139.2	109.9	47.8	14.9	5.7	5.9	9.3	17.4	45.5	86.1	63.7	96.9
median	103.7	151.9	124.8	91.5	20.5	3.0	2.3	3.6	6.2	12.7	39.3	75.8	27.5	75.1
max	451.5	460.7	484.2	378.3	307.1	139.7	90.8	39.1	47.8	117.0	190.9	294.1	484.2	484.2
min	4.8	5.0	2.7	1.5	0.0	0.0	0.0	0.0	0.0	1.0	2.4	4.6	0.0	1.0
<b>Initial Spread Index, ISI</b>														
mean	7.7	6.6	5.5	4.2	2.8	1.6	1.7	2.4	4.2	5.3	6.1	6.5	4.5	6.0
median	3.8	3.3	2.6	1.9	1.0	0.4	0.6	1.2	1.7	2.5	3.0	3.4	1.8	2.9
max	56.8	47.7	38.4	31.0	25.7	20.4	22.1	23.8	55.5	68.5	58.4	66.3	68.5	68.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	19.2	20.7	14.8	7.9	2.4	0.8	0.8	1.6	3.4	5.7	10.6	15.8	8.7	13.5
median	16.6	18.1	10.8	6.3	1.5	0.4	0.4	1.0	2.5	4.3	8.9	13.4	4.5	10.2
max	87.4	78.1	64.0	32.5	15.1	8.6	5.9	10.7	17.9	39.8	47.1	70.4	87.4	87.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	10.2	9.2	6.6	4.0	1.7	0.7	0.7	1.2	2.8	4.3	6.2	8.1	4.6	6.9
median	5.8	5.4	2.9	1.0	0.3	0.1	0.1	0.3	0.6	1.3	2.9	4.3	0.8	3.2
max	72.7	65.1	58.7	32.0	23.1	11.6	12.3	16.0	28.9	43.9	47.8	61.4	72.7	72.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	3.1	2.6	1.6	0.7	0.2	0.1	0.1	0.1	0.5	0.8	1.4	2.2	1.1	1.8
median	0.6	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.2
max	53.6	44.2	36.7	12.5	7.0	2.1	2.3	3.7	10.5	22.0	25.5	39.8	53.6	53.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	98.1	74.1	51.4	21.2	7.0	1.6	1.9	3.4	13.9	25.2	42.5	68.6	34.1	54.5
max	298.7	180.4	154.7	72.9	21.1	7.6	6.8	8.6	37.7	78.9	103.6	199.0	298.7	298.7
min	27.5	8.2	8.0	5.0	0.2	0.0	0.0	0.1	1.3	3.3	10.8	7.8	0.0	3.3
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													409.0	378.1
max													667.9	696.0
min													203.3	162.0

Station Name: Blackmount Raws (BMT)      Period: 1993-11-04 - 2021-07-02      Length of record: 27 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	14.9	13.7	20.8	24.9	30.1	30.0	31.0	31.0	28.0	26.3	20.7	17.6	288.9	138.7
max	26	24	31	29	31	30	31	31	30	31	28	28	317	165
min	4	3	8	16	26	29	31	30	20	12	10	4	245	105
<b>Moderate</b>														
mean	11.0	9.8	8.0	4.7	0.9	0.0	0.0	0.0	2.0	4.5	8.0	9.9	58.9	56.2
max	20	17	18	13	5	1	0	1	10	15	17	18	87	76
min	4	4	0	1	0	0	0	0	0	0	2	3	45	40
<b>High</b>														
mean	3.0	3.1	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.2	1.2	2.5	11.8	11.7
max	8	8	5	5	0	0	0	0	0	3	8	8	21	21
min	0	0	0	0	0	0	0	0	0	0	0	0	2	1
<b>Very High</b>														
mean	1.1	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.7	3.4	3.4
max	5	5	3	0	0	0	0	0	0	2	1	3	10	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.7	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.0	2.0
max	5	4	2	0	0	0	0	0	0	0	0	5	6	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
max	2	1	1	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source      Southland (Western)														
Curing%	30	30	30	20	10	10	10	10	20	20	30	30		
<b>Low</b>														
mean	5.6	5.6	7.6	10.9	18.4	22.4	22.7	19.1	11.8	11.0	7.6	6.6	149.6	55.3
max	10	14	13	19	29	30	29	27	18	21	13	14	182	72
min	1	0	1	3	7	16	15	13	0	2	3	2	124	40
<b>Moderate</b>														
mean	17.3	16.7	17.3	16.4	12.4	7.6	8.3	11.9	15.3	16.1	16.2	18.1	173.6	118.1
max	23	22	25	22	24	14	16	18	25	24	23	24	199	136
min	10	12	10	9	2	0	2	4	9	10	12	13	152	104
<b>High</b>														
mean	6.8	5.3	5.7	2.7	0.1	0.0	0.0	0.0	2.8	3.9	5.8	5.4	38.5	35.4
max	11	10	11	9	1	0	0	0	7	8	11	13	52	49
min	2	1	2	0	0	0	0	0	0	0	2	1	22	17
<b>Very High</b>														
mean	1.3	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	3.6	3.6
max	8	3	3	0	0	0	0	0	1	1	2	5	17	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	6.2	5.8	7.9	10.3	15.4	18.3	17.9	13.8	10.8	10.3	8.1	7.7	132.3	56.4
max	11	14	13	18	29	30	30	22	20	19	15	13	166	74
min	1	1	1	4	5	8	5	2	0	0	2	2	98	44
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	1	0	1	0	0	0	0	0	0	0	1	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.6	1.7	2.8	2.6	2.3	2.9	3.4	3.5	2.6	2.3	2.1	1.6	29.4	14.7
max	6	6	6	5	5	12	14	9	7	5	6	5	51	21
min	0	0	0	0	0	0	0	0	0	0	0	0	20	9
<b>Very High</b>														
mean	2.5	2.6	3.1	3.3	2.7	2.9	3.4	3.7	3.5	2.3	2.7	2.6	35.3	19.4
max	5	6	6	12	7	9	12	15	11	6	5	6	49	30
min	0	0	1	0	0	0	0	0	0	0	0	0	22	11
<b>Extreme</b>														
mean	6.0	6.6	6.6	5.1	3.9	2.3	3.0	4.7	4.8	4.8	5.2	5.9	58.8	40.0
max	11	12	12	12	9	5	9	11	12	10	11	9	76	52
min	0	3	1	0	0	0	0	0	1	0	0	2	44	23
<b>Very Extreme</b>														
mean	14.7	11.6	10.6	8.7	6.7	3.7	3.3	5.3	8.4	11.3	11.9	13.3	109.3	81.7
max	22	19	15	17	17	9	10	12	17	17	19	22	141	103
min	6	4	5	4	1	0	0	0	2	3	4	6	76	59

