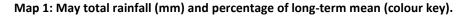
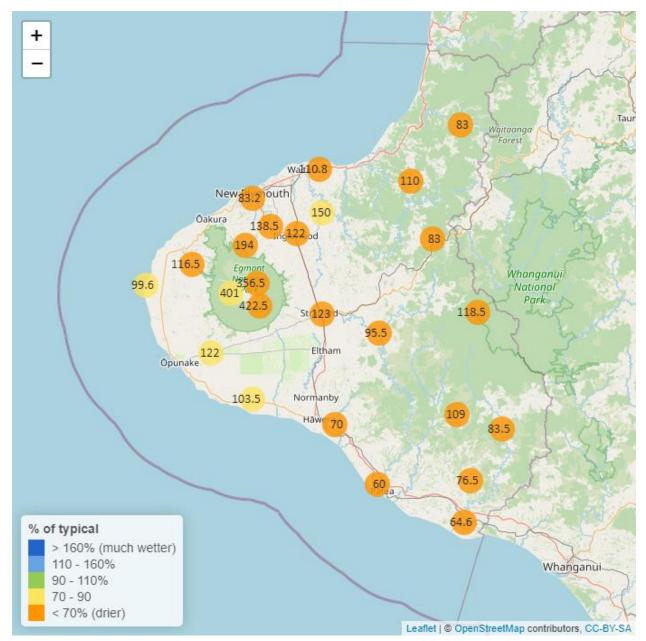
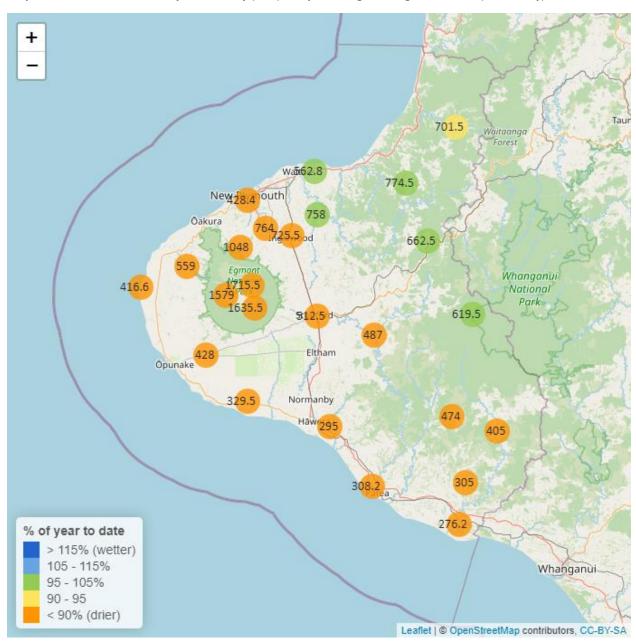
Taranaki Regional Council Monthly Rainfall and Environmental Data Report for May 2024

Note: The data presented here are provisional data only and may change as a result of quality control at a later date.

1. Rainfall





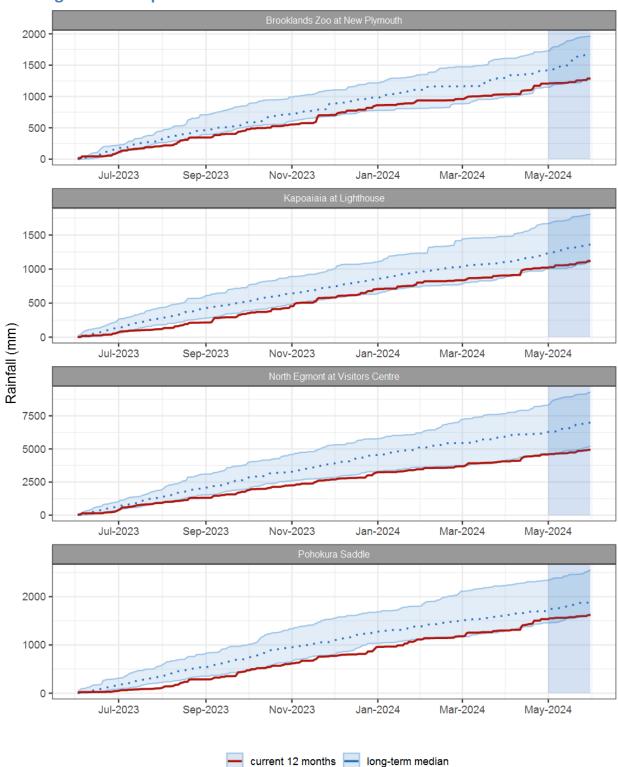


Map 1a. Total rainfall 1 January to end May (mm) and percentage of long-term mean (colour key).

 Table 1: Rainfall May and year-to-date totals for rain gauge sites in Taranaki.

| | | Мау | | | Year to Date | | | | | |
|------------------------------------|---------------------|-----------------------|--------------------------|-----------------------|------------------------------|---------------------------|------------------|--|--|--|
| Rain gauge | # days with rain | Total rain (mm) | % of typical month | Total to date (mm) | % of typical year to date | % of typical full year | Records Began | | | |
| North Egmont at Visitors Centre | 21 | 356.5 | 52.5 | 1715.5 | 71.7 | 24.7 | 1991 | | | |
| Dawson Falls | 21 | 422.5 | 67.2 | 1635.5 | 76.2 | 27.5 | 1933 | | | |
| Kapoaiaia at Kahui Hut | 24 | 401.0 | 76.4 | 1579.0 | 87.3 | 30.0 | 2006 | | | |
| Mangorei Upper at Forest Hill | 19 | 194.0 | 45.1 | 1048.0 | 77.9 | 27.9 | 2018 | | | |
| Waiwhakaiho at Hillsborough | 15 | 87.5 | 44.2 | 544.0 | 76.9 | 29.7 | 2013 | | | |
| Brooklands Zoo at New Plymouth | 21 | 83.2 | 46.4 | 428.4 | 67.7 | 26.5 | 2012 | | | |
| Motunui M39 at Weston W3 | 15 | 110.8 | 68.0 | 562.8 | 96.7 | 35.8 | 1999 | | | |
| Waiwhakaiho at Egmont Village | 17 | 138.5 | 60.0 | 764.0 | 87.5 | 31.5 | 1991 | | | |
| Manganui at Everett Park | 14 | 150.0 | 74.9 | 758.0 | 100.5 | 36.5 | 1987 | | | |
| Inglewood at Oxidation Ponds | 13 | 122.0 | 52.1 | 725.5 | 87.5 | 30.8 | 2000 | | | |
| Stony at Mangatete Bridge | 19 | 116.5 | 55.8 | 559.0 | 74.6 | 27.9 | 2004 | | | |
| Kapoaiaia at Lighthouse | 17 | 99.6 | 74.8 | 416.6 | 78.1 | 29.9 | 1930 | | | |
| Taungatara at Eltham Rd | 19 | 122.0 | 71.1 | 428.0 | 74.5 | 27.1 | 2005 | | | |
| Kaupokonui at Glenn Rd | 20 | 103.5 | 88.5 | 329.5 | 77.2 | 28.2 | 1998 | | | |
| Patea at Stratford | 17 | 123.0 | 55.3 | 512.5 | 70.5 | 25.8 | 1999 | | | |
| Mangaehu at Bridge | 21 | 95.5 | 59.3 | 487.0 | 83.2 | 30.6 | 1999 | | | |
| Kotare at OSullivans | 17 | 83.0 | 38.5 | 701.5 | 94.0 | 32.5 | 1998 | | | |
| Uruti at Kaka Rd | 10 | 110.0 | 53.8 | 774.5 | 98.4 | 34.7 | 1991 | | | |
| Pohokura Saddle | 14 | 83.0 | 45.2 | 662.5 | 95.5 | 33.3 | 1991 | | | |
| Omaru at Charlies | 21 | 118.5 | 68.1 | 619.5 | 96.7 | 33.9 | 2006 | | | |
| Omahine at Moana Trig | 23 | 109.0 | 62.4 | 474.0 | 75.9 | 28.0 | 2007 | | | |

| | | Мау | | | | | |
|---------------------------------|---------------------|-----------------------|--------------------------|-----------------------|------------------------------|------------------------|------------------|
| Rain gauge | # days with rain | Total rain (mm) | % of typical month | Total to date (mm) | % of typical year to date | % of typical full year | Records Began |
| Waitotara at Rimunui Station | 17 | 83.5 | 62.5 | 405.0 | 83.1 | 29.4 | 1994 |
| Waitotara at Ngutuwera | 18 | 76.5 | 62.3 | 305.0 | 65.1 | 23.7 | 1999 |
| Tawhiti at Duffys | 19 | 70.0 | 65.9 | 295.0 | 72.0 | 26.6 | 1994 |
| Patea at Bore 3 | 18 | 60.0 | 49.5 | 308.2 | 69.3 | 26.1 | 2006 |
| Waitotara at Hawken Rd | 14 | 64.6 | 49.1 | 276.2 | 56.6 | 23.2 | 2016 |



