## Taranaki Regional Council Monthly Rainfall and Environmental Data Report for April 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 1: April total rainfall (mm) and percentage of long-term mean (colour key).


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


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

|  | April |  |  | 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 | 18 | 519.0 | 102.1 | 1359.0 | 79.3 | 19.6 | 1991 |
| Dawson Falls | 17 | 512.0 | 106.4 | 1213.0 | 79.9 | 20.4 | 1933 |
| Kapoaiaia at Kahui Hut | 20 | 485.0 | 120.6 | 1178.0 | 91.8 | 22.4 | 2006 |
| Mangorei Upper at Forest Hill | 15 | 346.5 | 144.3 | 854.0 | 93.3 | 22.8 | 2018 |
| Waiwhakaiho at Hillsborough | 13 | 223.5 | 136.3 | 456.5 | 89.6 | 24.9 | 2013 |
| Brooklands Zoo at New Plymouth | 14 | 172.0 | 120.6 | 345.2 | 76.1 | 21.3 | 2012 |
| Motunui M39 at Weston W3 | 13 | 206.2 | 157.5 | 452.0 | 107.8 | 28.7 | 1999 |
| Waiwhakaiho at Egmont Village | 14 | 266.5 | 143.1 | 625.5 | 97.4 | 25.8 | 1991 |
| Manganui at Everett Park | 10 | 286.0 | 173.8 | 608.0 | 109.7 | 29.3 | 1987 |
| Inglewood at Oxidation Ponds | 11 | 250.0 | 145.3 | 603.5 | 101.4 | 25.6 | 2000 |
| Stony at Mangatete Bridge | 14 | 158.5 | 96.7 | 442.5 | 81.9 | 22.1 | 2004 |
| Kapoaiaia at Lighthouse | 14 | 114.8 | 96.9 | 317.0 | 79.8 | 22.8 | 1930 |
| Taungatara at Eltham Rd | 12 | 80.5 | 62.6 | 306.0 | 75.9 | 19.4 | 2005 |
| Kaupokonui at Glenn Rd | 10 | 40.5 | 40.5 | 226.0 | 73.0 | 19.3 | 1998 |
| Patea at Stratford | 12 | 181.5 | 122.9 | 389.5 | 76.3 | 19.6 | 1999 |
| Mangaehu at Bridge | 13 | 166.5 | 133.4 | 391.5 | 92.3 | 24.6 | 1999 |
| Kotare at OSullivans | 15 | 190.5 | 129.2 | 618.5 | 116.4 | 28.7 | 1998 |
| Uruti at Kaka Rd | 15 | 245.5 | 142.6 | 664.5 | 114.0 | 29.8 | 1991 |
| Pohokura Saddle | 17 | 235.5 | 153.5 | 579.5 | 113.6 | 29.1 | 1991 |
| Omaru at Charlies | 15 | 182.0 | 126.1 | 501.0 | 107.4 | 27.4 | 2006 |
| Omahine at Moana Trig | 15 | 114.0 | 82.0 | 365.0 | 81.1 | 21.6 | 2007 |


|  | April |  |  |  | Year to Date |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Rain gauge | \# days <br> with rain | Total <br> rain <br> (mm) | \% of <br> typical <br> month | Total to <br> date (mm) | \% of typical <br> year to date | \% of typical <br> full year | Records <br> Began |
| Waitotara at Rimunui <br> Station | 10 | 104.5 | 95.2 | 321.5 | 90.9 | 23.3 | 1994 |
| Waitotara at <br> Ngutuwera | 8 | 72.5 | 73.2 | 228.5 | 66.2 | 17.7 | 1999 |
| Tawhiti at Duffys | 12 | 68.0 | 68.3 | 225.0 | 74.2 | 20.3 | 1994 |
| Patea at Bore 3 | 12 | 64.8 | 59.8 | 248.2 | 76.8 | 21.0 | 2006 |
| Waitotara at Hawken <br> Rd | 8 | 50.6 | 53.1 | 211.6 | 59.4 | 17.8 | 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.

### 1.3 Monthly Bar Charts



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

## 2. River Flow

Map 2: April mean river flows ( $\mathrm{m} 3 / \mathrm{sec}$ ), with difference as percentage of long-term mean.


