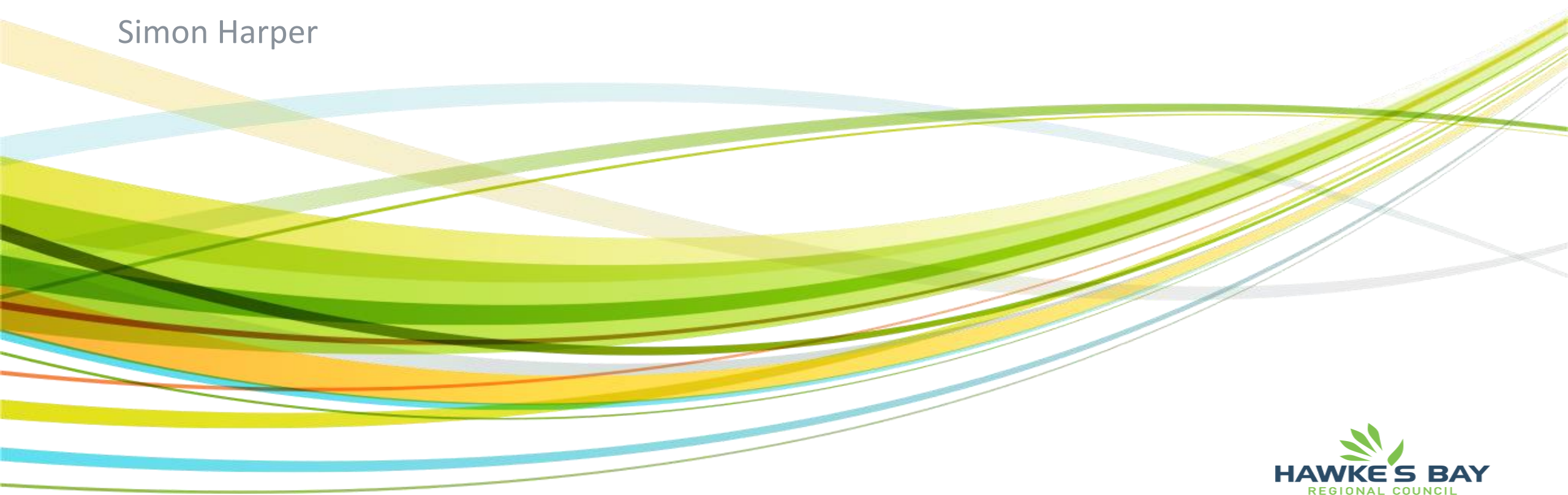


# Climate Briefing 10th October 2019

## October Groundwater levels

Simon Harper



# Outline

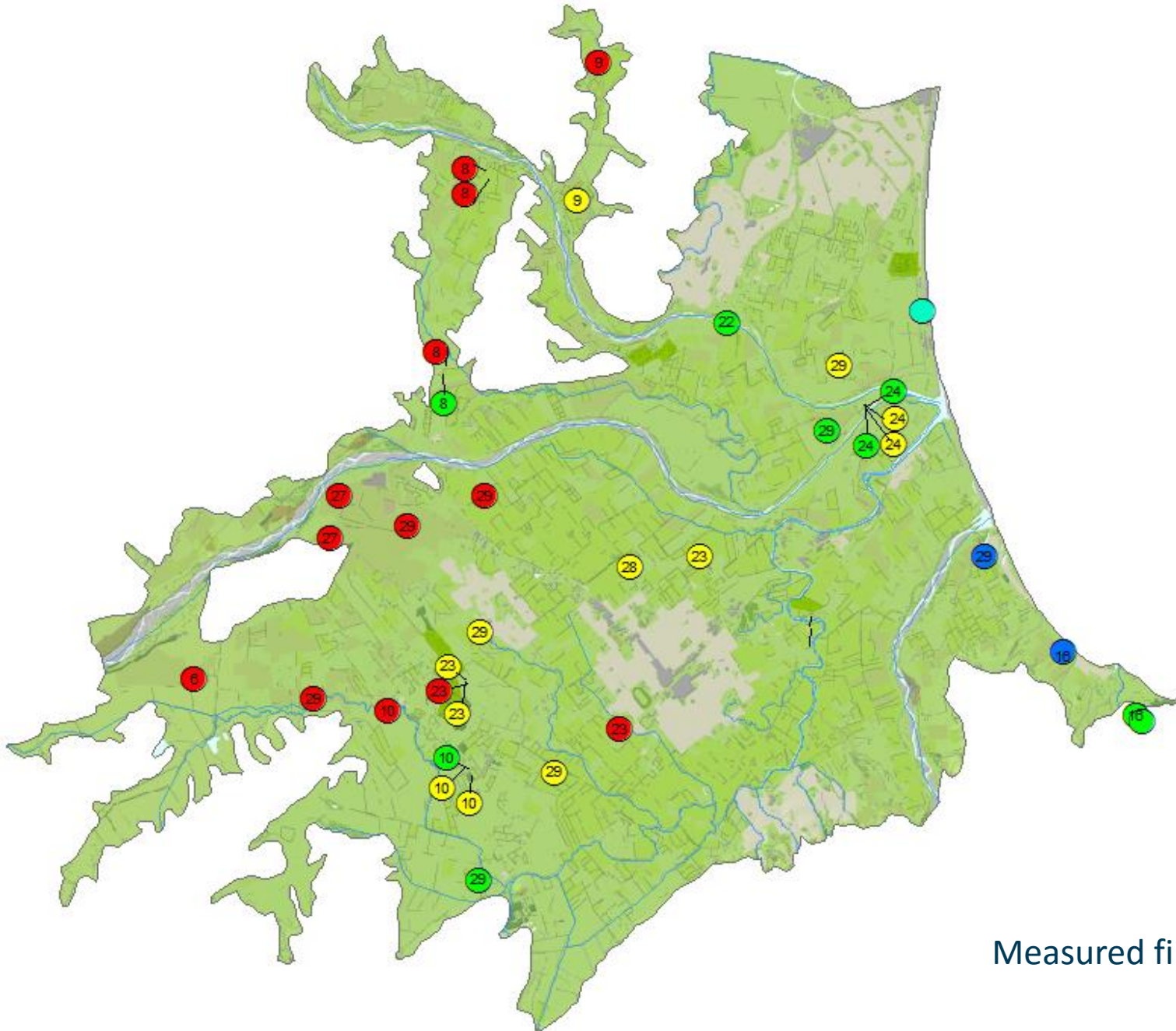
1. Summary of current groundwater level conditions up to the start of October 2019
2. Summary of groundwater level conditions since January for the Heretaunga and Ruataniwha Plains

