

TARANAKI REGIONAL COUNCIL MONTHLY RAINFALL AND RIVER REPORT FOR April 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	388.5	75	1612.0	93	23	Nov 1990
Dawson Falls	Ntnl Park (South)	19	505.5	105	1680.0	111	28	Feb 1933
Kahui Hut	Ntnl Park (West)	24	397.5	94	1274.5	97	24	Nov 2005
Mangorei Upper	Near bushline	20	202.5	-	1003.5	-	-	Feb 2017
Hillsborough		14	114.0	63	542.5	105	31	Feb 2012
Brooklands	New Plymouth	14	96.0	57	442.6	93	28	Jan 1872
Mangati	Bell Block	11	89.0	50	438.2	97	30	Oct 2012
Weston's Farm	Motunui	11	80.2	57	490.8	115	31	Feb 1998
Waiwhakaiho	Egmont Village	14	161.5	86	666.0	105	28	Aug 1990
Manganui	Everett Park	11	108.0	64	541.0	98	26	Jan 1987
Oxi' Ponds	Inglewood	10	132.0	77	533.5	91	23	May 1999
TRC	Stratford	12	83.5	55	481.0	98	25	Jul 1998
Mangaehu	Toko (Huinga)	12	73.5	57	411.5	100	26	Jul 1998
Kotare	Tongaporutu	16	132.0	87	589.0	112	27	Jan 1998
Kaka Rd	Okoki	11	119.5	68	523.0	89	24	Aug 1990
Pohokura Saddle	Pohokura	10	89.5	57	484.0	94	25	Aug 1990
Stony	Mangatete Rd	16	114.0	64	538.0	103	28	Dec 2003
Kapoaiaia	Cape Egmont	10	86.6	72	468.8	119	34	Jan 1930
Taungatara	Te Kiri	20	91.5	64	379.0	98	25	Dec 2004
Kaupokonui	Manaia	14	65.0	60	317.0	104	27	Sep 1997
Duffy's Farm	Whareroa	16	44.0	42	292.0	98	27	Feb 1993
Bore 3	Patea	14	62.0	48	341.8	105	30	Feb 1994
Omaru	Charlie's Clearing	16	76.5	48	413.0	88	24	Apr 2005
Omahine	Moana Trig	13	69.5	45	343.5	74	20	Mar 2006
Rimunui	Waitotara Valley	12	41.0	35	253.0	71	19	May 1993
Ngutuwera	Waitotara	12	73.0	68	310.5	91	24	Apr 1998
Waitotara	Coast	13	76.6	60	341.2	94	30	Sep 2015

Table 2: River Flow at 9 sites throughout the region

River and Site	Recorded Flows (m3/sec)							Records Began
	Maximum		Minimum		Mean			
	April 2021	April all previous years	April 2021	April all previous years	April 2021	April all previous years	% of normal	
Waitara at Bertrand Rd	222.290	915.735	14.916	4.587	37.197	45.080	83%	Feb 1980
Manganui at Everett Park	176.714	634.905	6.660	2.825	15.385	14.636	105%	Jun 1991
Waiwhakaiho at SH3	142.545	354.560	2.166	1.358	6.178	6.617	93%	Feb 1980
Waiongana at SH3a	19.832	134.513	1.022	0.276	2.383	2.102	113%	Apr 1980
Kapoaiaia at Lighthouse	7.484	50.098	0.559	0.202	1.278	0.869	147%	Feb 1986
Waiongoro at Eltham Rd	30.963	87.039	0.953	0.299	1.837	1.857	99%	Dec 1974
Punehu at Pihama*	12.217	45.112	0.353	0.217	0.672	0.884	76%	Jan 1970
Tawhiti at Duffy's Farm	4.514	9.298	0.477	0.082	0.682	0.438	156%	May 1985
Whenuakura at Nicholson Rd	26.846	180.103	2.626	1.615	4.562	7.840	58%	Mar 1983

