

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    | 15.7  | 13.2  | 12.3  | 12.9  | 15.1  | 17    | 18.6  | 20.7  | 17.3   | 19.8        |
| median  | 22     | 21.6  | 20    | 18    | 15.6  | 13    | 12    | 13    | 15    | 17    | 18.4  | 20.5  | 17     | 20          |
| max   | 32.5   | 36    | 32.1  | 27.1  | 25    | 22.7  | 20    | 21    | 25    | 27    | 31.5  | 32    | 36     | 36          |
| min   | 11     | 12.7  | 11    | 10    | 7     | 4.6   | 5     | 1.6   | 7.7   | 7     | 8     | 9     | 1.6    | 7           |
| <b>Relative Humidity, %</b>                   |        |       |       |       |       |       |       |       |       |       |       |       |        |             |
| mean  | 59.4   | 62.6  | 61.3  | 65.1  | 65.9  | 67.8  | 68.5  | 66    | 61.9  | 59.8  | 58.4  | 59.6  | 63     | 60.9        |
| median  | 61     | 63    | 62    | 65    | 65    | 67    | 68    | 66    | 61    | 59    | 59    | 60.5  | 63     | 62          |
| 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     | 18    | 17    | 14.8  | 13    | 13    | 13    | 15    | 17    | 18.5  | 20    | 20    | 17     | 18.5        |
| max   | 50     | 46    | 56    | 46.3  | 64    | 54    | 55.6  | 52    | 56    | 57.4  | 55.6  | 52    | 64     | 57.4        |
| min   | 3.7    | 0     | 1.9   | 0     | 0     | 0     | 0     | 0     | 2     | 0     | 2     | 2     | 0      | 0           |
| <b>24-hr Rainfall, millimeters</b>            |        |       |       |       |       |       |       |       |       |       |       |       |        |             |
| mean  | 2.1    | 2     | 2     | 2.7   | 2.5   | 3.1   | 3.7   | 2.3   | 2     | 2     | 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     | 68.4  | 71.6  | 117   | 86.8  | 80.8  | 87.8  | 75.6  | 54.4  | 78.4  | 71    | 81.8  | 117    | 117         |
| min   | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0           |
| <b>Monthly Rainfall, millimetres</b>          |        |       |       |       |       |       |       |       |       |       |       |       |        |             |
| mean  | 65     | 54.6  | 60.6  | 80    | 77.4  | 88.1  | 115   | 70.3  | 59.6  | 61.3  | 51.2  | 61    | 70.3   | 61.9        |
| max   | 212.4  | 181.6 | 163   | 247.4 | 195.8 | 203.3 | 349.6 | 194   | 175.6 | 193.8 | 144.2 | 196.4 | 349.6  | 247.4       |
| min   | 5.4    | 3     | 8     | 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         |
| <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    | 83    | 82.4  | 78.2  | 78.7  | 80.5  | 83.3  | 84.1  | 85    | 85.2  | 83.5   | 84.8        |
| max   | 96.9   | 98    | 95.5  | 91.6  | 91.1  | 90.3  | 89.6  | 89.3  | 91.2  | 94.6  | 95.3  | 94.8  | 98     | 98          |
| 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    | 16.7  | 11.4  | 7.7   | 5.2   | 7.1   | 12.2  | 18    | 25.5  | 32    | 19.5   | 27.1        |
| median  | 31.4   | 23.2  | 23.3  | 12.2  | 9.7   | 4.8   | 4     | 6     | 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    | 24    | 36.3  | 55.3  | 73.8  | 119.6 | 151.2  | 151.2       |
| min   | 0.7    | 0     | 0.4   | 0     | 0     | 0     | 0     | 0     | 0     | 0.6   | 1.1   | 0.3   | 0      | 0           |
| <b>Drought Code, DC</b>                       |        |       |       |       |       |       |       |       |       |       |       |       |        |             |
| mean  | 332.4  | 369.6 | 378   | 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   | 167.4 | 114   | 25.6  | 30.6  | 49.2  | 81.9  | 155.8 | 257   | 155.8  | 235.3       |
| max   | 663.2  | 736.4 | 853.9 | 869   | 734.9 | 656.7 | 407.8 | 297.6 | 295.7 | 226.1 | 327.2 | 554.1 | 869    | 869         |
| min   | 9.4    | 6.2   | 6     | 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     | 3.6   | 5.2   | 6.8   | 8.3   | 7.6   | 5.5    | 6.8         |
| median  | 6      | 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    | 24    | 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    | 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    | 41.5  | 20.2   | 33          |
| max   | 189.8  | 193.4 | 166   | 129.3 | 93.4  | 85.9  | 44.8  | 36    | 44.2  | 62.1  | 88.4  | 155.3 | 193.4  | 193.4       |
| min   | 1.3    | 0     | 0.8   | 0     | 0     | 0     | 0     | 0     | 0     | 0.8   | 1.6   | 0.5   | 0      | 0           |
| <b>Fire Weather Index, FWI</b>                |        |       |       |       |       |       |       |       |       |       |       |       |        |             |
| mean  | 18.4   | 14.6  | 14.3  | 7.6   | 5.9   | 4.1   | 3     | 3.8   | 6.6   | 10    | 14.7  | 16.1  | 10     | 13.7        |
| median  | 15.2   | 11.7  | 10.8  | 5.2   | 3.7   | 1     | 0.9   | 1.8   | 4.7   | 7.6   | 11.8  | 12.8  | 6      | 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      | 4.6         |
| median  | 3.4    | 2.1   | 1.8   | 0.5   | 0.3   | 0     | 0     | 0.1   | 0.4   | 1     | 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    | 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    | 141.5 | 154.7 | 55.7  | 38    | 25.2  | 13.7  | 17.3  | 39.6  | 81.4  | 147   | 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   | 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     | 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       |

|  | 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          |
| 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    | 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    | 0.7  | 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    | 0.5  | 2.1  | 3    | 13.9  | 13          |
| 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    | 0.4  | 1    | 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>  |      |      |      |      |      |      |      |      |      |      |      |      |       |             |
| <b>Curing source Eastern (Hastings / Napier)</b> |      |      |      |      |      |      |      |      |      |      |      |      |       |             |
| 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    | 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    | 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    | 0.5  | 0.2  | 0.2  | 0    | 0.4  | 2.1  | 1.9  | 3    | 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    | 0.2  | 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    | 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    | 5.1  | 6.1  | 7.6  | 8.9  | 6.8  | 5    | 4    | 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    | 0.1   | 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    | 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    | 2.1  | 3.3  | 3.4  | 4    | 3.8  | 3.9  | 3.6  | 2.5  | 2.3  | 2    | 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          |

|                     | JAN  | FEB  | MAR  | APR  | MAY | JUN | JUL | AUG | SEP | OCT | NOV  | DEC | YEAR | FIRE SEASON |
|---------------------|------|------|------|------|-----|-----|-----|-----|-----|-----|------|-----|------|-------------|
| <b>Very Extreme</b> |      |      |      |      |     |     |     |     |     |     |      |     |      |             |
| mean                | 20.4 | 16.5 | 17.1 | 10.3 | 9.2 | 7.1 | 7   | 8.8 | 13  | 16  | 18.5 | 19  | 163  | 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          |