



# EGA Wentworth

## WHEAT

## WESTERN AUSTRALIA

### KEY FEATURES

- ▶ Excellent yield potential in main season sowings
- ▶ Medium maturity Janz type variety
- ▶ Australian Premium White (APW ) Classification in Western Australia
- ▶ Resistant to current pathotypes of Stem and Leaf rust diseases
- ▶ Good resistance to Common Root Rot and Flag Smut.
- ▶ Moderate tolerance and resistance to Root Lesion Nematodes (*P. thornei*)



### BREEDING

Pedigree: Janz/Vulcan//Janz

EGA Wentworth was bred by John Sheppard and the Queensland Department of Primary Industries and Fisheries ( DPI&F ) within the Enterprise Grains Australia ( EGA ) joint venture.

### OPTIMUM PLANTING TIMES & REGIONS

EGA Wentworth is well suited to a range of sowing dates through late April, May and June (Table I).

TABLE I. EGA WENTWORTH OPTIMUM PLANTING TIMES & REGIONS																
AgZone	Planting Times By Weeks															
	April				May				June				July			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Agzone 1					O	O	O	O	O	L						
Agzone 2					O	O	O	O	O	L						
Agzone 3				E	O	O	O	O	O	O	L					
Agzone 4					O	O	O	O	L							
Agzone 5				E	O	O	O	O	O	L						
Agzone 6				E	O	O	O	O	O	L	L					

E = Earlier than ideal, but acceptable O = Optimum planting time L = Later than ideal, but acceptable

### SUITABLE PRODUCTION REGIONS

EGA Wentworth has similar adaptation to Janz. The variety has demonstrated that it can perform well in main season sown crops in all Agzones of Western Australia. It performs well in regions with risk of Black Point.



RELIABILITY

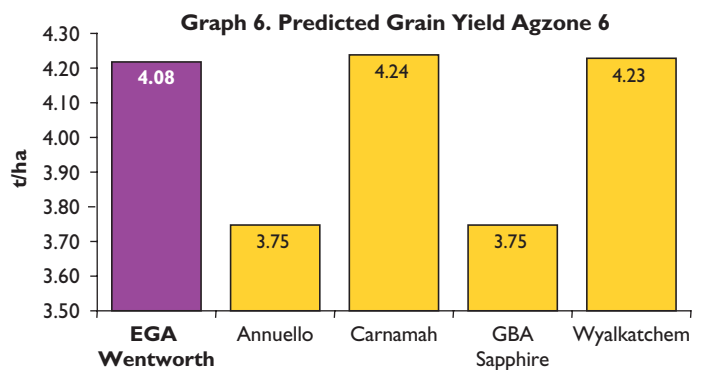
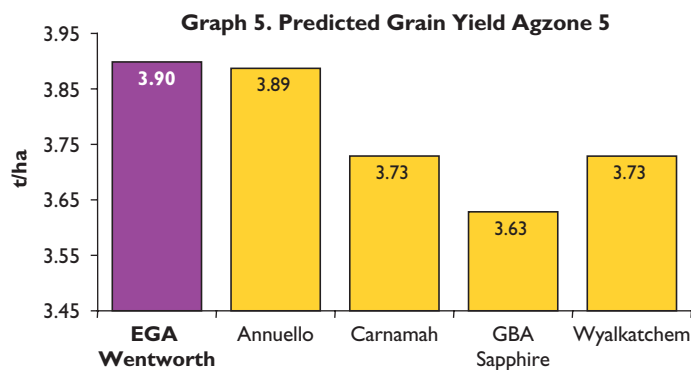
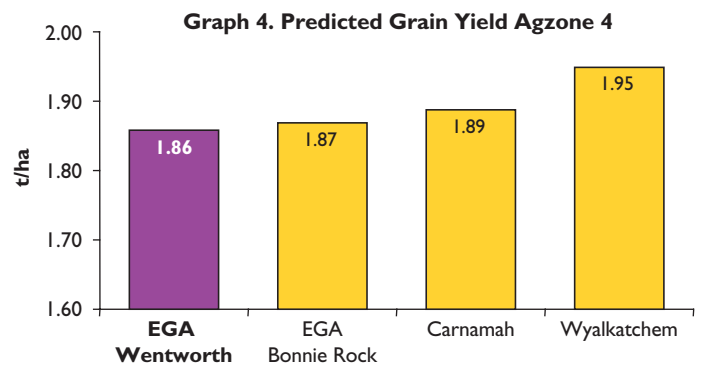
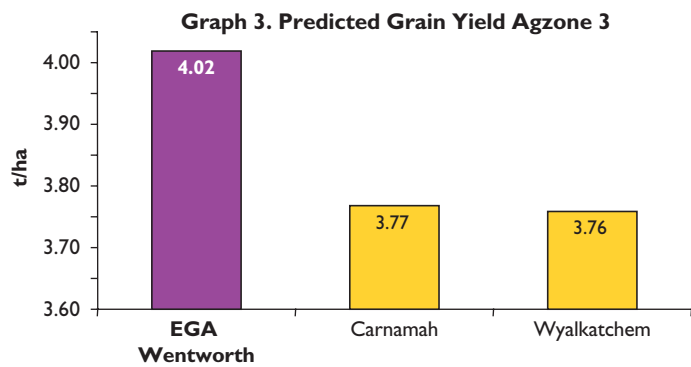
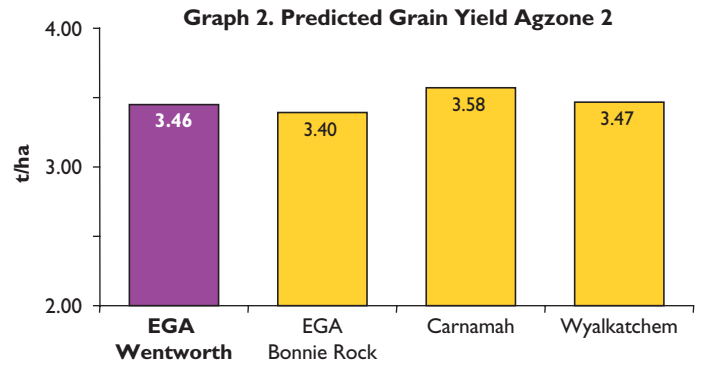
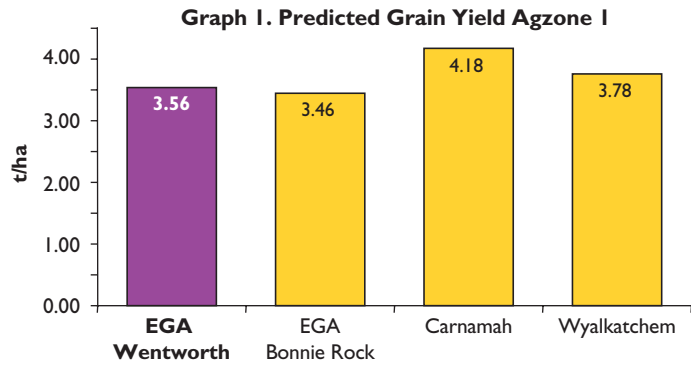




