



The first 'Dun' pea offering improved tolerance to common in-crop and residual Group B herbicides for robust farming systems



KEY FEATURES

- ✓ **Increased flexibility and robustness in mixed farming systems** and improved weed control options over all current field pea varieties
- ✓ **First field pea featuring improved herbicide tolerance to post-emergent**
 - imazamox (i.e. Raptor[®]),
 - imazethapyr (i.e. Spinnaker[®]) and
 - lumetsulam (i.e. Broadstrike[®]).
- ✓ **Group B herbicide improved tolerance (IMI and SU)**
- ✓ **Early to mid flowering** with relatively long flowering window
- ✓ **Semi-erect growth habit** with semi-leafless plant type
- ✓ **Disease resistance profile**, similar to PBA Oura[Ⓟ]
- ✓ **Early to mid maturing** suitable for crop-topping
- ✓ **'Australian dun type' grain** that is pod shatter resistant at maturity



OURSTAR[Ⓢ] IMI Pea



ADAPTATION & GRAIN YIELD

Due to unique tolerance to common residual sulfonylurea and imidazolinone herbicides, GIA Ourstar[Ⓢ] is a broadly adapted field pea with superior farming system advantages than all other varieties.

Along with GIA Kastar[Ⓢ], GIA Ourstar[Ⓢ] has the highest level of tolerance to post-emergent applications of imazamox (i.e. Raptor[®]) and imazethapyr (i.e. Spinnaker[®]) providing improved weed control options in field pea.

GIA Ourstar[Ⓢ] shows a higher level of tolerance to post-emergence applications of flumetsulam (i.e. Broadstrike[®]) than any other field pea.

GIA Ourstar[Ⓢ] is provisionally rated susceptible to moderately susceptible to bacterial blight and like PBA Oura[Ⓢ] not suitable for areas prone to this disease.

GIA Ourstar[Ⓢ] is provisionally rated susceptible to downy mildew and a metalaxyl fungicide seed dressing should be used in areas prone to this disease.

It is imperative growers adhere to product label rates, plant-back periods and all label directions for use.

Agronomic performance of GIA Kastar[Ⓢ] and GIA Ourstar[Ⓢ] to registered post-emergent and simulated residual Group B herbicides in field pea, 2019.

(Yields expressed as a % of Nil treatment for that variety, figures in red significantly different to Nil treatment).

	Horsham				Kadina				Pinnaroo#			
	PBA Wharton [Ⓢ]	GIA Kastar [Ⓢ]	PBA Oura [Ⓢ]	GIA Ourstar [Ⓢ]	PBA Wharton [Ⓢ]	GIA Kastar [Ⓢ]	PBA Oura [Ⓢ]	GIA Ourstar [Ⓢ]	PBA Wharton [Ⓢ]	GIA Kastar [Ⓢ]	PBA Oura [Ⓢ]	GIA Ourstar [Ⓢ]
Nil (t/ha)	2.56	2.18	2.34	1.68	1.77	1.62	1.93	1.48	1.24	0.98	1.32	1.14
Broadstrike [®] (25 g/ha-1) Post	85	70	79	99	91	85	94	104				
Raptor [®] (45 g/ha-1) Post	76	91	90	110	95	92	87	109				
Spinnaker [®] (70 g/ha-1) Post	87	95	97	93	92	101	88	102				
SU Simulated Residue	3	0	0	91	8	5	3	90	7	14	3	100
IMI Simulated Residue	53	92	71	106	62	102	61	105	85	97	75	95

Data courtesy M. Moodie, Frontier Farming



OURSTAR[Ⓟ]

IMI Pea



AGRONOMY GIA OURSTAR[Ⓟ]

GIA Ourstar[Ⓟ] is generally similar to PBA Oura[Ⓟ] in its plant type and growth habit although early season plant vigour can be slower under some adverse growing conditions. Outside of herbicide considerations, basic paddock selection and standard agronomic production requirements are similar to PBA Oura[Ⓟ].

DISEASE GIA OURSTAR[Ⓟ]

GIA Ourstar[Ⓟ] shows a similar response to common pea diseases as that of PBA Oura[Ⓟ]. Disease and pest management is generally as for PBA Oura[Ⓟ]. GIA Ourstar[Ⓟ] is provisionally rated susceptible to downy mildew and a metalaxyl fungicide seed dressing should be used in areas prone to this disease.

GRAIN YIELD GIA OURSTAR[Ⓟ]

GIA Ourstar[Ⓟ] yielded 5 to 20% lower than PBA Oura[Ⓟ] and PBA Wharton across southern and western Australia in NVT in 2019. However, seed of GIA Ourstar[Ⓟ] was from a frosted crop in 2018, causing reduced early vigour and plant growth that may have negatively impacted on grain yield in NVT.