### Windroses for Blackmount Raws (BMT)

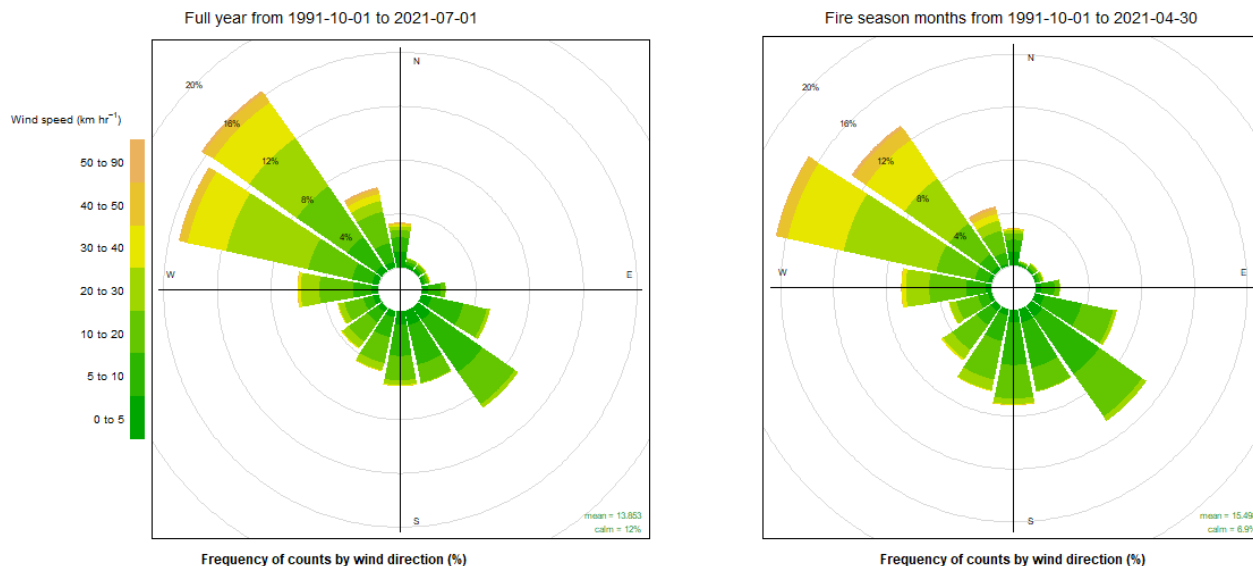


Station Name: Lumsden Aws (LUX)		Period: 1991-10-01 - 2021-07-01											Length of record: 29 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	17.8	17.6	15.6	13.1	10.0	7.0	6.6	7.9	10.4	12.5	14.3	16.4	12.4	15.3
median	17.8	18.0	15.1	13.0	10.0	6.9	6.3	7.9	10.3	12.2	14.0	16.0	12.1	15.0
max	29.7	30.0	26.6	25.0	20.4	19.8	16.2	18.3	22.0	23.4	26.0	27.5	30.0	30.0
min	7.0	6.0	3.0	0.8	0.0	-3.5	-3.1	-1.8	-0.3	1.6	2.0	5.0	-3.5	0.8
<b>Relative Humidity, %</b>														
mean	61.1	64.3	66.1	70.0	75.0	78.5	76.6	72.7	65.9	61.8	60.4	61.7	67.8	63.6
median	60.0	63.0	66.0	70.0	76.0	80.2	77.0	73.0	66.0	61.0	59.0	61.0	68.0	63.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	14.0	17.7	23.0	29.2	29.5	38.0	31.8	31.2	20.1	19.0	21.0	18.2	14.0	14.0
<b>Wind Speed, km/h</b>														
mean	17.0	14.1	14.0	12.2	11.7	10.1	10.4	11.1	14.4	17.7	17.4	15.9	13.9	15.5
median	14.3	11.1	11.0	9.3	9.0	7.4	7.4	7.4	11.1	15.0	14.8	13.0	11.0	13.0
max	62.0	53.0	69.1	56.7	51.4	55.4	68.9	77.3	61.4	62.4	90.0	58.7	90.0	90.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	3.2	3.3	2.8	2.7	2.9	2.5	2.2	2.1	2.4	2.9	2.9	3.4	2.8	3.0
median	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.2	0.0	0.0	0.2	0.0
max	67.8	76.6	56.6	58.8	39.0	32.2	55.2	32.6	38.2	54.0	59.6	52.2	76.6	76.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	95.5	95.4	88.6	82.2	89.7	75.1	67.3	64.5	72.6	91.3	86.5	103.5	84.4	91.9
max	198.4	202.0	170.0	235.0	150.2	190.0	160.1	214.0	214.0	226.0	190.6	220.0	235.0	235.0
min	34.4	13.6	17.6	2.6	1.6	15.8	17.2	18.0	30.4	25.0	5.8	20.6	1.6	2.6
<b>Seasonal Rainfall, millimetres</b>														
mean													1012.2	642.2
max													1620.0	1216.2
min													593.2	368.7
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	72.0	70.9	68.1	64.0	56.6	50.1	56.6	59.3	65.3	67.1	70.3	69.6	64.1	68.8
median	80.6	79.8	75.8	72.4	61.1	51.0	61.8	64.6	72.3	73.2	77.8	77.6	71.2	76.8
max	95.6	95.0	92.0	89.9	90.5	88.0	89.7	88.2	91.7	93.3	93.8	93.2	95.6	95.6
min	0.8	0.8	1.9	0.2	0.0	3.4	3.0	1.2	5.4	10.6	7.1	2.5	0.0	0.2
<b>Duff Moisture Code, DMC</b>														
mean	12.9	13.1	11.1	6.8	3.4	1.4	1.2	2.2	4.5	6.6	10.1	11.9	7.1	10.4
median	10.2	11.5	7.7	5.3	1.7	0.5	0.7	1.7	3.7	5.0	8.0	9.0	4.4	8.0
max	72.2	43.9	72.1	28.8	35.1	35.5	13.2	11.6	23.2	27.2	49.5	65.8	72.2	72.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	141.8	169.6	169.2	157.0	102.5	51.7	27.4	19.8	17.4	29.3	59.9	106.8	87.8	118.5
median	135.4	174.0	159.1	149.4	69.3	10.0	7.6	9.4	10.3	20.2	49.5	99.9	50.7	96.5
max	414.8	406.9	486.3	438.5	456.3	459.5	294.3	123.9	129.1	174.4	241.4	323.9	486.3	486.3
min	5.1	4.1	3.0	1.6	0.1	0.0	0.0	0.0	0.0	1.6	2.9	4.7	0.0	1.6
<b>Initial Spread Index, ISI</b>														
mean	5.1	3.8	3.5	2.3	1.6	1.0	1.2	1.7	2.7	3.8	4.3	3.8	2.9	3.8
median	2.6	2.2	1.5	1.2	0.7	0.3	0.6	0.8	1.3	1.7	2.3	2.0	1.2	1.8
max	55.3	64.9	49.9	33.9	26.9	26.9	47.6	29.6	39.4	46.8	46.4	50.9	64.9	64.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	20.1	21.0	18.2	11.7	5.8	2.3	1.8	2.9	5.1	8.0	13.7	17.7	10.7	15.8
median	16.5	19.3	13.4	9.1	2.7	0.8	1.0	2.1	3.9	5.9	11.0	14.1	6.3	12.3
max	91.3	64.2	104.5	49.4	58.9	59.5	19.6	14.1	27.4	37.6	60.2	85.3	104.5	104.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	7.5	5.9	5.1	2.8	1.3	0.6	0.6	1.0	2.1	3.6	5.2	5.6	3.5	5.1
median	3.9	3.4	1.4	0.7	0.3	0.1	0.2	0.3	0.5	0.8	2.2	2.2	0.6	1.9
max	69.3	59.7	54.5	30.8	21.5	22.4	28.0	18.4	29.6	44.6	53.8	49.4	69.3	69.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	2.0	1.3	1.3	0.4	0.2	0.1	0.0	0.1	0.3	0.7	1.2	1.2	0.7	1.2
median	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1
max	49.3	37.8	32.2	11.7	6.2	6.7	9.9	4.7	10.9	22.5	31.5	27.1	49.3	49.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	63.2	37.5	40.0	12.6	5.1	1.7	1.5	3.4	8.9	20.6	35.7	38.3	22.4	35.4
max	278.0	107.6	287.6	35.2	42.9	12.1	11.0	10.0	34.3	93.8	139.7	120.5	287.6	287.6
min	6.1	2.7	1.3	0.3	0.1	0.0	0.0	0.0	0.1	1.4	4.1	3.5	0.0	0.3
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													268.4	244.6
max													573.7	563.9
min													44.3	27.8

Station Name: Lumsden Aws (LUX)      Period: 1991-10-01 - 2021-07-01      Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	17.6	16.8	22.4	24.5	28.9	29.7	30.9	30.6	27.7	25.8	21.2	20.1	296.2	148.8
max	29	28	31	30	31	30	31	31	30	31	29	31	358	208
min	2	6	2	10	6	26	28	28	20	12	4	5	208	96
<b>Moderate</b>														
mean	9.7	9.3	6.4	5.1	2.0	0.3	0.1	0.4	2.3	4.8	7.3	8.2	56.0	50.8
max	20	17	16	18	23	4	3	3	10	16	24	18	129	90
min	2	0	0	0	0	0	0	0	0	0	1	0	7	4
<b>High</b>														
mean	2.3	1.5	1.1	0.4	0.1	0.0	0.0	0.0	0.0	0.3	1.0	2.1	8.9	8.7
max	10	6	6	3	2	1	0	0	0	5	6	12	25	21
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	2.4	2.3
max	5	3	3	1	0	0	0	0	0	1	4	3	6	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.5	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.6	1.5
max	5	2	10	0	0	0	0	0	0	0	3	2	10	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	1	0	2	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source	Southland (Northern Southland)													
Curing%	70	70	60	60	55	50	50	40	40	45	50	60		
<b>Low</b>														
mean	5.6	5.9	9.5	11.6	14.0	18.5	15.7	14.5	10.3	9.3	6.8	8.3	130.0	56.8
max	13	16	19	26	26	27	28	26	20	21	13	17	202	100
min	0	1	1	0	0	10	2	6	3	2	0	1	74	32
<b>Moderate</b>														
mean	16.6	16.7	17.7	16.5	15.1	10.8	14.5	15.0	17.1	17.1	17.8	18.7	193.5	121.5
max	22	22	26	29	30	20	28	25	26	25	26	23	239	143
min	8	10	12	4	5	3	3	5	9	9	12	11	147	100
<b>High</b>														
mean	5.4	4.1	3.2	1.8	1.7	0.7	0.8	1.4	2.4	3.8	4.2	3.6	33.1	26.1
max	11	11	13	8	13	3	2	6	9	9	11	10	64	46
min	0	0	0	0	0	0	0	0	0	0	1	0	13	8
<b>Very High</b>														
mean	2.6	1.3	0.7	0.1	0.2	0.1	0.0	0.1	0.1	0.7	1.0	0.3	7.2	6.5
max	7	6	6	1	3	1	0	1	2	3	4	3	21	17
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<b>Extreme</b>														
mean	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	1.4	1.4
max	7	1	0	0	0	0	1	0	0	1	2	0	8	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	7.1	6.6	9.2	11.0	15.0	18.9	14.8	13.4	10.2	10.1	7.6	8.6	132.4	59.9
max	14	16	17	26	27	30	28	25	19	21	15	16	217	110
min	0	1	1	1	0	9	2	5	3	2	0	1	80	35
<b>Moderate</b>														
mean	0.0	0.1	0.0	0.0	0.2	0.4	0.3	0.2	0.1	0.1	0.0	0.0	1.5	0.3
max	1	1	1	1	2	3	3	1	1	1	0	0	4	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	3.2	3.6	5.1	5.2	5.8	4.7	7.7	7.3	5.1	3.6	3.5	3.2	58.0	27.5
max	6	9	11	12	11	14	16	17	12	8	8	7	81	44
min	1	0	1	0	1	0	0	1	0	0	0	0	29	15
<b>Very High</b>														
mean	3.4	3.6	4.6	4.3	3.9	2.4	3.4	4.1	4.0	3.3	3.2	4.1	44.4	26.7
max	8	9	14	9	12	8	9	12	9	8	9	11	68	44
min	0	0	1	0	0	0	0	0	0	0	0	1	26	12
<b>Extreme</b>														
mean	6.7	7.4	5.0	4.6	3.2	2.0	3.0	2.9	5.3	5.2	7.3	6.7	59.3	43.1
max	14	12	10	11	13	5	12	7	10	15	13	13	88	59
min	1	2	1	1	0	0	0	0	2	1	1	2	36	30
<b>Very Extreme</b>														
mean	10.6	7.0	7.0	4.9	2.9	1.6	1.8	3.1	5.3	8.7	8.4	8.4	69.7	54.8
max	26	16	17	13	21	8	7	9	16	18	17	22	140	102
min	2	2	1	0	0	0	0	0	0	1	3	1	33	24

