

Environmental Science June

Air Quality

Rainfall

River Flows

**Groundwater
Levels**

Air Quality Report

June 2008

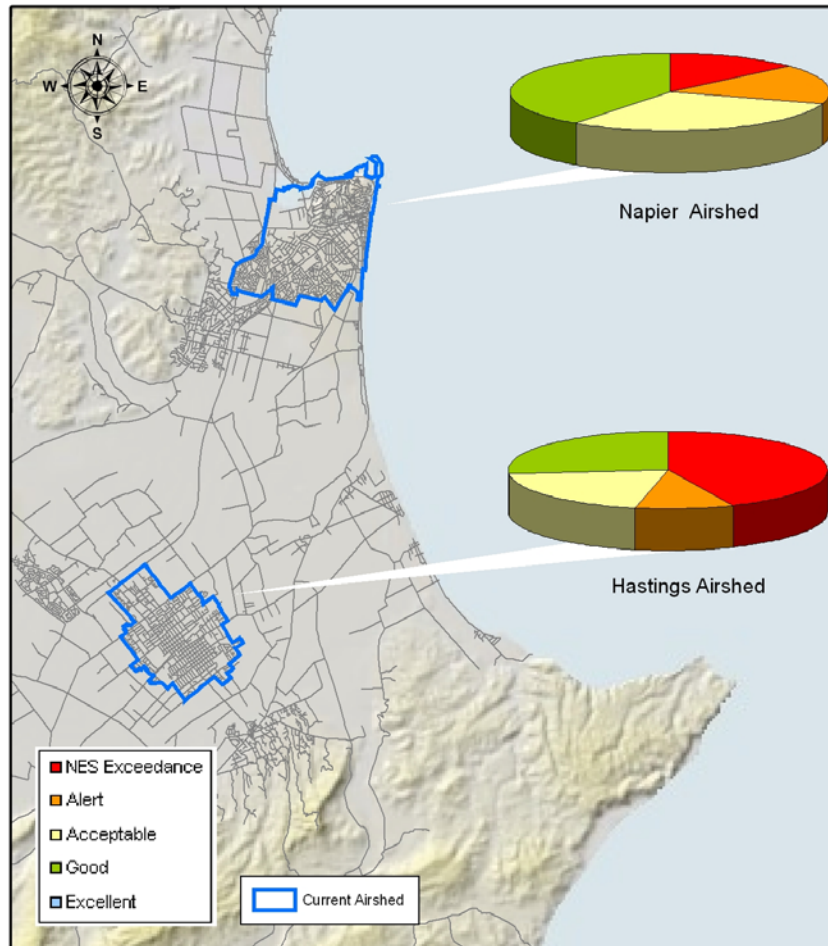


Figure 1: PM₁₀ levels in the Napier and Hastings airsheds during June 2008.

PM₁₀ exceedances:

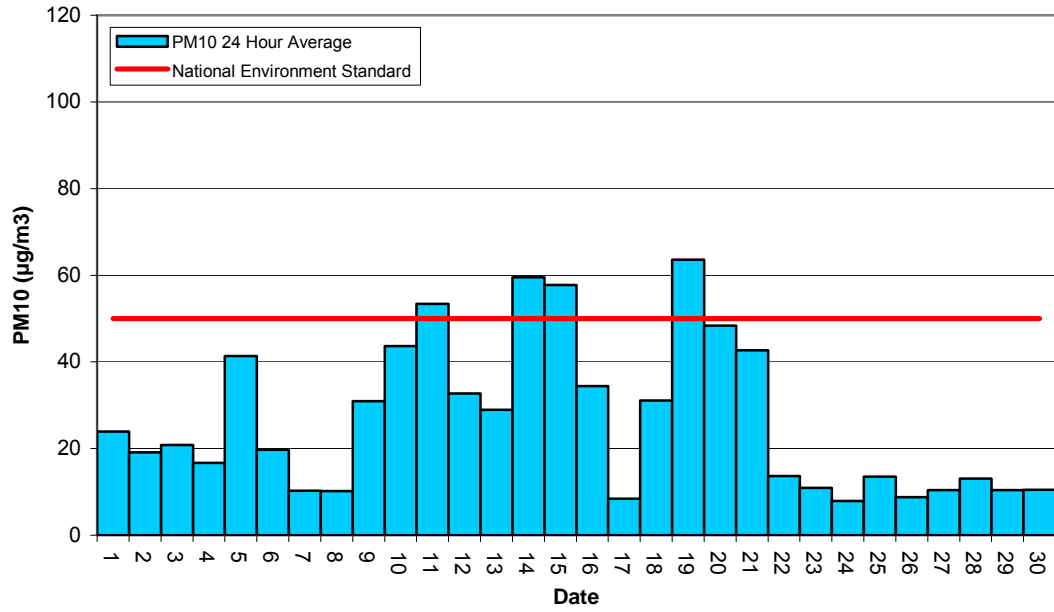
The National Environmental Standard (NES) for particulate matter (PM₁₀) of 50 µg/m³ (24 hour average) was exceeded in the Hastings airshed on thirteen days, and the Napier airshed on four days during June 2008.