In more limited trials in 2018, and using seed from a non-frosted crop, GIA Ourstar[Ⓟ] yielded similarly but slightly lower (1-10%) than PBA Wharton[Ⓟ] and PBA Oura[Ⓟ] in the absence of Group B herbicides.

Growers should follow regionally recommended field pea agronomic, disease and pest production management packages.

2019 Average NVT Trial Yields of Field pea varieties

(Yield expressed as a % of PBA Wharton[Ⓟ]'s yield) and agronomic characteristics of field pea varieties).

Variety	Grain Yield (% PBA Wharton) [Ⓟ] #				Plant habit	Early vigour	Flowering time	Maturity time	Lodging resistance	Pod shattering
	SA 6 trials	Victoria 5 trials	WA 7 trials	NSW 2 trials						
PBA Wharton [Ⓟ] (t/ha)	1.93	2.00	1.13	0.72						
<i>Kaspa types</i>										
GIA Kastar[Ⓟ]	99	87	75	103	Semi-leafless	Mod-good	Mid	Early-mid	Fair-good	Resistant
Kaspa [Ⓟ]	100	101	88	55	Semi-leafless	Good	Late	Mid	Fair-good	Resistant
PBA Butler [Ⓟ]	101	105	96	56	Semi-leafless	Good	Mid-late	Early-mid	Fair-good	Resistant
PBA Wharton [Ⓟ]	100	100	100	100	Semi-leafless	Good	Early-mid	Early	Fair-good	Resistant
<i>Dun types</i>										
GIA Ourstar[Ⓟ]	93	84	81	71	Semi-leafless	Mod-good	Early-mid	Early-mid	Fair	Mod-resistant
PBA Oura [Ⓟ]	103	105	93	90	Semi-leafless	Good	Early	Early	Fair	Mod-resistant
PBA Percy [Ⓟ]	110	104	89	98	Conventional	Good	Early	Early	Poor	Mod-resistant

#NVT data 2019, 20 trial sites across western and southern Australia



GRAIN QUALITY GIA OURSTAR[®]

GIA Ourstar[®] produces grain with a yellow split. The whole grain is medium in size, similar to PBA Oura[®], PBA Wharton[®] and Kaspera[®]. GIA Ourstar[®] has a light green to tan coloured seed coat and is dimpled. GIA Ourstar[®] produces grain that is marketable as 'Australian dun type' for human consumption or stockfeed, similar to PBA Oura[®], Parafield[®] and PBA Percy[®]. Growers should avoid contamination with 'Kaspera types' for human consumption markets.

BREEDING

GIA Ourstar[®] & GIA Kastera[®] were developed by Grains Innovation Australia (GIA) using conventional breeding techniques and commercialised by AG Schilling & Co.

SEED PROTECTION & ROYALTIES

GIA Ourstar[®] is protected under Plant Breeders Rights (PBR) legislation. A PBR bag licence applies to the seed purchased and a seed technology fee applies to the seed price. Licensed growers can only retain seed for their own sowing or for sale as a commodity. GIA Ourstar[®] is open marketed with an End Point Royalty (EPR) of \$3.30 per tonne (GST inclusive), applying upon delivery of all grain of this variety.

GIA receives no funding from the Grains Research and Development Corporation (GRDC) or state and federal governments for breeding and therefore EPR's are critical for GIA to continue delivering innovative varieties that increase on-farm profitability for growers.

Disease and seed characteristics of field pea varieties

(Yield expressed as a % of PBA Wharton[®]'s yield) and agronomic characteristics of field pea varieties).

Variety	Powdery mildew	Downy mildew	Blackspot	Bacterial blight (field rating)	Pea seed borne mosaic virus	Seed shape	Seed coat colour	Cotyledon colour	Seed size (g/100 seeds)#
<i>Kaspera types</i>									
GIA Kastera [®]	R (p)	S (p)	MS (p)	S (p)	R (p)	Spherical	Red-brown	Yellow	18.2
Kaspera [®]	S	S	MS	S	S	Spherical	Red-brown	Yellow	18.6
PBA Butler [®]	S	S	MS	MS	S	Spherical	Red-brown	Yellow	17.3
PBA Wharton [®]	R	S	MS	S	R	Spherical	Red-brown	Yellow	18.3
<i>Dun types</i>									
GIA Ourstar [®]	S (p)	S (p)	MS (p)	S/MS (p)	S (p)	Dimpled	Green-tan	Yellow	19.5
PBA Oura [®]	S	S	MS	MS	S	Dimpled	Green-tan	Yellow	18.8
PBA Percy [®]	S	S	MS	MRMS	S	Dimpled	Tan-green	Yellow	20.5

R=resistant, MR=moderately resistant, MS=moderately susceptible, S=susceptible. (p) = provisional rating due to limited testing. #NVT data 2019, 20 trial sites across western and southern Australia

SEED ENQUIRIES

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VARIETY AND AGRONOMIC INFO

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