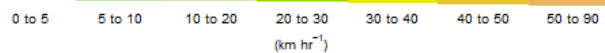
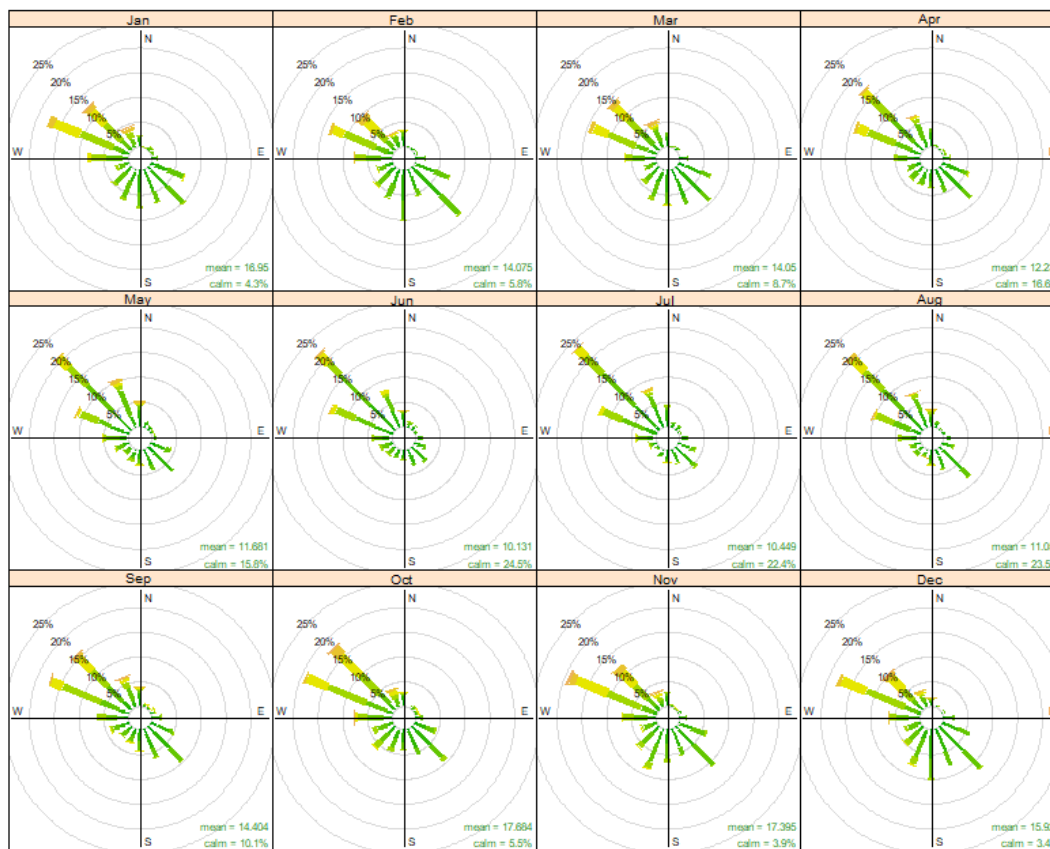
### Windroses for Lumsden Aws (LUX)



Frequency of counts by wind direction (%)

Frequency of counts by wind direction (%)

### LUX station from 1991-10-01 to 2021-07-01



Frequency of counts by wind direction (%)

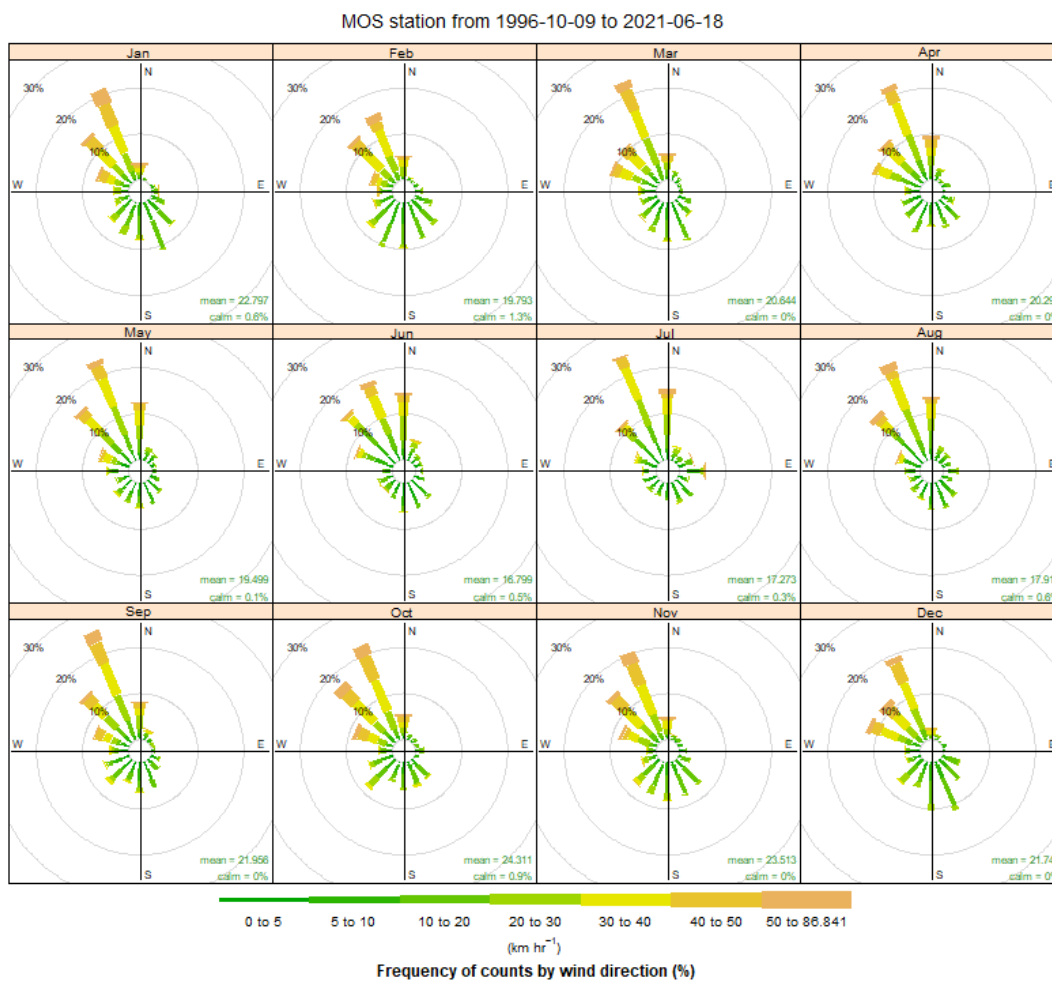
Station Name: Barnhill Raws (MOS)		Period: 1996-10-09 - 2021-07-01											Length of record: 24 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	16.8	16.9	15.2	12.3	9.6	6.9	6.4	7.9	10.3	11.9	13.5	15.7	12.0	14.6
median	16.9	17.0	15.2	12.4	9.7	6.8	6.3	8.2	10.6	11.9	13.6	15.7	11.8	14.4
max	28.6	29.1	25.7	22.9	19.0	16.1	13.9	15.9	20.2	22.9	24.4	26.2	29.1	29.1
min	3.5	6.1	3.8	0.8	-1.2	-4.4	-3.9	-3.8	-0.8	0.9	2.3	2.2	-4.4	0.8
<b>Relative Humidity, %</b>														
mean	63.8	65.1	67.2	70.5	75.2	77.5	76.2	72.4	66.9	64.6	64.4	63.2	68.9	65.5
median	62.0	63.0	65.0	67.3	74.0	78.0	76.0	71.0	65.3	62.0	62.0	61.0	67.2	63.7
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	25.8	30.0	31.0	41.0	31.3	33.6	32.4	15.3	17.5	22.0	27.0	21.0	15.3	21.0
<b>Wind Speed, km/h</b>														
mean	23.1	20.3	20.6	20.0	19.4	17.2	17.0	17.7	22.5	24.3	24.2	22.2	20.7	22.1
median	18.6	16.1	16.6	16.6	16.3	13.0	13.2	13.8	20.2	21.9	21.5	18.2	17.0	18.4
max	74.6	78.7	69.1	73.4	69.4	70.9	81.0	78.1	79.6	86.8	83.2	72.0	86.8	86.8
min	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	1.3	0.0	1.0	1.5	0.0	0.0
<b>24-hr Rainfall, millimeters</b>														
mean	2.5	3.1	2.3	2.6	2.8	2.2	2.1	1.9	2.2	2.7	2.4	2.8	2.5	2.6
median	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
max	74.2	92.8	55.2	73.8	37.8	31.4	40.2	28.4	37.6	67.8	69.8	48.4	92.8	92.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	73.7	90.1	71.5	79.4	84.1	64.5	65.2	58.7	65.1	82.0	72.9	83.5	74.2	79.0
max	146.6	183.4	149.0	174.4	157.2	111.6	123.2	107.0	167.6	200.6	175.2	158.2	200.6	200.6
min	30.2	8.8	16.0	34.4	34.4	18.4	15.2	23.0	7.0	6.6	9.8	18.8	6.6	6.6
<b>Seasonal Rainfall, millimetres</b>														
mean													890.8	545.6
max													1156.0	748.4
min													648.2	398.6
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	72.8	72.5	71.1	65.8	59.1	55.1	58.3	62.5	67.9	67.8	71.5	71.3	66.3	70.4
median	81.9	81.6	79.4	74.6	65.6	59.3	64.9	69.6	74.8	74.9	79.3	78.4	74.4	78.8
max	92.7	91.9	90.5	87.9	89.3	86.1	87.8	91.2	90.5	90.2	92.1	93.1	93.1	93.1
min	1.5	2.0	1.3	0.0	3.1	3.6	1.1	3.6	5.5	3.9	0.0	7.5	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	13.9	14.3	11.6	7.3	2.6	1.0	1.1	2.2	4.7	6.9	10.7	12.3	7.4	11.0
median	11.0	12.4	8.6	5.4	1.9	0.6	0.7	1.7	3.9	5.1	8.1	9.9	4.5	8.5
max	72.3	62.9	48.5	31.4	11.4	11.2	7.5	10.1	19.9	34.1	55.1	48.5	72.3	72.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	174.7	207.7	198.9	185.5	109.2	51.4	28.4	20.0	17.6	31.0	72.0	131.7	102.6	142.5
median	171.7	205.6	192.4	198.8	108.5	20.4	9.1	8.4	12.3	26.6	66.6	122.3	75.5	131.8
max	415.1	534.5	552.5	383.6	300.6	238.2	156.4	117.9	97.3	120.1	259.1	282.7	552.5	552.5
min	4.7	4.7	3.2	1.3	0.0	0.0	0.0	0.0	0.0	1.1	3.1	4.9	0.0	1.1
<b>Initial Spread Index, ISI</b>														
mean	7.3	5.9	5.3	3.8	2.8	1.8	2.1	2.7	4.7	5.5	6.0	5.8	4.5	5.7
median	3.6	2.9	2.3	1.7	1.2	0.7	0.9	1.2	2.1	2.5	3.1	3.0	1.9	2.7
max	55.3	44.6	43.3	28.1	37.5	28.1	24.2	45.9	51.8	31.2	49.0	64.4	64.4	64.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	22.3	23.5	19.6	12.5	4.5	1.8	1.7	3.0	5.3	8.4	15.1	19.1	11.4	17.2
median	18.6	21.0	14.9	10.0	3.2	1.1	1.1	2.2	4.3	6.4	11.8	15.9	7.0	13.7
max	91.3	96.2	78.8	50.0	20.8	18.9	12.7	16.2	19.9	39.9	69.9	66.3	96.2	96.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	10.3	9.0	7.3	4.5	2.2	1.0	1.1	1.8	3.7	5.2	7.3	8.0	5.1	7.4
median	5.9	5.1	3.6	1.4	0.4	0.2	0.3	0.4	0.9	1.9	4.1	4.6	1.0	3.8
max	72.8	60.8	55.5	38.9	27.1	23.4	18.8	31.6	30.0	33.2	47.0	78.3	78.3	78.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	3.3	2.6	1.9	0.9	0.3	0.1	0.1	0.2	0.6	1.1	1.8	2.2	1.3	2.0
median	0.6	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.0	0.3
max	53.7	39.1	33.3	17.7	9.4	7.2	4.9	12.3	11.2	13.4	24.8	61.2	61.2	61.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	104.4	75.0	60.9	26.1	10.3	2.8	3.1	7.3	18.9	33.8	56.3	69.5	39.0	60.9
max	331.0	253.6	157.3	82.4	66.9	11.6	10.9	40.9	53.8	136.4	242.2	241.8	331.0	331.0
min	6.2	6.1	7.9	6.2	0.5	0.2	0.2	0.5	1.5	2.8	9.5	10.4	0.2	2.8
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													468.5	427.8
max													919.1	785.2
min													147.3	158.2