The monitoring sites are located at:

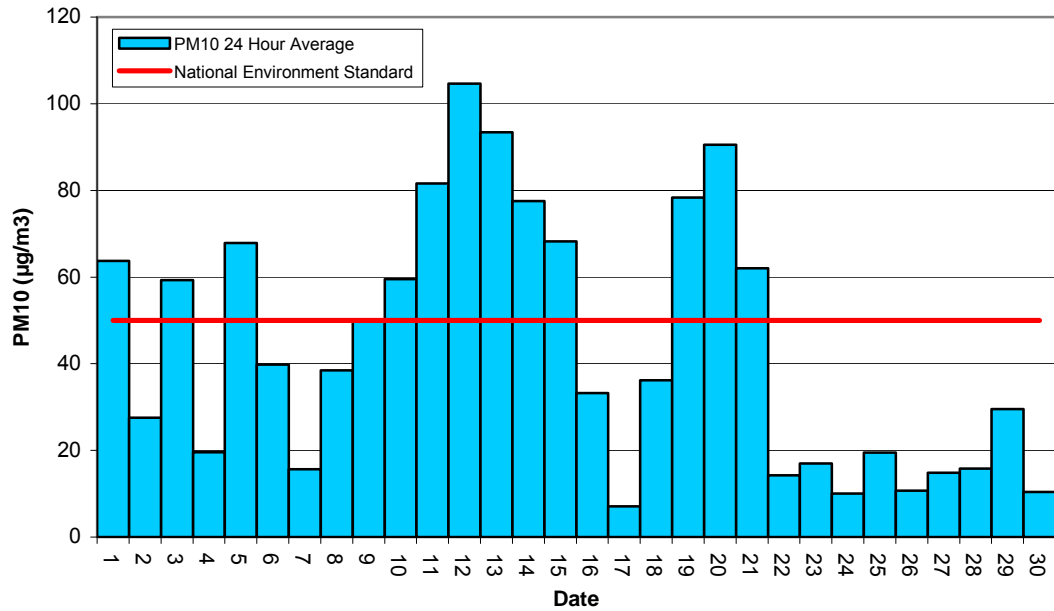
- Marewa Park in the Napier airshed.
- St Johns College in the Hastings airshed.

Further information is available at www.hbrc.govt.nz

Napier PM10 levels: June 2008



Hastings PM10 levels: June 2008



PM10 in Wairoa:

Screening monitoring is now being undertaken in Wairoa using Council's MicroVol monitoring equipment. The purpose of screening monitoring is to target new monitoring locations in Hawke's Bay where no data exists, to assess whether PM₁₀ is likely to be a problem or not.

Where screening monitoring shows there is a problem, an assessment process will be undertaken to determine whether the site should be adopted as a longer term Regional SoE monitoring site and/or an NES Compliance site.

Sampling occurs every 3 days, and sample filters are processed the following month in the laboratory.

The monitoring site is located at:

- Tiaho School, Clyde Road, Wairoa.

