

MAY 2011

HAWKE'S BAY

trends

THE STATE OF OUR ENVIRONMENT



MAY SUMMARY

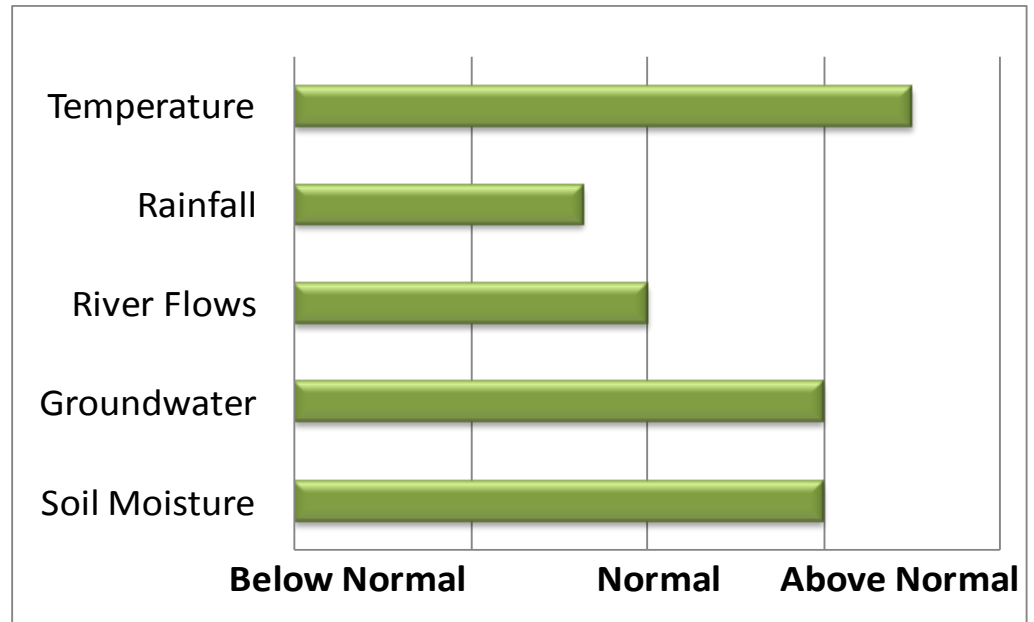
Hawke's Bay Regional Council Science Reporting – May 2011

In this month's report, air quality takes the spotlight, while river flows were still returning to normal levels. We also include a summary of the region's temperatures, rainfall, river flows, groundwater and soil moisture levels.

Data and images are provided by Hawke's Bay Regional Council. Please contact us for more information.

www.hbrc.govt.nz

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Summary information in this report reflects regional averages. Specific situations between catchments will vary and more in-depth information is available on Council's website.

June Forecast (Metservice/NIWA):

Temperature	Above average
Rain	Near normal
River flows	Near normal
Soil moisture	Near normal

