

Season Review

24-Jan-2017

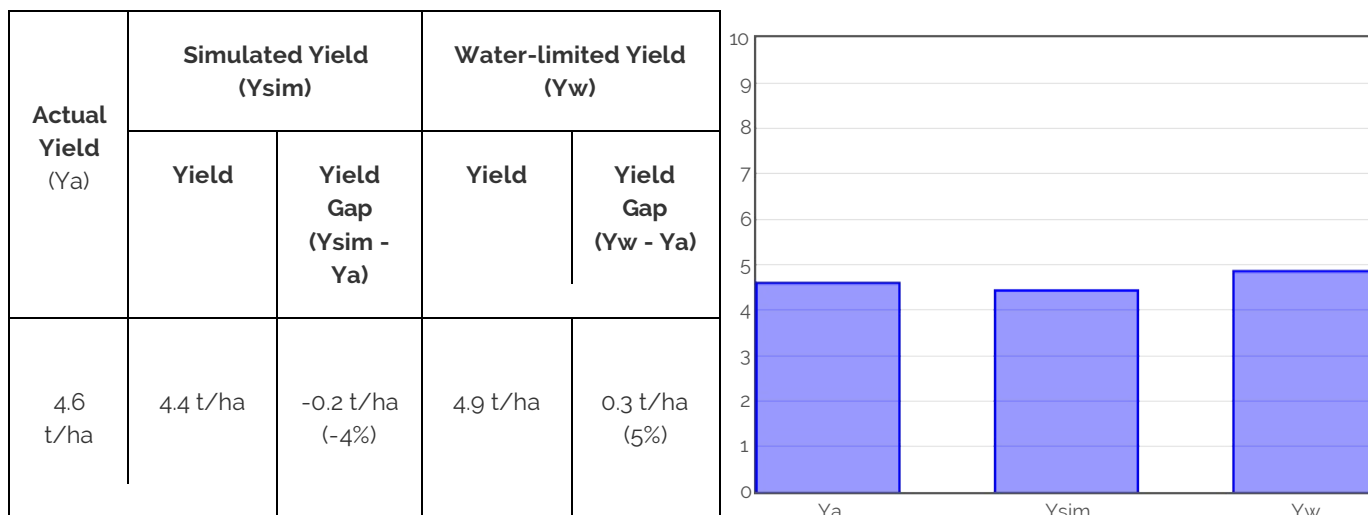
Toni Nugent: Graham Centre Field Site

Grower	Paddock	Crop	Sowing Date
Toni Nugent	Graham Centre Field Site	Gregory Wheat	14-May

Crop Water and Nitrogen Supply

Water		Nitrogen	
Starting Soil Water (PAW)	14.6 mm	Starting Soil Nitrogen	89 kg/ha
Rainfall (soil sampling [2-Mar] to Maturity)	724.1 mm	Plus applied Nitrogen	82 kg/ha
Less modelled Evaporation	258.8 mm	Plus modelled Mineralisation	14 kg/ha
Less modelled Run-off	56.9 mm	Less modelled Denitrification	22 kg/ha
Less modelled Drainage	161.3 mm	Less modelled Leaching	5 kg/ha
Less modelled Transpiration	159.1 mm	Crop Nitrogen Supply	158 kg/ha
Crop Water Remaining	102.6 mm	Nitrogen Remaining	20 kg/ha

Comparison of paddock yield (Ya), simulated yield (Ysim) and water limited yield (Yw)



Yield Prophet is showing a Yield Gap of -0.2t/ha between your actual paddock yield and your simulated yield. Yield Prophet recorded 0 mild, 0 moderate, and 0 severe frost events and 0 mild, 0 moderate, and 0 severe heat shock events on your paddock. Yield Prophet has simulated a 0t/ha effect from these events. This leaves a production gap of -0.2t/ha.

It is good practice to review your crop performance against its potential. Were there other factors that may have had an effect on your achieved yield (e.g. weeds, pests, and diseases)?

Yield Prophet is showing a total yield gap (Yw - Ya) of 0.3t/ha. Yield Prophet has simulated that 0.4t/ha of this gap is a result of insufficient nitrogen.

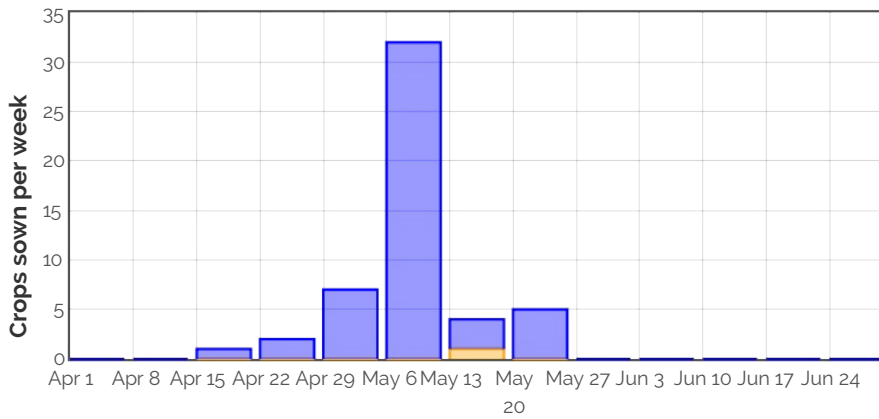
Benchmarking your crop

Water Use Efficiency (French and Schultz)

Your calculated crop water use efficiency (WUE) is 7.2kg/mm assuming $WUE = \text{Yield} / \text{Water Use (Transpiration)}$.

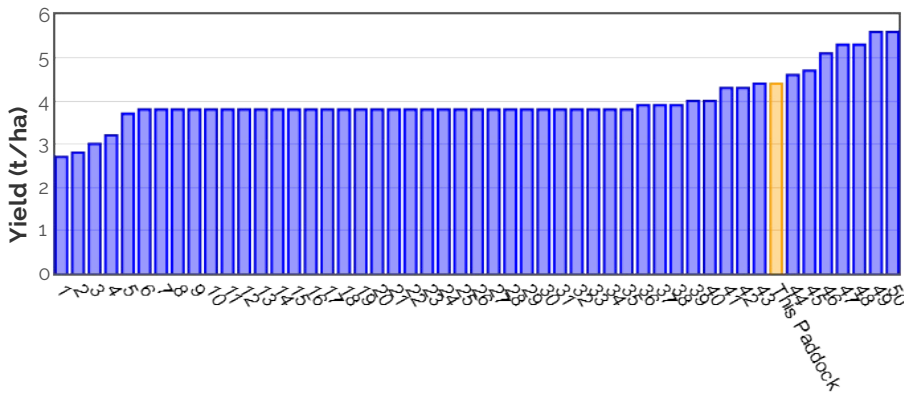
Sowing Time

Within a 90km radius of your crop there were 50 Wheat crops in Yield Prophet. Your paddock was sown on 14-May which sits in the last quarter of Wheat crops sown in your district.



Simulated Yield

Your crop's simulated yield (Ysim) was 4.4t/ha. This yield is in the top 10% of crops in the district.



Simulated Yield by sowing time