Station Name: Barnhill Raws (MOS)      Period: 1996-10-09 - 2021-07-01      Length of record: 24 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	14.7	13.8	17.8	22.0	28.5	29.8	30.8	29.9	26.3	23.4	18.3	16.9	272.3	126.2
max	28	25	28	29	31	30	31	31	30	31	28	28	330	166
min	2	3	4	13	14	28	29	24	17	2	1	2	218	82
<b>Moderate</b>														
mean	10.2	9.8	10.0	6.8	2.5	0.2	0.2	1.1	3.6	6.8	8.9	10.3	70.4	63.6
max	14	16	19	14	17	2	2	7	13	19	22	18	107	89
min	3	3	3	1	0	0	0	0	0	0	2	3	33	38
<b>High</b>														
mean	3.6	2.6	2.0	0.9	0.0	0.0	0.0	0.0	0.0	0.8	2.0	2.4	14.5	14.4
max	10	6	7	5	0	0	0	0	1	10	8	7	25	28
min	0	0	0	0	0	0	0	0	0	0	0	0	2	3
<b>Very High</b>														
mean	1.3	1.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	4.5	4.5
max	5	5	3	3	0	0	0	0	0	0	4	5	16	11
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.9	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	3.2	3.2
max	6	4	4	1	0	0	0	0	0	0	8	3	10	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
max	4	4	1	0	0	0	0	0	0	0	0	1	4	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source	Southland (Northern Southland)													
Curing%	70	70	60	60	55	50	50	40	40	45	50	60		
<b>Low</b>														
mean	4.6	4.5	6.5	8.6	11.6	13.4	12.7	11.1	7.4	7.8	5.5	6.2	99.8	43.0
max	10	12	15	16	22	23	26	18	15	18	11	13	156	63
min	1	1	0	2	2	6	7	1	1	0	1	0	64	28
<b>Moderate</b>														
mean	14.6	14.7	17.5	16.6	15.2	15.0	16.1	17.0	16.8	15.5	16.0	18.2	193.2	113.2
max	21	22	24	22	22	21	22	26	25	22	26	23	216	134
min	8	10	7	13	9	7	4	13	10	9	11	12	162	92
<b>High</b>														
mean	5.8	5.0	5.8	4.6	3.5	1.5	2.1	2.7	5.0	5.8	5.7	5.2	52.7	38.2
max	10	8	13	10	13	5	6	11	10	13	10	11	66	53
min	1	1	1	1	0	0	0	0	1	2	1	1	37	19
<b>Very High</b>														
mean	3.8	2.5	1.2	0.2	0.6	0.1	0.1	0.2	0.8	2.0	2.8	1.3	15.7	13.9
max	9	5	6	1	4	1	1	3	4	7	7	5	32	27
min	0	0	0	0	0	0	0	0	0	0	0	0	7	4
<b>Extreme</b>														
mean	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	4.0	4.0
max	7	5	0	0	1	0	0	0	1	0	1	1	10	9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	6.3	5.9	6.8	9.6	13.7	14.8	14.0	11.5	8.0	9.0	6.8	6.9	113.2	50.6
max	12	12	16	18	24	25	27	20	16	17	14	13	170	76
min	1	1	1	3	3	5	7	4	1	1	1	0	75	34
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
max	1	1	0	0	1	0	1	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.4	2.5	3.7	3.8	3.5	5.0	4.5	5.2	3.6	2.6	2.3	3.0	42.0	20.4
max	5	6	7	9	10	14	10	11	8	6	9	7	57	28
min	0	0	1	1	0	0	0	1	0	0	0	0	28	11
<b>Very High</b>														
mean	2.0	2.3	4.1	3.4	3.1	2.5	3.4	3.9	3.7	2.8	2.8	2.9	37.0	20.2
max	5	7	9	7	8	9	7	10	7	5	6	6	47	28
min	0	1	0	1	0	0	0	0	0	0	1	0	30	13
<b>Extreme</b>														
mean	6.7	7.0	5.2	4.5	3.9	3.5	4.5	4.6	5.2	5.6	6.1	6.0	62.7	41.3
max	13	13	10	10	9	7	8	12	9	11	19	10	92	53
min	1	1	0	2	1	1	1	1	1	1	1	3	43	30
<b>Very Extreme</b>														
mean	13.6	10.6	11.1	8.8	6.8	4.3	4.5	5.8	9.5	11.2	12.0	12.2	110.2	79.8
max	25	20	17	15	20	11	10	16	16	23	21	22	153	110
min	5	4	5	4	1	0	0	1	2	4	4	3	81	56

### Windroses for Barnhill Raws (MOS)



Station Name: Invercargill Aero SYNOP  
(NVA)