TEMPERATURES

Temperatures – above normal

May averages in most places were about the same or slightly warmer than April

Mean Difference from Normal

Maximum Temperature: 1.8°C

Minimum Temperature: 2.1°C

Mean Daily Maximum: 17 °C

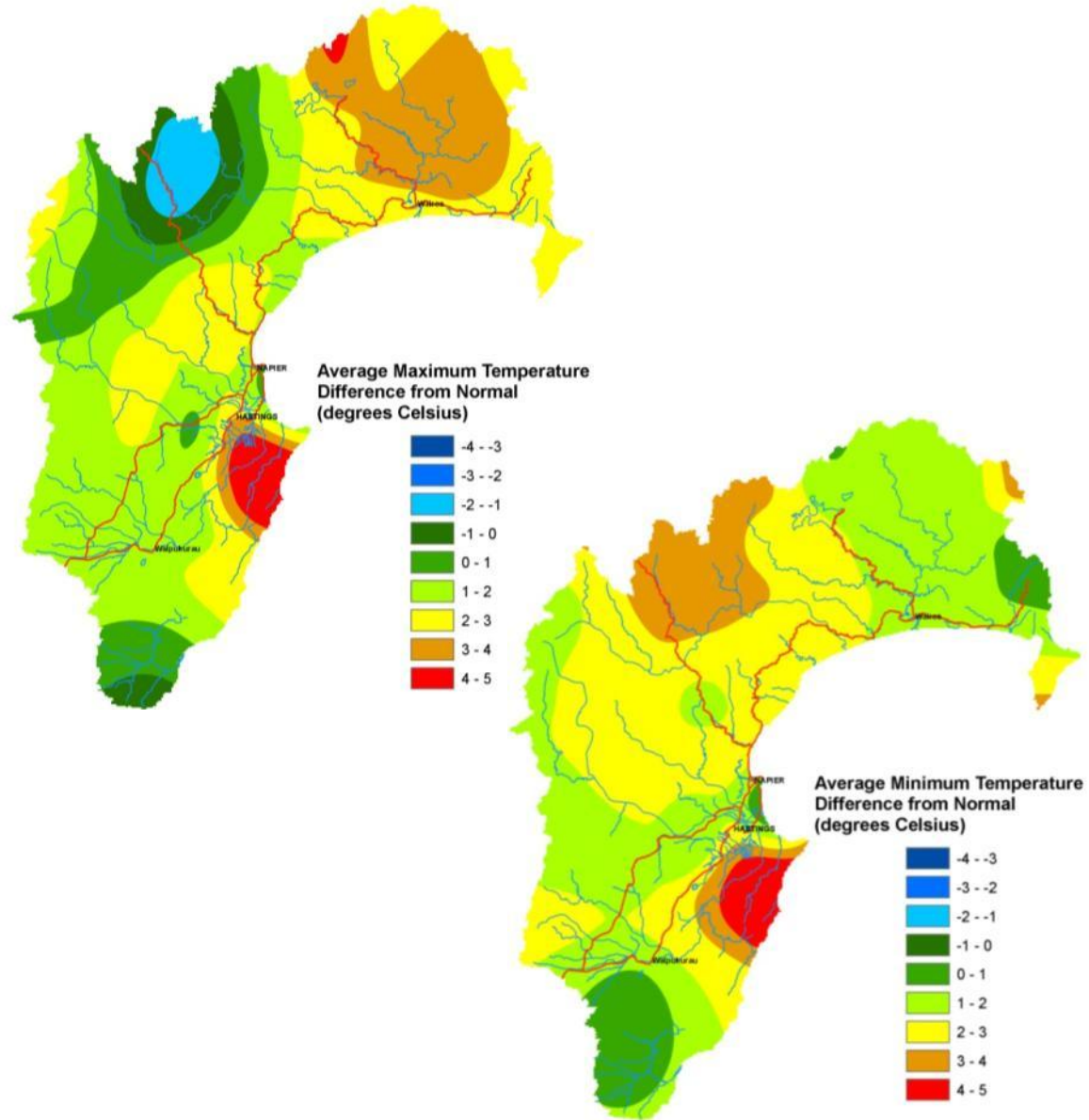
Mean Daily Minimum: 8.2°C

Highest Daily: 24.6°C

Location: Hastings

Lowest Daily: - 4.6°C