# Heretaunga Plains Groundwater Level Conditions

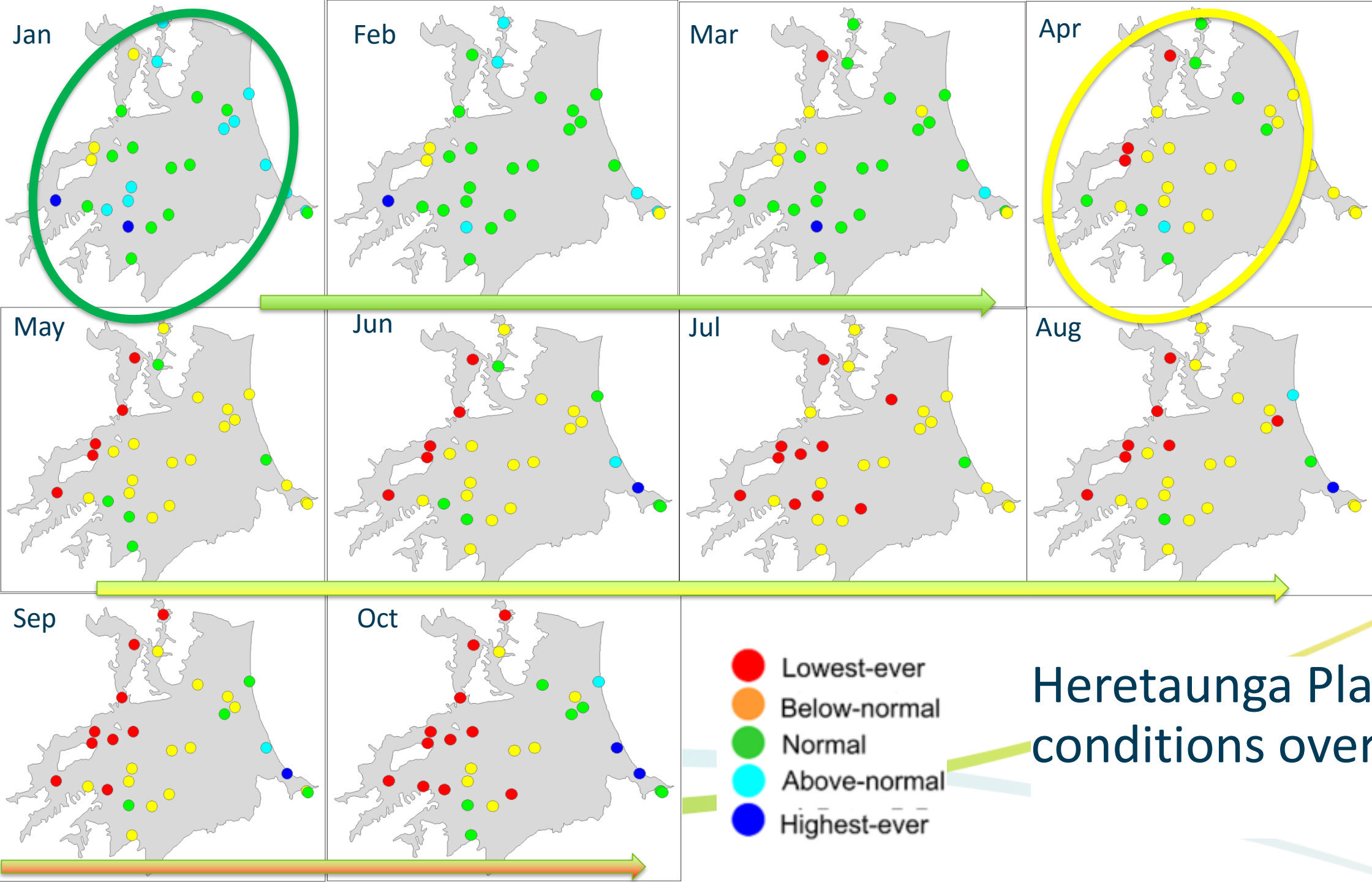
## October

### Legend

- highest recorded
- above normal
- normal
- below normal
- lowest recorded
- 12 Years of monitoring

