

TARANAKI REGIONAL COUNCIL MONTHLY RAINFALL AND RIVER REPORT FOR January 2022

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 (%)	% of Normal for year to date	
Nth Egmont	Ntnl Park (North)	6	68.0	17	1	Nov 1990
Dawson Falls	Ntnl Park (South)	5	51.5	16	1	Feb 1933
Kahui Hut	Ntnl Park (West)	7	69.0	23	1	Nov 2005
Mangorei Upper	Near bushline	5	40.5	-	-	Feb 2017
Hillsborough		4	10.5	11	1	Feb 2012
Brooklands	New Plymouth	4	10.2	11	1	Jan 1872
Mangati	Bell Block	3	13.0	15	1	Oct 2012
Weston's Farm	Motunui	3	8.2	9	1	Feb 1998
Waiwhakaiho	Egmont Village	5	41.5	29	2	Aug 1990
Manganui	Everett Park	4	23.0	18	1	Jan 1987
Oxi' Ponds	Inglewood	4	20.5	16	1	May 1999
TRC	Stratford	4	18.0	22	1	Jul 1998
Mangaehu	Toko (Huinga)	4	18.0	22	1	Jul 1998
Kotare	Tongaporutu	2	11.0	8	1	Jan 1998
Kaka Rd	Okoki	3	20.5	15	1	Aug 1990
Pohokura Saddle	Pohokura	4	18.5	16	1	Aug 1990
Stony	Mangatete Rd	4	26.0	23	1	Dec 2003
Kapoaiaia	Cape Egmont	3	18.0	19	1	Jan 1930
Taungatara	Te Kiri	3	22.0	25	1	Dec 2004
Kaupokonui	Manaia	2	11.5	17	1	Sep 1997
Duffy's Farm	Whareroa	3	10.5	17	1	Feb 1993
Bore 3	Patea	4	8.8	13	1	Feb 1994
Omaru	Charlie's Clearing	5	20.0	18	1	Apr 2005
Omahine	Moana Trig	6	20.5	19	1	Mar 2006
Rimunui	Waitotara Valley	5	14.0	17	1	May 1993
Ngutuwera	Waitotara	4	21.0	25	2	Apr 1998
Waitotara	Coast	4	9.6	14	1	Sep 2015

Table 2: River Flow at 8 sites throughout the region

River and Site	Recorded Flows (m3/sec)							Records Began
	Maximum		Minimum		Mean			
	January 2022	January all previous years	January 2022	January all previous years	January 2022	January all previous years	% of normal	
Waitara at Bertrand Rd	28.549	886.749	6.026	5.355	11.906	33.750	35	Feb 1980
Manganui at Everett Park	9.200	576.242	3.377	3.037	4.766	10.547	45	Jun 1991
Waiwhakaiho at SH3	3.019	320.245	1.763	1.741	1.956	5.795	38	Feb 1980
Kapoaiaia at Lighthouse	0.971	39.774	0.286	0.210	0.471	0.735	64	Feb 1986
Waingongoro at Eltham Rd	1.393	101.357	0.610	0.271	0.874	1.539	57	Dec 1974
Punehu at Pihama*	0.688	34.451	0.261	0.201	0.364	0.677	54	Jan 1970
Tawhiti at Duffy's Farm	0.745	10.821	0.395	0.090	0.541	0.436	124	May 1985
Whenuakura at Nicholson Rd	7.809	272.026	2.341	1.648	3.508	5.832	60	Mar 1983

Note: * = NIWA station

Table 3: River Temperature at 9 sites throughout the region

River	Monthly Temperatures (°C)						Records Began
	Maximum		Minimum		Mean		
	January 2022	January all previous years	January 2022	January all previous years	January 2022	January all previous years	
Patea (Skinner Rd)	22.00	24.82	14.63	11.10	18.41	17.45	Dec 2003
Waingongoro (Eltham)	21.94	25.20	14.43	11.70	18.09	17.54	Jan 2000
Kapuni	25.06	27.90	14.56	11.00	19.34	18.36	Apr 1999
Kaupokonui (Manaia)	26.88	29.00	14.74	11.30	20.82	19.63	Sep 1978
Kapoaiaia	25.48	29.70	15.40	11.10	20.75	19.70	Jun 1998
Timaru	22.59	24.40	15.26	11.74	18.71	17.52	Mar 2013
Waitara	24.61	28.02	18.56	13.50	22.36	20.38	May 1981
Mangaoraka	22.53	27.00	15.67	12.20	19.32	18.72	Dec 2003
Waiwhakaiho	21.07	23.86	13.10	10.00	17.45	16.42	Jul 1980