Location: Taharua

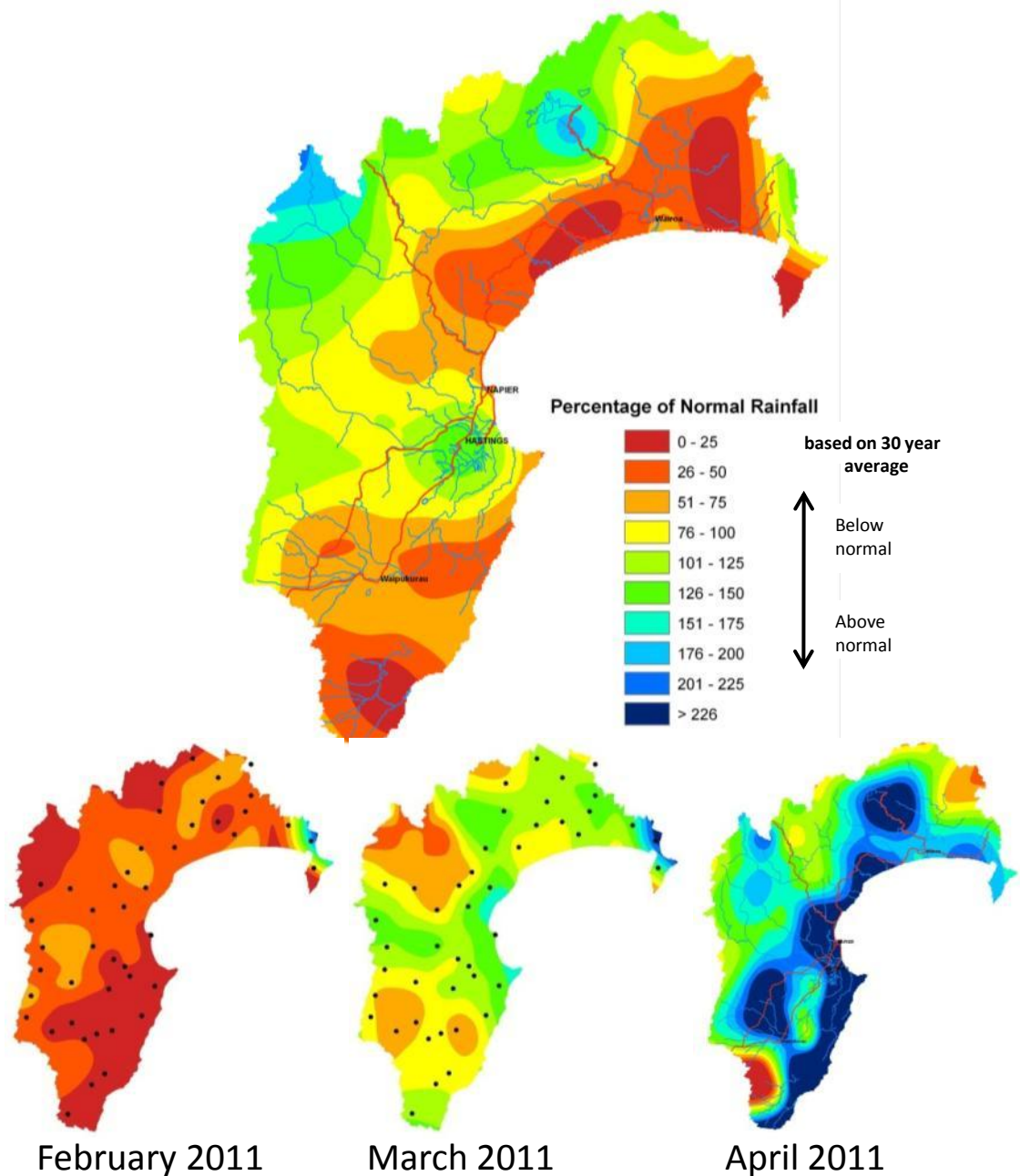


RAINFALL

May Rainfall – about to below normal

Percentage of normal May rainfall (30 year average) for areas within the region:

Waikaremoana	120%
Northern HB	48%
Tangoio	58%
Kaweka	110%
Ruahine	105%
Heretaunga Plains	108%
Ruataniwha Plains	61%
<u>Southern HB</u>	<u>49%</u>
Hawke's Bay region	82%