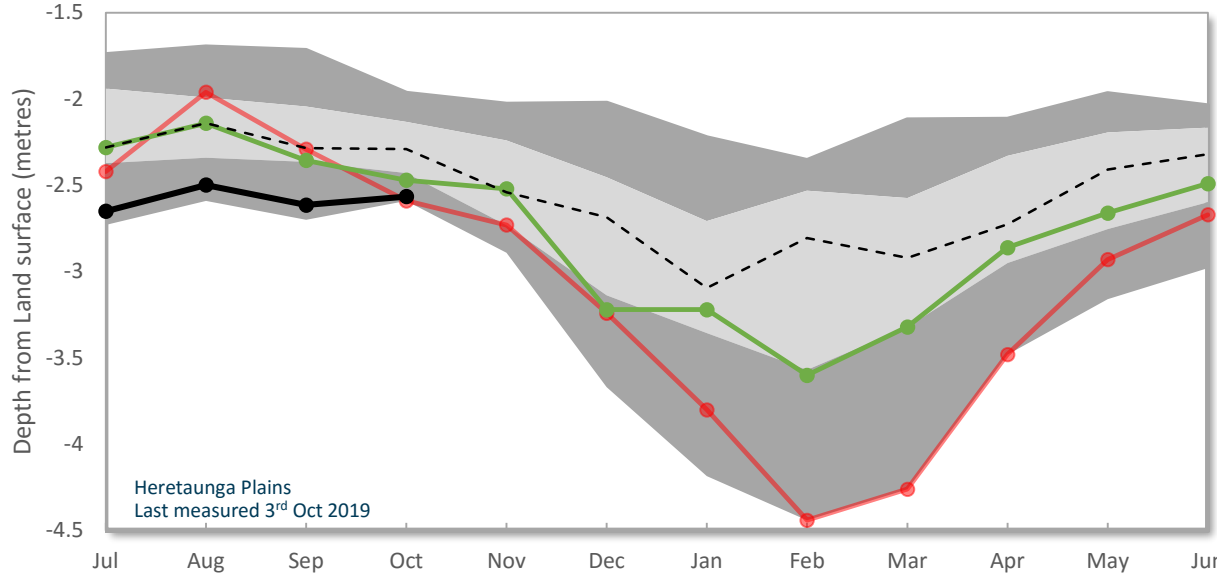


Measured first week of October

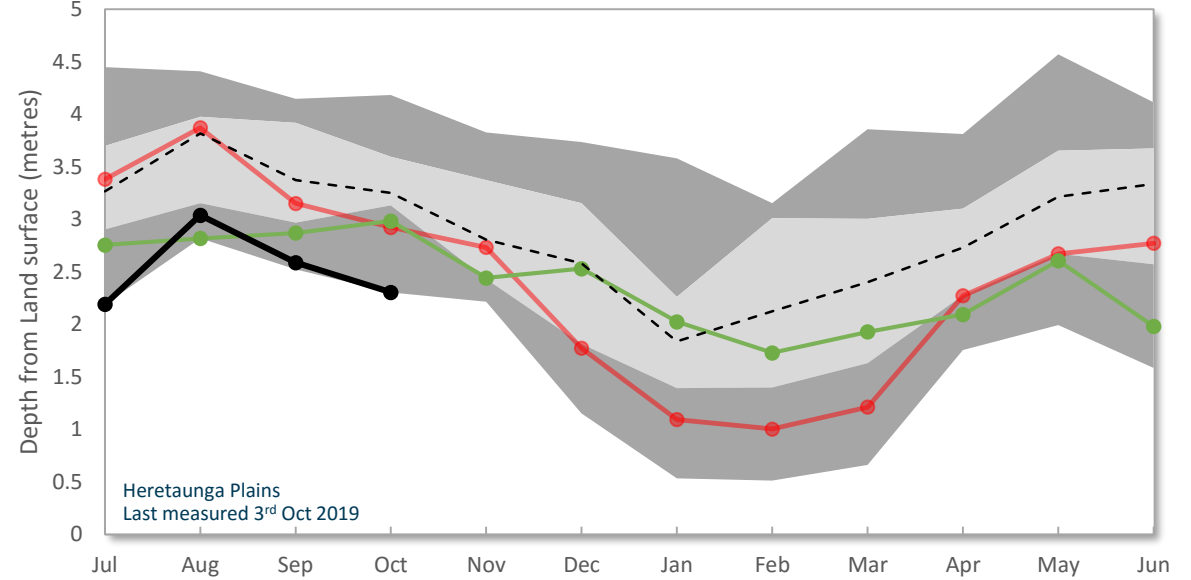


Heretaunga Plains WL conditions over 2019

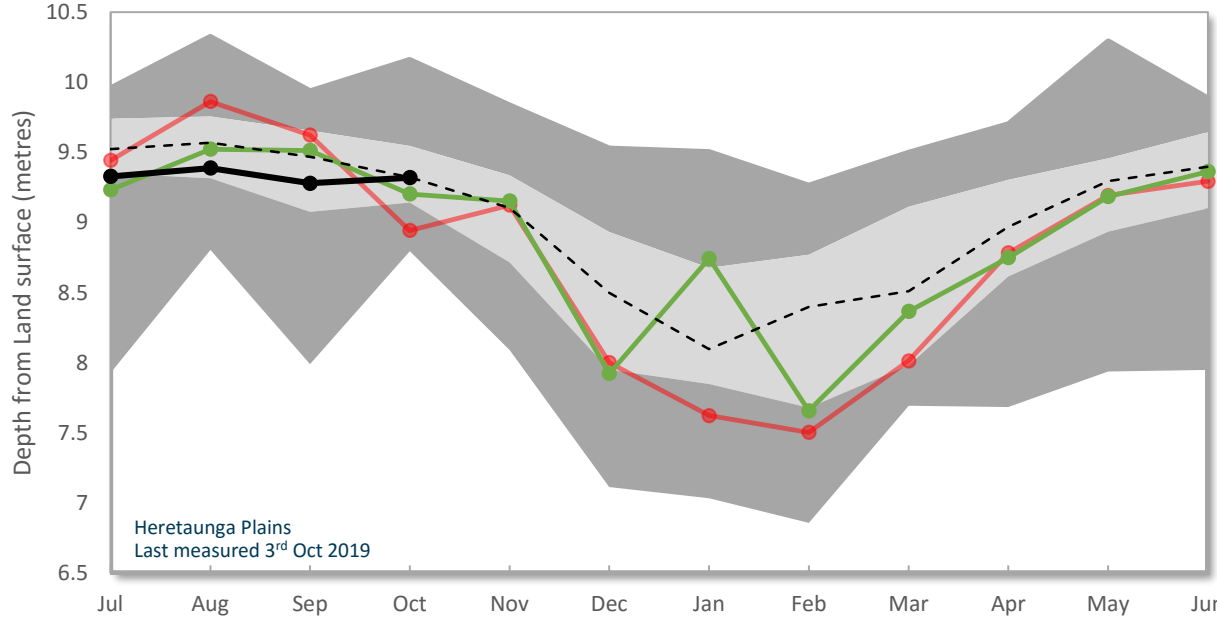
Well 3737 Unconfined Zone, Flaxmere, 30m *1974 - Current*



