



EGA Gregory

WHEAT

WESTERN AUSTRALIA

KEY FEATURES

- ▶ Excellent yield potential in early to mid season sowings
- ▶ Medium-slow maturity
- ▶ Australian Hard (AH) grain quality classification in Western Australia
- ▶ Good resistance to all current pathotypes of Stem, Leaf and Stripe Rusts
- ▶ Some resistance to *Septoria tritici*
- ▶ Highly resistant to Flag Smut
- ▶ Good tolerance and resistance to Root Lesion Nematodes (*P. thornei*) and some resistance to *P. neglectus*.



BREEDING

Pedigree: Pelsart/2*Batavia doubled haploid line.

EGA Gregory was bred by Dr. Phillip Banks and the Queensland Department of Primary Industries and Fisheries (DPI&F) within the Enterprise Grains Australia (EGA) joint venture.

OPTIMUM PLANTING TIMES & REGIONS

EGA Gregory is extremely well adapted to early to mid season sowings in Agzones 3, 5 and 6 (Table 1). It is expected to perform well in regions with significant risk of Stripe Rust.

Table 1. EGA Gregory 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 3				E	O	O	O	O	O	O	O	L				
Agzone 5				E	O	O	O	O	O	O	L					
Agzone 6				E	O	O	O	O	O	O	L	L				

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

MATURITY - EGA Gregory normally has medium-slow maturity.

STANDABILITY & SHATTERING

EGA Gregory has good lodging resistance and has good resistance to grain shattering. Equivalent to the best of other varieties.

GRAIN QUALITY

EGA Gregory is eligible for receipt into the Australian Hard grade in Western Australia.

EGA Gregory is moderately susceptible to Black Point.



LESS RUST. MORE YIELD.

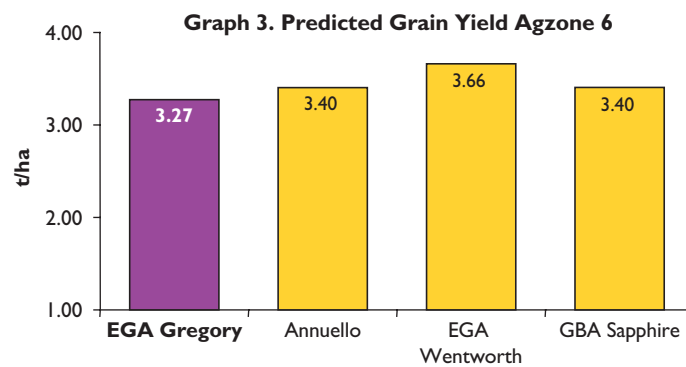
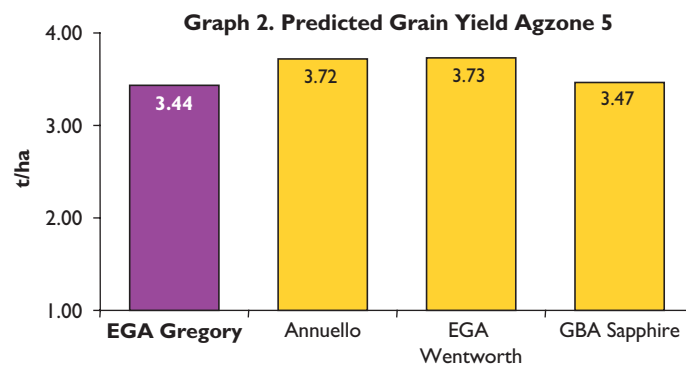
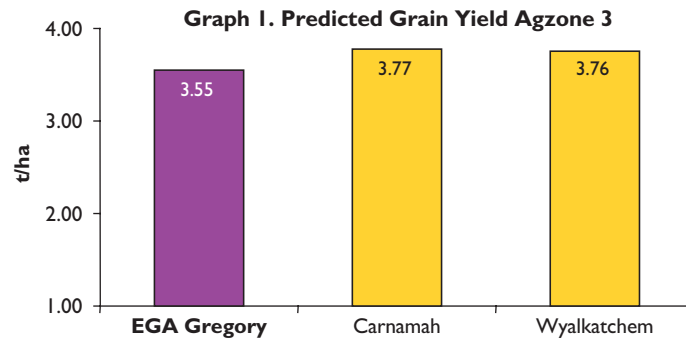




YIELD PERFORMANCE

EGA Gregory has produced competitive yields with comparable varieties in GRDC NVT trials in Agzones 3, 5 and 6 during 2005 and in 2005 SEPWA wheat field strip trials (see graphs 1, 2 and 3).

EGA GREGORY versus commercial varieties in Western Australian trials**



**Data sourced from GRDC NVT trials 2005 and SEPWA Wheat trials 2005.

ROOT LESION NEMATODES

EGA Gregory has been rated tolerant to moderately tolerant and moderately resistant to moderately susceptible to *P.thornei*. It has some resistance to *P.neglectus*.



