

## TARANAKI REGIONAL COUNCIL MONTHLY RAINFALL AND RIVER REPORT FOR May 2021

*Provisional Data Only*

*Note: some sites record a number of parameters*

**Table 1: Rainfall at 27 sites throughout the region**



Station	Sub-region	Monthly			Year to Date			Records Began
		Number of rain days (>0.5mm)	Total Monthly Rainfall (mm)	% of Monthly Normal (%)	Total to date (mm)	% of Normal for year to date	% of average full calendar year	
Nth Egmont	Ntnl Park (North)	17	667.5	101	2279.5	95	32	Nov 1990
Dawson Falls	Ntnl Park (South)	19	609.0	99	2289.0	108	39	Feb 1933
Kahui Hut	Ntnl Park (West)	21	568.5	113	1843.0	102	35	Nov 2005
Mangorei Upper	Near bushline	15	457.5	-	1461.0	-	-	Feb 2017
Hillsborough		14	226.0	131	768.5	112	44	Feb 2012
Brooklands	New Plymouth	16	212.2	128	654.8	102	41	Jan 1872
Mangati	Bell Block	14	212.8	141	651.0	108	44	Oct 2012
Weston's Farm	Motunui	14	152.8	91	643.6	109	41	Feb 1998
Waiwhakaiho	Egmont Village	15	304.0	140	970.0	114	41	Aug 1990
Manganui	Everett Park	15	303.5	158	844.5	113	41	Jan 1987
Oxi' Ponds	Inglewood	15	298.5	132	832.0	102	36	May 1999
TRC	Stratford	15	232.5	108	713.5	101	36	Jul 1998
Mangaehu	Toko (Huinga)	13	161.5	103	573.0	101	37	Jul 1998
Kotare	Tongaporutu	13	158.5	74	747.5	101	35	Jan 1998
Kaka Rd	Okoki	12	171.5	84	694.5	88	31	Aug 1990
Pohokura Saddle	Pohokura	11	164.5	91	648.5	93	33	Aug 1990
Stony	Mangatete Rd	16	265.5	138	803.5	113	42	Dec 2003
Kapoaiaia	Cape Egmont	14	181.0	138	649.8	124	47	Jan 1930
Taungatara	Te Kiri	14	162.5	99	541.5	98	35	Dec 2004
Kaupokonui	Manaia	13	89.0	79	406.0	97	35	Sep 1997
Duffy's Farm	Whareroa	13	104.0	104	396	99	37	Feb 1993
Bore 3	Patea	10	87.8	73	429.6	97	38	Feb 1994
Omaru	Charlie's Clearing	13	124.5	72	537.5	84	31	Apr 2005
Omahine	Moana Trig	11	149.5	85	501.0	78	29	Mar 2006
Rimunui	Waitotara Valley	10	84.5	63	337.5	69	25	May 1993
Ngutuwera	Waitotara	9	83.5	69	394.0	85	31	Apr 1998
Waitotara	Coast	11	73.4	63	414.6	86	36	Sep 2015

**Table 2: River Flow at 9 sites throughout the region**

River and Site	Recorded Flows (m3/sec)						Records Began
	Maximum		Minimum		Mean		
	May 2021	May all previous years	May 2021	May all previous years	May 2021	May all previous years	
Waitara at Bertrand Rd	454.759	868.995	10.499	6.232	65.492	62.864	Feb 1980
Manganui at Everett Park	316.007	793.308	5.028	3.011	28.786	21.605	Jun 1991
Waiwhakaiho at SH3	171.156	553.692	1.976	1.788	11.222	8.365	Feb 1980
Waiongana at SH3a	48.027	125.684	0.774	0.388	4.417	3.006	Apr 1980
Kapoaiaia at Lighthouse	8.480	44.535	0.718	0.247	1.733	1.221	Feb 1986
Waiongoro at Eltham Rd	19.202	71.826	0.742	0.316	2.876	3.030	Dec 1974
Punehu at Pihama*	12.045	38.451	0.333	0.261	1.095	1.266	Jan 1970
Tawhiti at Duffy's Farm	18.820	13.280	0.489	0.137	0.695	0.590	May 1985
Whenuakura at Nicholson Rd	52.638	205.669	2.376	1.661	6.801	9.540	Mar 1983