Well 3697 Confined Zone, SE Hastings, 90m *1996 - Current*



Well 1450 Confined Zone, Awatoto, 50m *1992 - Current*



- Normal range (b/w 25th & 75th %iles)
- Above or below range (> 75th & <25th %iles)
- Median
- Current levels
- 2018-2019 levels
- 2012-2013 levels

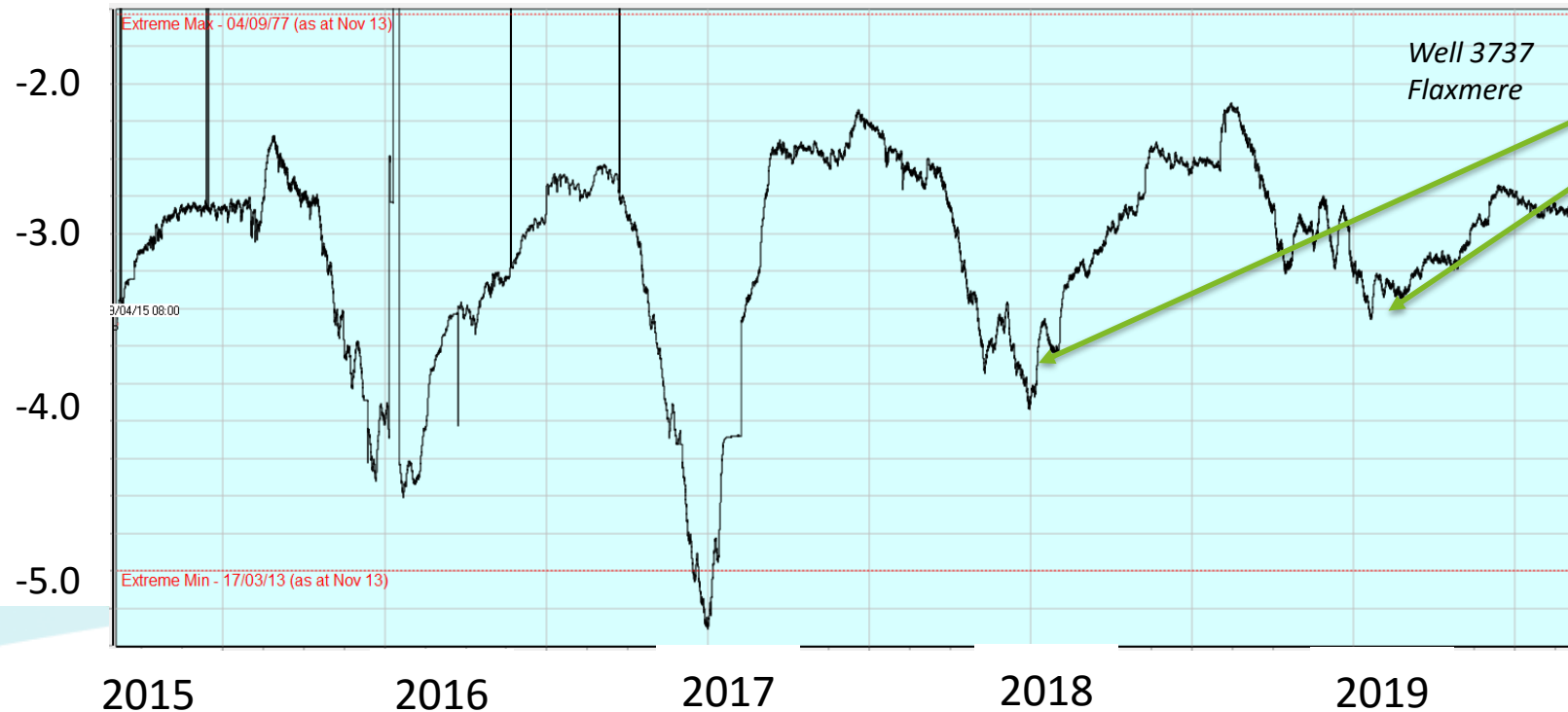
# Heretaunga Plains

Groundwater levels (meters below land surface)



