



Irrigated Cropping Council

*Promoting irrigated agriculture*

# WHEAT VARIETY TRIAL 2020: MAIN SEASON



## VARIETY TRIALS

The Irrigated Cropping Council has conducted irrigated wheat variety trials on their Kerang site since 2002.

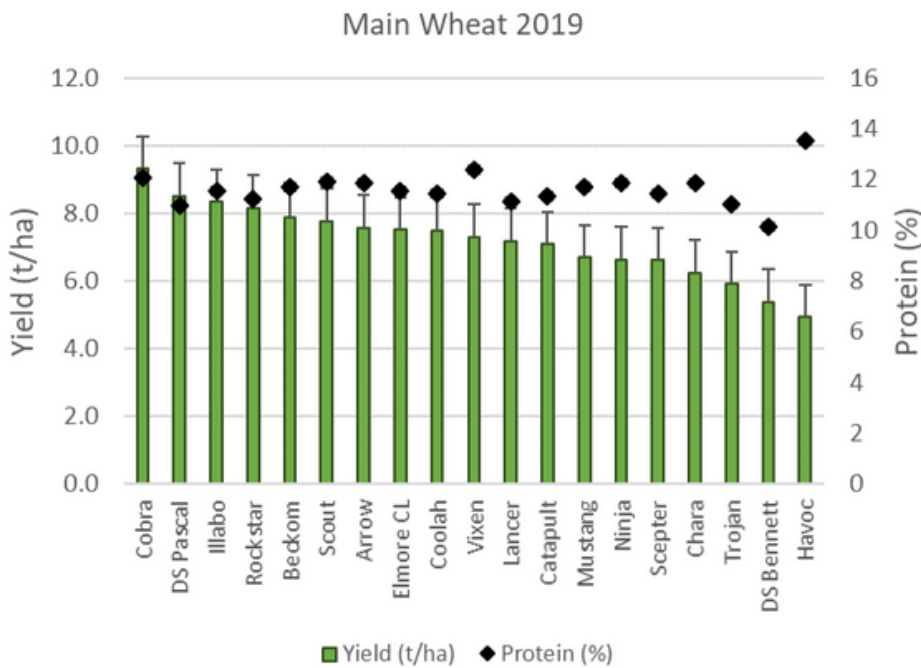
Variety trials provide a valuable long-term resource to help growers make decisions about what varieties to use in their farm systems based on local independent research.

The variety trials provide results about how various crops and varieties perform in local conditions and under irrigation.

## TRIAL OPERATIONS

- |                      |                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>April 8th</b>     | Pre-irrigation 1.5 MI/ha                                                                                                                |
| <b>April 17th</b>    | Knockdown, Glyphosate (1.5 l/ha) + Goal (75 ml/ha)                                                                                      |
| <b>May 6th</b>       | Sakura (118 g/ha) + Gramoxone (1.8 l/ha)                                                                                                |
| <b>May 7th</b>       | Sown at 75 - 112 kg/ha with 125 kg/ha DAP, targeting 160 plants/m <sup>2</sup> .                                                        |
| <b>July 2nd</b>      | Topdressed urea 55 kg N/ha                                                                                                              |
| <b>August 5th</b>    | Topdressed urea 65 kg N/ha Total N was 320 kg N/ha, including soil N, starter and mineralisation through the season, enough for 8 t/ha. |
| <b>September 6th</b> | Fungicide Tilt Xtra 250 ml/ha (majority of varieties were at GS39 or later)                                                             |
| <b>September 8th</b> | First spring irrigation – 1.0 MI/ha                                                                                                     |

## PROVIDING VALUABLE INFORMATION FOR GROWERS



Stripe rust was detected on August 28th in LRBP Trojan and a Pacific Seeds line. The trial, as a whole, had not yet reached the GS39 stage and had not received a foliar fungicide. Infection probably occurred in mid August during the rainfall events spanning August 6th to 15th. Other susceptible varieties have not shown symptoms suggesting the infection is from the new race first detected in 2018 and seen at the Trial Block in 2019 in LRPB Trojan, DS Bennett and Emu Rock.