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

| April 2024 - Recorded flows (m3/sec) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Highs |  | Lows |  | Mean |  |  |  |
| River and Site | current month | historic | current month | historic | current month | historic | April maximum | Data years |
| Kapoaiaia at Lighthouse | 4.64 | 2.47 | 0.15 | 0.26 | 0.25 | 0.50 | 19.64 | 38 |
| Kaupokonui at Glenn Rd | 6.57 | 6.14 | 0.65 | 0.68 | 1.20 | 1.41 | 34.39 | 45 |
| Mangaehu at Bridge | 58.25 | 36.07 | 1.93 | 2.08 | 5.89 | 4.89 | 139.41 | 46 |
| Manganui at Everett Park | 84.66 | 50.49 | 4.36 | 3.57 | 12.80 | 7.22 | 243.76 | 31 |
| Mangawheroiti Above Intake W.W | 0.99 | 0.94 | 0.14 | 0.12 | 0.22 | 0.24 | 6.16 | 11 |
| Moumahaki at Johnston Rd | 2.46 | 4.72 | 0.32 | 0.49 | 0.49 | 0.78 | 4.81 | 5 |
| Ngatoro at SH3 | 5.02 | 3.58 | 0.31 | 0.27 | 0.57 | 0.50 | 22.32 | 34 |
| Oakura at Victoria Rd | 13.43 | 6.95 | 0.58 | 0.51 | 1.59 | 1.25 | 43.59 | 5 |
| Patea at McColls Bridge | 66.10 | 64.17 | 3.34 | 2.24 | 16.30 | 10.89 | 67.31 | 34 |
| Patea at Skinner Rd | 11.42 | 12.18 | 0.60 | 0.70 | 2.91 | 2.28 | 24.84 | 46 |
| Timaru at Tataraimaka | 4.62 | 6.18 | 0.30 | 0.32 | 0.74 | 0.86 | 37.28 | 11 |
| Waingongoro at Eltham Rd | 4.45 | 5.73 | 0.26 | 0.39 | 0.63 | 1.00 | 23.91 | 49 |
| Waingongoro at SH 45 | 7.21 | 11.93 | 1.04 | 1.22 | 1.91 | 2.92 | 25.11 | 43 |
| Waiongana at SH3a | 9.76 | 6.63 | 0.48 | 0.41 | 1.72 | 1.06 | 62.49 | 43 |
| Waitara at Bertrand Rd | 222.12 | 171.64 | 7.36 | 7.13 | 34.90 | 20.88 | 316.41 | 43 |
| Waitara at Purangi Bridge | 117.41 | 69.78 | 1.39 | 0.70 | 9.55 | 3.63 | 188.83 | 25 |
| Waitotara at Rimunui Station | 51.47 | 36.23 | 2.26 | 2.87 | 4.87 | 5.73 | 97.56 | 18 |
| Waiwhakaiho at Egmont Village | 29.43 | 20.83 | 1.88 | 1.98 | 2.98 | 3.29 | 104.15 | 44 |
| Warea at Coast | 4.59 | 2.30 | 0.40 | 0.34 | 0.80 | 0.57 | 17.05 | 7 |

### 2.2 Long-term data patterns



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

### 2.3 Monthly Bar Charts



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

## 3. River Temperature

Map 3: April mean water temperature with difference to long-term mean $\left({ }^{\circ} \mathrm{C}\right)$.