## YIELD PERFORMANCE

EGA Wentworth was extensively trialed in Western Australia during 2003 - 2005 in DAFWA trials. It was also trialed during 2005 in GRDC NVT trials and in SEPWA wheat field strip trials. The variety has produced yields comparable with commonly grown varieties in all Agzones (graphs 1-6).

### EGA WENTWORTH versus commercial varieties in Western Australian trials\*\*



\*\* Data derived from DAFWA trials 2003 - 2005 as well as GRDC NVT trials 2005 and SEPWA wheat trials 2005.

**MATURITY** - EGA Wentworth has medium maturity, similar to Janz.

**STANDABILITY** - EGA Wentworth has good standability and straw strength.

**GRAIN QUALITY** - EGA Wentworth has a final classification of Australian Premium White in WA.



## RELIABILITY



## DISEASE RESISTANCES - TABLE 2

**Stem Rust:** Resistant to all current pathotypes;

**Leaf Rust:** Resistant to current pathotypes;

**Stripe Rust:** Moderately resistant to current pathotypes;

**Common Root Rot:** Moderately resistant to moderately susceptible

**Crown Rot:** Moderately susceptible;

**Yellow Spot:** Moderately susceptible;

**Septoria tritici:** Moderately susceptible;

**Table 2. Disease, Pest & Black Point Resistance Ratings: EGA WENTWORTH and commercial varieties.**

Variety	Disease Ratings							Root Lesion Nematodes				
	Rust Resistance			Crown Rot	Common Root Rot	Yellow Spot	Septoria tritici	Flag Smut	Pratylenchus thornei (P.thornei)		P. neglectus	Black Point
	Stem	Leaf	Stripe WA pt						Tol(1-9)**	Res(1-9)*		
	Res(1-9)*	Res(1-9)*	Res(1-9)*	Res(1-9)*	Res(1-9)*	Res(1-9)*	Res(1-9)*	Res(1-9)*	Res(1-9)*			
<b>EGA Wentworth</b>	<b>9</b>	<b>9</b>	<b>7</b>	<b>5</b>	<b>6</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>5</b>	
Carnamah	7	6	4			6	3	4			5	
EGA Gregory	9	9	8	4	7	4	6	9	7	6	4	5
EGA Bonnie Rock	5	9	2			6	3	2				6
Wyalkatchem	3	8	5			7	3	3				5

**Res (1-9) = Resistance Rating:** (1) Very Susceptible (2) Susceptible-Very Susceptible (3) Susceptible (4) Moderately Susceptible-Susceptible (5) Moderately Susceptible (6) Moderately Resistant-Moderately Susceptible (7) Moderately Resistant (8) Resistant-Moderately Resistant (9) Resistant

**\*\*Tol (1-9) = Tolerance Rating:** 1 Intolerant 9 Tolerant.

Data provided by Australian Cereal Rust Control Program, December 2007, NSW DPI 2008, DAFWA 2008 and VIC DPI 2008.