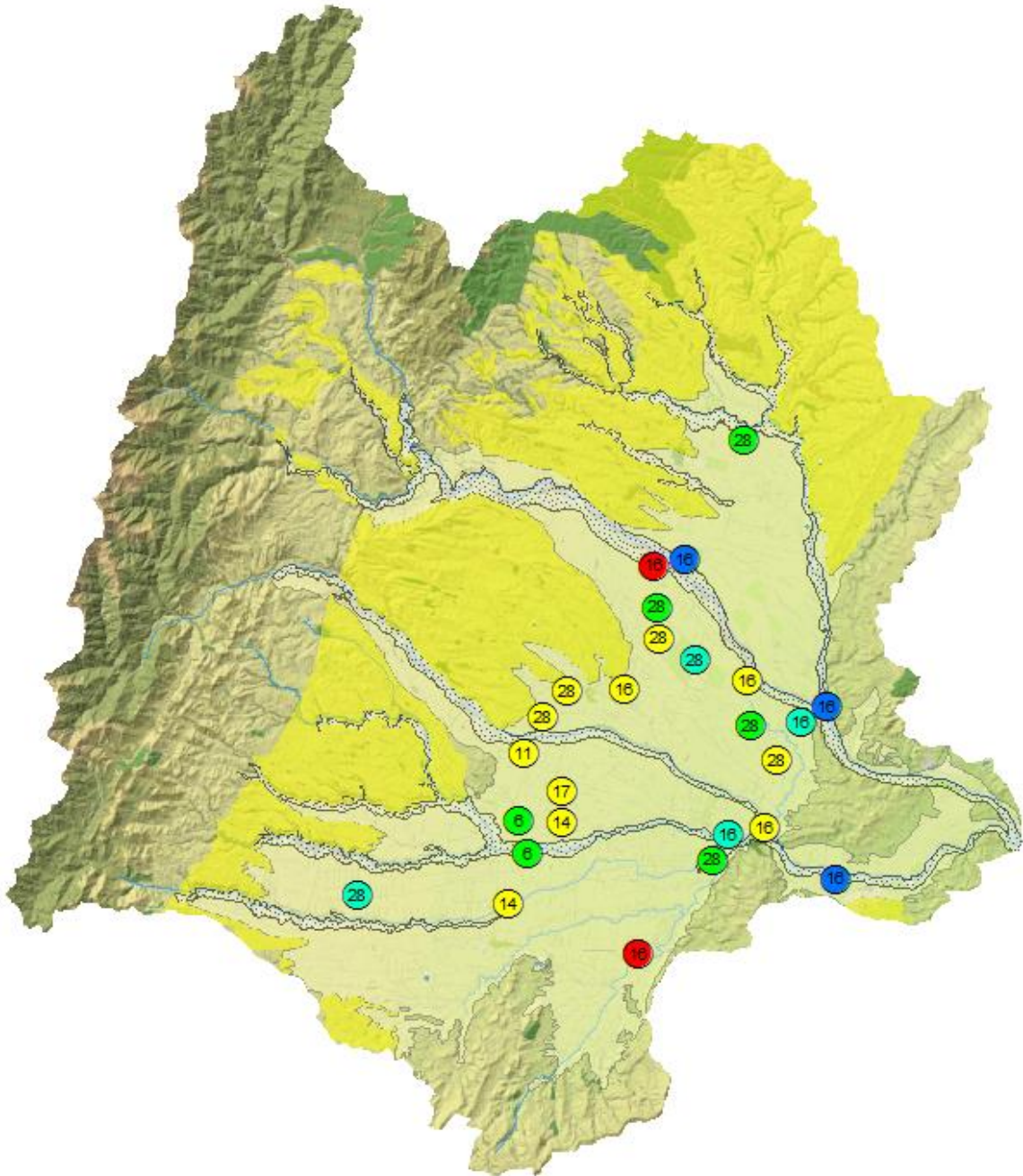
Below normal  
winter water levels

Above normal  
summer water levels



Last measurement date 9th October 2019

# Ruataniwha Plains Groundwater Level Conditions

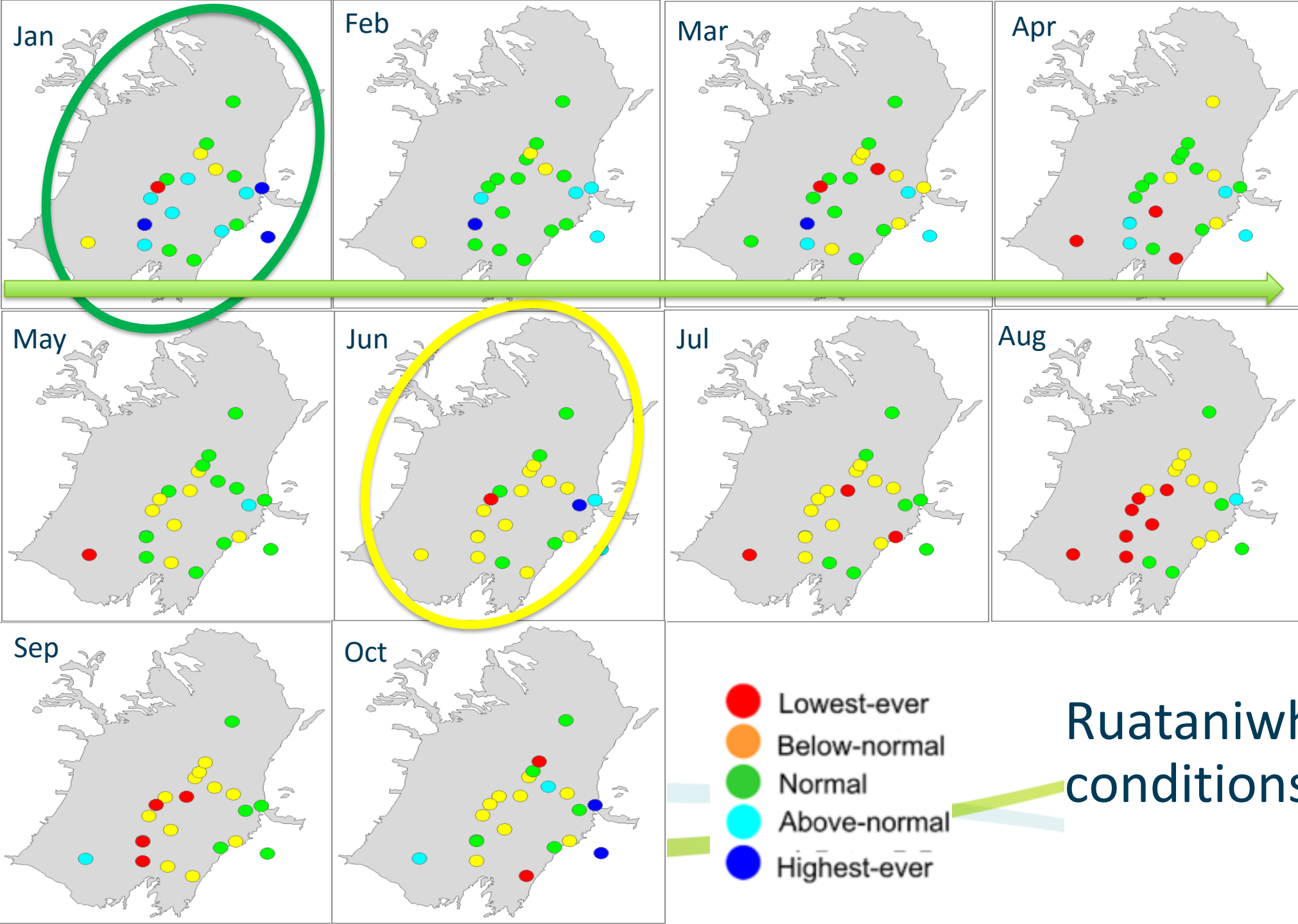