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

| April 2024 - River Temperature ( ${ }^{\circ} \mathrm{C}$ ) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Highs |  | Lows |  | Mean |  |  |  |
| River and Site | current month | historic | current month | historic | current month | historic | April maximum | Data years |
| Kapoaiaia at Lighthouse | 17.60 | 18.03 | 12.30 | 11.68 | 14.94 | 14.96 | 18.96 | 24 |
| Kaupokonui at Glenn Rd | 18.01 | 17.70 | 11.00 | 11.30 | 14.45 | 14.44 | 19.93 | 31 |
| Manganui at Everett Park | 15.03 | 16.32 | 10.85 | 11.32 | 13.04 | 13.81 | 15.87 | 15 |
| Mangawheroiti Above Intake W.W | 13.19 | 12.92 | 8.95 | 9.02 | 11.01 | 10.97 | 14.27 | 11 |
| Matau at Woolshed | 14.92 | 15.54 | 10.13 | 10.32 | 12.68 | 13.00 | 15.81 | 6 |
| Ngatoro at SH3 | 14.88 | 15.36 | 10.12 | 10.23 | 12.52 | 12.85 | 15.62 | 22 |
| Oakura at Victoria Rd | 15.95 | 16.41 | 11.50 | 11.63 | 13.61 | 13.83 | 17.25 | 5 |
| Patea at McColls Bridge | 18.03 | 19.23 | 14.84 | 14.94 | 16.97 | 16.74 | 18.59 | 8 |
| Patea at Skinner Rd | 15.43 | 15.60 | 10.55 | 10.33 | 13.05 | 13.04 | 16.37 | 20 |
| Timaru at Tataraimaka | 15.78 | 16.20 | 11.36 | 11.31 | 13.45 | 13.75 | 17.02 | 10 |
| Waiaua 2 at Barraclough Opua | 16.22 | 16.20 | 9.83 | 9.83 | 12.89 | 12.79 | 17.86 | 5 |
| Waikaramarama at Bridge | 15.97 | 16.20 | 11.17 | 11.97 | 13.93 | 14.06 | 16.88 | 6 |
| Waingongoro at Eltham Rd | 15.95 | 15.72 | 10.40 | 10.66 | 13.50 | 13.20 | 17.07 | 19 |
| Waingongoro at SH 45 | 17.05 | 17.23 | 11.63 | 11.58 | 14.59 | 14.39 | 17.99 | 20 |
| Waiongana at SH 3 a | 15.44 | 16.29 | 11.45 | 11.26 | 13.33 | 13.82 | 16.22 | 13 |
| Waitara at Bertrand Rd | 16.87 | 17.40 | 12.27 | 12.40 | 14.65 | 14.69 | 17.77 | 35 |
| Waiwhakaiho at Egmont Village | 14.34 | 15.05 | 10.33 | 9.80 | 12.39 | 12.57 | 15.37 | 31 |
| Warea at Coast | 17.53 | 18.20 | 11.99 | 12.15 | 14.60 | 15.02 | 18.97 | 4 |

3.2 Long-term data patterns


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

### 3.3 Monthly Bar Charts



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

## 4. Air Temperature

## Map 4: April mean air temperature with difference to long-term mean $\left({ }^{\circ} \mathrm{C}\right)$.



Table 4: Summary of high, low and mean air temperature for April and for April in all preceding years of record.

| April 2024 - Air Temperature ( ${ }^{\circ} \mathrm{C}$ ) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Highs |  | Lows |  | Mean |  |  |  |
| River and Site | current month | historic | current month | historic | current month | historic | April maximum | Data years |
| Brooklands Zoo at New Plymouth | 20.54 | 21.38 | 9.20 | 9.53 | 14.77 | 15.70 | 22.51 | 12 |


| April 2024 - Air Temperature ( ${ }^{\circ} \mathrm{C}$ ) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Highs |  | Lows |  | Mean |  |  |  |
| River and Site | current month | historic | current month | historic | current month | historic | April maximum | Data years |
| Dawson Falls | 13.81 | 14.58 | 4.72 | 5.19 | 9.79 | 9.87 | 16.84 | 8 |
| Inglewood at Oxidation Ponds | 19.71 | 19.68 | 7.47 | 6.87 | 14.33 | 14.08 | 21.94 | 12 |
| Kapoaiaia at Lighthouse | 19.49 | 19.76 | 10.99 | 10.59 | 16.11 | 16.53 | 21.42 | 12 |
| Kaupokonui at Glenn Rd | 20.11 | 20.04 | 7.72 | 8.17 | 15.25 | 15.27 | 23.84 | 9 |
| Mangorei Upper at Forest Hill | 16.70 | 17.24 | 8.80 | 8.46 | 12.94 | 13.33 | 18.92 | 7 |
| Motunui M39 at Weston W3 | 19.16 | 19.77 | 8.73 | 9.00 | 14.87 | 15.25 | 21.01 | 6 |
| North Egmont at Visitors Centre | 12.92 | 14.88 | 3.80 | 5.03 | 9.06 | 9.99 | 14.23 | 9 |
| Patea at Bore 3 | 20.03 | 19.90 | 8.68 | 9.26 | 15.06 | 15.48 | 24.43 | 11 |
| Stony at Mangatete Bridge | 18.62 | 19.67 | 9.12 | 9.65 | 14.24 | 14.96 | 20.55 | 8 |
| Taungatara at Eltham Rd | 19.67 | 19.08 | 8.59 | 8.65 | 14.25 | 14.61 | 21.96 | 9 |
| Tawhiti at Duffys | 19.96 | 20.05 | 3.71 | 5.25 | 14.65 | 15.10 | 24.12 | 11 |
| Uruti at Kaka Rd | 17.94 | 18.30 | 8.59 | 8.61 | 13.23 | 13.57 | 20.69 | 6 |
| Waitotara at Hawken Rd | 21.08 | 20.17 | 7.94 | 8.51 | 14.86 | 15.02 | 25.54 | 7 |
| Weraweraonga at 749 Mangawhio Rd | 20.56 | 20.46 | 5.48 | 6.21 | 14.02 | 13.94 | 24.07 | 7 |