Note: * = NIWA station

Table 3: River Temperature at 10 sites throughout the region

River	Monthly Temperatures (°C)						Records Began
	Maximum		Minimum		Mean		
	April 2021	April all previous years	April 2021	April all previous years	April 2021	April all previous years	
Patea (Skinner Rd)	16.18	17.90	8.63	7.10	13.09	12.93	Dec 2003
Waiongoro (Eltham)	16.26	17.90	8.37	7.50	12.87	13.14	Jan 2000
Kapuni	17.25	21.50	8.75	7.40	13.33	13.73	Apr 1999
Kaupokonui (Manaia)	19.02	21.70	9.42	3.00	14.18	14.39	Sep 1978
Kapoaiaia	18.86	21.12	11.30	8.60	15.2	14.81	Jun 1998
Timaru	16.66	18.00	9.71	10.01	13.72	13.61	Mar 2013
Waitara	17.63	20.36	11.60	7.07	14.78	14.68	May 1981
Mangaoraka	17.98	20.10	11.08	8.20	14.88	14.47	Dec 2003
Waiwhakaiho	16.15	17.30	8.43	6.74	12.71	12.46	Jul 1980
Waiongoro (Ohawe)	17.57	20.63	10.09	9.10	14.27	14.40	Dec 2003

Table 4: Air Temperature at 17 sites throughout the region

Site	Monthly Air Temperatures (°C)						Records Began
	Maximum		Minimum		Mean		
	April 2021	April all previous years	April 2021	April all previous years	April 2021	April all previous years	
North Egmont	18.80	18.68	2.07	0.26	9.66	9.88	Jul 2011
Dawson Falls	19.14	20.79	2.42	0.69	9.23	9.56	May 2015
Mangorei (Bushline)	21.57	20.13	5.61	3.82	13.18	12.60	Feb 2017
Brooklands (NP)	24.75	26.00	5.12	3.09	15.27	15.49	Jan 2012
Motunui	22.48	22.15	5.38	5.58	14.93	14.65	Aug 2016
Mangati (Bell Block)	23.09	24.72	4.98	3.04	15.24	15.50	Oct 2012
Hillsborough	23.00	24.42	4.08	4.07	14.28	15.32	Feb 2012
Inglewood	25.58	25.69	2.96	1.92	14.31	13.76	Jul 2011
Stratford	24.89	25.93	3.33	2.04	14.17	13.56	Sep 2011
Mangatete Rd (Okato)	23.30	23.21	6.23	5.25	14.47	14.66	Dec 2015
Cape Egmont	22.49	23.65	6.81	5.55	16.28	15.88	Feb 2012
Te Kiri	24.38	23.53	4.37	3.23	14.39	14.35	Mar 2015
Kaupokonui (Manaia)	24.47	25.32	2.61	2.94	15.07	14.68	Oct 2014
Patea	24.14	25.80	4.28	4.43	15.07	14.68	Sep 2011
Whareroa	23.31	23.73	0.74	-0.11	14.67	14.11	Mar 2013
Ngutuwera	24.52	21.86	2.61	3.61	14.61	13.35	Dec 2017
Waitotara (Coast)	23.55	23.17	3.68	3.34	15.10	14.51	Sep 2015

Table 5: Soil Moisture at 11 sites throughout the region

Site	Soil Moisture Extremes (%)						Records Began
	Maximum		Minimum		Mean		
	April 2021	April all previous years	April 2021	April all previous years	April 2021	April all previous years	
Kotare (Tongaporutu)	43.92	59.90	34.19	18.50	37.74	35.30	Jan 2012
Kaka Rd (Okoki)	43.45	57.90	37.09	14.90	39.93	35.90	Dec 2003
Motunui	30.38	38.30	27.29	13.63	28.97	24.64	May 2008
Hillsborough	29.14	33.79	25.27	11.60	26.95	23.59	Mar 2012
Pohokura Saddle	53.89	58.20	38.34	147.44	42.48	34.74	Oct 2005
Kapoaiaia (Cape Egmont)	27.34	51.20	24.69	7.08	25.85	21.51	Oct 2004
Mangatete Rd (Okato)	23.35	35.10	13.41	6.44	16.77	13.39	Dec 2015
Te Kiri	35.48	59.80	23.25	13.10	26.83	30.19	Nov 2007
Kaupokonui (Manaia)	31.07	50.40	26.31	10.18	28.29	24.05	Oct 2004
Patea	29.11	53.49	25.96	9.90	27.39	23.92	Apr 2006
Rimunui (Waitotara Valley)	26.56	66.82	22.88	10.28	24.20	28.72	Nov 2005