Further information is available at www.hbrc.govt.nz

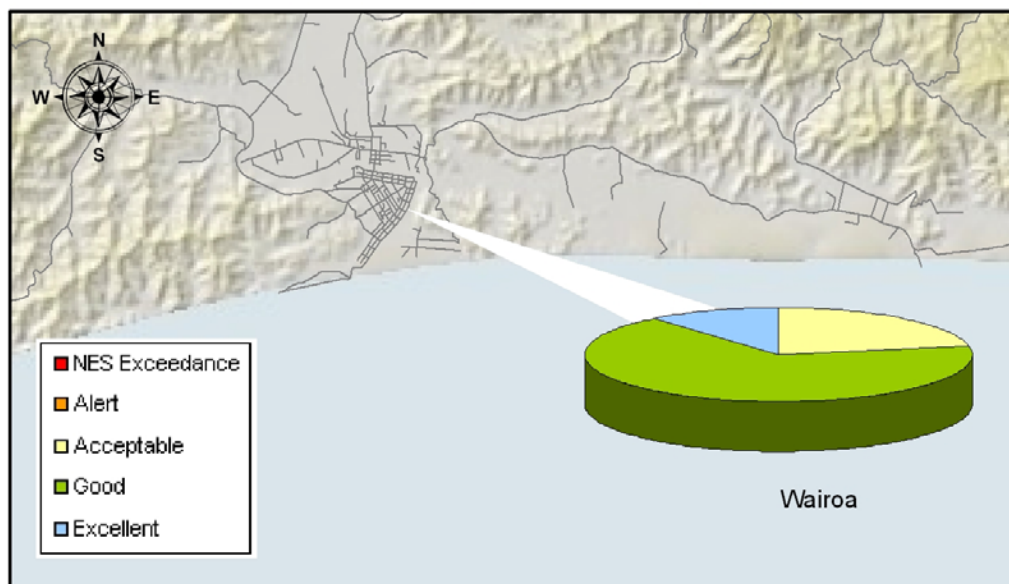
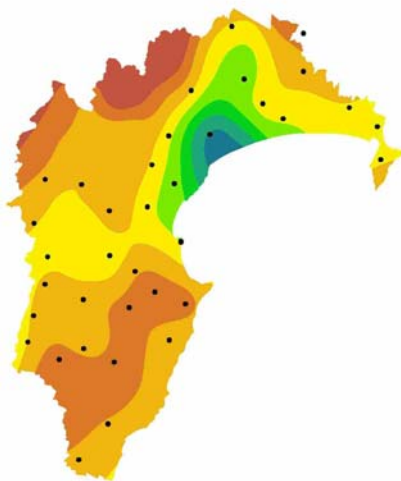
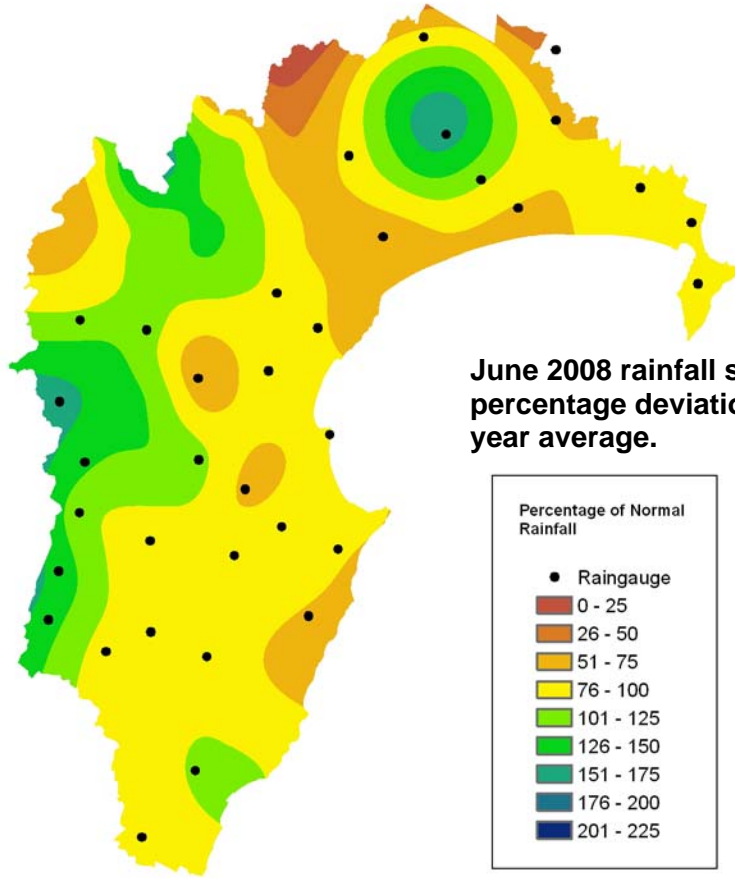


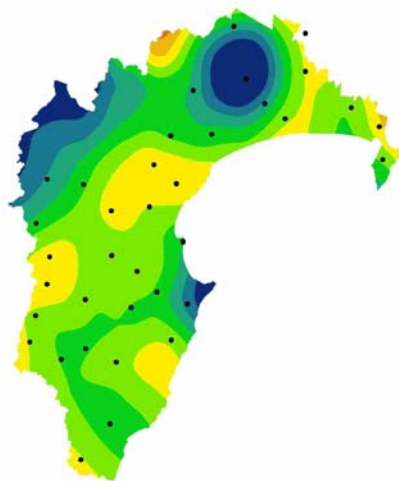
Figure 2: PM10 levels in Wairoa during May 2008.