1.2 Long-term data patterns

Figure 1.1: This year's and last year's data set in context of historic record at selected rain gauge sites in Taranaki.

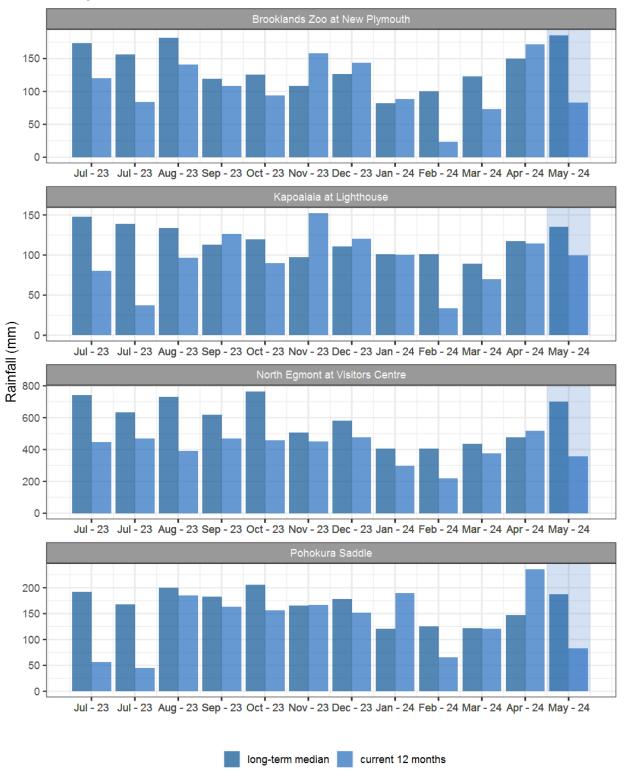
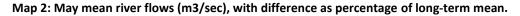
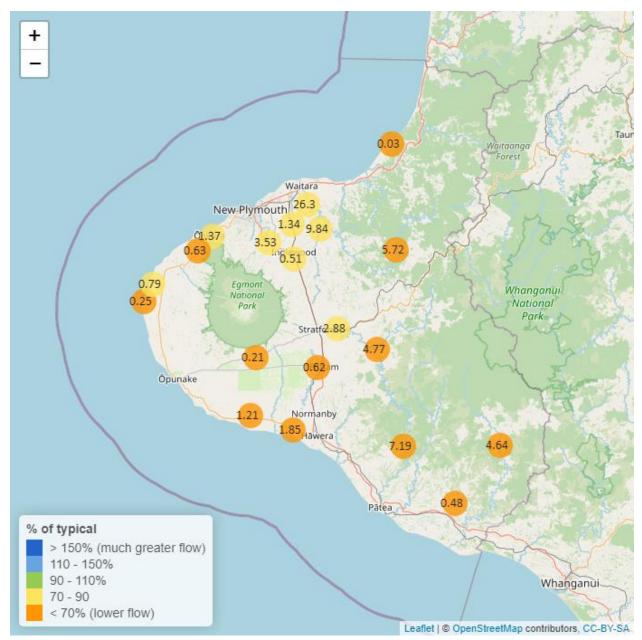


Figure 1.2: Monthly rainfall totals for this month and the mean of all previously recorded months.

2. River Flow





| | | May 2 | 024 - Recordeo | d flows (m3 | /sec) | | | |
|-----------------------------------|------------------|----------|------------------|-------------|------------------|----------|----------------|---------------|
| | High | s | Low | 5 | Mean | | | |
| River and Site | current month | historic | current month | historic | current month | historic | May maximum | Data years |
| Kapoaiaia at Lighthouse | 1.66 | 3.95 | 0.19 | 0.32 | 0.25 | 0.76 | 9.80 | 37 |
| Kaupokonui at Glenn Rd | 1.33 | 8.72 | 1.10 | 0.88 | 1.21 | 2.02 | 1.34 | 46 |
| Mangaehu at Bridge | 15.19 | 46.66 | 3.15 | 2.85 | 4.77 | 7.51 | 25.15 | 46 |
| Manganui at Everett Park | 22.74 | 73.36 | 6.99 | 4.14 | 9.84 | 11.32 | 164.60 | 31 |
| Mangawheroiti Above Intake W.W | 0.75 | 1.31 | 0.19 | 0.14 | 0.21 | 0.34 | 2.25 | 11 |
| Moumahaki at Johnston Rd | 3.01 | 9.02 | 0.33 | 0.48 | 0.48 | 1.16 | 5.33 | 6 |
| Ngatoro at SH3 | 1.13 | 4.23 | 0.41 | 0.32 | 0.51 | 0.67 | 5.40 | 34 |
| Oakura at Victoria Rd | 3.36 | 16.98 | 0.88 | 0.54 | 1.37 | 1.85 | 9.44 | 5 |
| Patea at McColls Bridge | 41.66 | 73.97 | 3.39 | 2.61 | 7.19 | 24.15 | 60.82 | 33 |
| Patea at Skinner Rd | 6.01 | 17.18 | 1.90 | 1.23 | 2.88 | 3.82 | 9.30 | 46 |
| Timaru at Tataraimaka | 1.36 | 8.78 | 0.44 | 0.40 | 0.63 | 1.33 | 4.89 | 11 |
| Waikaramarama at Bridge | 0.14 | 0.78 | 0.02 | 0.01 | 0.03 | 0.06 | 0.62 | 6 |
| Waingongoro at Eltham Rd | 2.92 | 9.00 | 0.43 | 0.54 | 0.62 | 1.95 | 8.61 | 49 |
| Waingongoro at SH45 | 5.64 | 20.12 | 1.54 | 1.70 | 1.85 | 4.90 | 10.92 | 43 |
| Waiongana at SH3a | 2.82 | 8.82 | 0.92 | 0.56 | 1.34 | 1.80 | 17.78 | 44 |
| Waitara at Bertrand Rd | 52.33 | 213.48 | 15.64 | 9.61 | 26.30 | 35.09 | 209.18 | 44 |
| Waitara at Purangi Bridge | 19.13 | 107.13 | 2.52 | 1.20 | 5.72 | 9.25 | 26.95 | 25 |
| Waitotara at Rimunui Station | 15.99 | 57.48 | 2.96 | 3.49 | 4.64 | 9.18 | 36.23 | 19 |
| Waiwhakaiho at Egmont Village | 7.76 | 25.45 | 2.69 | 2.21 | 3.53 | 4.27 | 21.80 | 44 |
| Warea at Coast | 2.59 | 4.96 | 0.51 | 0.38 | 0.79 | 0.92 | 6.78 | 7 |

Table 2: Summary of high, low and mean flow for May and for May in all preceding years of record.