Period: 1961-01-01 - 2022-03-04

Length of record: 61 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	16.6	16.7	15.4	13.1	10.3	7.7	7.2	9.0	11.1	12.6	14.0	15.8	12.5	14.9
median	16.0	16.0	15.0	13.0	10.0	7.9	7.1	9.0	11.0	12.0	13.8	15.0	12.0	14.4
max	29.3	29.0	26.1	23.7	20.1	17.6	16.0	18.3	21.0	24.0	26.0	27.4	29.3	29.3
min	7.0	7.7	6.0	2.0	0.0	-1.1	-2.0	0.6	1.0	1.0	2.0	3.3	-2.0	1.0
<b>Relative Humidity, %</b>														
mean	69.2	69.4	71.6	74.5	79.3	81.7	80.9	75.4	70.1	68.3	68.2	67.8	73.0	69.9
median	68.0	68.2	71.0	74.0	80.0	82.0	81.0	75.0	69.0	67.0	67.0	67.0	73.0	69.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	33.0	32.2	35.0	41.0	44.0	48.0	41.0	27.0	29.0	27.0	34.0	23.0	23.0	23.0
<b>Wind Speed, km/h</b>														
mean	23.2	21.3	20.3	19.5	18.3	16.5	15.0	17.3	21.4	24.8	25.1	23.0	20.5	22.5
median	20.4	18.5	18.5	17.0	14.8	13.0	13.0	14.8	20.0	22.2	24.0	22.0	18.5	20.4
max	70.4	74.1	70.4	77.8	74.1	81.5	66.7	75.9	74.1	75.9	72.2	68.5	81.5	77.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	3.4	2.8	2.8	3.3	3.4	3.2	2.6	2.3	2.7	3.1	3.0	3.0	3.0	3.1
median	0.2	0.0	0.2	0.4	0.8	0.8	0.6	0.3	0.4	0.6	0.5	0.3	0.4	0.3
max	134.4	61.0	53.9	50.0	46.0	43.2	33.8	53.8	35.8	51.0	58.2	59.6	134.4	134.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	105.3	79.4	87.0	98.9	105.6	97.5	81.8	72.5	81.6	95.6	90.5	92.7	90.7	92.8
max	279.0	176.8	199.0	182.4	189.5	213.0	184.4	162.4	190.6	172.0	169.0	223.4	279.0	279.0
min	17.0	6.4	19.6	16.8	19.2	29.3	25.3	14.4	11.3	32.6	20.3	15.2	6.4	6.4
<b>Seasonal Rainfall, millimetres</b>														
mean													1088.5	649.5
max													1446.0	913.1
min													761.4	489.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	70.3	71.6	68.6	63.4	56.9	51.6	53.3	61.4	65.6	67.2	68.7	70.3	64.1	68.6
median	76.8	78.2	75.3	68.4	59.1	52.1	54.6	65.6	70.5	72.2	73.8	76.0	68.9	74.5
max	91.3	91.2	90.3	88.5	86.0	84.8	84.5	87.1	89.0	90.4	90.2	92.3	92.3	92.3
min	4.2	3.4	0.0	2.6	3.2	2.4	3.2	2.9	3.8	9.9	0.6	4.6	0.0	0.0
<b>Duff Moisture Code, DMC</b>														
mean	9.2	9.7	6.9	3.7	1.5	0.5	0.6	1.6	3.2	4.6	6.3	8.4	4.7	6.9
median	7.5	8.1	5.6	2.6	0.8	0.2	0.3	1.0	2.4	3.8	5.2	7.1	2.8	5.4
max	62.6	62.7	30.9	22.9	14.0	10.0	4.5	9.9	24.7	27.0	28.8	40.6	62.7	62.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Drought Code, DC</b>														
mean	144.6	174.2	172.1	133.3	68.4	19.5	9.0	9.2	14.2	25.7	58.4	104.5	77.5	115.8
median	145.4	168.2	167.9	121.4	39.9	5.1	4.2	6.0	8.7	19.1	52.6	102.9	43.0	102.6
max	456.2	438.7	387.3	343.1	310.8	203.3	115.1	60.7	100.3	134.8	216.0	266.2	456.2	456.2
min	5.5	4.8	3.5	1.6	0.0	0.0	0.0	0.0	0.0	1.1	3.1	4.8	0.0	1.1
<b>Initial Spread Index, ISI</b>														
mean	3.8	3.7	2.9	2.0	1.3	0.8	0.8	1.6	2.5	3.4	3.6	3.7	2.5	3.3
median	2.7	2.5	2.0	1.3	0.8	0.5	0.5	1.1	1.7	2.2	2.5	2.5	1.5	2.2
max	41.8	43.5	34.4	22.5	19.2	10.4	12.6	18.4	39.9	49.8	49.6	48.4	49.8	49.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	15.2	16.3	12.0	6.5	2.7	0.8	0.8	2.0	3.9	6.0	9.5	13.4	7.4	11.3
median	12.9	14.2	10.0	4.6	1.3	0.4	0.5	1.4	2.8	4.9	7.9	11.7	4.3	9.0
max	82.9	92.4	48.6	37.1	24.2	17.4	5.5	13.0	30.6	33.3	40.0	55.8	92.4	92.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fire Weather Index, FWI</b>														
mean	5.0	5.0	3.4	1.7	0.7	0.3	0.3	0.7	1.7	2.7	3.6	4.5	2.5	3.7
median	3.1	3.1	1.7	0.6	0.2	0.1	0.1	0.3	0.6	0.9	2.1	2.9	0.6	1.9
max	56.4	57.1	37.7	25.6	10.3	7.0	7.7	12.3	24.1	32.5	35.1	42.5	57.1	57.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	0.9	0.9	0.5	0.2	0.0	0.0	0.0	0.0	0.2	0.4	0.5	0.7	0.4	0.6
median	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.1
max	34.2	35.0	16.8	8.4	1.7	0.8	1.0	2.3	7.6	12.9	14.8	20.8	35.0	35.0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	26.9	25.2	15.4	5.1	1.3	0.3	0.3	1.4	5.0	11.1	15.7	22.9	10.9	17.5
max	119.2	159.1	62.2	21.0	5.9	1.7	2.5	9.4	19.6	37.0	78.8	70.9	159.1	159.1
min	4.6	2.6	1.4	0.2	0.0	0.0	0.0	0.1	0.5	1.8	1.8	3.3	0.0	0.2
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													130.5	122.1
max													264.7	288.0
min													59.8	38.1

Station Name: Invercargill Aero SYNOP  
(NVA)

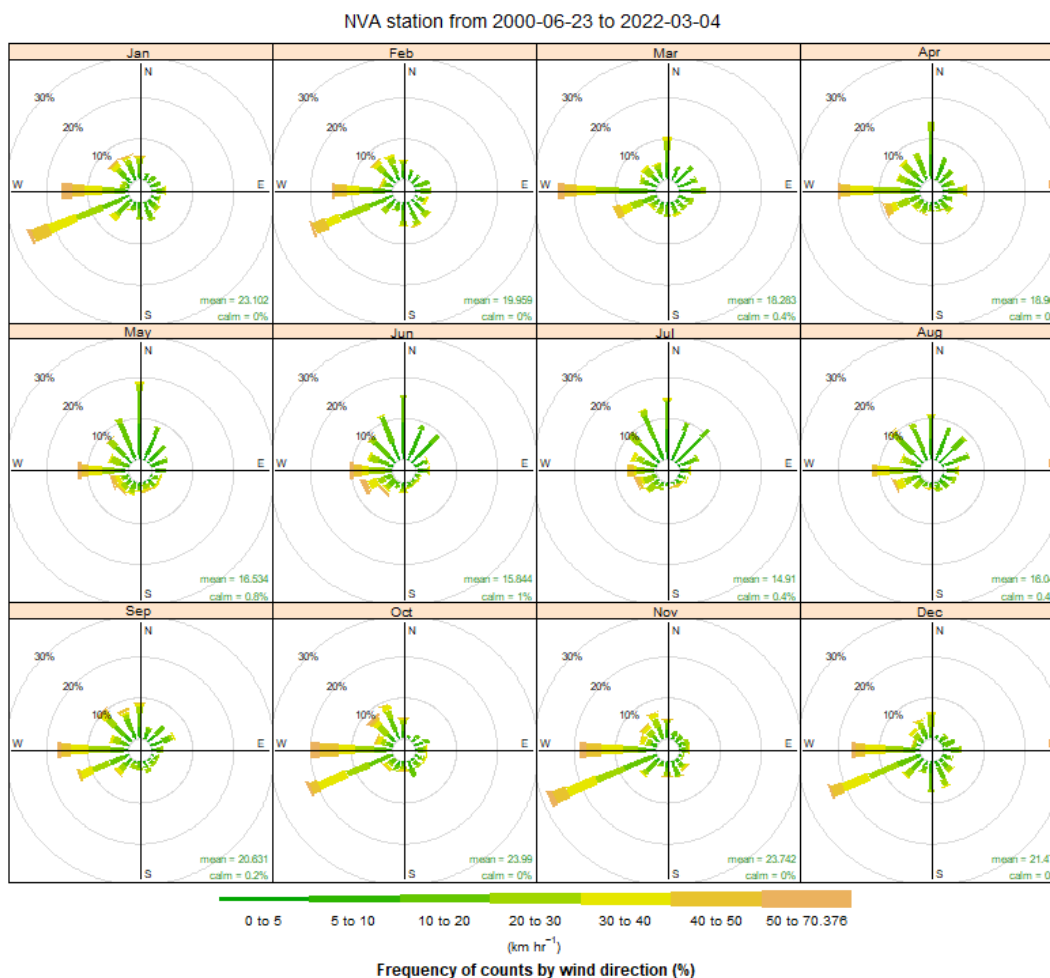
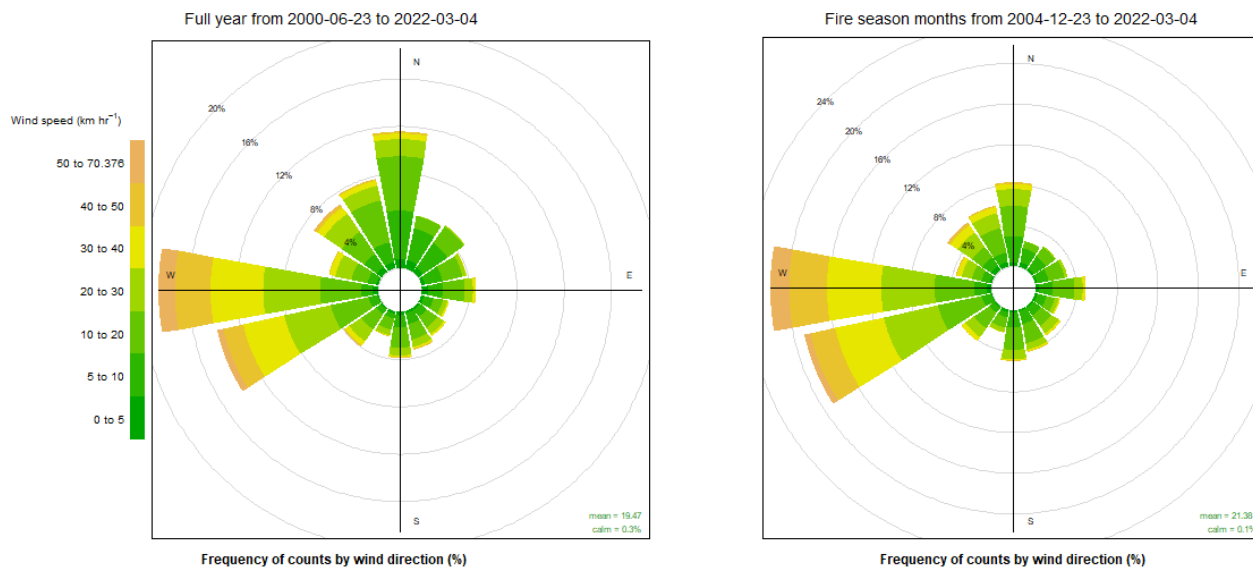
Period: 1961-01-01 - 2022-03-04