Rainfall Report

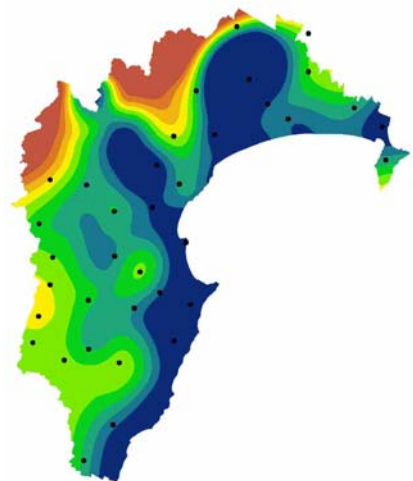
June 2008



MARCH 2008



APRIL 2008



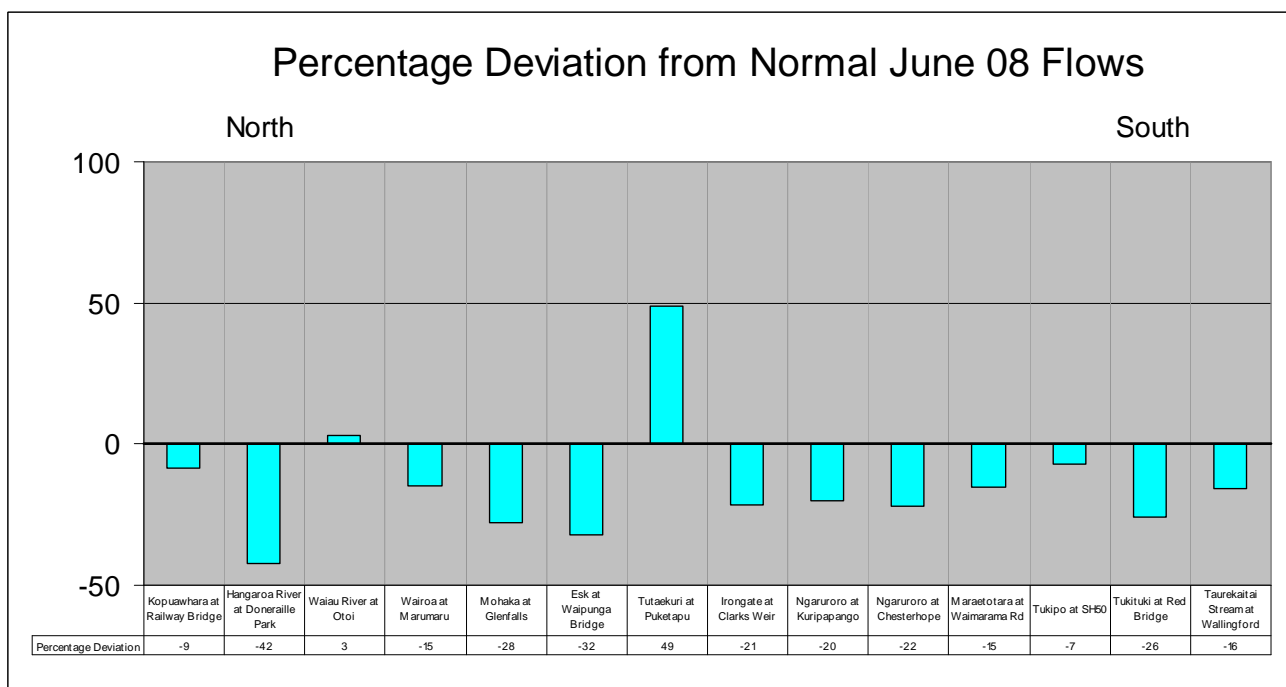
MAY 2008

RAINFALL REPORT FOR JUNE 2008				
Area	Station	Months Total (mm)	Historic Mean (mm)	%Average
Waikaremoana	Terapatiki	111.5	70	159
	Mt Manuoha	247	288	86
	Bushy Knoll	69	179	39
	Upper Waiau	116.5	141	83
	Waikaremoana %			92
Northern Hawkes Bay	Kopuawhara	134	161	83
	Ruakituri	126.5	172	74
	Pukeorapa	241.5	272	89
	Ardkeen	136.5	131	104
	Wairoa	104	143	73
	Kotemaori	125	193	65
	Northern Hawkes Bay %			81
Tangoio	Kaiwaka	84	106	79
	Maunganui	135	145	93
	Waihau	75	121	62
	Glengarry	86	97	89
	Tangoio %			81
Kaweka	Ngahere	248.5	227	109
	Otutu	163	151	108
	Te Koau	216	165	131
	Ngamatea	104	66	157
	Kaweka %			126
Ruahine	Parks Peak	242.5	215	113
	Glenwood	276	198	140
	Moorcock	289.5	211	137
	Ruahine %			130
Heretaunga Plains	Crownthorpe	70.6	66	107
	Awanui	56.5	59	95
	Fred	64.5	71	91
	Ohiti	60.5	85	71
	Keirunga	70.5	75	95
Heretaunga Plains %			92	
Ruatahiwaha Plains	Tapairu Road	54.5	66	83
	Tukipo	71	80	89
	Ongaonga	54.8	69	79
	Gwavas	85.6	98	87
	Ruatahiwaha Plains %			84
Southern Hawkes Bay	Mangaorapa	107.5	133	81
	Waipoapoa	131	187	70
	Wallingford	82	81	102
	Maraetotara	77	93	83
	Southern Hawkes Bay %			84
Hawkes Bay Region				96