2.2 Long-term data patterns

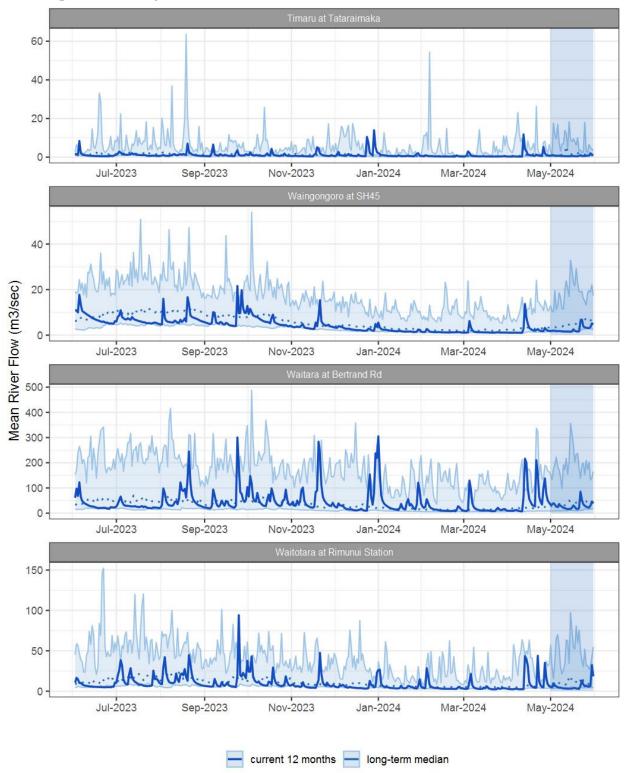


Figure 2.1: Running average river flows for selected sites, set in context of the historic record.

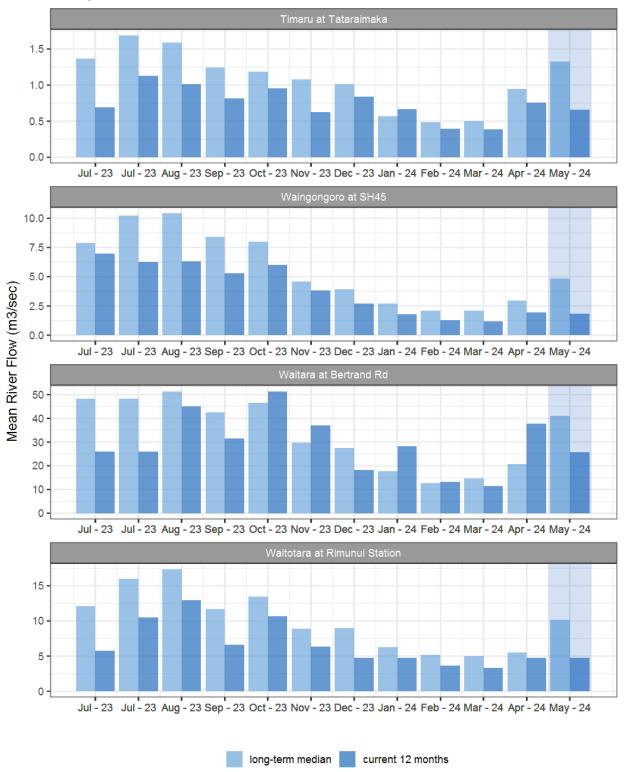
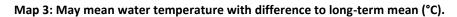
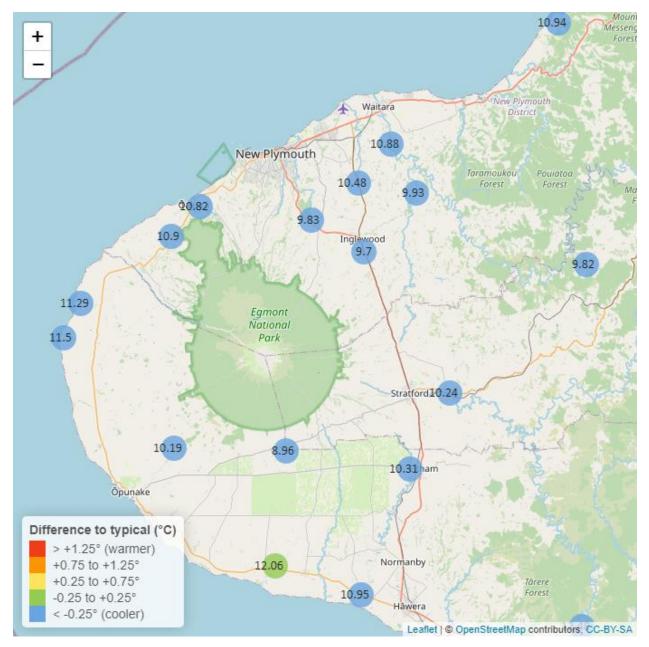


Figure 2.2: Monthly mean river flow for this month and the mean of all previously recorded months.

3. River Temperature





| | | May | 2024 - River Te | mperature | (°C) | | | |
|-----------------------------------|------------------|----------|------------------|-----------|------------------|----------|----------------|---------------|
| | High | s | Low | S | Mea | n | | |
| River and Site | current month | historic | current month | historic | current month | historic | May maximum | Data years |
| Kapoaiaia at Lighthouse | 13.39 | 15.76 | 8.93 | 9.23 | 11.50 | 12.77 | 14.21 | 24 |
| Kaupokonui at Glenn Rd | 14.19 | 14.96 | 10.83 | 8.74 | 12.06 | 11.87 | 14.25 | 32 |
| Manganui at Everett Park | 11.41 | 14.68 | 7.87 | 9.00 | 9.93 | 11.87 | 12.07 | 14 |
| Mangawheroiti Above Intake W.W | 10.05 | 12.26 | 6.96 | 7.48 | 8.96 | 9.89 | 10.52 | 11 |
| Matau at Woolshed | 11.36 | 14.07 | 7.44 | 8.28 | 9.82 | 11.50 | 11.78 | 6 |
| Ngatoro at SH3 | 11.24 | 13.68 | 7.70 | 7.90 | 9.70 | 10.81 | 12.12 | 22 |
| Oakura at Victoria Rd | 12.29 | 14.80 | 8.56 | 9.67 | 10.82 | 12.36 | 13.03 | 5 |
| Patea at McColls Bridge | 14.55 | 16.48 | 11.76 | 12.37 | 12.48 | 14.25 | 15.07 | 8 |
| Patea at Skinner Rd | 11.57 | 14.02 | 8.08 | 8.71 | 10.24 | 11.59 | 12.32 | 20 |
| Timaru at Tataraimaka | 12.41 | 14.70 | 8.42 | 9.39 | 10.90 | 12.36 | 12.94 | 10 |
| Waiaua 2 at Barraclough Opua | 12.50 | 14.47 | 7.75 | 8.01 | 10.19 | 11.24 | 14.08 | 5 |
| Waikaramarama at Bridge | 12.24 | 15.39 | 8.17 | 9.72 | 10.94 | 12.75 | 12.61 | 6 |
| Waingongoro at Eltham Rd | 11.67 | 13.70 | 8.08 | 8.48 | 10.31 | 11.35 | 12.29 | 19 |
| Waingongoro at SH45 | 12.47 | 14.99 | 8.65 | 9.01 | 10.95 | 12.11 | 13.03 | 19 |
| Waiongana at SH3a | 12.09 | 15.08 | 8.48 | 9.35 | 10.48 | 12.46 | 12.82 | 13 |
| Waitara at Bertrand Rd | 12.14 | 14.73 | 9.20 | 9.60 | 10.88 | 12.13 | 12.48 | 37 |
| Waiwhakaiho at Egmont Village | 11.28 | 13.57 | 7.76 | 8.08 | 9.83 | 10.90 | 12.02 | 32 |
| Warea at Coast | 13.32 | 16.20 | 8.52 | 10.30 | 11.29 | 13.23 | 14.55 | 4 |

Table 3: Summary of high, low and mean river temperature for May and for May in all preceding years of record.



