

Dual Purpose & Dual Use Long Season Wheat Trial Results

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Program overview by SCF CEO, Christine Kershaw.

Fit for Dual Purpose and Dual Use Long Season Wheat Project

CBH funds and Royalties for Regions GG R&D funds – “SCF Fit for Dual Purpose Dual Purpose Wheat” \$325,000 (R4R) 3 years) +\$30,000 (CBH 2 years).

Key Messages

- Yield premium for Long season wheat varieties April sown vs May sown was 920 Kg/Ha
- SCF dual purpose/dual use long season HRZ wheat production package is being upgraded with each year’s research and case studies (2016-2019)
- Product testing for flour blend characteristics and feed qualities such as metabolisable energy in progress
- CBH trial offer for dual purpose/dual use long season wheat

Developing the SCF Long Season SCF dual purpose & dual use HRZ Wheat production package:

Of the standard dual-purpose winter wheat varieties Naparoo has achieved high head density and grain yields while Revenue and Manning were disappointing. The longer season spring wheat varieties in Sun-Lamb, Cobalt and Trojan also had high yields. A summary of harvest grain yields x quality results is below or attached. Lab. testing of all varieties for product characteristics is being undertaken with CBH at AGC and also the Agricultural Institute at Wagga Wagga. In 2017 we are adding DS Pascal (Sprout Resistant on order from David Clegg –Seed-Net) and Cobalt to varieties being tested in the broad-scale trials this 2017 season and dropping Revenue.

Results 2016 Trials

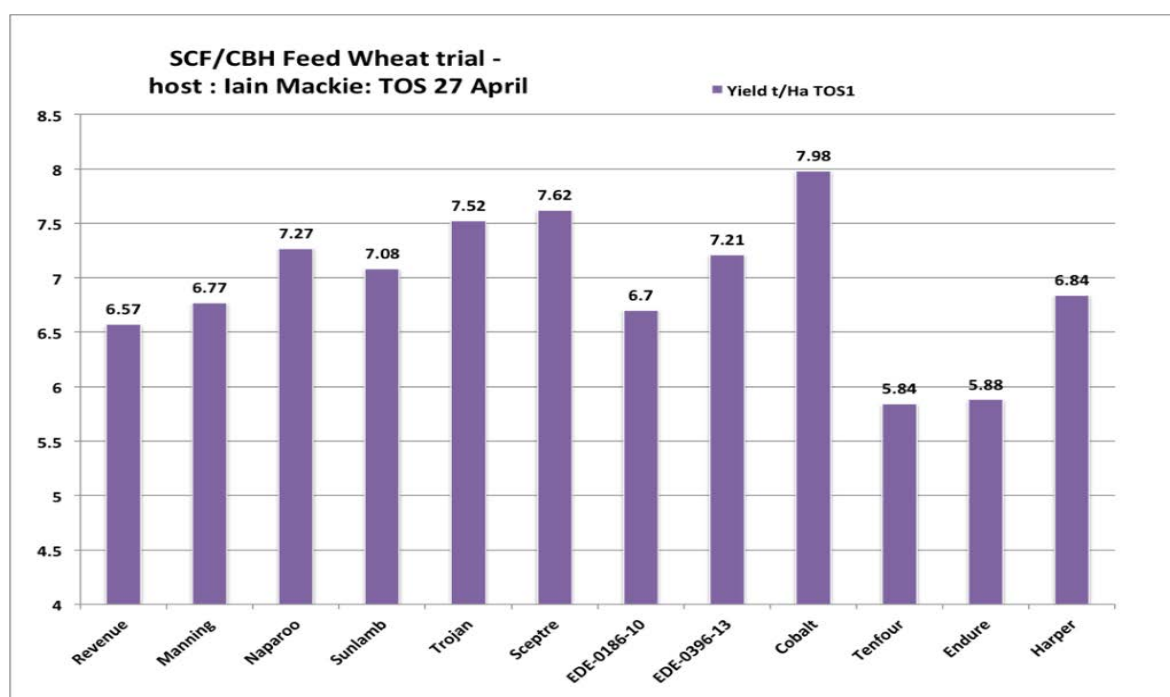


Figure 1: Intensive trial (small plots) Dual purpose Wheat– Host: Iain Mackie, Red Gum Farm, Kendenup (Kalyx contract).



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More detailed analysis to be included on SCF website.