4.2 Long-term data patterns


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

### 4.3 Monthly Bar Charts



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

## 5. Soil Moisture

Map 5: April mean soil moisture content (\%).


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

| April 2024 - Soil Moisture (\%) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Highs |  | Lows |  | Mean |  |  |  |
| River and Site | current month | historic | current month | historic | current month | historic | April maximum | Data years |
| Kapoaiaia at Lighthouse | 24.71 | 29.50 | 17.69 | 7.92 | 23.72 | 24.09 | 24.86 | 12 |
| Kaupokonui at Glenn Rd | 21.67 | 35.99 | 17.98 | 11.20 | 20.26 | 30.20 | 21.80 | 13 |
| Kotare at OSullivans | 51.20 | 45.98 | 42.61 | 23.80 | 45.96 | 36.21 | 56.14 | 12 |
| Motunui M39 at Weston W3 | 31.22 | 30.21 | 24.90 | 14.05 | 29.63 | 26.91 | 34.90 | 9 |
| Patea at Bore 3 | 23.34 | 30.63 | 19.85 | 19.06 | 21.96 | 26.86 | 23.46 | 7 |
| Pohokura Saddle | 53.60 | 50.02 | 39.65 | 27.94 | 47.46 | 40.59 | 55.52 | 9 |
| Stony at Mangatete Bridge | 23.47 | 22.29 | 13.39 | 6.76 | 19.69 | 14.57 | 25.75 | 8 |
| Taungatara at Eltham Rd | 27.49 | 40.36 | 18.74 | 15.53 | 26.37 | 30.32 | 27.63 | 11 |
| Uruti at Kaka Rd | 41.50 | 43.30 | 37.65 | 27.17 | 40.31 | 38.21 | 41.97 | 12 |
| Waitotara at Rimunui Station | 29.40 | 29.92 | 22.99 | 21.05 | 26.79 | 25.73 | 31.98 | 7 |
| Waiwhakaiho at Hillsborough | 28.60 | 28.60 | 23.07 | 17.38 | 26.64 | 25.64 | 30.52 | 12 |

5.2 Long-term data patterns


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

### 5.3 Monthly Bar Charts



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

## 6. Soil Temperature

Map 6: April mean soil temperatures with difference to long-term mean $\left({ }^{\circ} \mathrm{C}\right)$.