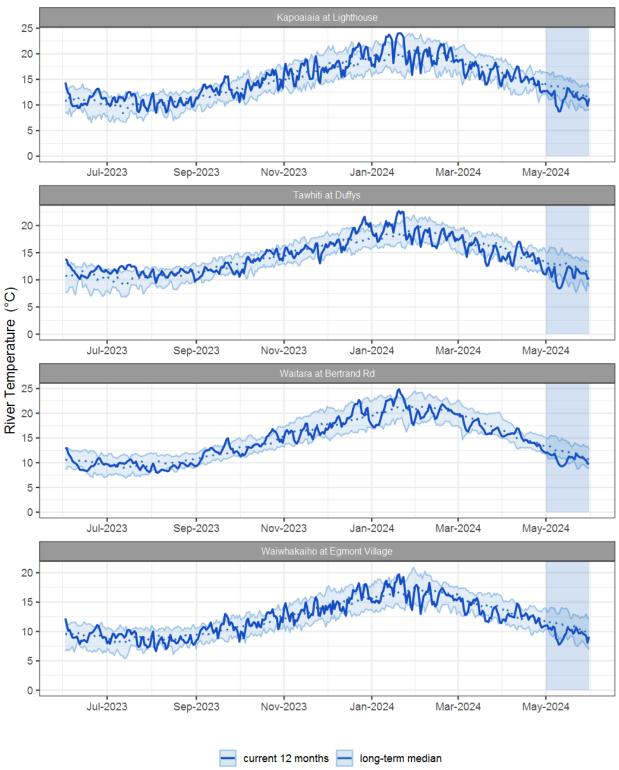


Figure 3.1: Running average river temperature for selected sites, set in context of the historic record.

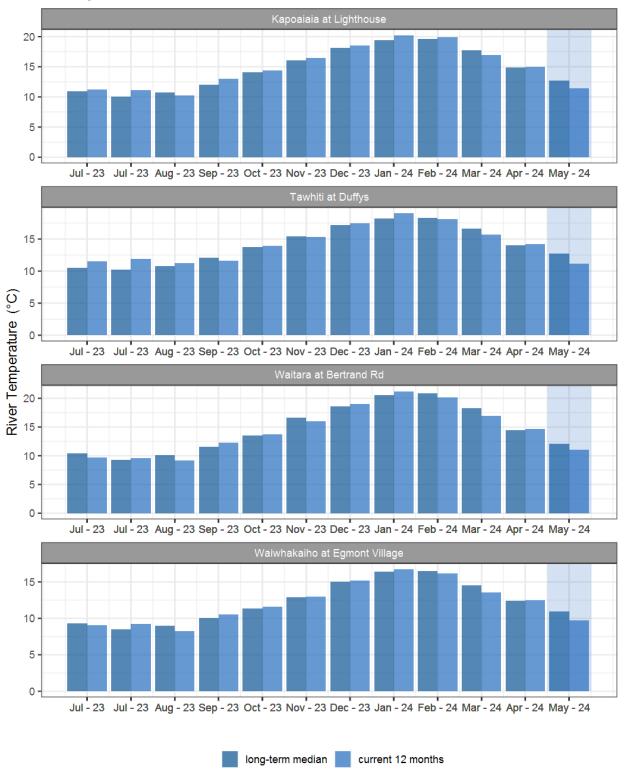
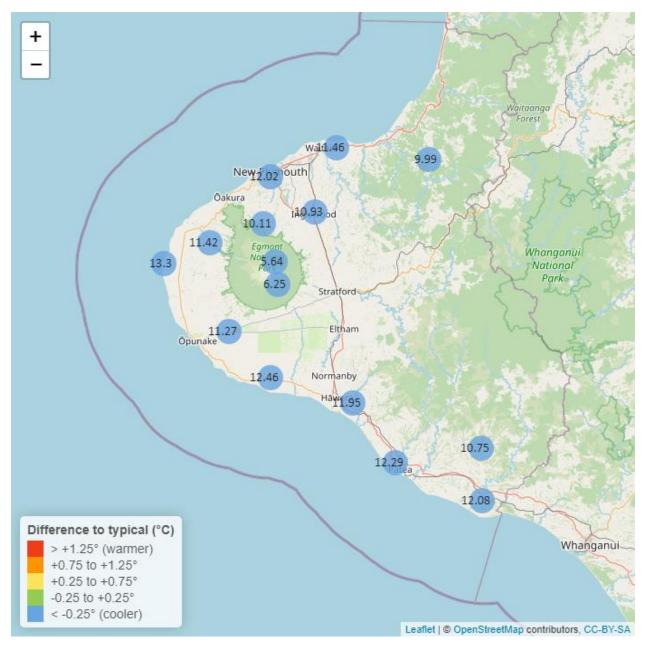


Figure 3.2: Monthly mean river temperature for this month and the mean of all previously recorded months.

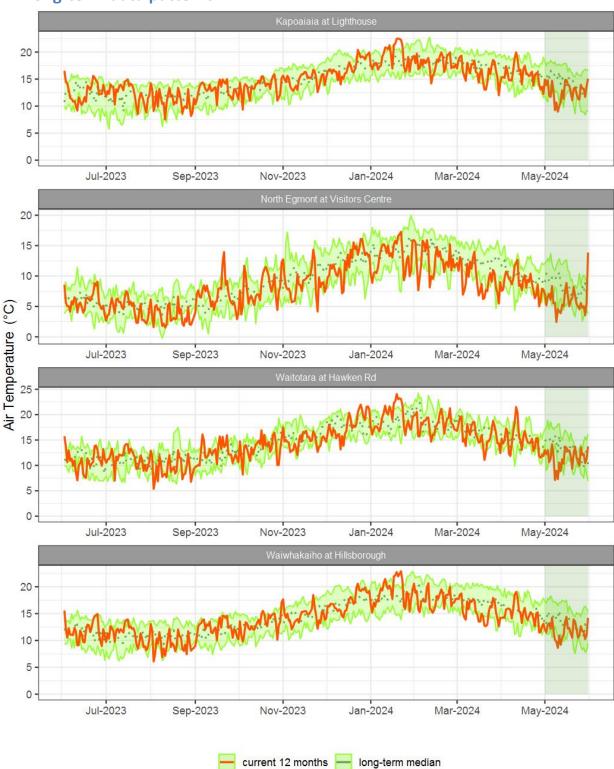
4. Air Temperature



Map 4: May mean air temperature with difference to long-term mean (°C).

| | | Мау | 2024 - Air Tem | perature (° | 'C) | | | |
|-------------------------------------|------------------|----------|------------------|-------------|------------------|----------|----------------|---------------|
| | High | s | Low | S | Mea | n | | |
| Site | current month | historic | current month | historic | current month | historic | May maximum | Data years |
| Brooklands Zoo at New Plymouth | 17.27 | 18.75 | 7.45 | 7.09 | 12.02 | 13.69 | 19.89 | 12 |
| Dawson Falls | 10.55 | 13.42 | 2.66 | 2.96 | 6.25 | 8.18 | 14.03 | 8 |
| Inglewood at Oxidation Ponds | 15.86 | 17.35 | 5.16 | 4.60 | 10.93 | 11.93 | 19.54 | 12 |
| Kapoaiaia at Lighthouse | 16.10 | 18.22 | 7.51 | 8.12 | 13.30 | 14.78 | 17.76 | 12 |
| Kaupokonui at Glenn Rd | 16.27 | 18.61 | 5.65 | 6.26 | 12.46 | 13.68 | 18.22 | 9 |
| Mangorei Upper at Forest Hill | 13.65 | 15.69 | 6.36 | 6.00 | 10.11 | 11.48 | 15.54 | 7 |
| Motunui M39 at Weston W3 | 15.99 | 17.90 | 6.37 | 6.66 | 11.46 | 13.40 | 17.46 | 7 |
| North Egmont at Visitors Centre | 10.97 | 12.99 | 2.34 | 2.56 | 5.64 | 8.05 | 17.72 | 9 |
| Patea at Bore 3 | 15.57 | 18.48 | 6.33 | 6.86 | 12.29 | 13.60 | 18.22 | 11 |
| Stony at Mangatete Bridge | 15.39 | 17.82 | 7.74 | 7.66 | 11.42 | 13.50 | 17.84 | 8 |
| Taungatara at Eltham Rd | 15.09 | 17.76 | 5.72 | 6.60 | 11.27 | 13.02 | 18.47 | 9 |
| Tawhiti at Duffys | 16.00 | 18.25 | 1.04 | 3.04 | 11.95 | 13.08 | 18.12 | 11 |
| Uruti at Kaka Rd | 14.42 | 16.43 | 5.89 | 6.00 | 9.99 | 11.97 | 16.60 | 6 |
| Waitotara at Hawken Rd | 16.48 | 18.80 | 5.74 | 6.52 | 12.08 | 13.57 | 18.87 | 8 |
| Weraweraonga at 749 Mangawhio Rd | 16.20 | 18.57 | 3.29 | 4.00 | 10.75 | 12.17 | 19.43 | 7 |

