



Spartacus CL[Ⓛ]

Barley

syngenta®

EASTERN AUSTRALIA

Early maturing, superior yielding,
Clearfield® barley.

KEY FEATURES

- ▶ Highest yielding Clearfield® barley; yielding on average 10-15% higher than Scope CL[Ⓛ]
- ▶ Good straw strength, lodging resistance and head retention compared to Scope CL[Ⓛ]
- ▶ CCN Resistant
- ▶ Robust disease resistance profile
- ▶ Short rachilla hair length, reducing itchiness
- ▶ Available for planting in 2017



Clearfield®
Production System

®



Spartacus CL [Ⓛ]

Barley



MATURITY

Spartacus CL^(l) is an early maturing, potential malting barley and has a similar maturity to La Trobe^(l).

RAINFALL

Spartacus CL^(l) is ideally suited to the low to medium rainfall regions of Australia and performs best when sown:

Low < 300mm	Med 380-480mm	High > 480mm
Ideal Sowing Periods		
Early-late May	Early May - Early June	Mid May - Mid June

MALT ACCREDITATION

Spartacus CL^(l) is currently undergoing Malt Accreditation with a final accreditation decision likely in March 2018. Spartacus CL^(l) is currently classified as a feed variety.

DISEASE

Spartacus CL^(l) provides a robust disease resistance profile and is resistant to CCN.

For Net Form of Net Blotch & Spot Form of Net Blotch, a foliar fungicide such as AMISTAR XTRA[®] or COGITO[®] may be required. Specifically for Spot Form of Net Blotch, in medium to high rainfall growing situations, early disease suppression through the use of UNIFORM[®] in furrow or applied to the fertiliser, coupled with a foliar fungicide program can effectively provide adequate disease control. Alternatively, under high disease pressure situations COGITO[®] applied at GS30-32 followed by AMISTAR XTRA[®] at GS37-47 will provide effective control.

For powdery mildew, additional management techniques will be of benefit, particularly in higher rainfall regions. VIBRANCE[®] seed treatment is recommended, along with the application of foliar fungicides such as AMISTAR XTRA will provide the best level of control and protection.

Higher rainfall regions may provide seasonal conditions conducive for Barley Leaf Rust development. Foliar management may be required in the form of 2 x 200mL/ha of AMISTAR XTRA[®] or in lower rainfall areas, COGITO[®] can be used.

With this medium-low rainfall variety, scald disease incidences are expected to be low, however, when grown in high disease pressure environments, a robust foliar fungicide program will be required.

	Scald	Net form net blotch	Spot form net blotch	Powdery mildew	BYDV	Leaf rust	CCN
Baudin ^(l)	SVS	MRMS/S	MSS	VS	MR	VS	S
Buloke ^(l)	S	MR	S	R	MRMS	S	S
Compass ^(l)	SVS	MR#	MSS	RMR#	MR	VS	R
Commander ^(l)	S	MSS	MSS	MRMS#	MRMS	S	R
Hindmarsh ^(l)	R-VS	MR	SVS	R#	S	S	R
La Trobe ^(l)	R-VS	MR	SVS	RMR#	S	S	R
Granger ^(l)	SVS	MRMS	SVS	R	MRMS	MR	R
Gairdner ^(l)	SVS	MRMS	S	S	S	S	S
Rosalind ^(l)	S	MR	SVS	RMR#		MR	
Scope CL Plus ^(l)	S	MR	MSS	R	MR	S	S
Spartacus CL ^(l)	R-VS	MR	SVS	MR#	S	S	R

Source: 2016 Victorian Winter Crop Summary

R=Resistant, MR=Moderately Resistant, MS=Moderately Susceptible, S=Susceptible, VS=Very Susceptible # Pathotype dependent p – provisional rating – information not available. Disease reactions vary between states; always refer to individual state variety guides for local information.

