

SAINTLY

durum



Key Features

- Early maturity, approximately 7 days earlier than Kalka
- Exceptional yields, particularly in tough finishes to the growing season
- Stem and stripe rust resistant
- Tip - awned
- Very good semolina and pasta quality compared to current durum varieties grown in SA
- Eligible for APDR classification in South Australia

Plant Characteristics

Saintly is an early maturing durum variety suited to both short and medium growing season environments. During head emergence, Saintly's head has longer awns on the top florets, and short 'tip awns' on lower florets. The longer awns usually drop after head emergence.

Adaption and Yield

Saintly is well suited to production zones that are at risk of experiencing a sharp finish to the growing season. In the seasons from 2006 to 2008 which experienced early terminal drought, Saintly showed a significant yield advantage over all commercial varieties currently available. Saintly also performs well in more favourable environments and can be planted in combination with mid season varieties to spread production risk. Long term yield predictions are displayed in Table 1.

Grain Quality

Saintly has an APDR classification in South Australia. Saintly produces high quality semolina with higher yellow pigment colour than the current dominant SA varieties Tamaroi and Kalka. Saintly produces bright vitreous grain which is ideal for semolina and pasta making.

Disease Profile

Saintly offers an excellent disease resistance package, with high levels of resistance to stem and stripe rust. Limited data suggests that Saintly is moderately resistant to black point and sprouting at harvest. Saintly, like Kalka, is rated moderately susceptible to CCN infection. Like all other current durum varieties, Saintly is very susceptible to crown rot. See Table 2 for detailed disease ratings.

Breeding

Saintly was tested as WID22279, and is derived from an awnless Kalka sister line, crossed twice to Tamaroi.

fact sheet for South Australia

SEEDS FOR SUCCESS



Table 1. Predicted yields of Saintly and control varieties (yield % of Tamaroi) in SA regions from NVT long term MET analysis (2000-2009).

Variety	Mid North	Yorke Pen.	Upper EP	Lower EP
Saintly	110	104	106	108
Caparoi	99	101	100	99
EGA Bellaroi	97	96	96	97
Hyperno	110	106	105	106
Kalka	99	98	99	100
Tamaroi	100	100	100	100
Wollaroi	98	97	97	97

Table 2. Disease ratings for Saintly and control varieties.

Variety	Stem Rust	Stripe Rust	Leaf Rust	Sprouting	Black Point	Boron Tolerance
Saintly	R-MR	MR	MR-MS	MR*	MS	I
Caparoi	R-MR	MR	R	-	MS-S	-
EGA Bellaroi	R-MR	MR	R-MR	MS-S	R-MR	I
Hyperno	R	MR	R	R	MS	I
Kalka	R-MR	MR	R-MR	MS	S-VS	MT
Tamaroi	R	MR	MR	-	MS	I
Wollaroi	R-MR	MR	R-MR	MR-MS	MS	I

R = Resistant, MR = Moderately Resistant, MS = Moderately Susceptible, S = Susceptible, VS = Very Susceptible, VT = Very Tolerant, T = Tolerant, MT = Moderately Tolerant, MI = Moderately Intolerant, I = Intolerant, VI = Very Intolerant, - = Insufficient Data, * = Score based on limited data.
 Source: SARDI Cereal Variety Disease Guide 2010, NSW DPI Winter Crop Variety Sowing Guide 2009 and AGT data.

Seed Availability

Commercial quantities of Saintly seed will be available for 2010 for South Australia through the SA Durum Growers Association: (08)8338 7339, or your local retailer.

Plant Breeders Rights

Saintly is protected by PBR and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Saintly growers will be subject to a Growers Licence Agreement that acknowledges that an EPR of \$3.00/tonne plus GST has to be paid on all production other than seed saved for planting.

Acknowledgements

The cross and early generation selection of Saintly was conducted by the University of Adelaide durum breeding program led by Dr. Tony Rathjen. The late generation selection and release was led by Jason Reinheimer as part of the AGT Roseworthy Campus plant breeding team. The variety is named after the 1996 Melbourne Cup winner, Saintly.

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