| Table 4: Summary of high, low and mean air temperature for May and for May in all precedir | ling years of record. |
|--|-----------------------|
|--|-----------------------|



4.2 Long-term data patterns

Figure 4.1: Running average air temperature for selected sites, set in context of the historic record.

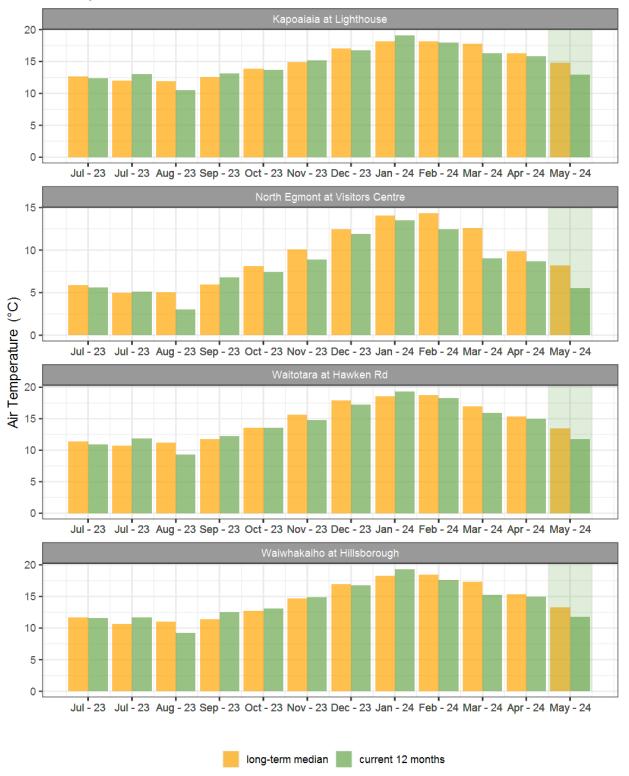
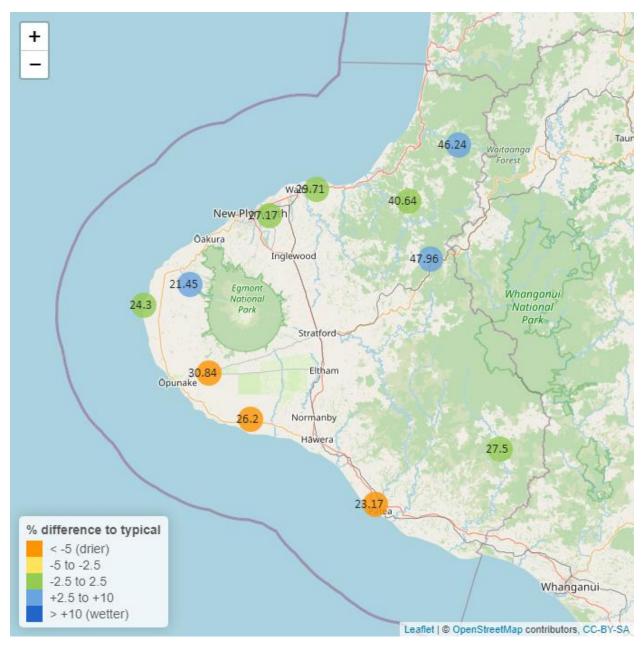


Figure 4.2: Monthly mean air temperature for May and the mean of all previously recorded months.

5. Soil Moisture

Map 5: May mean soil moisture content (%).



| | | | May 2024 - Soi | Moisture (| (%) | | | |
|---------------------------------|------------------|----------|------------------|------------|------------------|----------|----------------|---------------|
| | High | 5 | Lows | 6 | Mear | Mean | | |
| Site | current month | historic | current month | historic | current month | historic | May maximum | Data years |
| Kapoaiaia at Lighthouse | 25.03 | 31.72 | 23.45 | 19.55 | 24.30 | 26.02 | 25.18 | 12 |
| Kaupokonui at Glenn Rd | 31.60 | 41.75 | 23.43 | 19.10 | 26.20 | 33.00 | 32.06 | 13 |
| Kotare at OSullivans | 48.78 | 49.29 | 44.01 | 32.09 | 46.24 | 39.80 | 50.28 | 12 |
| Motunui M39 at Weston W3 | 30.67 | 31.66 | 28.95 | 17.33 | 29.71 | 29.03 | 31.08 | 11 |
| Patea at Bore 3 | 25.64 | 33.15 | 22.31 | 24.21 | 23.17 | 28.54 | 25.88 | 7 |
| Pohokura Saddle | 51.56 | 52.02 | 45.60 | 31.21 | 47.96 | 42.92 | 53.01 | 10 |
| Stony at Mangatete Bridge | 25.16 | 24.31 | 18.53 | 9.40 | 21.45 | 17.98 | 31.91 | 8 |
| Taungatara at Eltham Rd | 34.41 | 43.39 | 29.10 | 25.95 | 30.84 | 37.74 | 38.85 | 10 |
| Uruti at Kaka Rd | 41.64 | 44.60 | 39.35 | 35.19 | 40.64 | 40.52 | 41.97 | 13 |
| Waitotara at Rimunui Station | 30.48 | 31.45 | 26.59 | 24.31 | 27.50 | 27.82 | 33.34 | 7 |
| Waiwhakaiho at Hillsborough | 28.71 | 31.54 | 26.64 | 22.61 | 27.17 | 26.90 | 29.25 | 12 |

Table 5: Summary of high, low and mean soil moisture for May and for May in all preceding years of record.

5.2 Long-term data patterns

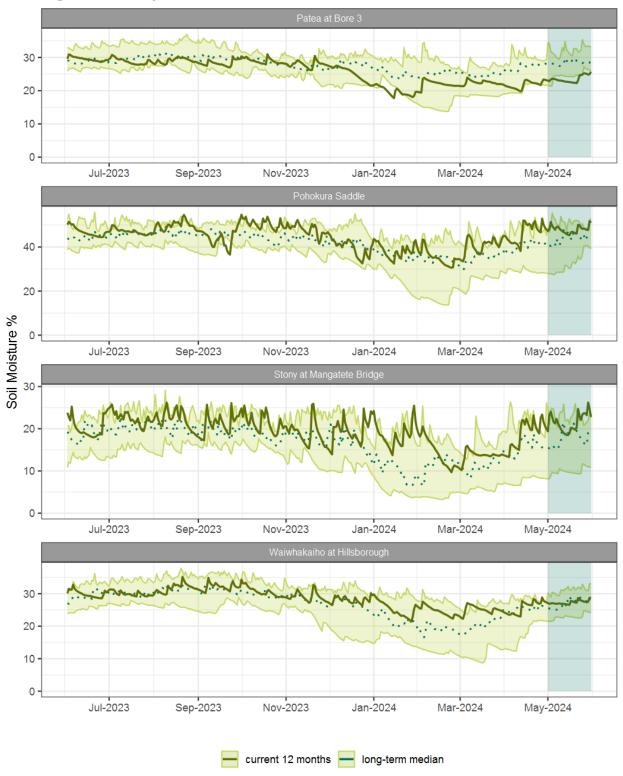


Figure 5.1: Running average soil moisture for selected sites, set in context of the historic record.

