

I – DURUM VARIETIES ON DISPLAY AT HART IN 2020

DBA Vittaroi⁽¹⁾ was released in 2017 by NSW DPI and is eligible for ADR grade in SA. DBA Vittaroi is a shorter durum variety with good straw strength and lodging tolerance. It has good resistance to all rusts with good grain size and lower screenings compared to other durum varieties. Maturity is similar to Saintly.

DBA Artemis⁽¹⁾ was released from the Durum Breeding Australia’s Southern Node (University of Adelaide) in 2019, DBA Artemis is a slower developing durum variety with a disease profile similar to DBA-Aurora. It is eligible for ADR upgrade in SA with grain yield and screening similar to both DBA-Aurora and DBA Spes.

Bitalli⁽¹⁾ is well suited to a range of environments with good grain quality, high test weights and improved straw strength. It has yielded extremely well in the NVT across the southern durum growing region over the last two seasons. Bitalli is derived from a Saintly cross, maturing 1-2 days later, but earlier than DBA Aurora. Unlike Saintly, Bitalli is a fully awned variety. It also has an ADR quality classification in the Southern Zone (SA/Vic).

DBA Spes⁽¹⁾ has a similar maturity to DBA-Aurora with a good disease resistance profile, similar to other durum varieties, with improved stem rust resistance (R). It has good grain size and lower screenings compared to the majority of other durum varieties. DBA Spes is eligible for APDR grade in SA and was released from the Durum Breeding Australia’s Southern Node (University of Adelaide) in 2018.

Westcourt⁽¹⁾ was released by AGT in 2019. This variety has mid-season maturity similar to DBA-Aurora. Westcourt has ADR quality classification in SA/Vic with good physical grain characteristics and low screenings.

DBA-Aurora⁽¹⁾ was released by University of Adelaide in 2014 with seed currently available from the Southern Australia Durum Growers Association (SADGA). DBA Aurora has a good disease resistance profile, similar to that of currently available varieties. DBA-Aurora performs well in NVT trials consistently achieving high yields across all sites with improved grain size and lower screenings. DBA-Aurora shows good early vigour and grass weed competitiveness.

Table 1. Durum variety performance at Hart by year (expressed as % of trial average).

Variety	% of trial average at Hart					Grain yield (t/ha)
	2015	2016	2017	2018	2019	2019
Bitalli (AGTD088)					99	2.62
DB ^A Aurora	102	102	100	102	103	2.72
DB ^A Vittaroi				104	96	2.53
Hyperno	98	101	96	95	95	2.50
Saintly	97	85	100	90	97	2.54
DB ^A Spes				102	105	2.76
Westcourt (AGTD090)					107	2.81
WID802				101	103	2.71
DBA Artemis					95	2.50
Trial mean yield (t/ha)	3.07	4.08	4.24	2.31		2.63
Sowing date	May 6	May 10	May 9	May 15		May 15
Apr-Oct rain (mm)	230	356	191	160		162
Annual rain (mm)	353	485	331	224		189

Durum variety trial plan

Buffer	Buffer	Buffer
DBA Artemis	Westcourt	DBA Vittaroi
DBA Aurora	DBA Vittaroi	DBA Artemis
Westcourt	DBA Spes	Bitalli
Bitalli	DBA Artemis	DBA Spes
DBA Vittaroi	DBA Aurora	Westcourt
DBA Spes	Bitalli	DBA Aurora
Buffer	Buffer	Buffer



Seeding date: May 6
Fertiliser: DAP + Impact
Fertiliser rate: 80 kg/ha