Note: Scaling up trial results – small plots need >15% yield discount over 200m plots



Image 1: Small plot trial at Iain Mackie's, Kendenup.

John Howard's Long Season Wheat trial 2016



Image 2: John Howard's long Season Dual Use Wheat trial - October 2016; Trials were hosted by Mark Adams, John Howard, Andrew Slade, Jeff Stoney and Iain Mackie and include testing of the dual-purpose wheat varieties with grazing treatments on two trial.

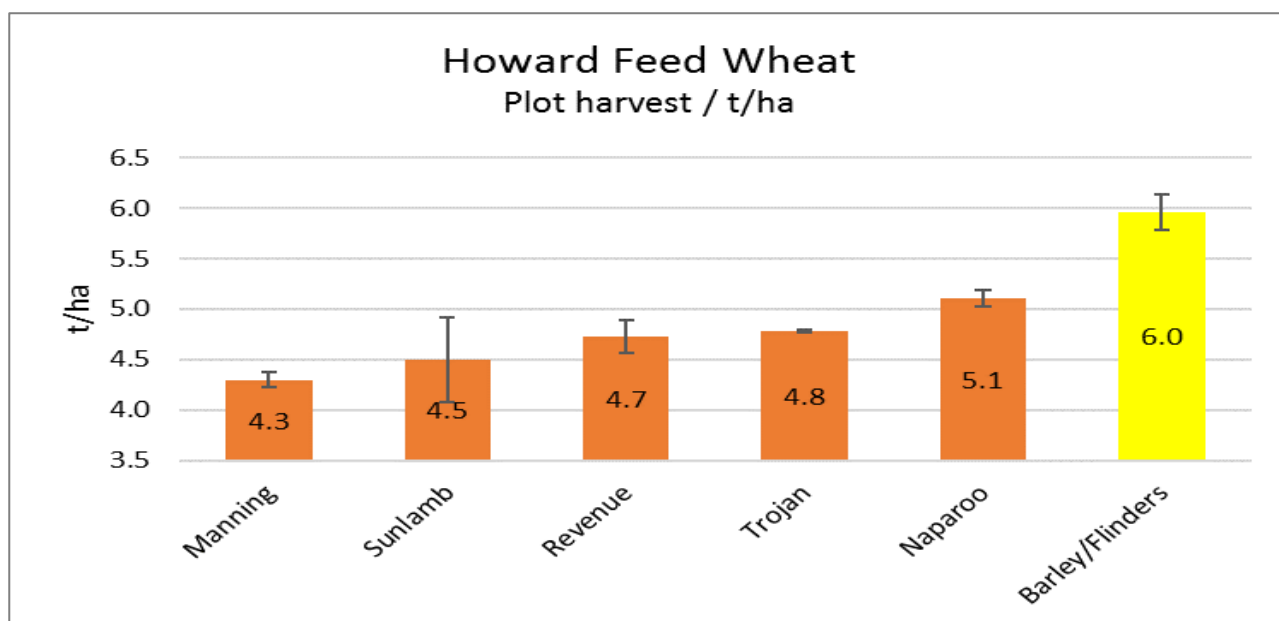


Figure 2: SCF Long season wheat trial – Host John Howard. The fit in cropping rotations maybe Canola/LS Wheat/Barley/Pasture in Southern areas and will require further testing.

Progress

The harvest and grain quality data from 4 broad-scale trials will be used to upgrade the Feed Wheat production package. Manning (showed physiological yellowing) and Revenue showing parent back type. This project is in association with SEPWA and Southern Dirt. CBH specialist market studies (with Rachid El Khayam) have been encouraging and the SCF market engagement tour is proposed for 2017. CBH will be updating SCF market information soon.