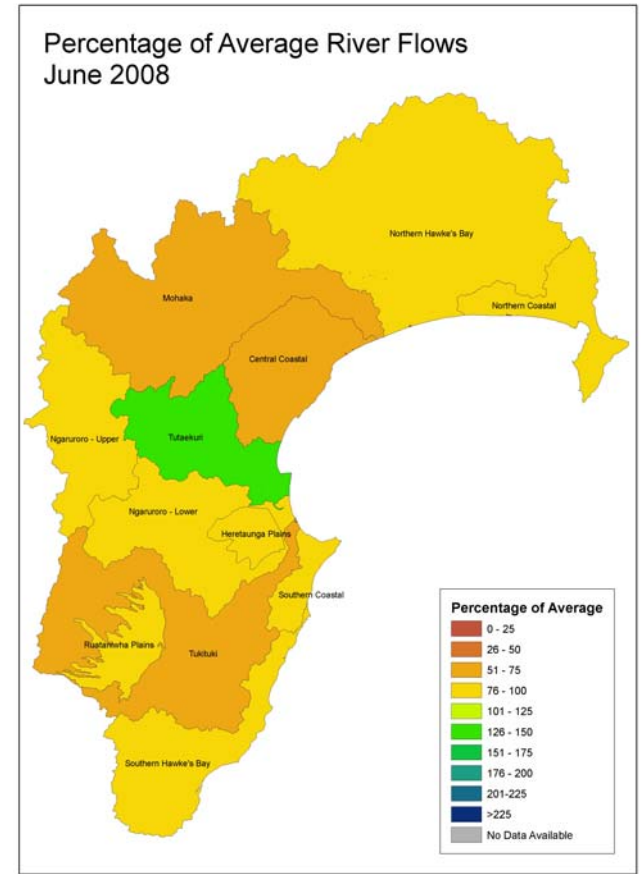
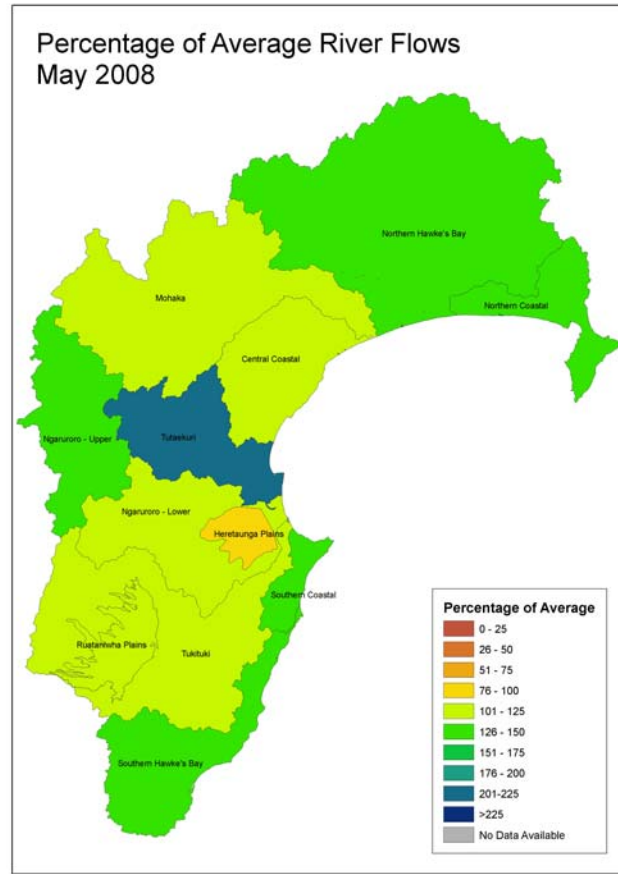
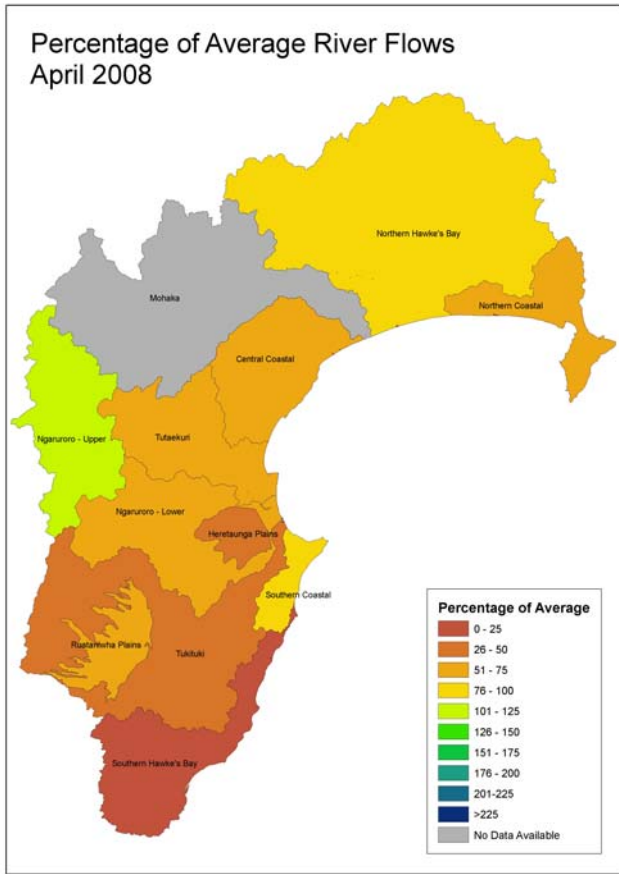
Regional River Flow Pattern June 2008



Area	Site	Flows % of Longterm Mean	Jun Min (m3/s)	Jun Max (m3/s)	Jun Mean (m3/s)	Percentage Deviation
Northern Coastal	Kopuawhara at Railway Bridge	91	1.2	13.9	2.8	-9
Northern Hawke's Bay	Hangaroa River at Doneraille Park	58	3.9	67.9	13.9	-42
Northern Hawke's Bay	Waiau River at Otoi	103	6.0	89.3	28.2	3
Northern Hawke's Bay	Wairoa at Marumaru	85	33.1	481.1	91.5	-15
Mohaka	Mohaka at Glenfalls	72	15.0	87.1	34.0	-28
Central Coastal	Esk at Waipunga Bridge	68	2.6	44.1	4.1	-32
Tutaekuri	Tutaekuri at Puketapu	149	11.6	147.3	23.9	49
Heretaunga Plains	Irongate at Clarks Weir	79	0.3	2.0	0.4	-21
Ngaruroro - Upper	Ngaruroro at Kuripapango	80	7.8	49.5	17.4	-20
Ngaruroro - Lower	Ngaruroro at Chesterhope	78	11.0	122.2	37.6	-22
Southern Coastal	Maraetotara at Waimarama Rd	85	0.7	6.6	1.2	-15
Ruataniwha Plains	Tukipo at SH50	93	0.7	7.5	1.9	-7
Tukituki	Tukituki at Red Bridge	74	16.7	212.3	47.1	-26
Southern Hawke's Bay	Taurekaitai Stream at Wallingford	84	0.6	15.4	3.19	-16