Note: \* = NIWA station

**Table 3: River Temperature at 10 sites throughout the region**

River	Monthly Temperatures (°C)						Records Began
	Maximum		Minimum		Mean		
	May 2021	May all previous years	May 2021	May all previous years	May 2021	May all previous years	
Patea (Skinner Rd)	15.52	16.19	7.85	5.58	11.36	11.37	Dec 2003
Waiongoro (Eltham)	14.74	16.71	7.37	5.25	10.96	11.16	Jan 2000
Kapuni	16.38	18.80	6.88	4.70	11.21	11.36	Apr 1999
Kaupokonui (Manaia)	17.83	20.20	7.11	5.30	11.73	11.80	Sep 1978
Kapoaiaia	16.35	18.50	8.89	2.80	12.74	12.62	Jun 1998
Timaru	14.81	16.25	8.30	7.09	11.95	12.08	Mar 2013
Waitara	15.13	16.30	8.95	7.36	12.01	12.09	May 1981
Mangaoraka	16.21	17.18	9.55	7.0	13.04	12.85	Dec 2003
Waiwhakaiho	14.53	15.50	6.65	5.72	10.58	10.81	Jul 1980
Waiongoro (Ohawe)	16.16	17.10	8.07	6.05	11.74	12.04	Dec 2003

**Table 4: Air Temperature at 16 sites throughout the region**

Site	Monthly Air Temperatures (°C)						Records Began
	Maximum		Minimum		Mean		
	May 2021	May all previous years	May 2021	May all previous years	May 2021	May all previous years	
North Egmont	15.04	17.59	-0.09	-1.15	7.60	9.72	Jul 2011
Dawson Falls	16.22	20.00	0.48	-0.73	7.67	7.82	May 2015
Mangorei (Bushline)	17.49	18.06	3.65	1.11	11.29	10.79	Feb 2017
Brooklands (NP)	20.88	22.70	3.13	1.60	13.18	13.26	Jan 2012
Motunui	20.44	21.21	3.07	1.10	12.70	12.61	Aug 2016
Mangati (Bell Block)	20.84	21.90	2.42	-0.08	13.11	13.39	Oct 2012
Hillsborough	18.65	20.24	3.03	2.43	12.24	13.17	Feb 2012
Inglewood	22.58	22.24	0.54	-1.07	12.35	11.41	Jul 2011
Stratford	21.38	21.93	0.44	-0.26	11.72	11.25	Sep 2011
Mangatete Rd (Okato)	20.90	20.82	3.77	2.87	12.44	13.13	Dec 2015
Cape Egmont	19.15	20.19	2.49	3.18	13.83	13.70	Feb 2012
Te Kiri	18.69	21.03	2.59	2.03	12.22	12.81	Mar 2015
Kaupokonui (Manaia)	20.72	23.40	0.43	0.89	12.96	13.12	Oct 2014
Patea	20.96	21.72	1.96	1.16	12.82	15.03	Sep 2011
Whareroa	21.55	22.38	-2.37	-3.12	11.80	12.13	Mar 2013
Waitotara (Coast)	22.28	22.17	1.57	0.95	12.97	13.09	Sep 2015

**Table 5: Soil Moisture at 11 sites throughout the region**

Site	Soil Moisture Extremes (%)						Records Began
	Maximum		Minimum		Mean		
	May 2021	May all previous years	May 2021	May all previous years	May 2021	May all previous years	
Kotare (Tongaporutu)	48.59	59.89	35.58	31.00	39.27	39.99	Jan 2012
Kaka Rd (Okoki)	42.47	58.50	37.74	15.70	39.68	39.59	Dec 2003
Motunui	31.91	42.40	28.07	15.70	29.79	29.05	May 2008
Hillsborough	34.82	37.48	25.96	15.65	29.15	23.41	Mar 2012
Pohokura Saddle	52.61	59.69	38.67	26.30	44.12	39.60	Oct 2005
Kapoaiaia (Cape Egmont)	32.39	47.70	24.38	14.70	26.43	27.20	Oct 2004
Mangatete Rd (Okato)	33.73	35.81	14.88	7.94	18.82	15.90	Dec 2015
Te Kiri	39.96	59.70	25.83	21.60	29.71	37.67	Nov 2007
Kaupokonui (Manaia)	34.11	49.75	29.37	16.27	31.66	28.92	Oct 2004
Patea	30.88	47.20	26.65	16.74	28.17	25.86	Apr 2006
Rimunui (Waitotara Valley)	32.10	69.43	23.36	14.28	25.89	33.29	Nov 2005