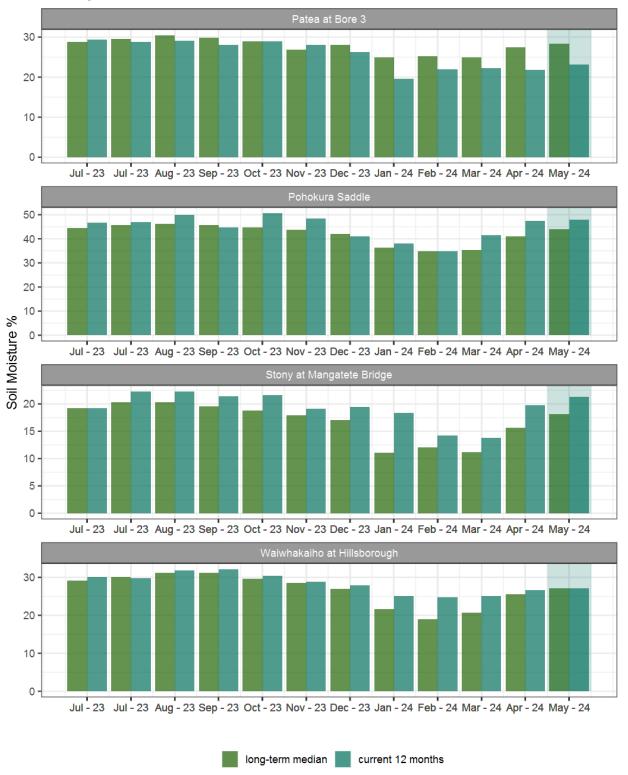
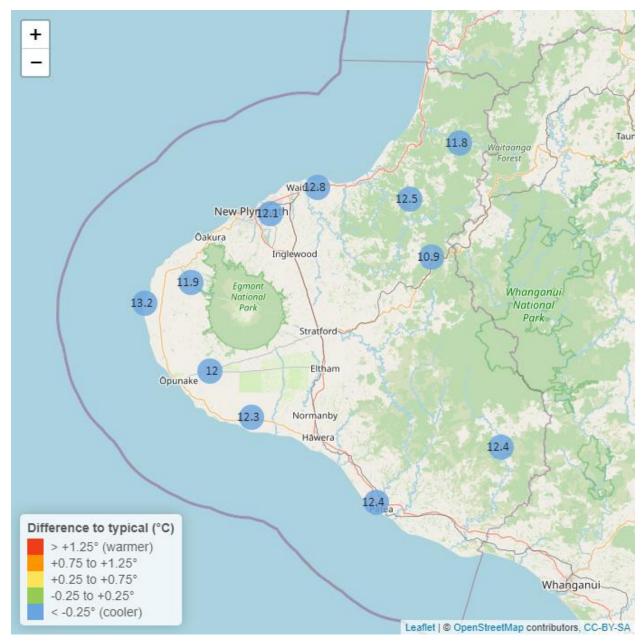


Figure 5.2: Monthly mean soil moisture for this month and the mean of all previously recorded months.

6. Soil Temperature





| | | Ма | y 2024 - Soil Te | emperature | s (°C) | | | |
|---------------------------------|------------------|----------|------------------|------------|------------------|----------|----------------|---------------|
| | High | 5 | Lows | 6 | Mear | ı | | |
| River and Site | current month | historic | current month | historic | current month | historic | May maximum | Data years |
| Kapoaiaia at Lighthouse | 15.13 | 17.43 | 11.06 | 11.62 | 13.2 | 14.53 | 15.62 | 12 |
| Kaupokonui at Glenn Rd | 13.50 | 16.30 | 10.94 | 11.29 | 12.3 | 13.70 | 15.98 | 13 |
| Kotare at OSullivans | 12.49 | 15.87 | 10.11 | 9.37 | 11.8 | 12.80 | 12.56 | 12 |
| Motunui M39 at Weston W3 | 14.17 | 16.23 | 11.42 | 10.72 | 12.8 | 13.62 | 14.47 | 11 |
| Patea at Bore 3 | 13.86 | 16.31 | 11.33 | 10.76 | 12.4 | 13.56 | 14.13 | 7 |
| Pohokura Saddle | 12.23 | 15.51 | 9.10 | 10.37 | 10.9 | 13.01 | 12.56 | 10 |
| Stony at Mangatete Bridge | 13.41 | 16.60 | 10.44 | 9.86 | 11.9 | 13.30 | 15.04 | 7 |
| Taungatara at Eltham Rd | 13.70 | 15.99 | 10.37 | 10.64 | 12.0 | 13.30 | 14.40 | 10 |
| Uruti at Kaka Rd | 13.93 | 15.95 | 10.94 | 10.31 | 12.5 | 13.53 | 14.19 | 13 |
| Waitotara at Rimunui Station | 13.70 | 16.42 | 9.25 | 10.49 | 12.4 | 13.77 | 14.45 | 7 |
| Waiwhakaiho at Hillsborough | 13.86 | 16.47 | 10.94 | 11.23 | 12.1 | 13.81 | 14.40 | 12 |

Table 6: Summary of high, low and mean soil temperature for May and for May in all preceding years of record.

6.2 Long-term data patterns

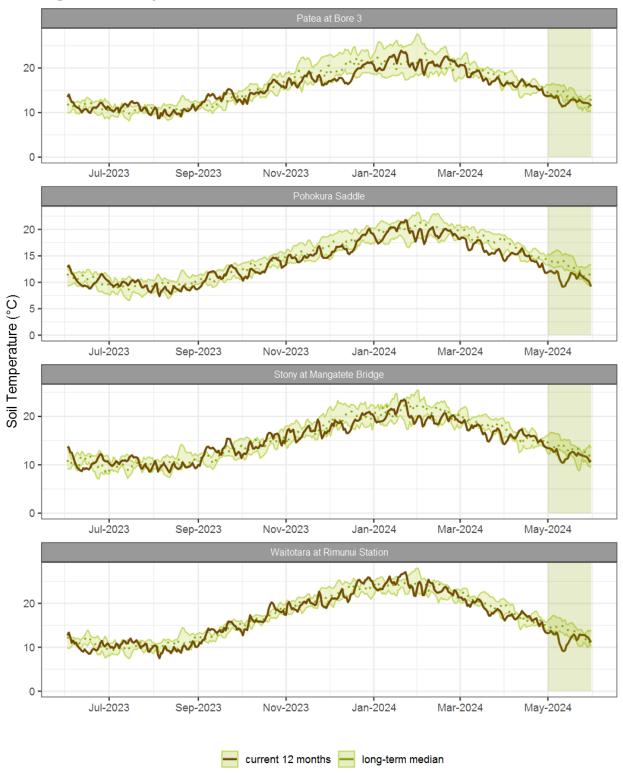


Figure 6.1: Running average soil temperature for selected sites, set in context of the historic record.