Table 4: Air Temperature at 17 sites throughout the region

Site	Monthly Air Temperatures (°C)						Records Began
	Maximum		Minimum		Mean		
	January 2022	January all previous years	January 2022	January all previous years	January 2022	January all previous years	
North Egmont	25.35	25.69	7.31	3.38	15.03	14.14	Jul 2011
Dawson Falls	24.48	26.84	6.06	2.18	14.62	14.02	May 2015
Mangorei (Bushline)	27.25	27.66	10.31	7.33	17.76	16.96	Feb 2017
Brooklands (NP)	31.83	32.90	11.42	6.60	20.04	18.68	Jan 2012
Motunui	28.14	27.56	9.18	6.27	18.95	17.96	Aug 2016
Mangati (Bell Block)	28.47	31.50	10.43	6.62	19.26	18.29	Oct 2012
Hillsborough	28.90	30.41	10.61	7.46	19.27	17.95	Feb 2012
Inglewood	31.94	31.42	8.58	5.02	18.46	17.56	Jul 2011
Stratford	30.25	32.91	9.60	5.19	18.71	17.01	Sep 2011
Mangatete Rd (Okato)	26.02	27.61	9.75	7.54	18.41	17.63	Dec 2015
Cape Egmont	25.27	26.92	9.86	6.77	18.55	18.06	Feb 2012
Te Kiri	25.16	28.22	9.32	6.34	17.72	17.43	Mar 2015
Kaupokonui (Manaia)	26.87	29.00	8.14	5.73	18.26	18.08	Oct 2014
Patea	24.63	29.27	8.89	6.77	18.17	17.93	Sep 2011
Whareroa	26.37	28.61	4.37	2.52	17.45	17.52	Mar 2013
Ngutuwera	25.93	28.05	8.81	6.85	17.91	18.20	Dec 2017
Waitotara (Coast)	26.61	29.66	7.71	6.27	18.83	18.78	Sep 2015

Table 5: Soil Moisture at 11 sites throughout the region

Site	Soil Moisture Extremes (%)						Records Began
	Maximum		Minimum		Mean		
	January 2022	January all previous years	January 2022	January all previous years	January 2022	January all previous years	
Kotare (Tongaporutu)	37.14	58.71	22.63	16.70	28.76	34.93	Jan 2012
Kaka Rd (Okoki)	36.53	29.40	15.00	14.90	25.33	35.60	Dec 2003
Motunui	26.78	38.35	13.70	11.93	18.13	23.61	May 2008
Hillsborough	29.45	35.00	14.24	13.11	20.19	21.94	Mar 2012
Pohokura Saddle	41.45	55.70	24.51	15.98	31.32	33.46	Oct 2005
Kapoaiaia (Cape Egmont)	26.55	38.80	15.01	6.30	20.21	19.38	Oct 2004
Mangatete Rd (Okato)	15.53	33.71	4.72	3.55	7.64	11.40	Dec 2015
Te Kiri	2.02	58.70	9.03	12.00	15.02	26.39	Nov 2007
Kaupokonui (Manaia)	31.06	47.90	13.27	6.30	20.45	20.18	Oct 2004
Patea	28.35	45.90	16.64	7.57	22.01	22.34	Apr 2006
Rimunui (Waitotara Valley)	25.85	59.10	17.42	10.65	21.00	24.84	Nov 2005

Table 6: Soil Temperature at 11 sites throughout the region

Site	Soil Temperature Extremes (%)						Records Began
	Maximum		Minimum		Mean		
	January 2022	January all previous years	January 2022	January all previous years	January 2022	January all previous years	
Kotare (Tongaporutu)	23.88	27.39	20.76	12.13	22.30	19.18	Jan 2012
Kaka Rd (Okoki)	22.79	24.50	20.63	13.70	21.63	19.54	Dec 2003
Motunui	23.28	22.73	19.01	14.66	21.55	18.77	May 2008
Hillsborough	23.01	27.07	19.49	16.29	21.39	19.88	Mar 2012
Pohokura Saddle	23.01	24.72	18.50	13.20	20.92	18.60	Oct 2005
Kapoaiaia (Cape Egmont)	22.36	27.58	18.78	15.40	20.61	20.75	Oct 2004
Mangatete Rd (Okato)	24.80	27.60	19.30	15.60	22.28	21.01	Dec 2015
Te Kiri	25.40	25.68	18.00	12.40	21.46	18.70	Nov 2007
Kaupokonui (Manaia)	22.30	28.20	18.80	14.60	20.78	19.75	Oct 2004
Patea	29.42	30.96	21.48	14.60	24.97	20.46	Apr 2006
Rimunui (Waitotara Valley)	27.55	30.37	21.39	16.40	24.23	23.44	Nov 2005

General Comments:

Rainfall was extremely low for January, with totals ranging between 8% and 29% of normal, with an average of 17%. Rainfall occurred on between 3 and 7 days, and was largely the 2nd driest January on record, with the driest January being in 2015. Stratford recorded just 13.5mm, which is the lowest January rainfall recorded since records began in 1998. Te Maunga rainfall was between 17% and 23% of normal, and had rain fall on between 5 and 7 days.

Due to the below normal rainfall, river flows were all well below normal recording just 35% to 60% of normal. The Tawhiti Stream, however, recorded above normal flow for January with 541 L/s, which was 124% of normal.

Water temperatures were all above normal by between 0.55°C and 1.98°C. No new extremes were recorded.

Air temperature for the region, excluding Te Maunga, was 18.52°C, which was 0.65°C warmer than the January long term average. The maximum temperature recorded was 31.94°C in Inglewood, while the coolest was 4.37°C near Whareroa. Inglewood and Motunui recorded new January maximum temperatures with 31.94°C and 28.14°C respectively.

Soil moistures were below normal for the month by between 0.33% and 11.37% for all sites except Cape Egmont and Manaia. These two sites record just below normal by 0.83% and 0.33% respectively. Te Kiri recorded a new minimum soil moisture with 9.03%, which was 2.97% lower than the previous minimum of 12.00%.

Soil temperatures were above normal for the month by between 0.89°C and 4.51°C, except for Cape Egmont. Cape Egmont had a mean soil temperature slightly lower (0.14°C) than its January mean of 20.75°C. Motunui recorded a new maximum soil temperature for January with 23.28°C, this being 0.56°C higher than the previous maximum.