**Table 6: Soil Temperature at 11 sites throughout the region**

Site	Soil Temperature Extremes (%)						Records Began
	Maximum		Minimum		Mean		
	May 2021	May all previous years	May 2021	May all previous years	May 2021	May all previous years	
Kotare (Tongaporutu)	16.11	17.13	10.12	5.28	12.94	12.35	Jan 2012
Kaka Rd (Okoki)	15.43	16.49	11.23	6.10	13.31	12.67	Dec 2003
Motunui	16.23	16.85	10.29	8.40	12.86	13.10	May 2008
Hillsborough	16.66	21.47	10.87	10.00	13.46	15.92	Mar 2012
Pohokura Saddle	15.50	16.51	9.25	7.70	12.23	12.44	Oct 2005
Kapoaiaia (Cape Egmont)	18.01	17.82	12.00	9.10	14.98	13.92	Oct 2004
Mangatete Rd (Okato)	16.40	17.30	8.80	7.90	12.80	13.16	Dec 2015
Te Kiri	16.90	16.59	8.70	6.70	12.91	12.64	Nov 2007
Kaupokonui (Manaia)	16.90	17.60	10.80	8.40	13.81	13.01	Oct 2004
Patea	17.30	17.42	9.53	5.70	13.14	12.77	Apr 2006
Rimunui (Waitotara Valley)	16.84	18.32	9.17	6.70	13.01	13.11	Nov 2005

**General Comments:**

Rainfall for May was varied, with recorded rainfall amounts between 63% and 158% of normal, with an average of 103%. Below normal rainfall was recorded in the Eastern Hill Country and from Opunake and south to Waitotara, while central Taranaki through to New Plymouth recorded above normal. Te Maunga rainfall sites recorded near or above normal by between 99% and 113%.

The rainfall sites at Everett Park and Mangorei bush line recorded new maximum May rainfall totals on record with 303.5 mm and 457.5 mm respectively. While the Waitotara at Coast site recorded a new minimum May rainfall total on record with only 73.4mm.

Year to date rainfall is ranging between 69% and 124% of normal, with an average of 99%. North Egmont, the Eastern Hill Country and South Taranaki are all below normal to date with rainfall totals ranging between 69% and 99% of normal.

River flows were mixed for the month with three sites, the Waingongoro River, Ponehu Stream and Whenuakura River, recording below normal for the month. The other six sites of Waitara River, Manganui Stream, Waiwhakaiho River, Waiongana Stream, Kapoiaia Stream and Tawhiti Stream all recorded flows above normal.

Water temperatures for the month were above normal by between 0.01°C and 0.30°C for all sites except the Kapoiaia and Mangaoraka Streams. These sites recorded below normal for the month by 0.12°C and 0.19°C respectively.

The average air temperature for the month (excluding Te Maunga) was 12.64°C, which was 0.29°C cooler than the long term May average of 12.93°C. Inglewood, Okato and Waitotara Coast all recorded new May maximum air temperatures on record with 22.58°C, 20.90°C and 22.28°C respectively. Inglewood also recorded the highest air temperature for the month at 22.58 °C, while Whareroa recorded the coolest at -2.37°C. Cape Egmont and Manaia recorded new minimum May air temperatures on record with 2.49°C and 0.43°C respectively.

The average soil moisture for the month was 31.15%, which was slightly above the long term average of 30.95%.

The average soil temperature for the month was 13.22°C, which was slightly higher than the long term May average of 13.19°C. Cape Egmont and Te Kiri recorded new maximum soil temperatures on record with 18.01°C and 16.90°C respectively.

**AUTUMN RAINFALL**

Rainfall for the three months of March, April and May saw totals ranging between 72% and 139% of normal, with an average of 106%. Rainfall sites from Opunake and south to Waitotara, recorded below normal rainfall by between 72% and 95%, except Whareroa (Duffys Farm) which recorded 102% of normal. Central and North Taranaki as well as Te Maunga recorded above normal rainfall by between 100% and 139%.