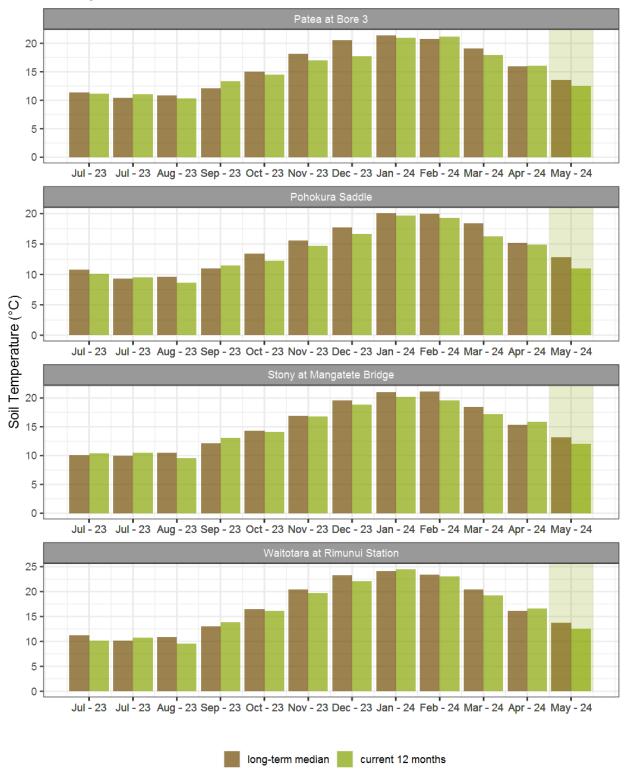
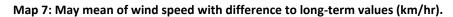
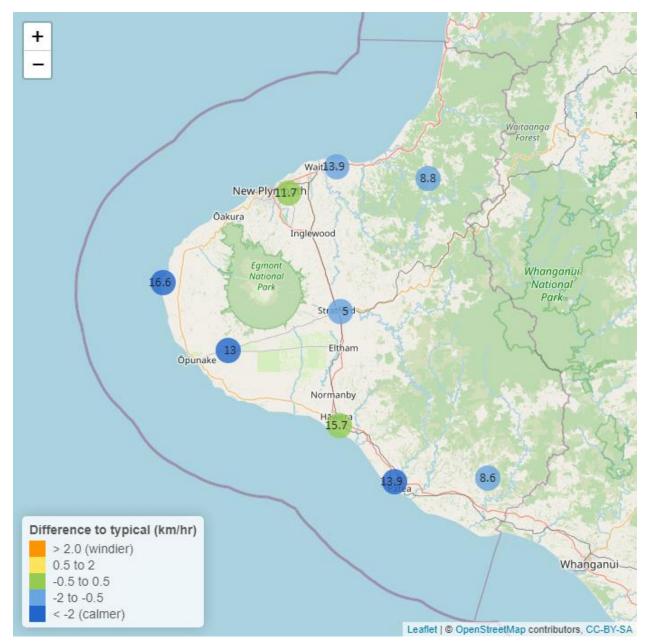


Figure 6.2: Monthly mean soil temperature for this month and the mean of all previously recorded months.

7. Wind Speed and Maximum Gusts





| | May 2024 - Wind Speed (average) - (km/hr) | | | | | | | | | | |
|--------------------------------|---|----------|------------------|----------|------------------|----------|----------------|---------------|--|--|--|
| | High | 5 | Lows | 5 | Mear | ı | | | | | |
| Site | current month | historic | current month | historic | current month | historic | May maximum | Data years | | | |
| Hawera AWS | 43.52 | 36.11 | 5.56 | 5.56 | 15.7 | 15.74 | 55.56 | 19 | | | |
| Kapoaiaia at Lighthouse | 39.03 | 41.51 | 6.24 | 6.17 | 16.6 | 19.52 | 62.94 | 23 | | | |
| New Plymouth AWS | 39.82 | 39.82 | 6.48 | 5.56 | 13.9 | 15.74 | 52.78 | 16 | | | |
| Patea at Bore 3 | 44.69 | 40.82 | 6.05 | 6.49 | 13.9 | 15.96 | 52.82 | 8 | | | |
| Patea at Stratford | 15.46 | 17.84 | 2.39 | 2.29 | 5.0 | 6.28 | 25.89 | 18 | | | |
| Taungatara at Eltham Rd | 34.53 | 32.38 | 5.70 | 6.61 | 13.0 | 15.13 | 49.70 | 8 | | | |
| Uruti at Kaka Rd | 18.93 | 23.14 | 3.08 | 3.26 | 8.8 | 9.60 | 35.79 | 25 | | | |
| Waitotara at Ngutuwera | 23.09 | 21.89 | 3.09 | 1.97 | 8.6 | 9.12 | 31.13 | 26 | | | |
| Waiwhakaiho at Hillsborough | 37.02 | 28.59 | 3.90 | 3.89 | 11.7 | 11.75 | 48.32 | 7 | | | |

Table 7: Summary of high, low and mean wind speed for May and for May in all preceding years of record.

Table 8: Summary of high, low and maximum wind gusts for May and for May in all preceding years of record.

| | May 2024 - Wind Gusts (Maximum) - (km/hr) | | | | | | | | | | |
|--------------------------------|---|----------|------------------|----------|------------------|----------|----------------|---------------|--|--|--|
| | High | 5 | Lows | 6 | Mea | ı | | | | | |
| Site | current month | historic | current month | historic | current month | historic | May maximum | Data years | | | |
| Hawera AWS | 79.64 | 74.08 | 20.37 | 18.52 | 40.7 | 42.60 | 87.04 | 19 | | | |
| Kapoaiaia at Lighthouse | 68.40 | 81.50 | 17.50 | 20.40 | 38.2 | 48.20 | 101.20 | 23 | | | |
| New Plymouth AWS | 81.49 | 83.34 | 22.22 | 20.37 | 42.6 | 44.45 | 85.19 | 16 | | | |
| Patea at Bore 3 | 74.80 | 80.60 | 18.30 | 19.20 | 44.9 | 44.40 | 77.40 | 8 | | | |
| Patea at Stratford | 50.40 | 63.72 | 15.12 | 15.80 | 27.4 | 33.10 | 78.48 | 18 | | | |
| Taungatara at Eltham Rd | 76.00 | 80.20 | 22.00 | 20.40 | 39.7 | 47.10 | 79.90 | 8 | | | |
| Uruti at Kaka Rd | 55.80 | 73.50 | 18.36 | 17.90 | 32.4 | 36.00 | 92.88 | 24 | | | |
| Waitotara at Ngutuwera | 76.32 | 69.48 | 17.64 | 16.56 | 37.4 | 36.72 | 84.96 | 25 | | | |
| Waiwhakaiho at Hillsborough | 81.90 | 69.90 | 17.30 | 18.40 | 40.0 | 40.05 | 85.90 | 6 | | | |



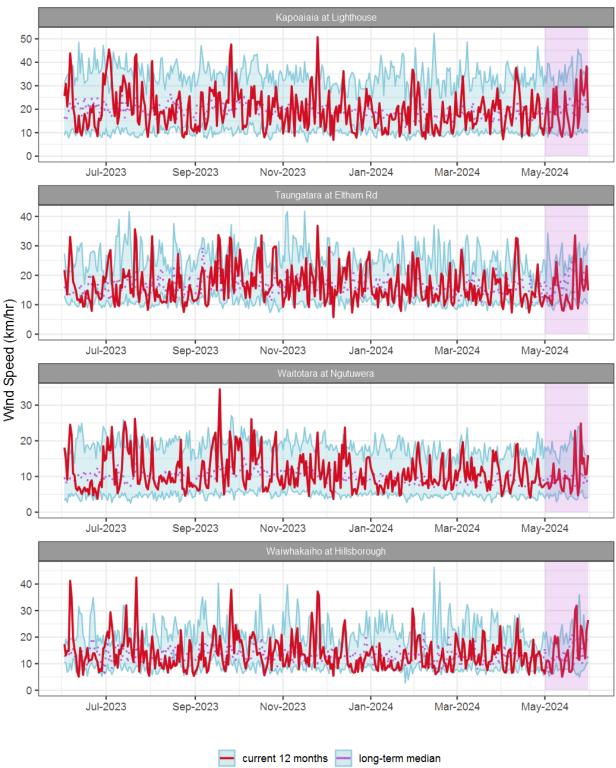


Figure 7.1: Running average wind speed (km/hr) for selected sites, set in context of the historic record.