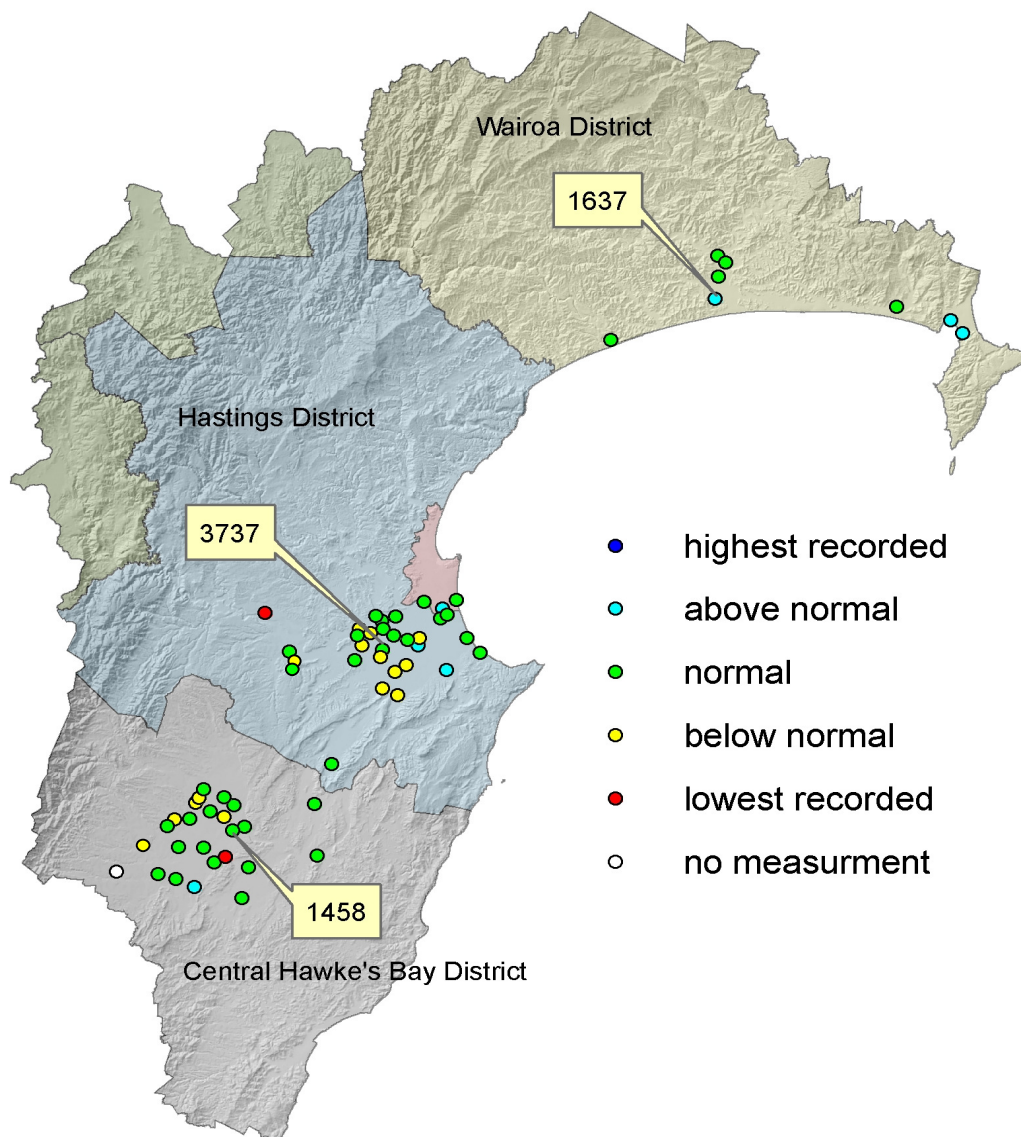


Percentage of Average River Flows for the Hawke's Bay Region - April, May & June 2008:

