



EGA Burke

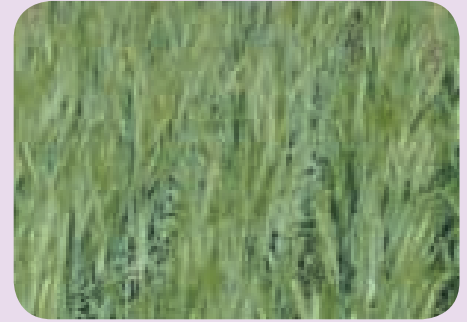


WHEAT

QUEENSLAND & NORTHERN NSW

KEY FEATURES

- ▶ Excellent yield potential in early and mid season sowings
- ▶ Medium to medium-slow maturity
- ▶ Australian Prime Hard (APH) grain quality classification in Queensland and Northern NSW
- ▶ “Hartog-like” grain with bright and stable yellow alkaline noodle colour
- ▶ Resistant to all current pathotypes of Stem and Leaf Rusts
- ▶ Good tolerance and resistance to Root Lesion Nematodes (*P.thornei*)
- ▶ Good resistance to Black Point.



BREEDING - Pedigree: Sunco/2*Hartog

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

OPTIMUM PLANTING TIMES & REGIONS

EGA Burke is well adapted to early to mid season sowings throughout Queensland and Northern NSW. It is expected to perform well in soils with Root Lesion Nematodes (*P.thornei*) and in regions with risk of Black Point. See table 1.

Table 1. EGA BURKE Optimum Planting Times & Regions																
Region	Planting Times by Weeks															
	April				May				June				July			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Central Highlands, Dawson-Callide low frost risk (higher slopes)	E	E	E	O	O	O	O	O	L	L						
Central Highlands, Dawson-Callide high frost risk (river flats)					E	O	O	O	O	O	L					
Maranoa, Balonne, Western Downs, South West				E	E	O	O	O	O	O	O	L				
Darling Downs (Northern Uplands)						E	E	O	O	O	O	O	L			
Darling Downs high frost risk (Central, Southern)									E	O	O	O	O	L		
Central Burnett, South Burnett, West Moreton							E	E	O	O	O	O	L	L		
NSW Northern Slopes				E	O	O	O	O	O	L						
NSW Northern Plains				E	O	O	O	O	O	L						

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



ALL CLASS

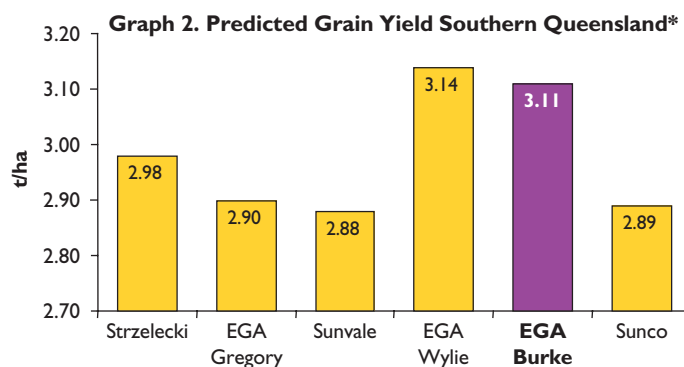
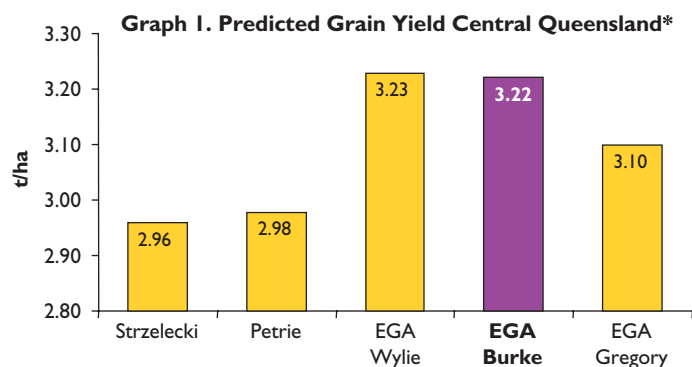




YIELD PERFORMANCE - QUEENSLAND

In DPI&F trials in Central Queensland during 2001 - 2005, EGA Burke has outyielded most comparable varieties. It has outyielded Strzelecki by 8% and Petrie by 7% (Graph 1). In Southern Queensland DPI&F trials during 2001 - 2005, EGA Burke again outyielded most comparable varieties. Graph 2.

EGA BURKE versus commercial varieties in Queensland trials**

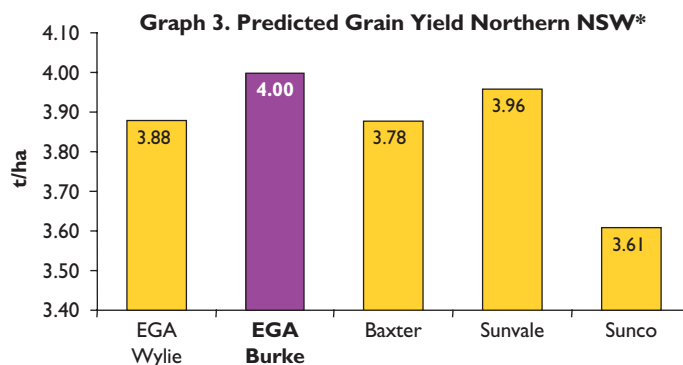


*Varieties listed in order of sowing. **Data sourced from Qld DPI&F 2001-2005 trials.

YIELD PERFORMANCE - NEW SOUTH WALES

In DPI&F trials during 2004 - 2005 across North East and North West NSW, EGA Burke has outyielded all comparable varieties (graph 3).