## October

### Legend

- highest recorded
- above normal
- normal
- below normal
- lowest recorded
- 12 Years of monitoring

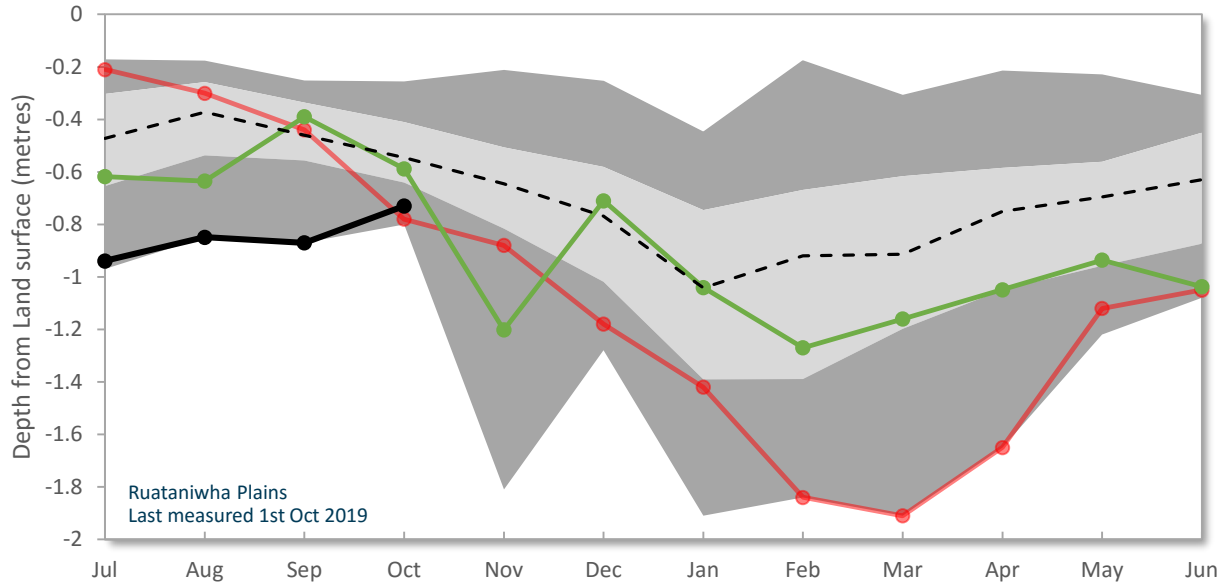
Measured first week of October



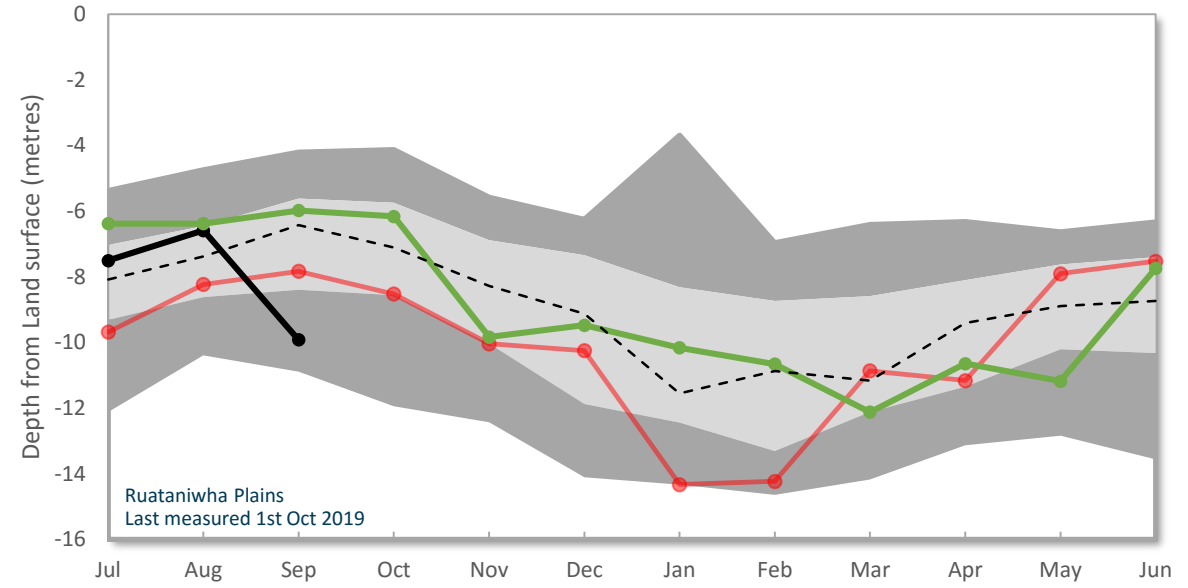
Ruataniwha Plains WL conditions over 2019



