

# Merinda<sup>®</sup>



- ✓ Main season variety
- ✓ Carinya<sup>®</sup> and Janz replacement
- ✓ Excellent stem and leaf rust resistance
- ✓ Good stripe rust resistance
- ✓ Good black point resistance
- ✓ AH quality classification in NSW



## Breeding

Merinda<sup>®</sup> was tested as SUN435D, and is derived from a cross between a high yielding, rust resistant CIMMYT breeding line, and Janz.

## Grain Quality

Merinda<sup>®</sup> has an AH quality classification in the Northern Zone (nNSW) and the South Eastern Zone (sNSW). Merinda<sup>®</sup> is moderately resistant to black point.

## Plant Characteristics

Merinda<sup>®</sup> is a main season spring wheat, with white chaff and fully awned ears. Merinda<sup>®</sup> is semi dwarf in height with medium straw strength. It is a little slower maturing than Ventura<sup>®</sup> but slightly quicker than Janz.

## Disease Profile

Merinda<sup>®</sup> offers a strong disease resistance profile, with excellent resistance to stem and leaf rust, and good stripe rust resistance. See Table 2 for detailed disease ratings.

## Adaptation and Fit

Merinda<sup>®</sup> has demonstrated robust yield potential across a number of years in NSW regions. The long term yield analysis displayed in Table 1 shows that Merinda<sup>®</sup> yields similarly to Livingston<sup>®</sup> and Spitfire<sup>®</sup> across NSW.

Table 1. Predicted yields of Merinda<sup>®</sup> and control varieties (yield % of EGA Gregory<sup>®</sup>) in NSW regions from NVT long term MET analysis (2008-2012).

Variety	North East NSW	North West NSW	South East NSW	South West NSW
<b>Merinda<sup>®</sup></b>	<b>100</b>	<b>96</b>	<b>96</b>	<b>98</b>
Baxter <sup>®</sup>	88	88	-	-
Dart <sup>®</sup>	97	92	90	95
EGA Gregory <sup>®</sup>	100	100	100	100
Livingston <sup>®</sup>	101	96	96	100
Lincoln <sup>®</sup>	100	94	102	100
Spitfire <sup>®</sup>	100	96	96	97
Suntop <sup>®</sup>	109	103	105	110
Wallup <sup>®</sup>	102	97	97	100

Table 2. Disease ratings for Merinda<sup>®</sup> and control varieties.

Variety	Stem Rust	Stripe Rust	Leaf Rust	Yellow Leaf Spot	Septoria tritici Blotch	Crown Rot	RLN ( <i>P. thornei</i> )	Black Point
<b>Merinda<sup>®</sup></b>	R-MR	MR-MS	R	MS-S	MS	S-VS	MT-MI	MR
Baxter <sup>®</sup>	R,MS	MS-S	MR	S	S	MS	MT-MI	MS
Dart <sup>®</sup>	MR	MR	R-MR	MS	MS	MS-S	MI	MR-MS
EGA Gregory <sup>®</sup>	MR	MR	MR	MS-S	MS	S	MT	MS
Livingston <sup>®</sup>	MR-MS	MR-MS	R	MS	S	S-VS	MT-MI	MR-MS
Lincoln <sup>®</sup>	MR	R-MR	MR	MR-MS	S	VS	VI	MR-MS
Spitfire <sup>®</sup>	MR	MR	MS	MS-S	MS-S	MS	MT-MI	S
Suntop <sup>®</sup>	MR	R-MR	R	MS-S	MS	MS	MT	MR
Wallup <sup>®</sup>	R-MR	MR-MS	MR-MS	MS-S	MS-S	S	MT-MT	MR-MS

R=Resistant, MR=Moderately Resistant, MS=Moderately Susceptible, S=Susceptible, VS=Very Susceptible, T=Tolerant, MT=Moderately Tolerant, MI=Moderately Intolerant, I=Intolerant, VI=Very Intolerant. Source: NSW DPI Winter Crop Variety Sowing Guide 2013.

## Seed Availability

Commercial quantities of Merinda<sup>®</sup> may be available through AGT Affiliates, or your local retailer. Please consult the AGT website for AGT Affiliate contact details.

## PBR and EPR

Merinda<sup>®</sup> is protected by Plant Breeders Rights (PBR) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Merinda<sup>®</sup> growers will be subject to a Growers Licence Agreement that acknowledges that an EPR of \$2.50/tonne + GST has to be paid on all production other than seed saved for planting.

## Acknowledgements

The initial cross was made at the University of Sydney Plant Breeding Institute, Narrabri. Quality evaluation, yield trials and disease resistance testing was undertaken by the former Sunprime (now AGT) Narrabri wheat breeding programme. The variety is named after Mr. Michael Ledingham's property "Merinda", Biniguy, in honour of its long association with plant breeding research.

## More Information

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