## WHAT'S THE LONG TERM PERFORMANCE?

Long term variety performance from Kerang and variety performance at the irrigated NVT site at Numurkah 2014-2019

Wheat	2014	2015	2016	2017	2018	2019	Average	NVT
Beaufort	112%	103%	114%	100%	134%		113%	104%
Illabo					118%	107%	113%	89%
DS Pascal				103%	110%	110%	108%	87%
Beckom		96%	117%	100%	112%	101%	105%	104%
Coolah					111%	96%	104%	94%
Cobra	102%	98%	109%	109%	84%	120%	103%	103%
Trojan	106%	98%	125%	99%	108%	76%	102%	103%
Scout	100%	100%	100%	100%	100%	100%	100%	100%
Arrow		90%	113%		96%	98%	99%	100%
Scepter		92%	122%	106%	84%	85%	98%	104%
SF Adagio	74%	97%	120%	100%	97%		98%	91%
Mace	98%		110%	94%	93%		98%	94%
Lancer	94%	95%	108%	90%	107%	92%	97%	95%
Corack	85%	95%	102%	103%	74%		92%	100%
Wedgetail	76%	90%	103%	87%	99%		91%	89%
Chara	89%	88%	105%	89%	92%	80%	90%	95%
Elmore CL	84%	87%		92%	96%	97%	90%	92%
Suntop	95%	78%	100%	81%	86%		88%	97%
Mustang					89%	86%	88%	88%
Havoc					74%	63%	69%	87%
Scout t/ha	7.6	8.7	8.2	10.6	7.1	7.8	8.5	8.1

# VARIETY NOTES



## **BASF Ascot**

Ascot is a mid-late maturing variety, slightly quicker than Trojan. It is classified as APW in the southern zone but feed in the south eastern zone. It has good high yield stability in target growing areas, including irrigation. Good straw strength with MR to CCN, RMR for leaf rust, MRMS to yellow leaf spot but MSS to the new stripe rust race. Tested as BSWDH10-215. Ascot will be available in 2021 and is marketed by Seednet. EPR \$3.85

## **Ballista**

Ballista is an early-mid maturing AH variety, slightly quicker than Scepter. MRMS to CCN, MSS to yellow leaf spot, leaf rust and stripe rust. Tested as RAC2598. Ballista will be available in 2021 and is marketed by AGT. EPR \$3.50

## **Beckom**

Mid-season maturity with AH quality. Acid soil (aluminium) and boron tolerance. Excellent CCN resistance. MRMS resistance to stem and stripe rust. Short, conservative plant type. Moderately Intolerant to intolerant of sprouting. Marketed by AGT. EPR \$3.25

## **Borlaug100** **Feed**

Borlaug 100 is a variety selected from the Mexican CYMMIT program and was imported to Australia in 2015. It was selected as a high yielding feed variety for southern Queensland and northern NSW. It is described as a variety that responds well to irrigation as well as maintaining seed size under moisture stress. Borlaug 100 is named after the wheat Breeder Norman Borlaug and is marketed by Rebel Seeds.

## **Catapult**

Catapult is an AH variety (in SA/Vic/sNSW) and may be viewed as a 'longer season' Scepter, with a mid-late maturity. Catapult has MRMS yellow leaf spot resistance, MRMS for stripe rust and MSS for septoria. Tested as RAC2484. Marketed by AGT. EPR \$3.25.

## **LRPB Cobra**

A high yielding mid-season variety developed for Southern Australia. AH classification in Victoria and SA. Good Yellow Leaf Spot resistance (MR-MS\*). Sound rust resistance package for Stem (MR\*) and Leaf (R-MR\*). Stripe rust rating (MS-S) will require some form of protection to maximise performance. Cobra has a base level of APR and this may provide some protection in the warmer spring months similar to Wyalkatchem. Useful intermediate CCN resistance level (MR-MS). Marketed by Pacific Seeds. EPR \$3.50.

## **Coolah**

AH quality. Mid to late season maturity suitable for end of April/early May sowing. Similar to EGA Gregory in most traits, but slightly longer maturity and improved straw strength. Stem rust MR, stripe rust RMR, leaf rust MR, yellow leaf spot MSS, septoria MSS and CCN S. Tolerant of acid soils, high test weight and low screenings. Released 2016, tested as V07176-69. Marketed by AGT. EPR \$3.50.

