

# DS DARWIN

## Benefits

- ◆ Adapts time to maturity in response to the season
- ◆ Wide planting window across medium rainfall zones of southern NSW and VIC
- ◆ High yielding early-mid season variety
- ◆ Strong grain package with large grain size, low screenings, good test weight
- ◆ Excellent standability and harvestability, with excellent straw strength and lodging resistance
- ◆ Australian Hard (AH) Classification in southern NSW, VIC and SA
- ◆ Black point tolerance

## Responds to Seasonal Conditions

When good seasonal conditions persist, DS Darwin has been observed to follow the season, extending its vegetative growing period and time to heading. Similarly, in seasons with tighter springs, DS Darwin has been observed to reduce its time to heading compared to other varieties.

Figure 1 shows DS Darwin's response to different seasonal conditions with regard to heading time when compared to Yitpi. 2013 data shows the response to a softer season, with DS Darwin similar to Derrimut, heading 2-3 days quicker than Yitpi. Whilst in 2014, a harder season, the data shows DS Darwin heading 5-7 days faster, more inline with Scout.

## Breeding

DS Darwin (ADV03.0056) is product developed initially in New Zealand, before being imported through quarantine. The line was selected and extensively tested in Australia since 2008 and first entered NVT (National Variety Trials) testing in 2012.

## Plant Type

DS Darwin is an early to mid season AH wheat which is suited to early to mid May sowing.

DS Darwin has a neat plant type with good standability; it retains its compact plant type under good growing conditions or irrigation, with excellent straw strength and lodging resistance. It performs well under irrigation and dryland conditions.

DS Darwin conveys a solid stripe rust package, being moderately resistant to all current pathotypes. However, it is susceptible to *Septoria tritici* and needs to be managed accordingly, where *Septoria* may be an issue.

DS Darwin exhibits low screenings and a large seed size which should be considered at planting.

# DS DARWIN



## PBR and EPR

DS Darwin is protected by Plant Breeders Rights (PBR). In regard to propagating material (planting seed) of this variety, any unauthorised commercial production or reproduction, conditioning for propagation, offering for sale, sale, import, export or stocking of propagating material is an infringement under the Plant Breeders Rights Act 1994. Grower-to-grower trading of seed of DS Darwin is allowed from 2017-18.

DS Darwin growers will be subject to a Licence Agreement at the point of purchase that acknowledges an End Point Royalty (EPR) payment of \$4.25/tonne excluding GST to be paid on all production other than retained planting seed.

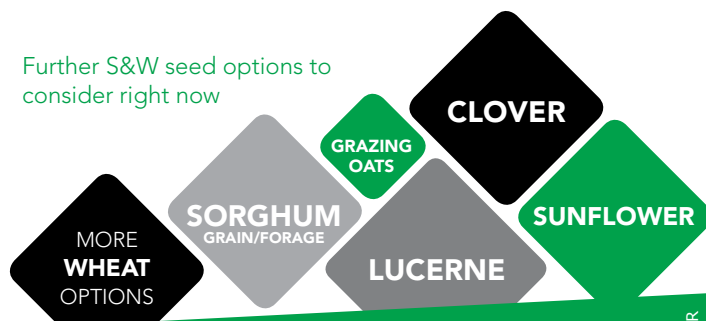
## Seed Availability

S&W wheat seed is available through your SeedNet partner. For more information see [www.swseedco.com.au](http://www.swseedco.com.au) or contact [sales.aus@swseedco.com](mailto:sales.aus@swseedco.com)

## Disclaimer

The information contained in this document is a guide only and is written in good faith on the best knowledge and understanding at the time of writing. Grade eligibility is subject to meeting appropriate receival standards. E&OE. All images indicative.

Further S&W seed options to consider right now



**S&W**  
SEED COMPANY

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# ELITE AUSTRALIAN WHEAT PRODUCT GUIDE DS DARWIN



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**S&W**  
SEED COMPANY

# DS DARWIN Product Guide

Table 1. Yield data from National Variety Trials (NVT) Multi-Environment Trials (MET) analysis 2010-14, southern NSW early to main season

Varieties	NSW South West early		NSW South East early	
	Predicted Average Yield (t/ha)	% Site Mean	Predicted Average Yield (t/ha)	% Site Mean
<b>DS Darwin</b>	4.19	105	4.57	106
Bolac	4.13	103	4.44	103
EGA Gregory	4.16	104	4.55	105
Gauntlet	4.10	103	4.45	103
Lancer	3.76	94	4.12	95
Sunguard	4.01	100	4.39	102
Suntop	4.31	108	4.67	108
Trojan	4.27	107	4.64	108
Predicted Site Mean	4.00		4.32	