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

| April 2024 - Soil Temperatures ( ${ }^{\circ} \mathrm{C}$ ) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Highs |  | Lows |  | Mean |  |  | Data years |
| River and Site | current month | historic | current month | historic | current month | historic | April maximum |  |
| Kapoaiaia at Lighthouse | 18.87 | 19.52 | 14.55 | 15.05 | 17.6 | 17.06 | 19.51 | 12 |
| Kaupokonui at Glenn Rd | 17.40 | 18.37 | 13.51 | 14.10 | 16.1 | 16.00 | 17.90 | 13 |
| Kotare at OSullivans | 16.42 | 17.80 | 12.80 | 13.07 | 15.0 | 15.39 | 16.87 | 12 |
| Motunui M39 at Weston W3 | 17.53 | 17.94 | 14.18 | 13.73 | 16.0 | 15.81 | 18.15 | 9 |
| Patea at Bore 3 | 17.30 | 18.72 | 13.80 | 13.83 | 16.1 | 15.88 | 17.91 | 7 |
| Pohokura Saddle | 16.17 | 17.98 | 11.83 | 13.92 | 14.8 | 15.50 | 16.80 | 9 |
| Stony at Mangatete Bridge | 17.23 | 18.52 | 13.64 | 13.10 | 15.8 | 15.61 | 17.70 | 7 |
| Taungatara at Eltham Rd | 17.00 | 17.80 | 13.31 | 13.71 | 15.5 | 15.40 | 18.20 | 11 |
| Uruti at Kaka Rd | 16.64 | 18.60 | 14.35 | 14.22 | 15.9 | 16.21 | 16.85 | 12 |
| Waitotara at Rimunui Station | 18.09 | 19.77 | 13.39 | 14.31 | 16.5 | 16.48 | 18.98 | 6 |
| Waiwhakaiho at Hillsborough | 17.35 | 18.39 | 13.78 | 14.20 | 15.9 | 16.20 | 17.79 | 12 |

6.2 Long-term data patterns


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

### 6.3 Monthly Bar Charts



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

## 7. Wind Speed and Maximum Gusts

Map 7: April mean of wind speed with difference to long-term values (km/hr).


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

| April 2024 - Wind Speed (average) - (km/hr) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Highs |  | Lows |  | Mean |  |  |  |
| River and Site | current month | historic | current month | historic | current month | historic | April maximum | Data years |
| Hawera AWS | 34.26 | 35.19 | 7.41 | 5.56 | 15.7 | 14.82 | 50.93 | 19 |
| Kapoaiaia at Lighthouse | 35.41 | 38.97 | 6.21 | 6.02 | 18.1 | 18.03 | 54.90 | 23 |
| New Plymouth AWS | 33.38 | 37.04 | 5.56 | 6.48 | 13.9 | 15.74 | 50.93 | 16 |
| Patea at Bore 3 | 33.45 | 37.20 | 6.50 | 6.24 | 15.7 | 15.48 | 48.91 | 8 |
| Patea at Stratford | 17.09 | 16.48 | 2.50 | 2.03 | 5.2 | 5.76 | 27.02 | 18 |
| Taungatara at Eltham Rd | 31.10 | 29.54 | 5.12 | 6.44 | 12.8 | 13.69 | 51.89 | 8 |
| Uruti at Kaka Rd | 23.57 | 20.90 | 2.66 | 3.04 | 8.3 | 8.97 | 35.38 | 25 |
| Waitotara at Ngutuwera | 20.08 | 20.61 | 2.65 | 1.94 | 8.3 | 8.17 | 29.78 | 25 |
| Waiwhakaiho at Hillsborough | 24.61 | 26.30 | 3.61 | 4.17 | 10.5 | 11.96 | 36.40 | 6 |

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

| April 2024 - Wind Gusts (Maximum) - (km/hr) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Highs |  | Lows |  | Mean |  |  |  |
| River and Site | current month | historic | current month | historic | current month | historic | April maximum | Data years |
| Hawera AWS | 79.64 | 70.38 | 22.22 | 20.37 | 40.7 | 42.6 | 96.30 | 19 |
| Kapoaiaia at Lighthouse | 72.20 | 79.50 | 17.40 | 20.80 | 35.0 | 44.0 | 81.10 | 23 |
| New Plymouth AWS | 75.93 | 75.93 | 20.37 | 20.37 | 42.6 | 42.6 | 75.93 | 16 |
| Patea at Bore 3 | 72.40 | 71.50 | 21.80 | 21.00 | 40.8 | 42.3 | 74.40 | 8 |
| Patea at Stratford | 59.40 | 57.90 | 17.28 | 16.92 | 31.0 | 32.4 | 60.48 | 18 |
| Taungatara at Eltham Rd | 83.30 | 72.70 | 18.90 | 21.90 | 33.4 | 39.1 | 114.90 | 8 |
| Uruti at Kaka Rd | 73.80 | 65.52 | 20.16 | 19.10 | 33.5 | 34.2 | 74.16 | 23 |
| Waitotara at Ngutuwera | 66.60 | 61.92 | 19.44 | 17.30 | 37.8 | 35.1 | 88.20 | 25 |
| Waiwhakaiho at Hillsborough | 66.10 | 63.70 | 18.40 | 21.60 | 38.5 | 41.0 | 67.80 | 6 |