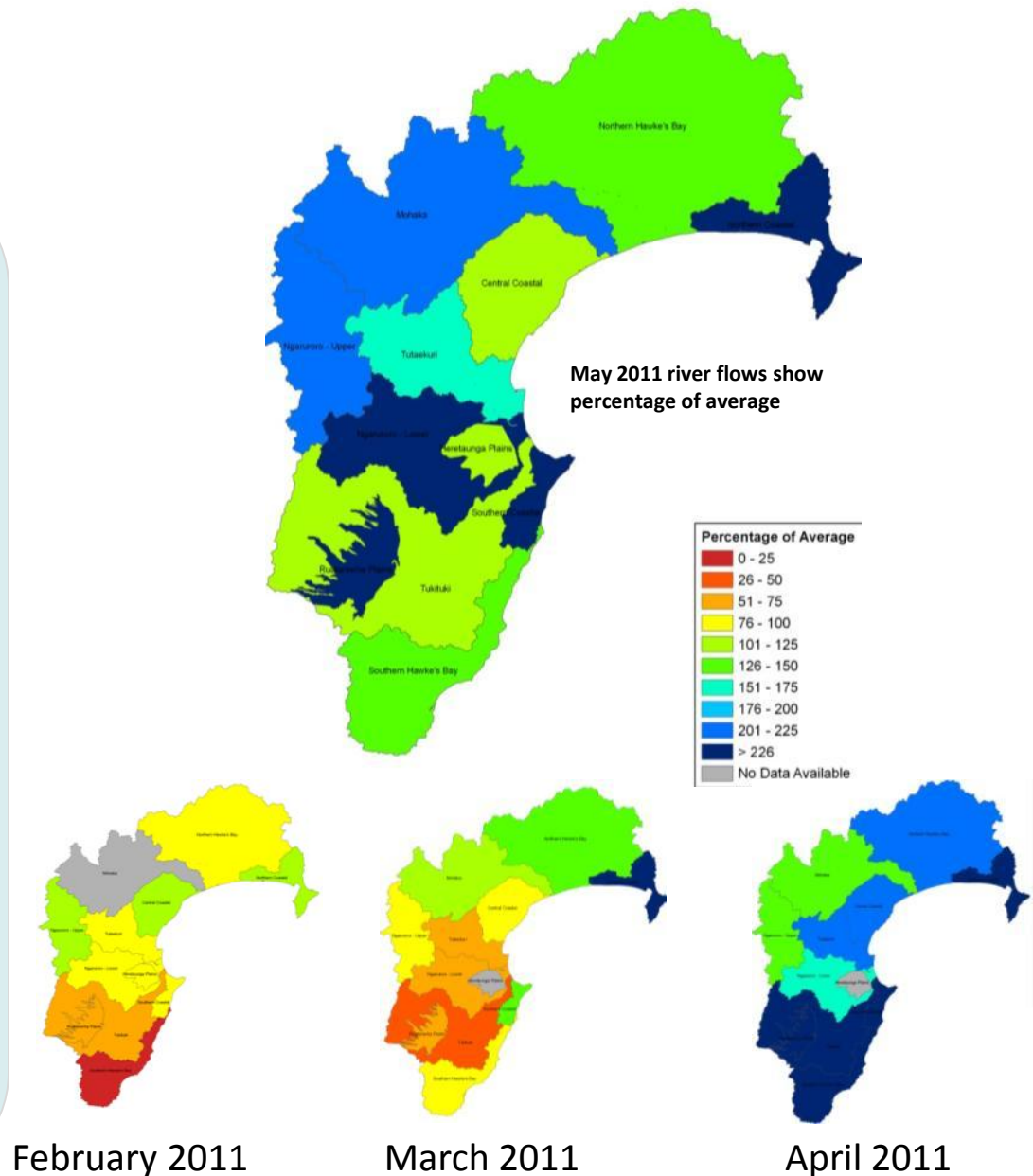


RIVER FLOWS

May Rivers – high flows in some catchments reducing from flood event

Percentage of normal May flows for areas in the region:

Northern Coastal	225%
Northern HB	33%
Mohaka	119%
Central Coastal	10%
Tutaekuri	67%
Heretaunga Plains	19%
Ngaruroro-Upper	113%
Ngaruroro-Lower	131%
Southern Coastal	158%
Ruataniwha Plains	198%
Tukituki	19%
Southern HB	45%