## HERBICIDE RESPONSE - TABLE 3 - S = (Safe) N = (Narrow Margin of Safety)

**Table 3. EGA Wentworth response to herbicides.**

	<b>Achieve</b>	<b>Ally (metsulfuron)</b>	<b>Ally + MCPA (metsulfuron + MCPA)</b>	<b>Amicide 500/625 (2,4-D amine)</b>	<b>Atlantis (mesosulfuron-methyl)</b>	<b>Boxer Gold (s-metolachlor + prosulfocarb)</b>
<b>EGA Wentworth</b>	<b>S*</b>	<b>S</b>	<b>S*</b>	<b>S*</b>	<b>S*</b>	<b>S*</b>
<b>Rates (product/ha)</b>	380-430 & 760-860g/ha	7g	Ally 7 & 14g MCPA 0.75 & 1.5L	Amicide 500 0.85 & 1.7L Amicide 625 0.65 & 1.3L	300 mL	2.5 & 5.0 L/ha
<b>Crop stage at spraying</b>	3-5 leaf & 1-2 tiller	3-5 leaf + 1-3 tiller	4-7 leaf + 2-6 tiller	4-7 leaf + 3-9 tiller	5-6 leaf + 5-7 tiller	Pre-plant
	<b>Cadence (dicamba)</b>	<b>Glean (chlorsulfuron)</b>	<b>Hotshot (aminopyralid + fluroxypyr)</b>	<b>Hussar (iodosulfuron)</b>	<b>Mataven 90 (flamprop-m-methyl)</b>	<b>MCPA 500 (MCPA)</b>
<b>EGA Wentworth</b>	<b>N</b>	<b>S</b>	<b>S*</b>	<b>S</b>	<b>S*</b>	<b>S*</b>
<b>Rates (product/ha)</b>	200 & 400g	20 & 40g	0.75 & 1.5 L/ha	200g	1.875 & 3.75 L/ha	0.75 & 1.5L
<b>Crop stage at spraying</b>	3-6 leaf + 1-5 tiller	3-7 leaf + 1-6 tiller	5-6 leaf + 5-7 tiller	2-6 leaf + 1-7 tiller	5-6 leaf + 5-7 tiller	3-4 leaf + 1-2 tiller
	<b>MCPA LVE (MCPA)</b>	<b>Tordon 242 (picloram + MCPA)</b>	<b>Triflur X (trifluralin)</b>	<b>Starane 200 (fluroxypyr)</b>	Notes: S (safe) no significant yield reduction at indicated rates in 2+ trals. S* indicates that testing was done in 1 year only with no adverse effects on yield. N (narrow margin) significant yield reductions at double rate in 1+ trials, but not at recommended rate. Data provided by DPI&F, May 2006 and March 2007.	
<b>EGA Wentworth</b>	<b>N</b>	<b>S*</b>	<b>S*</b>	<b>S*</b>		
<b>Rates (product/ha)</b>	0.75 & 1.5L	1.0 & 2.0L	1.5 L/ha	1.0 & 2.0L		
<b>Crop stage at spraying</b>	3-6 leaf + 1-5 tiller	4-6 leaf + 1-6 tiller	Pre-plant	5-6 leaf + 3-6 tiller		





# EGA Wentworth <sup>PBR</sup>



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## END POINT ROYALTY (EPR)

Each time a grower purchases seed of EGA Wentworth, the grower agrees to comply with the Variety Licence and Royalty Agreement, including agreement to pay the EPR of \$2.31 per tonne ( GST inclusive ). EPR is payable on all grain production, except on seed retained by the grower for replanting by the grower. The majority of the EPR will be paid by Pacific Seeds to the Breeder ( DPI&F ) for investment in future wheat breeding programs.

## SEED AVAILABILITY

Good stocks of EGA Wentworth are available. Please contact one of the following Pacific Seeds Associates or your local seed supplier to place an order.

### WESTERN AUSTRALIA

Terrell Seeds  
Esperance, WA.  
Ph: 08 9071 7877

Melchiorre Seeds  
Narrogin, WA.  
Ph: 08 9881 1155

Coorow Seeds  
Coorow, WA.  
Ph: 08 9952 1088

## YOUR AUTHORISED DISTRIBUTOR



**For other sales enquiries, please contact Pacific Seeds Distribution centre on 07 4690 2701**

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