

# Caparoi<sup>®</sup>

Durum Wheat



Phone: 08 8445 1111  
Fax: 08 8445 7777

## VARIETY SUMMARY

- High yielding medium maturing durum wheat
- Excellent disease resistance
- Excellent lodging and shedding resistance, erect semi-dwarf plant type.
- Grain quality is similar to Jandaroi and superior to Wollaroi. Consistently good protein with low screenings.
- Grain yield generally greater than EGA Bellaroi, Yallaroi and Wollaroi across all regions, with comparative yields to Jandaroi. Outstanding yields under irrigation.
- Genetically diverse from EGA Bellaroi and Jandaroi.
- Well adapted to all major durum producing regions of Australia.
- ADR1 classification in QLD, Nth NSW, SA and WA. Temporary classification of FEED for remaining areas pending upgrade.



## BREEDING

Caparoi (formerly TD 20F) was bred by the NSW DPI Tamworth Durum breeding team as part of the National Program. It continues the tradition of naming the varieties to help with the target market. 'Capo' being derived from the Italian word for 'Leader' or 'Boss' and "aroi" continuing the tradition for naming durum varieties bred by NSW DPI.



## MATURITY

Caparoi is a mid season durum, with similar maturity to Wollaroi. It is earlier than EGA Bellaroi and approximately 5 - 7 days later than Jandaroi. The suggested planting window for Caparoi is from mid May to late June.



## AREA OF ADAPTATION

Caparoi was bred for all the main durum producing areas in QLD, NSW, SA and WA.

Caparoi has demonstrated outstanding yield advantages in irrigation trials, and is recommended for dryland and irrigation situations.

Caparoi also possesses boron tolerance, making it particularly adaptable in SA.



## PLANT CHARACTERISTICS

Caparoi has a desirable list of plant characteristics including

- Strong seedling vigour.
- Excellent lodging and shedding resistance, with strong straw strength.
- Semi dwarf plant type, with erect plant growth and attains a havestable height of approximately 80cm.



## DISEASE RESISTANCE

Caparoi exhibits an excellent foliar disease resistance package, similar to current durum varieties.

Caparoi also has been observed to be genetically diverse from EGA Bellaroi and Jandaroi. This broadening of the genetic base of durum varieties is important for long-term sustainable crop production. Like all durum varieties, Caparoi is susceptible to Crown rot and Fusarium head blight. Crown rot is best managed by appropriate crop rotations and stubble management.

Stem rust	Stripe rust	Leaf rust	Yellow leaf spot	Septoria tritici	Fusarium head blight	Crown rot	RLN P. thomei
VR	R	R	Adult R	MR	VS	VS	R



## YIELD

- Caparoi is a high yielding durum with trial results supporting yields similar to or superior to EGA Bellaroi and Wollaroi in northern NSW. Caparoi yields are comparable to Jandaroi in NSW.
- Caparoi will be most suitable for comparison with Wollaroi due to its similar maturity. In South Australia Caparoi has performed 4-10% better than Wollaroi in 2005-7 trials.
- Caparoi has yielded equal to or better than (6-15%) Wollaroi in WA in 2004-5 and 2007 seasons.
- Performance in central and southern Qld has also been impressive, yielding up to 37% better than Wollaroi in Southern Qld and up to 10% better in central Qld.
- Caparoi has been outstanding in irrigated trials, both for yield and for lodging resistance. (NSW DPI trials, 2007/2008)

**Table 1. Long term yield data expressed as % of Caparoi**

Variety	Central QLD	Sth QLD	Nth NSW	SA	WA
	2004-07	2004-07	2002-08	2005-07	2002-08
Caparoi	100	100	100	100	100
Wollaroi	94	85	94	99	79
EGA Bellaroi		98	94	-	-
Jandaroi	101	103	100	98	79
Tamaroi	-	-	-	100	-

Data source: NSW DPI

**Table 2. Southern NSW irrigation trial data 2007-08**

Variety	Average Yield t/ha	Average Lodging score (1=low lodging)
Caparoi	9.75	4.8
Wollaroi	8.33	5.4
Arrivato	9.56	3.3
EGA Bellaroi	9.42	4.2
Yallaroi	8.75	6.1
Tamaroi	8.06	4.4

Data source: NSW DPI (5 trials)



## GRAIN QUALITY

- Caparoi has large grain size, achieving good protein and hectolitre weights with low screenings.
- Caparoi has a high yellow pigment content. Higher than Wollaroi and slightly lower than EGA Bellaroi.
- Caparoi makes pasta of equivalent quality to EGA Bellaroi

## AGRONOMIC GUIDELINES

- Caparoi is adapted to neutral to alkaline soils but not saline or acid soils.
- Sow high quality seed at rates calculated to account for the large grain size. Caparoi has strong seedling vigour but should not be sown below a soil depth of 10cm.
- Caparoi has no known sensitivities to herbicides which is compatible with other current durum varieties.



## PLANT BREEDER RIGHTS AND ROYALTIES

Caparoi is protected by Plant Breeder Rights, any unauthorised commercial propagation or any sale, conditioning, export, import or stocking of propagating material of this variety is an infringement under the Plant Breeder's Rights Act, 1994.

Growers are allowed to retain seed from production of this variety for their own use as seed only.

An End Point Royalty of \$2.86 per tonne (GST inclusive), which includes breeder royalties, applies to this variety.

## ACKNOWLEDGEMENTS

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