GROUNDWATER & SOIL

GROUNDWATER

Heretaunga basin

Mostly normal to above normal

Ruataniwha basin

Mostly normal to above normal

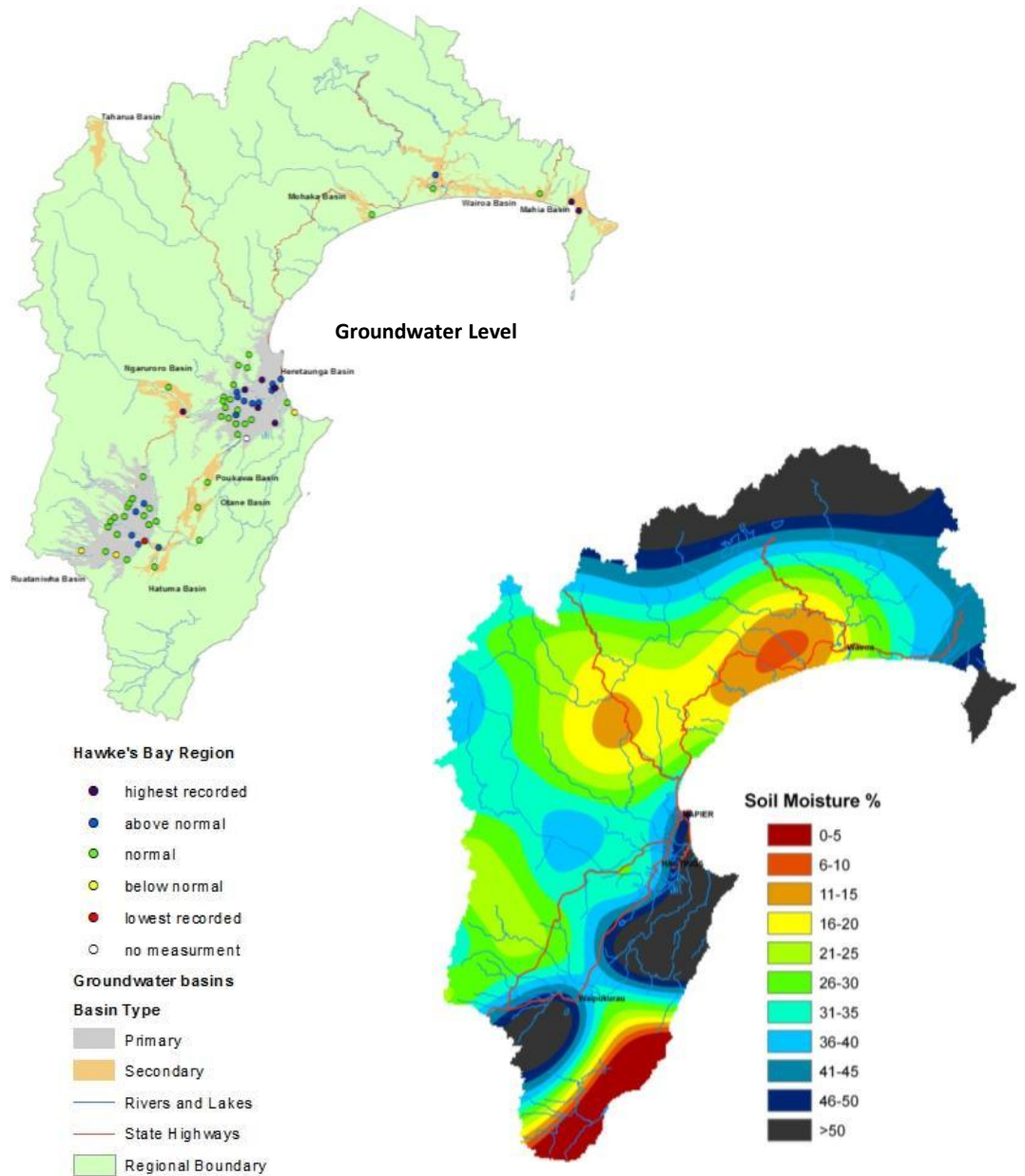
Secondary basins

Mostly normal to above normal

SOIL MOISTURE

Near to above normal

(compared to the last 5 years)



AIR QUALITY

Monitoring in the Hastings & Napier airsheds

There were 5 PM₁₀ exceedences during May, all in Hastings.

- 5 exceedences in Hastings is the highest since 2008 (with 8)
- Napier hasn't had any exceedences in May since 2007

The monitoring sites are at:

- St Johns College, Hastings
- Marewa Park, Napier

The NES or National Environmental Standard for particulate matter (PM₁₀) triggers an exceedence at 50 micrograms per cubic metre over a 24 hour average.