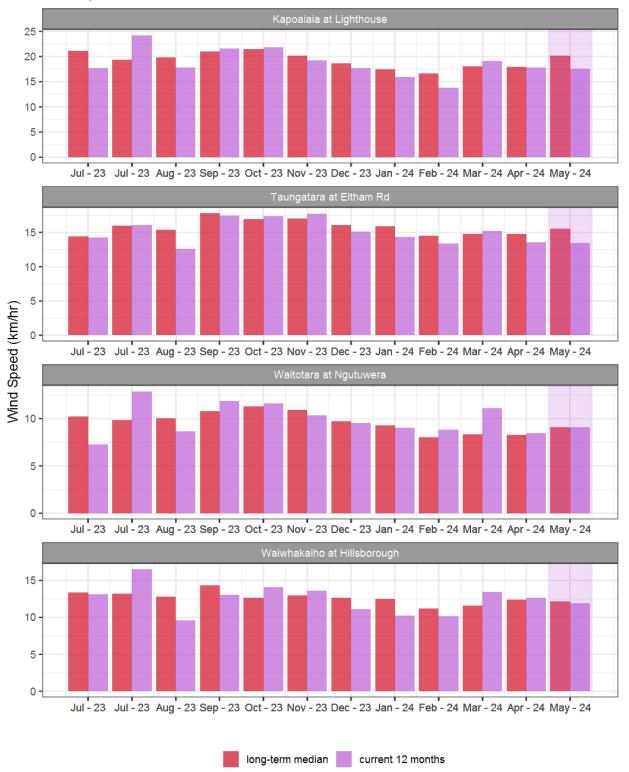


Figure 7.2: Monthly mean wind speed (km/hr) for selected sites, relative to the mean of all previously recorded months.

7.4 Wind roses for May 2024

Average windspeed

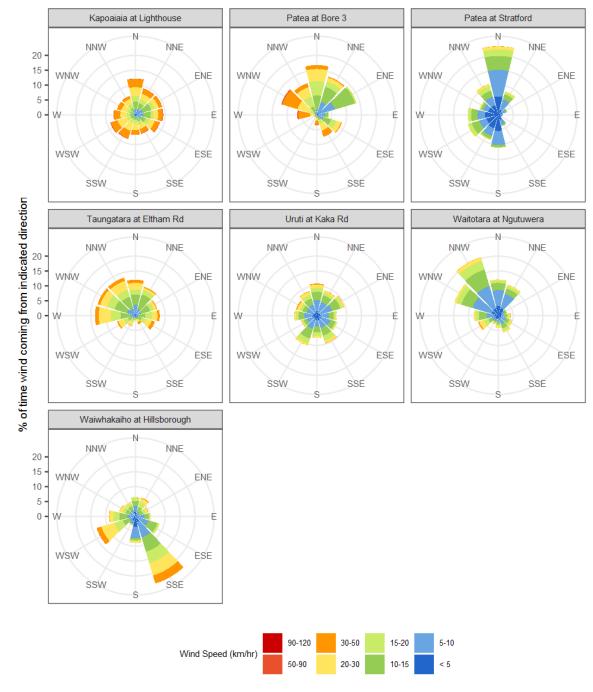
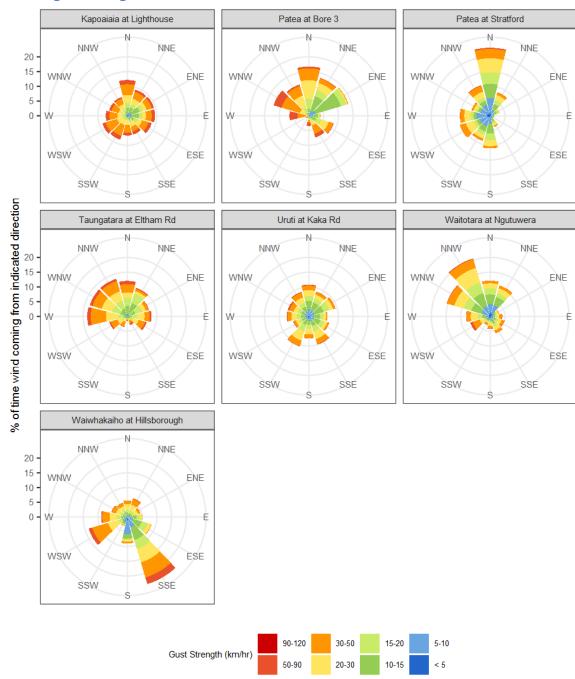


Figure 7.3: Wind roses for May for average wind speed (km/hr).



Maximum gust strength

Figure 7.4: Wind roses for May for maximum wind gust (km/hr).

8. Summary of month's conditions

Rainfall

On average May rainfall was 104.5mm, 41% less than usual, ranging from 62% less rain at Kotare at OSullivans, and 12% less at Kaupokonui at Glenn Rd.

Year-to-date rainfall is lowest at Waitotara at Hawken Rd with 43% less rainfall than usual, Manganui at Everett Park has had the highest year to date rainfall with 100% of normal rainfall, on average there has been 19% less than normal across all rain gauges.

Compared to typical full year totals, on average sites have only received 30% of a typical year's rainfall, with the highest value at Manganui at Everett Park, 36% of normal, whereas Waitotara at Hawken Rd sits at 23% of the typical year's total.

River Flow

Mean river flows for May were 40.8% lower than typical values, low flows were 28.4% greater, and high flows 68.6% lower than typical values. The maximum river flow recorded in May was 209.2m³/sec at Waitara at Bertrand Rd, at 8pm on 21 May 2024.

River Water Temperature

Mean river (non-mountain) water temperatures were 10.7°C, an average of 1.4°C cooler than long-term May values. Nighttime-low water temperatures were on average 0.6°C cooler than historic lows, and day-time high temperatures were on average 2.5°C cooler than historic highs. The maximum river water temperature recorded in May was 15.07°C at Pātea at McColls Bridge, at 9:30pm on 1 May.

Air Temperature

The average air temperature for the region (excluding Te Maunga sites) was 10.9°C, which is 1.6°C cooler than long-term May averages. Low air temperatures for May were on average 0.4°C cooler than the May average for previous years. Day-time high temperatures were on average 2.2°C cooler than historic highs. The maximum air temperature recorded in May was 19.89°C at Brooklands Zoo at New Plymouth, at 4:10pm on 3 May.

Soil Moisture

The average soil moisture for May across sites in Taranaki region was 31.4%. Soil moistures were on average 0.5% drier than typical May values. On average, low soil moistures were 6.1% wetter than previous lows, and the highs were on average 3.7% drier than previous values for May.

Soil Temperature

May soil temperatures were generally 1.3°C cooler than long-term averages. Average nighttime low soil temperatures were 0.1°C cooler than recorded lows, and upper day-time soil temperatures were on average 2.6°C cooler than long-term May highs. The maximum soil temperature recorded in May was 15.62°C at Kapoaiaia at Lighthouse, on 1 May

Wind Speed (average and 10 minute gust)

May average wind speeds were 12.8km/hr, with average gust strength of 39.5km/hr, these were 1.3km/hr lighter, and 2.9km/hr weaker than the long-term average. Average calm weather wind speeds were 0.1km/hr stronger than recorded lows, and windy conditions were on average 2km/hr stronger than long-term May highs. The maximum wind gust recorded in May was 101.2km/hr at Kapoaiaia at Lighthouse, on at 3:50pm on 29 May.

Notes: Low and high values refer to the upper and lower 5th percentiles of the historic record for each site (wind, river flow and soil moisture are upper and lower 1st percentiles). These percentile values give a better indication of the general upper and lower range of the historic data against which to compare the current month. For example, minimum air temperature, because it is the lowest recorded value, accentuates the difference of the current month's colder conditions relative to the historical data. The start year (records began) for each site and variable in the respective tables shows the length of data used to compute historic highs, lows, and "typical values". Sites with a longer data record will generally provide a more reliable comparison to values in the current year.

Report date: 5 June 2024.