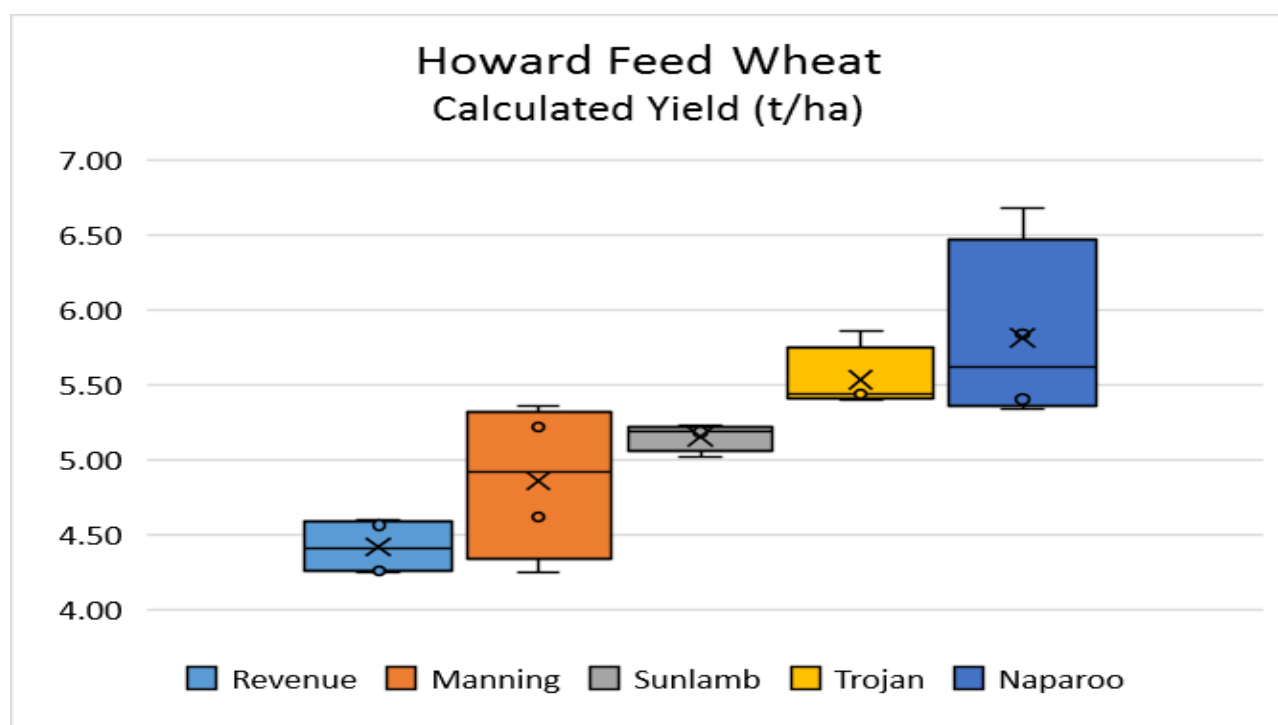


Figure 3: YIELD COMPONENT ANALYSIS: Yield calculation estimate based on head number per sq. m and measured head grain weight: SCF 2016 FW_3_JH.



Image 3: As observed during the CBH trial visit in Nov 2016.



Image 4: Mark Adam's Feed Wheat Trial (photo courtesy of Kimberley Adams- September 2016).

Sown 14th April and had highest Yield potential – physiological yellowing in Manning still evident in September as shown in Image 4.

Summary of Key Results

Table 1: Grain yield (t/ha) from small plot trial and broad-scale feed wheat trials in 2016 with additional results courtesy of Southern DIRT and SEPWA.

	Small plots**	Stirlings to Coast Farmers Broad-scale trials			Southern Dirt sites			SEPWA *
Variety	Mackie	Adams	Howard	Slade	Broome -hill ¹	Muradup ¹	Mobrup ¹	Hope-toun
Manning	6.77	2.97	4.3	1.4/0.9 ²	2.40	3.00	2.02	4.23
Sun-lamb	7.08	4.12	4.5	1.7/1.5	3.25	3.98	2.19	4.36
Trojan	7.52	4.94	4.8	1.6/2.0	2.39	3.73	2.50	
Revenue	6.57		4.7	2.1/2.4				
Naparoo	7.27	4.32	5.1	2.5/2.1	3.33	4.3	2.82	
DS Pascal								5.4
Cobalt	7.98							
Harper	6.84							
Barley			6.0	3.5/2.1				
Comments		Some frost	Well drained	Water-logging				
	** Small plot yields need be discounted 20%			Variable yield response to grazing	Some frost	Some frost	Weedy site	

Note: The 2017 trials are underway. A grazing trial using Manning wheat has been sown this month and the first time of sowing of broad-scale trials last week.

Handout

- HRZ dual purpose wheat production package.
- Interim Conclusions from 2016 trials testing the SCF dual purpose HRZ feed wheat production package.