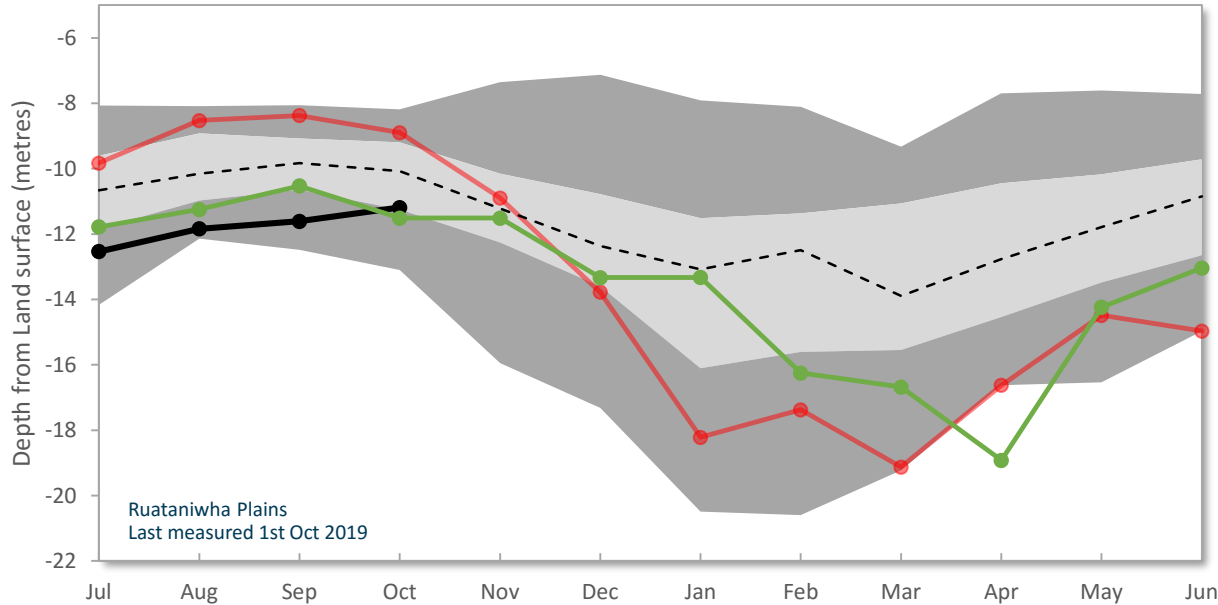
Well 1458 lower Rutaniwha Plains, Pananui, 30m  
1974 - Current