## **Coota**

An APH slow maturing variety suited to end of April – beginning of May sowing. Low screenings and high test weights and short plant height. Very high grain yield and broad adaption including irrigation. Stem rust MS, stripe rust MRMS, leaf rust MS and MSS for yellow leaf spot and septoria. Tested as V10100-064 and marketed by AGT. EPR \$3.60

## **Hammer CL Plus**

A high yielding AH Clearfield® variety with AH quality classification. Described as being agronomically similar to Mace, it is a quick-mid maturity, with low screenings and high test weight. Tolerant to Clearfield® Intervix® herbicide. Stem rust MR, stripe rust MRMS, leaf rust MSS, yellow leaf spot MRMS, septoria MSS and CCN MRMS. Tested as OAGT0016 and marketed by AGT. EPR \$4.25.

## **EG Jet**

Marketed by Elders.

## **LRPB Hellfire**

Hellfire is an early maturity APH variety. Medium plant height. Good stripe rust (MR), leaf rust (RMR WA) and YLS (MRMS) resistance. Stem rust and stripe rust MR, MSS for yellow leaf spot, leaf rust and S to septoria. Marketed by Pacific Seeds. EPR \$4.00

## VARIETY NOTES



### **DS Pascal**

APW quality. Mid to late season maturity suited to high rainfall zones and irrigation. Stem rust MSS, stripe rust MR, leaf rust MS, CCN MS and yellow leaf spot MRMS. Excellent sprouting and lodging tolerance. Marketed by Dow Seeds. EPR \$4.25.

### **Rockstar**

High yield mid-late maturing AH wheat in early and main season NVT in Victoria. Has useful lodging resistance and strong yield potential in both dryland and irrigated environments. Strong resistance to stripe rust and yellow leaf spot (MRMS), as well as stem rust (MR). RockStar has a moderate plant height and excellent tillering capacity, as well as good test weight and low screenings. Available for farmer to farmer trade or from InterGrain SeedClub members. EPR \$3.50

### **Scepter**

Mace replacement with improved yield and stripe rust resistance but still MSS. AH quality classification. Early-mid season maturity, slightly later than Mace. MRMS for CCN and yellow leaf spot resistance. Marketed by AGT. EPR \$3.25.

### **Sheriff CL Plus**

Sheriff CL Plus is a mid-late maturing, APW, IMI-tolerant wheat. It is currently the only Clearfield wheat in this maturity class, offering growers a more flexible sowing opportunity. Sheriff CL Plus is the highest yielding Clearfield wheat in early season NVT long-term VIC MET data, and holds this yield stability into main season sowings, where it is the highest yielding CL Plus wheat in Victorian long-term NVT MET data, alongside Razor CL Plus. Sheriff CL Plus has good grain size and low screenings, and a moderate plant height with good lodging resistance. Available from InterGrain SeedClub members. EPR \$4.25

### **Sunblade CL Plus**

Sunblade CL is a mid-maturity APH Clearfield® Plus wheat, very similar in character to Suntop. MSS for yellow leaf spot resistance, MR for stripe rust, MRMS to leaf rust and S for septoria. Moderate plant height. Registered for label rates of Intervix® herbicide. Tested as SUN968G and marketed by AGT. EPR \$4.35.

### **LRPB Scout**

APW quality in Victoria. An awned white chaff variety with mid-season maturity. Resistant to leaf rust and CCN. Moderately resistant to lodging. Moderately resistant to stem rust, moderately susceptible to stripe rust and susceptible to very susceptible to yellow leaf spot. Marketed by Pacific Seeds. EPR \$2.80.

### **LRPB Trojan**

APW quality in Victoria. Mid-long season variety. Semi-dwarf suited to medium to high rainfall areas. Stem rust MRMS, stripe rust MSS (a downgrade of the rating due to a new race), leaf rust MR, CCN MS and yellow leaf spot MSS. Moderate resistance to lodging and moderate tolerance to boron and aluminium. Marketed by Pacific Seeds. EPR \$4.00.

### **RGT Zanzibar** **Feed**

RGT Zanzibar is an awned main season red wheat with very high yield potential. The variety has a good disease resistance profile with very good resistance to stripe rust. With excellent straw strength harvest quality is good producing large bold grain with a high thousand grain weight. Released in 2017 and marketed by Seed Force. EPR \$4.00

### **Vixen**

Vixen is a quick-mid maturing AH wheat with very strong yield potential. While Vixen performs very well in dry years as seen in 2019, its strong tillering capacity gives it very good top end yield potential. It has very good stripe rust, stem rust, and yellow leaf spot resistance (all MRMS), and a short-moderate plant height with very good lodging resistance, as well as good test weight and low screenings. Available for farmer to farmer trade or from InterGrain SeedClub members. EPR \$3.50

## TRIAL PARTNERS