Table 3. Grain weight from 2014 SA, 15 NVTs across south east, mid north and York Peninsula

Varieties	Mean 1000 GW (g)	Mean test wt (g)	Mean screenings (%)	Sites downgraded by screenings (%)
<b>DS Darwin</b>	<b>36.1</b>	<b>82.6</b>	<b>2.3</b>	<b>7</b>
Cobra	33.9	80.6	2.5	21
Harper	32.8	82.3	4.0	28
Mace	35.9	82.4	2.4	14
Phantom	35.7	81.0	3.1	28
Scout	34.2	83.3	2.7	28
Titpi	35.0	81.8	3.4	28

## Responds to Changes in Sowing Date

DS Darwin has a wide flexible sowing window that responds with the season to ensure appropriate heading date. In southern NSW 2014 (Figure 2) at an early sowing date (29th April), the heading date of DS Darwin and Gregory were similar. However, when sown in mid-May, DS Darwin was almost a week quicker than Gregory, and crops were maturing into a very tough finish. This adaptability to adjust the time to maturity and respond to the season ensures the highest potential yield in all seasonal conditions.

Table 2. Yield data from 2010-14 internal MET analysis, VIC and SA (% of Yitpi)

Varieties	No. trials	Sown early (Apr)	Sown mid (May)	Sown late (Jun)	Vic, south	Vic, north	SA, south east	SA, mid north
<b>DS Darwin</b>	<b>35</b>	<b>102</b>	<b>110</b>	<b>106</b>	<b>107</b>	<b>101</b>	<b>97</b>	<b>113</b>
Bolac	31	100	100	109	109	100	104	96
Corack	12	98	108	113	105	103	100	110
Mace	25	94	110	119	110	103	94	113
Scout	27	101	111	122	122	101	104	111
Trojan	5	103	109	110	112	no data	100	114
Wallup	15	92	108	117	114	101	99	111
Yitpi	35	100	100	100	100	100	100	100

Resistance Ratings: R = Resistant, R-MR = Resistant-Moderately Resistant, MR-MS = Moderately Resistant-Moderately Susceptible, MS = Moderately Susceptible, MS-S = Moderately Susceptible-Susceptible, S = Susceptible, S-VS = Susceptible-Very Susceptible, VS = Very Susceptible, (P) = provisional rating.

Table 4. Disease resistance rating

Varieties	Stripe Rust	Stem Rust	Leaf Rust *New Pathotype	CCN	Crown Rot	RLN - P Neglectus	RLN - P Thomei	Septoriaartici	Yellow Leaf Spot	Black Point
<b>DS Darwin</b>	<b>MR</b>	<b>MR-MS</b>	<b>S-VS(P)</b>	<b>MR-MS</b>	<b>S</b>	<b>MS-S</b>	<b>S</b>	<b>S-VS</b>	<b>MS-S</b>	<b>MR</b>
Corack	MS	MR	S-VS(P)	R-MR	S	MS-S	MR-MS	S-VS	MR(P)	MS-S
Derrimut	MS-S	MR	MS(P)	R	MS	MS-S	S-VS	S	S	MS-S
Mace	S-VS	MR	MS-S(P)	-	S	MS	MR-MS	S	MR-MS	MS
Scout	MS	MR	MR-MS(P)	R	S	S-VS	S-VS	MS-S	S-VS	S
Spitfire	MR	MR	S(P)	MS	MS	MS-S	VS	MS-S	MS-S	S

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Figure 1. Effect of conditions on time to heading, relative to Yitpi (Vic and SA, 2013 and 2014)

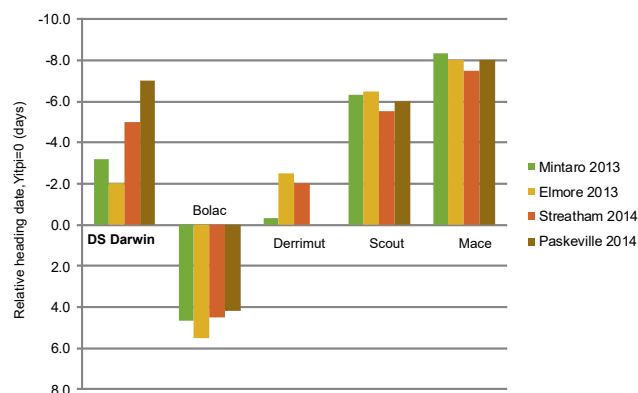


Figure 2. Effect of sowing date on time to heading, relative to Gregory (Temora 2014)