Well 6719 Takapau, Mr Apple, 88m  
1996 - Current

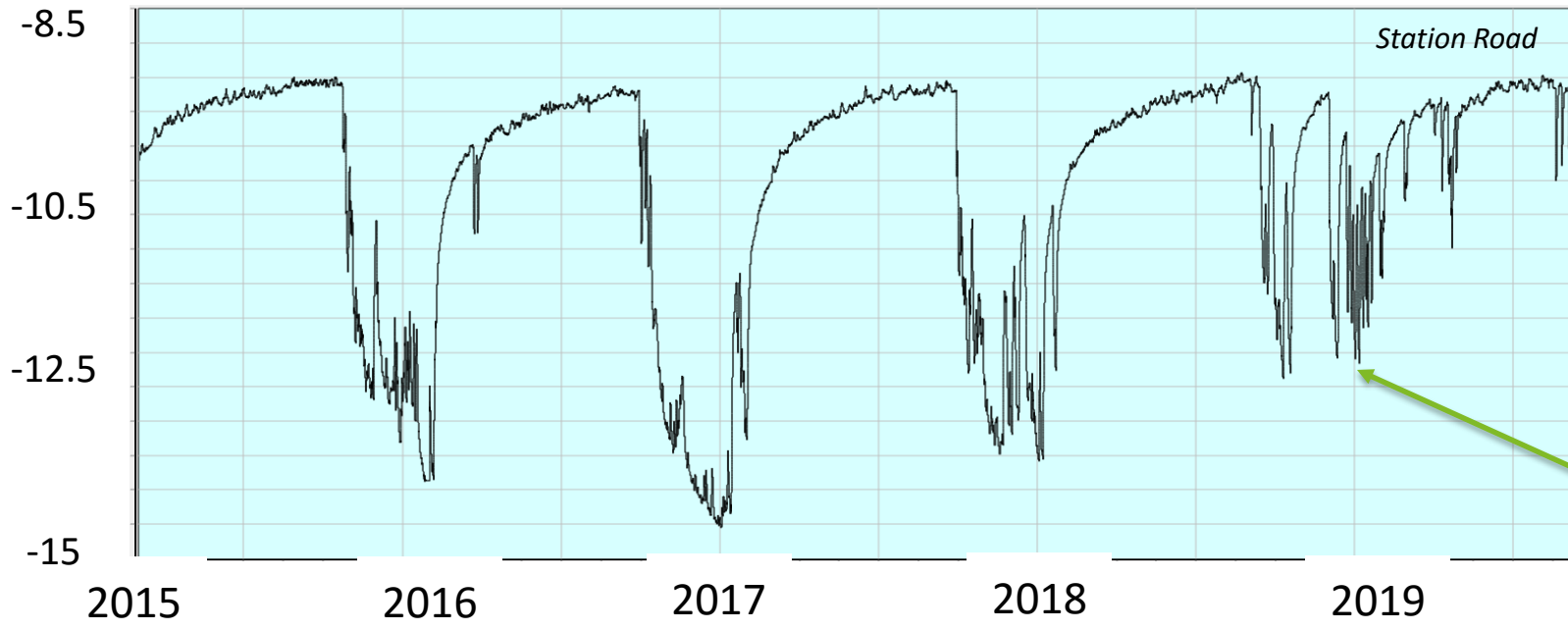


Well 2220 upper Ruataniwha Plains, Mr Apple, 90m  
1992 - Current



- Normal range  
(b/w 25th & 75th %iles)
- Above or below range  
(> 75th & <25th %iles)
- Median
- Current levels
- 2018-2019 levels
- 2012-2013 levels

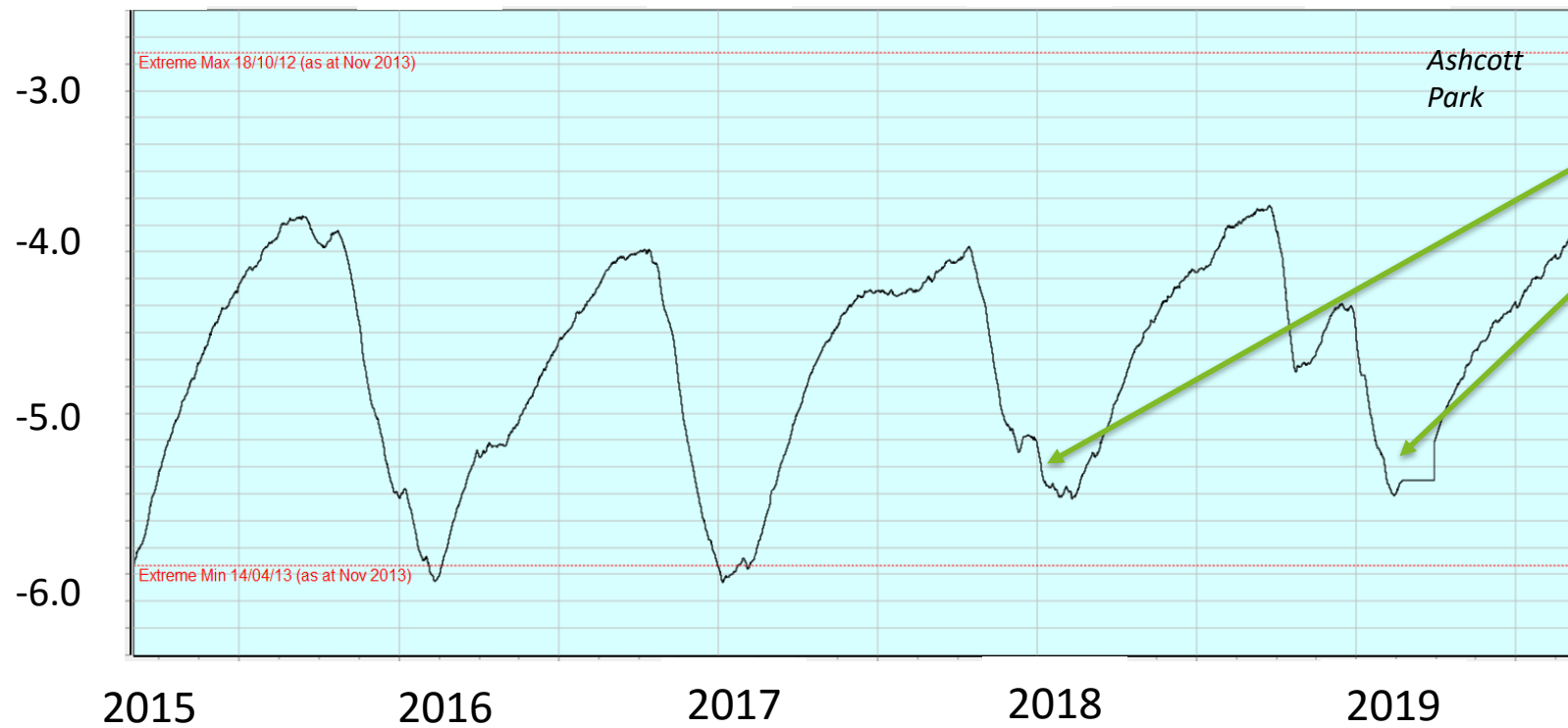
Groundwater levels (meters below land surface)



# Ruataniwha Plains

Not irrigating yet

high summer water levels



*Last measurement date 01st October 2018*

## Summary

1. Groundwater levels were above normal last summer but have been below normal since the end of autumn.
2. Low rainfall and river flows have been contributing factors
3. Groundwater levels will begin their seasonal declines through to about February/March
4. Although groundwater level conditions are low they can change quickly. Its too early to predict summer conditions.

Additional slides