Length of record: 61 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	20.5	19.1	24.4	28.0	30.8	30.0	31.0	30.9	29.1	28.4	24.2	21.8	318.1	166.3
max	31	28	31	30	31	30	31	31	30	31	30	30	346	203
min	9	0	6	21	28	30	31	29	16	16	9	4	275	118
<b>Moderate</b>														
mean	9.6	8.2	6.2	1.9	0.2	0.0	0.0	0.1	0.9	2.6	5.6	8.6	43.8	42.7
max	19	18	21	9	3	0	0	2	14	14	19	23	82	84
min	0	0	0	0	0	0	0	0	0	0	0	1	19	9
<b>High</b>														
mean	0.8	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.6	2.8	2.8
max	6	7	3	1	0	0	0	0	0	1	5	4	10	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very High</b>														
mean	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
max	3	3	1	0	0	0	0	0	0	0	1	1	4	4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	1	1	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	1	2	0	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source	Southland (Coastal Southland)													
Curing%	60	60	50	50	45	40	40	30	30	35	40	50		
<b>Low</b>														
mean	5.6	4.2	5.7	8.4	13.7	17.9	18.2	12.8	8.2	6.8	5.1	4.2	110.8	39.7
max	13	10	13	19	23	28	28	21	19	14	12	13	148	59
min	0	0	0	0	3	5	7	2	1	0	0	0	75	21
<b>Moderate</b>														
mean	22.1	21.4	22.6	20.2	16.9	12.0	12.7	17.9	20.8	21.9	22.1	22.9	233.4	153.5
max	28	27	28	27	27	23	23	28	29	30	29	27	260	168
min	15	15	14	9	8	2	3	8	11	16	14	17	204	138
<b>High</b>														
mean	3.1	2.4	2.5	1.3	0.4	0.1	0.2	0.3	0.9	2.1	2.6	3.4	19.3	17.4
max	9	7	11	6	3	2	3	2	4	7	10	10	37	31
min	0	0	0	0	0	0	0	0	0	0	0	0	10	7
<b>Very High</b>														
mean	0.2	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.5	1.7	1.6
max	2	2	2	1	0	0	0	0	1	1	2	3	7	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	1	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	7.8	6.0	8.2	11.4	15.9	18.7	18.1	12.6	10.1	9.7	8.3	7.5	134.3	58.8
max	15	12	17	21	29	28	27	21	21	19	17	22	168	87
min	2	0	0	1	3	7	8	2	1	3	0	2	95	37
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.6	0.2
max	1	1	1	1	2	2	1	1	1	1	0	0	4	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	2.0	2.5	3.7	4.2	5.5	5.7	6.6	5.6	3.1	2.3	2.1	2.1	45.4	18.7
max	7	8	9	9	12	15	14	12	9	7	7	6	66	31
min	0	0	0	1	1	0	2	0	0	0	0	0	27	8
<b>Very High</b>														
mean	3.7	4.1	5.1	4.8	4.3	3.2	3.5	5.6	5.0	4.0	3.6	4.1	51.0	29.5
max	8	10	10	11	12	9	11	12	14	8	10	9	71	39
min	1	0	0	1	0	0	0	1	0	0	0	0	37	17
<b>Extreme</b>														
mean	8.2	7.9	8.1	6.0	3.5	1.5	2.0	4.8	7.3	7.3	7.6	8.4	72.6	53.6
max	14	16	15	15	10	7	7	12	15	13	16	15	102	77
min	2	3	3	0	0	0	0	1	1	2	2	3	53	28
<b>Very Extreme</b>														
mean	9.3	7.8	6.0	3.6	1.7	0.7	0.6	2.3	4.5	7.7	8.4	8.9	61.4	51.5

max	18	17	17	11	6	5	5	7	10	15	14	18	91	72
min	2	0	0	0	0	0	0	0	1	1	3	3	32	26

### Windroses for Invercargill Aero SYNOP (NVA)

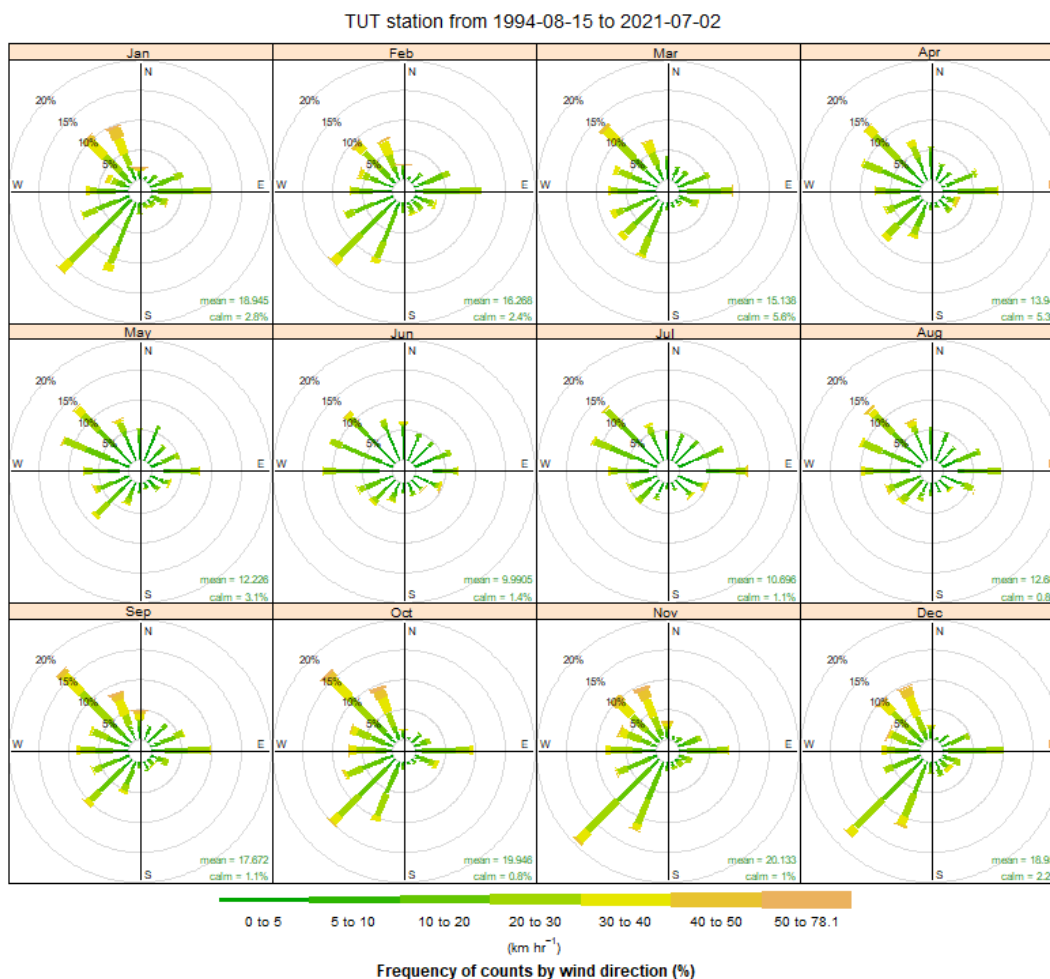
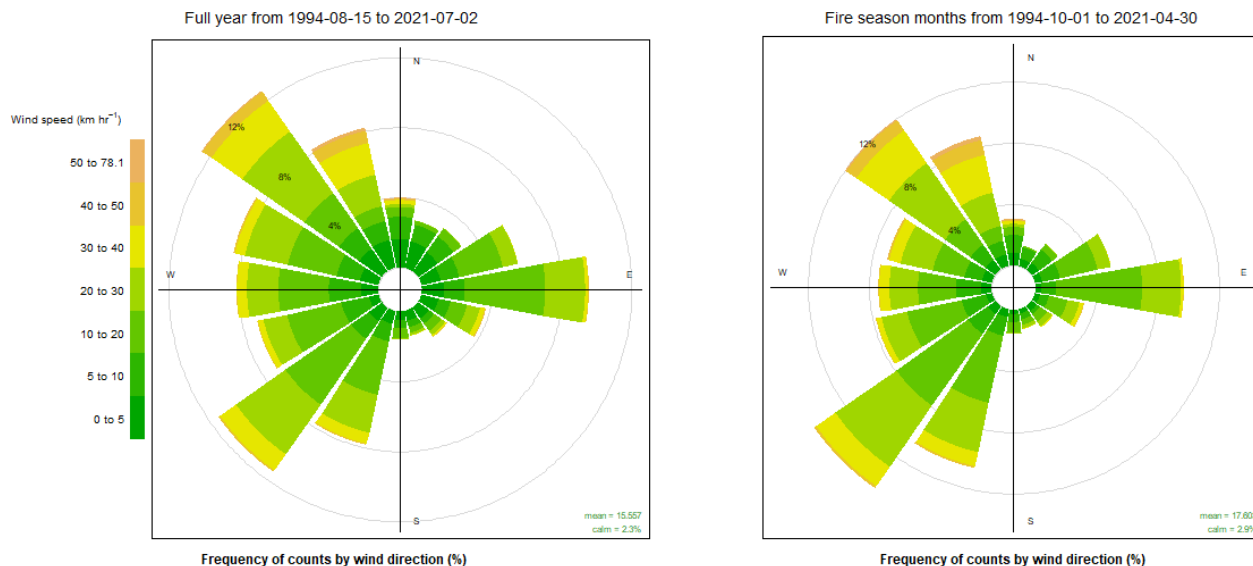