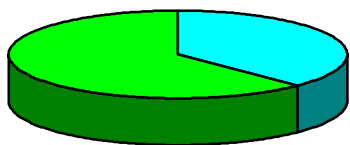


Groundwater Level Report

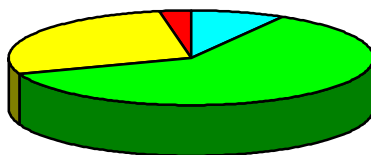
June 2008



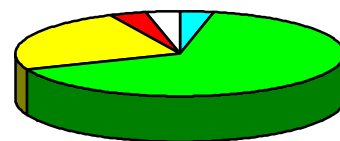
Wairoa



Hastings-Napier



Central Hawke's Bay



% highest recorded	0	0	0
% above normal	38	8	3
% normal	63	61	66
% below normal	0	28	24
% lowest recorded	0	3	3
% measured	100	100	97
number of wells	8	36	29

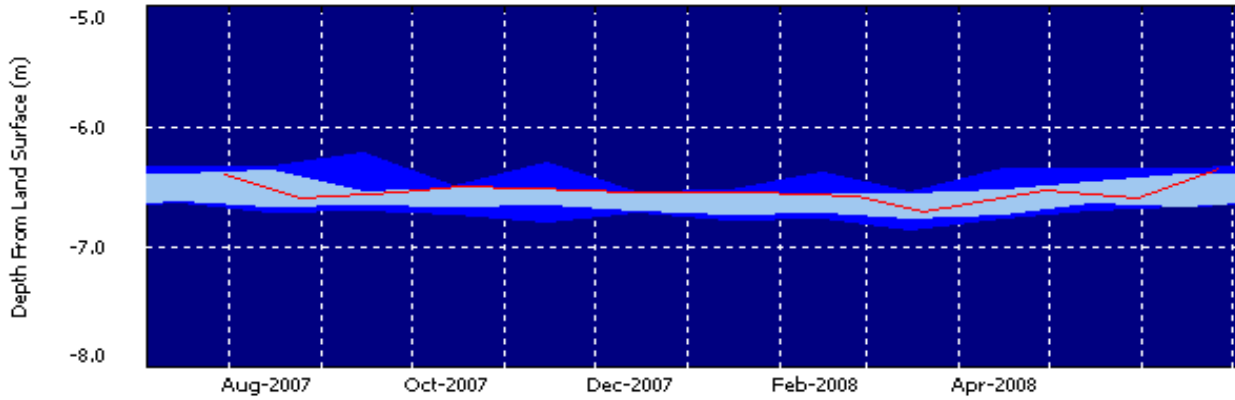
NOTES:

Wairoa District: Mostly normal water levels.

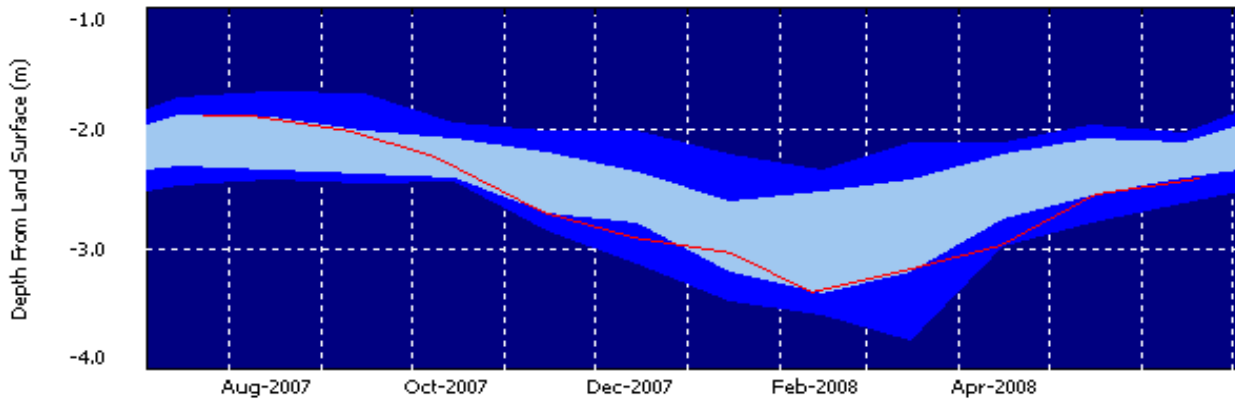
Hastings-Napier District: Normal and below normal water levels.

Central Hawke's Bay District: Mostly normal water levels with some below normal in north Ruataniwha.

Wairoa District - Well 1637



Hastings/Napier District - Well 3737



Central Hawke's Bay District - Well 1458