EGA BURKE versus commercial varieties in Northern NSW trials**



*Varieties listed in order of sowing. **Data derived from DPI&F 2004-2005 trials.

MATURITY

EGA Burke normally has medium to medium slow maturity. In Central Queensland it is rated as medium maturity, being similar to Baxter and EGA Wylie. In Southern Queensland it shows medium slow maturity, being similar to Giles and Petrie.

GRAIN QUALITY

EGA Burke has final a classification of Australian Prime Hard (APH) grade in both Queensland and Northern NSW. It will be highly sought after because it produces a 'Hartog-like' grain delivering a bright and stable yellow alkaline noodle colour. EGA Burke is resistant to moderately resistant to Black Point .





DISEASE RESISTANCES - TABLE 2

Stem Rust: Moderately resistant to current pathotypes;

Crown Rot: Moderately susceptible to susceptible

Leaf Rust: Resistant to all current pathotypes;

Common Root Rot: Moderately Susceptible;

Stripe Rust: Moderately resistant to moderately susceptible

Yellow Spot: Moderately susceptible

Importantly, EGA Burke has a different genetic background to existing varieties within its maturity group, thereby reducing genetic risks from diseases. Reaction to all three Rusts exceeds Minimum Disease Standards as assessed by the Australian Cereal Rust Control Program.

ROOT LESION NEMATODES - TABLE 2

EGA Burke is rated tolerant to moderately tolerant and moderately resistant to (*P.thornei*). It demonstrates superior tolerance compared to Ellison, EGA Hume, Lang, Petrie, Strzelecki, Sunbri and Sunco while showing a similar yield to Sunvale on nematode infested fields.

Table 2. Disease and Pest Resistance ratings: EGA BURKE and commercial varieties.

Variety	Disease Ratings							Root Lesion Nematodes		
	Rust Resistance				Crown Rot	Common Root Rot	Yellow Spot	Pratylenchus thornei (<i>P.thornei</i>)		P.neglectus
	Stem	Leaf	Stripe WApt	Stripe WA+YR17				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)*		
Strzelecki	MR-MS	R	R	MR	MS-S	R-MR	MR	MI	S	MS
Petrie	R	R	MS-S	MS-S	MS-S	MR	MS-S	MI	VS	VS
EGA Gregory	MR-MS	R	R	R-MR	MS-S	MR	MS-S	MT	MR-MS	MS-S
Sunvale	R-MR	MR-MS	R	MR	MS	MR-MS	MS-S	T-MT	MS	MS
EGA Wylie	R	R	MR-MS	MR-MS	MR	MR-MS	MS-S	T	MR-MS	MS-S
EGA BURKE	MR	R	MR-MS	MR-MS	MS-S	MS	MS	T-MT	MR	S
Baxter	R-MR	R	MS	MS	MR-MS	MR-MS	MS-S	T-MT	MS	MS-S
Sunco	R	MR-MS	MR-MS	MR-MS	MR-MS	MR	MS-S	MI	MS	VS

Resistance Rating: VS Very Susceptible (1) S-VS Susceptible-Very Susceptible (2) S-Susceptible (3) MS-S Moderately Susceptible-Susceptible (4) MS Moderately Susceptible (5) MR-MS Moderately Resistant –Moderately Susceptible (6) MR Moderately Resistant (7) R-MR Resistant-Moderately Resistant (8) R Resistant (9) Tolerance Rating: VI Very Intolerant (1) I Intolerant (2) MI-I Moderately Intolerant-Intolerant (3) MI Moderately Intolerant (4) MT-MI Moderately Tolerant-Moderately Intolerant(5) MT Moderately Tolerant (6) T-MT Tolerant-Moderately Tolerant (7) T Tolerant (8-9)
#Varieties listed in order of maturity. Data provided by Australian Cereal Rust Control Program, December 2007, Qld DPI & F 2008 and NSW DPI 2008.

SHATTERING EGA Burke has good resistance to grain shattering.

STRAW STRENGTH EGA Burke has good straw strength, better than Sunbri, Petrie, Sunvale & Baxter.

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

Table 3. EGA Burke response to herbicides.						
	Ally (metsulfuron)	Amicide 625 (2,4-D amine)	Glean (chlorsulfuron)	MCPA LVE (MCPA iso-octyl ester)	Starane (fluroxypyr)	Tordon 242 (picloram + MCPA)
EGA Burke	S*	S*	S*	S*	S*	S*
Rates (product/ha)	7g & 14g	0.65 & 1.3L	20 & 40g	0.75 & 1.5L	1.0 & 2.0L	1.0 & 2.0L
Crop stage at spraying	5-6 leaf + 4 tillers	5-6 leaf + 3 tillers	5-6 leaf + 3 tillers	5-6 leaf + 3 tillers	5-6 leaf + 3 tillers	5-6 leaf + 3 tillers

NOTES: S* indicates that testing was done in 1 year only, with no adverse effects on yield at single and double recommended rates. Data provided by Qld DPI & F 2007





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END POINT ROYALTY (EPR)

Each time a grower purchases seed of EGA Burke, 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 Burke are available. Please contact one of the following Pacific Seeds Associates or your local seed supplier to place an order.

QUEENSLAND

Galleon Grains Pty Ltd
Springsure, QLD
Ph: 07 4984 6141

Philp Brodie Grains
Toowoomba, QLD
Ph: 07 46906400

Woods Seeds
Goondiwindi, QLD
Ph: 07 4670 0400

NEW SOUTH WALES

Agrigrain
Narromine, NSW
Ph: 02 6889 2200

Auswest Seeds
Forbes, NSW
Ph: 02 6852 1500

Hart Bros. Seeds
Junee, NSW
Ph: 02 6924 7206

McGregor Gourlay Agricultural Services
Moree, NSW
Ph: 02 67573838



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

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