Station Name: Tuatapere Raws (TUT)													Period: 1994-08-15 - 2021-07-02		Length of record: 26 years	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON		
<b>Temperature, degrees Celsius</b>																
mean	18.1	18.1	16.6	14.0	11.3	8.3	7.8	9.6	11.8	13.3	14.8	17.0	13.4	16.0		
median	18.0	18.0	16.3	14.0	11.1	8.0	7.6	9.6	11.8	13.2	14.5	16.7	13.2	15.7		
max	29.8	29.8	27.2	23.8	22.0	17.3	16.8	18.2	22.6	23.7	26.4	27.2	29.8	29.8		
min	7.4	8.0	6.6	3.1	0.5	0.3	-1.2	-0.5	0.6	1.5	2.2	6.4	-1.2	1.5		
<b>Relative Humidity, %</b>																
mean	64.1	65.6	68.1	72.5	78.5	81.8	79.9	74.8	67.8	64.9	64.1	63.5	70.4	66.1		
median	63.0	65.0	67.0	72.0	80.0	82.8	80.7	75.0	67.0	64.0	63.0	62.0	70.0	65.0		
max	96.0	99.0	96.0	98.0	100.0	100.0	100.0	100.0	97.0	96.3	94.0	99.0	100.0	99.0		
min	29.0	25.0	35.0	43.0	41.0	49.7	40.0	39.0	23.0	22.0	33.0	22.0	22.0	22.0		
<b>Wind Speed, km/h</b>																
mean	18.8	16.5	15.2	13.9	12.3	10.3	10.5	12.7	17.9	19.9	20.3	19.2	15.6	17.7		
median	17.5	15.5	13.8	13.0	10.1	6.8	6.7	10.4	16.9	19.3	19.2	18.5	14.5	16.9		
max	60.6	72.2	64.5	49.1	48.7	50.8	44.4	49.3	78.1	75.5	60.3	60.5	78.1	75.5		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>24-hr Rainfall, millimeters</b>																
mean	2.9	2.7	2.6	2.9	3.7	3.6	3.2	3.0	3.1	3.4	3.1	3.1	3.1	3.0		
median	0.0	0.0	0.2	0.2	0.4	0.8	0.4	0.2	0.2	0.4	0.4	0.2	0.2	0.2		
max	56.8	51.8	51.2	37.0	44.8	34.0	35.2	42.4	36.8	55.6	50.8	52.0	56.8	56.8		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Rainfall, millimetres</b>																
mean	84.8	78.7	82.7	87.3	111.8	107.5	97.8	93.5	93.8	108.2	94.7	95.8	94.7	90.3		
max	177.4	190.4	152.2	155.8	228.8	199.6	215.0	190.6	221.6	215.6	187.8	178.6	228.8	215.6		
min	15.6	17.4	11.4	31.2	33.2	34.2	18.8	10.2	13.2	39.2	37.2	16.4	10.2	11.4		
<b>Seasonal Rainfall, millimetres</b>																
mean													1136.8	631.9		
max													1499.0	844.8		
min													617.4	436.6		
<b>Fine Fuel Moisture Code, FFMC</b>																
mean	72.8	72.3	69.1	63.5	54.1	45.4	50.6	59.1	64.6	66.7	68.9	71.2	63.2	69.2		
median	81.0	79.2	76.8	70.1	56.9	44.7	52.9	64.7	71.1	72.8	74.7	78.3	69.4	76.5		
max	92.4	93.2	90.7	88.4	87.0	84.2	87.9	86.4	90.1	92.0	91.2	93.3	93.3	93.3		
min	7.9	7.3	6.6	8.7	5.6	3.7	1.8	2.2	4.6	14.4	10.7	5.9	1.8	5.9		
<b>Duff Moisture Code, DMC</b>																
mean	13.3	13.0	9.6	5.6	2.0	0.7	0.8	2.3	4.5	5.9	7.9	11.2	6.4	9.5		
median	11.0	11.6	6.8	4.2	1.4	0.3	0.4	1.4	3.1	4.5	6.6	8.9	3.9	7.2		
max	46.3	45.1	50.5	32.8	12.0	9.9	8.0	15.9	29.3	37.7	31.6	45.4	50.5	50.5		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Drought Code, DC</b>																
mean	153.1	199.6	195.9	169.5	92.3	35.2	19.1	21.3	23.4	30.4	57.6	110.7	92.1	130.2		
median	144.1	191.9	192.9	165.2	56.4	5.1	4.9	6.3	9.8	17.9	47.9	100.2	53.9	120.1		
max	443.3	447.0	441.7	449.4	393.9	344.7	298.3	257.2	237.0	231.3	205.7	278.2	449.4	449.4		
min	5.3	24.9	3.5	2.1	0.0	0.0	0.0	0.0	0.0	1.2	2.8	5.0	0.0	1.2		
<b>Initial Spread Index, ISI</b>																
mean	4.6	3.8	3.0	1.9	1.2	0.6	0.8	1.4	2.9	3.3	3.9	4.2	2.6	3.5		
median	2.8	2.4	1.8	1.2	0.6	0.1	0.4	0.8	1.5	1.9	2.1	2.7	1.2	2.0		
max	49.2	39.8	38.2	23.9	22.3	13.3	27.9	20.0	42.3	48.1	49.0	46.5	49.2	49.2		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Buildup Index, BUI</b>																
mean	21.1	21.6	16.5	9.9	3.6	1.1	1.2	3.2	5.3	7.3	11.0	16.9	9.9	14.9		
median	17.8	20.0	12.2	7.8	2.5	0.5	0.7	1.8	3.5	5.4	9.0	14.2	5.9	11.5		
max	71.3	71.0	77.7	55.5	20.2	18.0	14.8	23.7	40.5	51.5	39.1	59.6	77.7	77.7		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Fire Weather Index, FWI</b>																
mean	7.0	6.0	4.3	2.1	0.8	0.2	0.4	0.8	2.3	3.0	4.2	5.8	3.1	4.6		
median	4.5	3.7	1.7	0.6	0.2	0.0	0.1	0.3	0.6	0.8	1.8	3.5	0.6	2.1		
max	63.1	51.2	44.2	25.7	16.9	7.6	16.3	19.2	34.2	35.7	38.6	48.7	63.1	63.1		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Daily Severity Rating, DSR</b>																
mean	1.6	1.3	0.8	0.3	0.1	0.0	0.0	0.1	0.3	0.4	0.7	1.2	0.6	0.9		
median	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.1		
max	41.7	28.8	22.2	8.5	4.1	1.0	3.8	5.1	14.1	15.3	17.5	26.4	41.7	41.7		
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Monthly Severity Rating, MSR</b>																
mean	51.1	37.0	26.4	7.7	2.4	0.3	0.8	1.8	10.0	13.9	22.5	35.3	17.4	27.7		
max	151.5	104.7	134.6	32.0	10.6	1.5	4.8	10.4	56.6	41.4	70.5	104.6	151.5	151.5		
min	9.2	5.2	3.9	1.1	0.1	0.0	0.0	0.0	1.2	0.9	2.1	3.5	0.0	0.9		
<b>Cumulative Daily Severity Rating, CDSR</b>																
mean													209.2	192.3		
max													372.6	356.0		
min													81.3	68.1		

Station Name: Tuatapere Raws (TUT)      Period: 1994-08-15 - 2021-07-02      Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	15.9	15.8	22.1	26.6	30.3	30.0	30.9	30.7	27.7	26.9	23.0	19.6	299.4	150.3
max	28	27	30	30	31	30	31	31	30	31	30	30	333	187
min	5	3	4	16	26	29	29	26	7	14	14	5	245	100
<b>Moderate</b>														
mean	12.5	10.3	7.6	3.2	0.7	0.0	0.1	0.3	2.1	4.0	6.4	9.7	56.9	53.3
max	20	20	21	11	5	1	2	5	19	15	13	22	102	91
min	3	2	1	0	0	0	0	0	0	0	0	1	27	25
<b>High</b>														
mean	1.8	1.5	1.0	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.5	1.3	6.7	6.4
max	8	4	7	3	0	0	0	0	3	2	5	4	15	17
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<b>Very High</b>														
mean	0.3	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.4	1.3
max	2	3	1	1	0	0	0	0	1	0	1	2	6	6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	0.9
max	4	2	3	0	0	0	0	0	0	0	0	1	4	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	1	0	0	0	0	0	0	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source	Southland (Coastal Southland)													
Curing%	60	60	50	50	45	40	40	30	30	35	40	50		
<b>Low</b>														
mean	5.3	5.6	7.7	9.8	16.3	22.5	20.0	15.7	10.8	9.3	6.8	6.0	135.9	50.7
max	11	12	14	21	25	28	29	24	18	19	13	13	178	83
min	0	0	0	2	2	10	9	4	1	4	0	0	85	26
<b>Moderate</b>														
mean	21.3	19.4	20.2	18.8	14.2	7.3	10.9	15.0	17.6	18.8	19.3	20.5	203.3	138.5
max	28	25	25	28	27	20	21	26	28	23	26	26	255	162
min	14	13	14	8	6	2	2	7	11	12	11	13	167	108
<b>High</b>														
mean	3.6	2.8	2.6	1.3	0.5	0.1	0.1	0.3	1.5	2.7	3.4	3.5	22.5	19.7
max	7	8	5	7	2	1	1	2	4	8	8	7	34	33
min	0	0	1	0	0	0	0	0	0	0	0	0	13	12
<b>Very High</b>														
mean	0.8	0.4	0.5	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.4	1.0	3.5	3.2
max	3	2	3	1	1	0	1	0	1	1	4	5	13	17
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
max	0	0	1	0	0	0	0	0	0	0	0	1	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	6.4	6.0	8.5	10.8	16.5	21.6	18.3	13.7	10.5	10.1	8.5	8.1	139.0	58.5
max	11	14	15	19	26	28	30	22	17	21	16	17	182	92
min	0	1	0	3	3	10	7	2	1	5	3	1	81	36
<b>Moderate</b>														
mean	0.0	0.0	0.1	0.0	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.7	0.2
max	0	1	1	0	1	1	1	1	0	1	1	1	3	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1.9	2.8	3.9	5.2	5.7	4.7	6.5	7.0	3.2	2.9	2.4	2.3	48.5	21.6
max	5	6	8	10	15	12	14	13	5	7	5	6	74	35
min	0	0	0	2	1	1	0	1	1	0	0	0	30	11
<b>Very High</b>														
mean	3.9	4.1	4.6	5.3	3.7	1.8	2.8	4.8	4.1	3.8	4.2	3.6	46.8	29.2
max	9	10	9	11	8	7	9	11	9	7	10	8	69	39
min	0	1	1	1	0	0	1	1	0	1	1	0	30	21
<b>Extreme</b>														
mean	8.4	7.8	7.9	5.1	2.9	1.2	2.2	3.8	6.2	6.8	7.3	7.5	67.1	50.9
max	12	15	12	13	9	7	6	9	13	13	15	12	91	69
min	5	1	1	1	0	0	0	0	0	3	2	5	37	24
<b>Very Extreme</b>														
mean	10.3	7.5	6.0	3.6	2.0	0.6	0.9	1.7	6.0	7.3	7.6	9.4	63.0	51.7
max	18	17	14	8	9	3	4	5	12	15	14	21	89	74
min	4	1	1	1	0	0	0	0	1	1	3	2	36	25

