DBA Lillaroi
Durum Wheat

VARIETY SUMMARY
- Early - Medium maturity
- Higher grain yield than Jandaroi
- Excellent durum quality with the largest grain size and highest test milling yield together with improved semolina colour compared with current varieties
- Low screenings similar to Jandaroi
- Good resistance to all three rusts
- Improved Crown rot resistance rating compared with Caparoi, Jandaroi and EGA Bellaroi

BREEDING
DBA Lillaroi was bred by the Northern Node of Durum Breeding Australia (DBA) at the Tamworth Agricultural Institute, NSW DPI.
Pedigree: 960273/980596, both the parent lines are experimental breeding lines from Tamworth DBA program.

AREA OF ADAPTATION
DBA Lillaroi is adapted to the rainfed durum producing areas of New South Wales and Queensland. DBA Lillaroi is not recommended for high input irrigation systems without appropriate management.

MATURITY
DBA Lillaroi is an early to medium maturing durum wheat. It has a heading maturity approximately 3 days later than Jandaroi and 3 days earlier than Caparoi.
Suggested sowing time in the northern region is late May to end of June. DBA Lillaroi is also suitable for late sowing (e.g. after a cotton crop). It has performed better than Jandaroi at late sowing times in VSAP trials in 2013 and 2014.

PLANT TYPE
DBA Lillaroi has strong seedling vigour and erect plant growth. It is of similar height to Caparoi with straw strength slightly less than Caparoi.

GRAIN QUALITY
DBA Lillaroi produces large sized grain and low screenings similar to Jandaroi and is superior to Caparoi and EGA Bellaroi.
DBA Lillaroi has significantly higher grain protein than Caparoi but lower than Jandaroi. It readily achieves 13% grain protein and has better semolina colour than Jandaroi, Caparoi and EGA Bellaroi.
DBA Lillaroi has been classified ADR by Wheat Quality Australia for the Northern and South Eastern zones (Northern and Southern NSW and QLD).

DISEASE RESISTANCE RATINGS
DBA Lillaroi has good resistance to all three rusts and it has a Crown rot resistance rating of S-VS, which is a small improvement over Jandaroi, Caparoi and EGA Bellaroi that are rated VS.

Table 1. Disease ratings for DBA Lillaroi compared with other durum varieties (Source: acasnvt.com.au, 23 July 2015)

<table>
<thead>
<tr>
<th>Variety</th>
<th>Stem</th>
<th>Leaf</th>
<th>Stripe</th>
<th>Rust Resistance (P. thornei)</th>
<th>Resistance</th>
<th>Tolerance</th>
<th>Rust Resistance (P. neglectus)</th>
<th>Resistance</th>
<th>Tolerance</th>
<th>Yellow Leaf Spot</th>
<th>Septoria tritici</th>
<th>Crown Rot</th>
<th>Common Root Rot</th>
<th>Black Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jandaroi</td>
<td>R-MR</td>
<td>MR</td>
<td>MR</td>
<td>MR-MS / Mi</td>
<td>MS / Mi</td>
<td>MS</td>
<td>R-MR</td>
<td>VS</td>
<td>MR</td>
<td>R-MR</td>
<td>R-MR</td>
<td>MR-MS</td>
<td>MR-MS</td>
<td>R-MR</td>
</tr>
<tr>
<td>Caparoi</td>
<td>MR</td>
<td>MR-MS</td>
<td>MR</td>
<td>MR / T-MT</td>
<td>MS-S / Mi</td>
<td>MR-MS</td>
<td>MR</td>
<td>VS</td>
<td>MS</td>
<td>MS</td>
<td>MR</td>
<td>MR-MS</td>
<td>MR-MS</td>
<td>MR</td>
</tr>
</tbody>
</table>
GRAIN YIELD AND QUALITY DATA
DBA Lillaro has performed consistently better than Jandaroi in trials across northern NSW and Queensland over four years in NVT and has shown superior quality for key traits.

Table 2. Long term yield performance (2011-2014) of DBA Lillaro compared with other northern durum varieties in NVT (predicted yield averages from main season trials are expressed as a percentage of Jandaroi)

<table>
<thead>
<tr>
<th>Variety</th>
<th>NE NSW</th>
<th>NW NSW</th>
<th>SE NSW</th>
<th>SW NSW</th>
<th>SW QLD</th>
<th>SE QLD</th>
<th>CQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBA Lillaro</td>
<td>103</td>
<td>104</td>
<td>100</td>
<td>104</td>
<td>96</td>
<td>103</td>
<td>102</td>
</tr>
<tr>
<td>Jandaroi</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Caparoi</td>
<td>104</td>
<td>105</td>
<td>97</td>
<td>107</td>
<td>94</td>
<td>99</td>
<td>97</td>
</tr>
<tr>
<td>EGA Bellaro</td>
<td>93</td>
<td>90</td>
<td>94</td>
<td>100</td>
<td>86</td>
<td>92</td>
<td>86</td>
</tr>
</tbody>
</table>

Table 3. Grain quality results for DBA Lillaro compared with other northern durum varieties in NSW NVT (b* data is from DBA S4 trials)

<table>
<thead>
<tr>
<th>Variety</th>
<th>Screenings %</th>
<th>1000 grain weight (g)</th>
<th>Grain protein %</th>
<th>b* (Minolta yellow hue)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBA Lillaro</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jandaroi</td>
<td>3.1</td>
<td>4.1</td>
<td>3.0</td>
<td>43.2</td>
</tr>
<tr>
<td>Caparoi</td>
<td>3.3</td>
<td>5.3</td>
<td>3.2</td>
<td>39.4</td>
</tr>
<tr>
<td>EGA Bellaro</td>
<td>4.2</td>
<td>6.3</td>
<td>3.7</td>
<td>39.7</td>
</tr>
</tbody>
</table>

AGRONOMIC GUIDELINES

**Sowing**
Aim to achieve plant densities of 75-120 plants/m². The lower densities are recommended in areas of lower rainfall.
Seed treatments should be applied to the seed prior to sowing for the control of smuts and other seed-borne diseases. Good paddock selection as well as integrated disease management may help to minimise the impact of crown rot and maximise yield.

**Nutrition**
Whilst DBA Lillaro readily achieves 13% grain protein, nitrogen (N) management is still critical to achieving grain protein levels required for high quality durum. The rate of N application will depend on the amount of N already present in the soil and the anticipated level of uptake by the crop.

**Weed Control**
Controlling weeds in the early stages of crop growth will remove competition and reduce yield loss. A range of pre and post-emergent herbicides are available. DBA Lillaro has no known sensitivities to herbicides registered for durum wheat.

PLANT BREEDER RIGHTS AND ROYALTIES
DBA Lillaro 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 $3.63 per tonne (GST inclusive), which includes breeder royalties to support ongoing investment in durum breeding, applies to this variety.

ACKNOWLEDGEMENTS
DBA Lillaro was bred and developed by DBA North/NSW Department of Primary Industries, Tamworth Agricultural Institute, with support from growers through the GRDC.

For more information call Seednet on 1300 799 246 or visit www.seednet.com.au

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