Table 6: Soil Temperature at 11 sites throughout the region

Site	Soil Temperature Extremes (%)						Records Began
	Maximum		Minimum		Mean		
	April 2021	April all previous years	April 2021	April all previous years	April 2021	April all previous years	
Kotare (Tongaporutu)	18.42	20.16	13.29	10.80	16.07	15.21	Jan 2012
Kaka Rd (Okoki)	17.76	19.90	14.14	9.90	16.32	15.45	Dec 2003
Motunui	18.23	19.51	12.36	12.20	15.77	15.35	May 2008
Hillsborough	18.35	19.60	13.59	13.34	16.25	16.13	Mar 2012
Pohokura Saddle	17.88	19.05	12.45	12.10	15.43	15.13	Oct 2005
Kapoaiaia (Cape Egmont)	19.90	20.66	14.88	11.90	17.59	16.31	Oct 2004
Mangatete Rd (Okato)	18.80	20.30	12.60	11.60	16.04	15.57	Dec 2015
Te Kiri	18.90	19.27	11.60	10.10	15.59	15.09	Nov 2007
Kaupokonui (Manaia)	19.30	21.10	13.80	11.30	16.77	15.51	Oct 2004
Patea	18.93	21.60	11.97	10.00	16.02	15.42	Apr 2006
Rimunui (Waitotara Valley)	20.66	21.50	13.04	11.00	16.74	16.38	Nov 2005

General Comments:

Rainfall for April was below normal for all sites by between 35% and 94%, except for Dawson Falls, which recorded 105% of normal. The average rainfall for the month was 64% of normal. The Rimunui Station rainfall site in the Waitotara Valley recorded the least amount of rainfall with just 35% (41.0 mm) of normal. Year to date rainfall is sitting between 71% and 119% of normal, with an average of 98%. Ten sites are currently sitting at or above normal to date. These sites are: Dawson Falls (111%), Hillsborough (105%), Motunui (115%), Egmont Village (105%), Mangehu – Toko (100%), Kotare – Tongaporutu (112%), Okato – Mangatete Rd (103%), Cape Egmont (119%), Manaia (104%) and Patea (105%). Rimunui Station, on the other hand, has recorded just 71% of normal with 253.0 mm to date.

River flows were mixed for the month, with the Manganui, Waiongana, Kapoiaia and Tawhiti streams all recording above normal for the month by between 5% and 56%. While the Waitara, Waiwhakaiho, Waingongoro at Eltham, the Punehu and Whenuakura all recorded below normal, with the Whenuakura recording just 58% of normal mean April flows with 4,562 L/s.

There was a new minimum water temperature recorded in the Timaru Stream (Tataraimaka) with 9.71°C, which was 0.30°C cooler than the previous April minimum. The Patea, Kapoiaia, Timaru, Waitara, Mangaoraka and Waiwhakaiho streams all recorded above normal for the month by between 0.10°C and 0.41°C. The Waingongoro River at Eltham and Ohawe, the Kapuni and Kaupokonui streams all recorded below normal by between 0.13°C and 0.40°C.

The average air temperature for the region (excluding Te Maunga) was 14.74°C, which was 0.24°C warmer than the long term April average. The warmest air temperature for April was recorded at Inglewood with 25.58°C, while the coolest air temperature was recorded at Whareroa with 0.74°C. North Egmont recorded a new maximum April air temperature with 18.80°C, which was 0.12°C warmer than the previous maximum. The Motunui, Manaia and Patea sites all recorded new minimum April air temperatures with 5.38°C, 2.61°C and 4.28°C respectively.

Soil moistures were above normal by between 2.44% and 7.74%, for Kotare, Okoki, Motunui, Hillsborough, Pohokura, Cape Egmont, Okato, Manaia and Patea. However at Te Kiri and Rimunui Station soil moisture was below normal for April with 26.83% and 24.20% respectively.

Soil temperatures were all above normal for the month by between 0.12°C and 1.28°C.