### Windroses for Tuatapere Raws (TUT)





Station Name: Wreys Bush Raws (WRY)      Period: 1994-08-16 - 2021-07-02      Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	18.1	17.9	16.4	13.7	10.9	8.0	7.5	9.3	11.8	13.4	14.8	17.1	13.3	15.9
median	17.9	17.8	16.1	13.8	10.9	7.8	7.3	9.4	11.9	13.4	14.8	17.1	13.1	15.7
max	30.4	32.8	27.6	22.6	21.3	18.7	17.0	17.5	23.4	24.3	26.4	28.5	32.8	32.8
min	2.2	5.5	6.1	1.3	0.4	-2.4	-2.3	-3.8	0.1	3.6	2.3	6.4	-3.8	1.3
<b>Relative Humidity, %</b>														
mean	63.8	65.6	67.9	71.9	76.5	79.4	77.6	73.0	66.6	63.1	63.3	62.4	69.2	65.4
median	62.7	65.0	66.6	70.0	76.2	80.0	78.0	72.0	66.0	61.0	62.0	61.0	69.0	64.0
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	23.5	23.1	35.0	41.0	44.0	43.0	31.0	15.5	14.1	27.0	25.0	15.0	14.1	15.0
<b>Wind Speed, km/h</b>														
mean	15.5	13.6	14.1	13.6	14.0	13.8	13.1	13.5	16.5	18.1	18.5	16.3	15.1	15.7
median	11.5	10.6	10.8	10.9	11.9	12.2	11.3	11.2	13.8	15.3	15.5	12.6	12.2	12.3
max	59.9	61.1	61.3	51.2	49.8	55.4	68.0	47.3	67.0	83.8	80.4	54.2	83.8	83.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	2.4	2.6	2.1	2.3	2.5	2.3	1.9	1.8	2.2	2.5	2.5	2.5	2.3	2.4
median	0.0	0.0	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
max	55.8	62.0	36.6	63.8	30.4	33.2	33.0	26.2	29.4	47.2	52.6	52.0	63.8	63.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	70.2	74.8	65.1	70.1	75.9	68.6	59.0	56.1	65.8	80.2	74.6	77.4	69.8	73.2
max	122.2	155.2	146.4	189.1	201.6	133.2	106.0	126.8	143.8	187.2	141.0	175.6	201.6	189.1
min	22.8	10.0	7.0	11.6	19.8	18.6	12.2	14.4	14.2	32.6	23.8	12.8	7.0	7.0
<b>Seasonal Rainfall, millimetres</b>														
mean													837.8	509.9
max													1208.0	754.6
min													656.6	363.0
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	72.9	72.5	70.4	65.3	59.0	54.3	58.9	63.4	67.7	69.2	70.9	72.0	66.4	70.5
median	81.7	80.0	78.3	72.8	63.4	56.1	62.9	69.7	74.4	74.9	77.4	79.2	73.3	77.9
max	93.4	94.0	90.5	88.3	87.7	85.9	87.9	87.8	94.3	91.0	93.0	95.1	95.1	95.1
min	2.6	0.9	3.7	0.4	3.7	5.0	7.6	4.8	2.3	2.9	13.5	8.1	0.4	0.4
<b>Duff Moisture Code, DMC</b>														
mean	14.9	15.4	12.0	7.3	2.8	1.1	1.3	2.5	5.5	7.5	10.0	13.5	7.8	11.5
median	12.5	13.0	8.7	5.7	2.0	0.5	0.8	2.0	4.5	6.5	8.5	11.0	5.2	9.0
max	79.6	88.8	53.2	53.7	16.3	13.2	7.6	13.3	26.0	25.5	32.6	53.3	88.8	88.8
min	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Drought Code, DC</b>														
mean	208.8	246.6	254.9	244.6	178.3	101.6	61.7	45.6	40.0	50.3	87.9	154.5	139.4	177.5
median	207.0	252.0	250.6	255.9	184.2	109.4	45.8	29.1	32.3	42.4	80.3	145.4	118.8	171.1
max	488.6	533.9	515.1	478.0	400.8	277.9	183.5	155.9	162.5	173.6	271.8	320.1	533.9	533.9
min	4.1	5.8	42.5	1.9	0.0	0.1	0.2	0.0	0.0	1.6	3.4	4.8	0.0	1.6
<b>Initial Spread Index, ISI</b>														
mean	4.3	3.4	3.1	2.2	1.6	1.1	1.3	1.8	3.1	3.7	4.0	4.0	2.8	3.5
median	2.4	2.0	1.8	1.2	0.9	0.6	0.8	1.1	1.6	1.9	2.1	2.3	1.4	2.0
max	46.9	43.2	36.4	33.4	29.6	16.4	20.6	23.1	35.2	48.7	38.0	37.7	48.7	48.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	24.4	25.7	20.8	13.0	5.2	2.0	2.2	3.9	7.2	10.2	14.9	21.2	12.5	18.6
median	21.5	22.7	15.7	10.8	3.8	1.0	1.4	3.0	5.9	9.1	12.8	18.3	8.6	15.0
max	101.1	124.6	84.3	80.8	28.9	21.1	13.2	21.5	32.5	33.9	48.1	73.0	124.6	124.6
min	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Fire Weather Index, FWI</b>														
mean	7.1	6.1	4.9	2.7	1.3	0.6	0.7	1.2	2.7	3.9	5.0	6.2	3.5	5.1
median	4.3	3.3	2.3	0.8	0.3	0.2	0.2	0.4	0.8	1.3	2.5	3.4	0.8	2.5
max	67.2	61.9	58.1	40.0	22.6	12.0	12.2	20.4	28.6	38.7	40.7	51.6	67.2	67.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	1.8	1.4	1.0	0.4	0.1	0.0	0.0	0.1	0.4	0.7	1.0	1.4	0.7	1.1
median	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.1
max	46.7	40.3	36.0	18.6	6.8	2.2	2.3	5.7	10.3	17.6	19.3	29.2	46.7	46.7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	56.1	40.0	32.3	12.3	4.7	1.2	1.5	3.1	12.3	22.0	29.7	40.8	21.3	33.3
max	260.6	230.2	116.9	61.0	17.1	7.0	4.7	12.8	36.2	91.9	85.7	133.0	260.6	260.6
min	9.9	3.2	4.2	0.8	0.1	0.0	0.1	0.2	1.6	0.7	4.2	2.4	0.0	0.7
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													255.9	232.3
max													511.2	480.4
min													95.9	80.4

Station Name: Wreys Bush Raws (WRY)      Period: 1994-08-16 - 2021-07-02      Length of record: 26 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	16.2	16.4	21.3	24.8	29.7	29.8	30.8	30.3	26.2	24.7	20.3	19.0	289.7	142.6
max	27	27	30	30	31	30	31	31	30	31	28	31	332	184
min	6	0	3	7	25	27	29	25	19	15	7	1	246	112
<b>Moderate</b>														
mean	11.5	9.2	7.8	4.7	1.3	0.2	0.2	0.7	3.7	5.8	8.5	9.6	63.0	57.4
max	19	16	24	18	6	3	2	6	9	14	18	22	97	83
min	4	1	1	0	0	0	0	0	0	0	1	0	30	28
<b>High</b>														
mean	2.0	1.7	1.1	0.3	0.0	0.0	0.0	0.0	0.2	0.5	0.9	1.8	8.5	8.2
max	6	11	7	3	0	0	0	0	2	6	4	8	23	24
min	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<b>Very High</b>														
mean	0.7	0.6	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	2.5	2.4
max	5	3	3	1	0	0	0	0	0	0	2	3	7	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	1.4
max	5	4	3	1	0	0	0	0	0	0	1	2	5	7
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
max	2	2	1	0	0	0	0	0	0	0	0	0	2	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
Curing source	Southland (Coastal Southland)													
Curing%	60	60	50	50	45	40	40	30	30	35	40	50		
<b>Low</b>														
mean	5.8	5.5	7.0	9.2	13.7	16.2	14.2	12.8	9.0	8.1	6.3	5.8	113.5	47.5
max	13	12	12	24	25	29	25	22	15	17	12	16	183	69
min	0	0	0	3	2	9	1	2	1	1	0	0	90	26
<b>Moderate</b>														
mean	21.2	19.9	20.5	18.9	16.1	13.2	16.2	17.7	18.5	19.5	19.7	21.1	222.4	140.9
max	28	23	27	27	25	21	29	28	27	29	27	25	240	164
min	14	15	12	5	6	1	5	9	12	14	10	15	155	116
<b>High</b>														
mean	3.3	2.5	2.8	1.8	1.2	0.6	0.6	0.5	2.5	3.1	3.3	3.2	25.4	20.0
max	7	8	8	6	5	4	2	3	5	9	9	7	38	41
min	0	0	0	0	0	0	0	0	0	0	1	0	11	9
<b>Very High</b>														
mean	0.8	0.3	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.9	3.9	3.8
max	5	2	3	1	1	0	0	0	1	3	2	4	9	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
max	0	0	0	0	0	0	0	0	0	0	0	1	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	6.1	5.9	7.3	10.0	13.8	16.3	14.4	11.2	8.4	8.3	7.1	6.7	115.5	51.4
max	13	14	14	27	27	29	25	22	15	16	13	18	199	75
min	0	0	0	1	2	8	2	2	1	3	1	0	88	39
<b>Moderate</b>														
mean	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	0.1
max	1	0	0	1	1	1	1	1	2	0	0	1	3	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	3.0	4.1	4.6	5.3	5.9	6.0	6.7	6.3	4.5	4.8	3.7	3.7	58.6	29.1
max	7	10	10	12	12	15	12	13	12	11	8	8	86	42
min	1	0	2	0	0	1	0	2	0	1	1	1	39	14
<b>Very High</b>														
mean	4.2	4.4	5.8	4.3	4.3	3.8	4.7	6.0	5.2	3.7	4.5	4.1	55.0	30.6
max	8	11	13	11	9	11	10	9	10	7	11	8	68	48
min	1	2	2	0	0	0	1	1	2	0	1	1	31	20
<b>Extreme</b>														
mean	9.3	7.8	7.5	6.7	4.1	2.3	3.5	4.8	5.9	6.6	7.2	8.4	74.2	53.9
max	15	14	15	15	11	6	8	12	16	15	11	14	97	70
min	3	3	1	1	0	0	0	2	2	1	2	4	42	36
<b>Very Extreme</b>														
mean	8.4	6.2	5.8	3.6	2.8	1.5	1.7	2.7	6.0	7.5	7.5	8.0	61.7	47.1
max	19	20	13	10	8	10	5	7	11	17	16	18	82	82
min	2	1	1	0	0	0	0	0	0	1	1	1	29	25

### Windroses for Wreys Bush Raws (WRY)

