

HYPERNO PBR **durum**



Key Features

- Mid season maturity
- Well adapted to current durum growing areas of South Australia
- Rust resistant
- Good level of sprouting tolerance
- Superior semolina and pasta quality compared to current durum varieties grown in SA
- Eligible for APDR classification in South Australia

Plant Characteristics

Hyperno is a mid season durum variety, with a fully awned head and white chaff. It has similar height and maturity to Kalka.

Adaption and Yield

The yield stability of Hyperno across a number of years has been exceptional compared to current commercially available durum varieties (Table 1). Hyperno performs particularly well under higher yielding environments, such as the Mid North of South Australia, where it consistently out yields popular varieties Tamaroi and Kalka.

Grain Quality

Hyperno has an APDR classification in South Australia. Hyperno produces high quality semolina with significantly higher yellow pigment colour than current varieties in SA, and is comparable to EGA Bellaroi which is seen to be the benchmark in Australia. Hyperno produces bright vitreous grain which is ideal for semolina and pasta making.

Disease Profile

Hyperno offers an excellent disease resistance package, with high levels of resistance to stem, stripe and leaf rust. Hyperno also shows resistance to sprouting at harvest, but like Kalka, is moderately susceptible to CCN infection. Hyperno is boron intolerant, and like all other current durum varieties, Hyperno is very susceptible to crown rot. See Table 2 for detailed disease ratings.

Breeding

Hyperno was tested as WID22209, and is derived from a cross between a Kalka sister line and Tamaroi.

fact sheet for South Australia



S E E D S F O R S U C C E S S

Table 1. Predicted yields of Hyperno 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
Hyperno	110	106	105	106
Caparoi	99	101	100	99
EGA Bellaroi	97	96	96	97
Kalka	99	98	99	100
Saintly	110	104	106	108
Tamaroi	100	100	100	100
Wollaroi	98	97	97	97

Table 2. Disease ratings for Hyperno and control varieties.

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

Hyperno 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. Hyperno 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 Hyperno 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 1979 Melbourne Cup winner, Hyperno.

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