7.2 Long-term data patterns


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

### 7.3 Monthly Bar Charts



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 April 2024

## Average windspeed



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

Maximum gust strength


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

## 8. Summary of month's conditions

## Rainfall

On average April rainfall was $166.1 \mathrm{~mm}, 11 \%$ more than usual, ranging from $60 \%$ less rain at Kaupokonui at Glenn Rd, and 74\% more at Manganui at Everett Park.

Year to date rainfall ranges from 41\% less rainfall at Waitotara at Hawken Rd, and 16\% more rainfall at Kotare at OSullivans, with an average of $11 \%$ less than normal. Compared to typical full year totals, on average sites have already received $24 \%$ of a typical year's rainfall, with the highest value at Uruti at Kaka Rd, $30 \%$ of normal, whereas Waitotara at Ngutuwera sits at 18\% of the typical year's total.

## River Flow

Mean river flows for April were 36\% greater than typical values, low flows were 2.4\% lower and high flows $43.6 \%$ greater than typical values. The maximum river flow recorded in April was $316.4 \mathrm{~m}^{3} / \mathrm{sec}$ at Waitara at Bertrand Rd, on 20 April at 11 pm .

## River Water Temperature

Mean river (non-mountain) water temperatures were $13.7^{\circ} \mathrm{C}$, an average of $0.2^{\circ} \mathrm{C}$ cooler than long-term April values. Nighttime-low water temperatures were on average the same as historic lows, and day-time high temperatures were on average $0.4^{\circ} \mathrm{C}$ cooler than historic highs. The maximum river water temperature recorded in April was $19.93^{\circ} \mathrm{C}$ at Kaupokonui at Glenn Rd, on 10 April at 4pm.

## Air Temperature

The average air temperature for the region (excluding Te Maunga sites) was $13.9^{\circ} \mathrm{C}$, which is $0.4^{\circ} \mathrm{C}$ cooler than long-term April averages. Low air temperatures for April were on average $0.3^{\circ} \mathrm{C}$ cooler than the April average for previous years. Day-time high temperatures were on average $0.3^{\circ} \mathrm{C}$ cooler than historic highs. The maximum air temperature recorded in April was $25.54^{\circ} \mathrm{C}$ at Waitotara at Hawken Rd, on 10 April at 1.30 pm .

## Soil Moisture

The average soil moisture for April across sites in Taranaki region was 29.9\%. Soil moistures were on average $0.9 \%$ wetter than typical April values. On average, low soil moistures were $7.9 \%$ wetter than previous lows, and the highs were on average $2.8 \%$ drier than previous values for April.

## Soil Temperature

April soil temperatures were generally the same as long-term averages. Average nighttime low soil temperatures were $0.4^{\circ} \mathrm{C}$ cooler than recorded lows, and upper day-time soil temperatures were on average $1.2^{\circ} \mathrm{C}$ cooler than long-term April highs. The maximum soil temperature recorded in April was $19.51^{\circ} \mathrm{C}$ at Kapoaiaia at Lighthouse, on 1 April at 8 pm .

April average wind speeds were $12.9 \mathrm{~km} / \mathrm{hr}$, with average gust strength of $37.8 \mathrm{~km} / \mathrm{hr}$, these were $0.4 \mathrm{~km} / \mathrm{hr}$ lighter, and $2.3 \mathrm{~km} / \mathrm{hr}$ weaker than the long-term average. Average calm weather wind speeds were the same as the recorded lows, and windy conditions were on average $1.2 \mathrm{~km} / \mathrm{hr}$ lighter than long-term April highs. The maximum wind gust recorded in April was $114.9 \mathrm{~km} / \mathrm{hr}$ at Taungatara at Eltham Rd, on 11 April at 1am.

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: 8 May 2024.