LESS RUST. MORE YIELD.



DISEASE RESISTANCES - TABLE 2

Stem Rust: Resistant to all current pathotypes;

Leaf Rust: Resistant to all current pathotypes;

Stripe Rust: Resistant to moderately resistant to all current pathotypes;

Yellow Spot: Moderately susceptible to susceptible.

Crown Rot: Moderately susceptible to susceptible;

Common Root Rot: Moderately resistant;

Flag Smut: Highly resistance;

Table 2. Disease, Pest & Black Point Resistance Ratings: EGA GREGORY and commercial varieties.												
Variety	Disease Ratings							Root Lesion Nematodes				
	Rust Resistance			Crown Rot	Common Root Rot	Yellow Spot	Septoria tritici	Flag Smut	Pratylenchus thornei (<i>P.thornei</i>)		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)*	Tol (1-9)**	Res(1-9)*	Res(1-9)*	Res(1-9)*	
EGA GREGORY	9	9	8	4	7	4	6	9	7	6	4	5
Carnamah	7	6	4			6	3	4				5
EGA Wentworth	9	9	7	5	6	5	5		4	4	2	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 - S = (Safe) N = (Narrow Margin of Safety)

Table 3. EGA Gregory response to herbicides						
	Achieve	Ally (metsulfuron)	Ally + MCPA (metsulfuron + MCPA)	Amicide 500/625 (2,4-D amine)	Atlantis (mesosulfuron-methyl)	Boxer Gold (s-metolachlor + prosulfocarb)
EGA Gregory	S	N	N	S*	S*	S*
Rates (product/ha)	380-430 & 760-860g	7g	Ally 7 & 14g MCPA 0.75 & 1.5L	Amicide 500 0.85 & 1.7L Amicide 625 0.65 & 1.3L	330ml	2.5 & 5.0L/ha
Crop stage at spraying	3-5 leaf & 1-2 tiller	3-5 leaf + 1-2 tiller	4-7 leaf + 2-6 tiller	4-7 leaf + 3-9 tiller	6 leaf & 7 tillers	Pre-plant
	Cadence (dicamba)	Glean (chlorsulfuron)	Hotshot (aminopyralid + fluroxypyr)	Hussar (iodosulfuron)	Mataven 90 (SST) (flamprop)	MCPA 500 (MCPA)
EGA Gregory	S	S	S*	S	S	S*
Rates (product/ha)	200 & 400g	20 & 40g	0.75 & 1.5L/ha	200 & 400g	1.85 & 3.75L	0.75 & 1.5L
Crop stage at spraying	3-6 leaf + 1-5 tiller	3-7 leaf + 1-6 tiller	6 leaf + 7 tillers	2-5 leaf + 1-2 tiller	1-9 node	3-4 leaf + 1-2 tiller
	MCPA LVE (MCPA)	Starane 200 (fluroxypyr)	Topik 240EC (clodinafop)	Tordon 242 (picloram + MCPA)	Triflur X (trifluralin)	Wildcat (fenoxaprop)
EGA Gregory	S	S*	S*	S*	S*	S*
Rates (product/ha)	0.75 & 1.5L	1.0 & 2.0L	85 & 170mL	1.0 & 2.0L	1.5 & 3.0L/ha	0.5 & 1.0L
Crop stage at spraying	3-6 leaf + 1-5 tiller	5-6 leaf + 3-6 tiller	3-5 leaf + 1-2 tiller	4-6 leaf + 1-6 tiller	Pre-plant	3-5 leaf + 1-2 tiller

NOTES: S (safe) no significant yield reductions at indicated rates in 2+ trials. 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 Qld DPI&F, May 2006 & March 2007.

LESS RUST. MORE YIELD.





PLANT BREEDERS RIGHTS

EGA Gregory is protected by Plant Breeders Rights (PBR). In regard to propagating material (planting seed) of this variety, any unauthorised commercial production or reproduction, conditioning for propagation, offering for sale, sale, import, export or stocking of propagating material is an infringement under the Plant Breeders Rights Act 1994. No grower to grower trading of seed of EGA Gregory is allowed.

END POINT ROYALTY (EPR)

Each time a grower purchases seed of EGA Gregory, 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 Gregory 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

The information in this publication is intended as a guide only. Pacific Seeds Pty Ltd (including its officers, employees, contractors and agents) ('Pacific Seeds') cannot guarantee that every statement is without flaw of any kind. While Pacific Seeds has taken all due care to ensure that the information provided is accurate at the time of publication, various factors, including planting times and environmental conditions may alter the characteristics & performance from plants. For application to specific conditions, seek advice from a local professional. © Pacific Seeds 2008. DMS|PAC 807055