Clearfield[®] Barley

Syngenta and InterGrain only support the use of Australian Pesticides and Veterinary Medicines Authority (APVMA) approved imidazolinone chemistry for Spartacus CL. Based on current registrations the herbicide options for the varieties is as follows:

Pre-Emergent Herbicide: Sentry[®]

<http://m.cropcare.com.au/assets/2189/1/SentrylabelAPPROVED20160331.pdf>

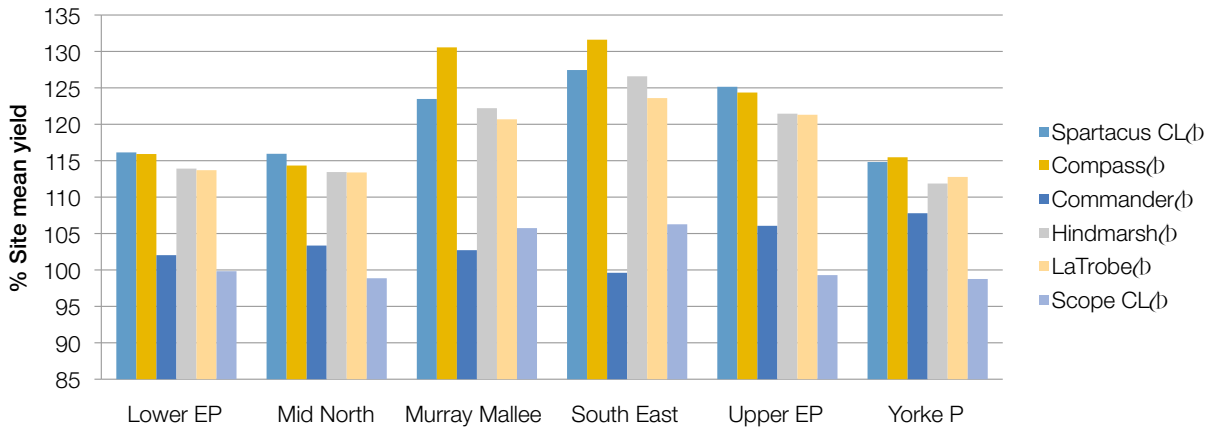
<http://m.cropcare.com.au/assets/2208/1/TNSentry-2016PreEmSpartacus.pdf>

Post-Emergent Herbicide Option: Intervix[®]

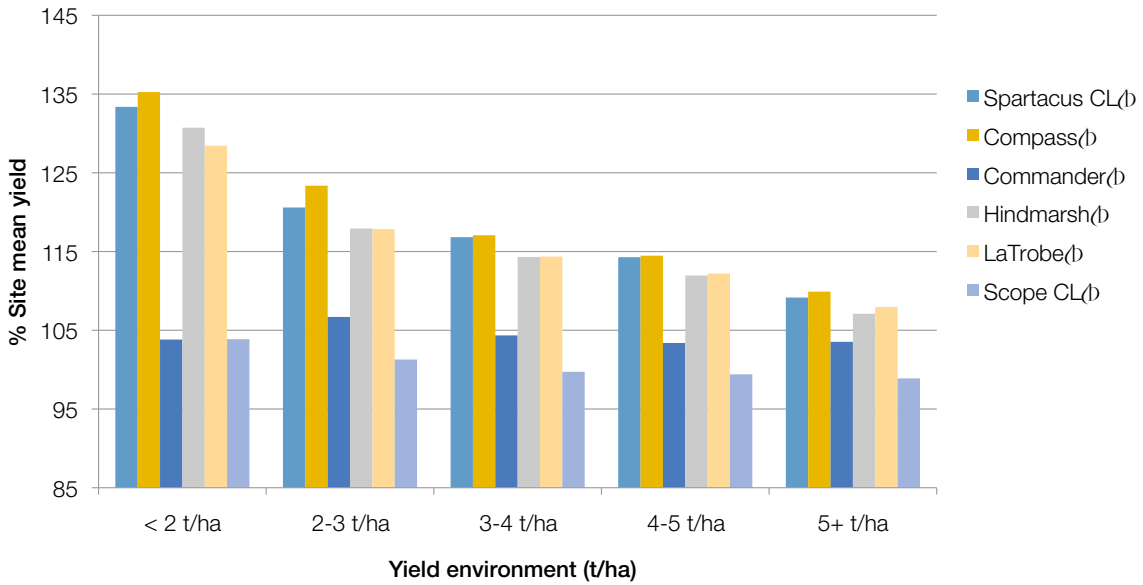
<http://www.agro.basf.com.au/product-finder/intervix%C2%AE>

YIELD

SOUTH AUSTRALIA



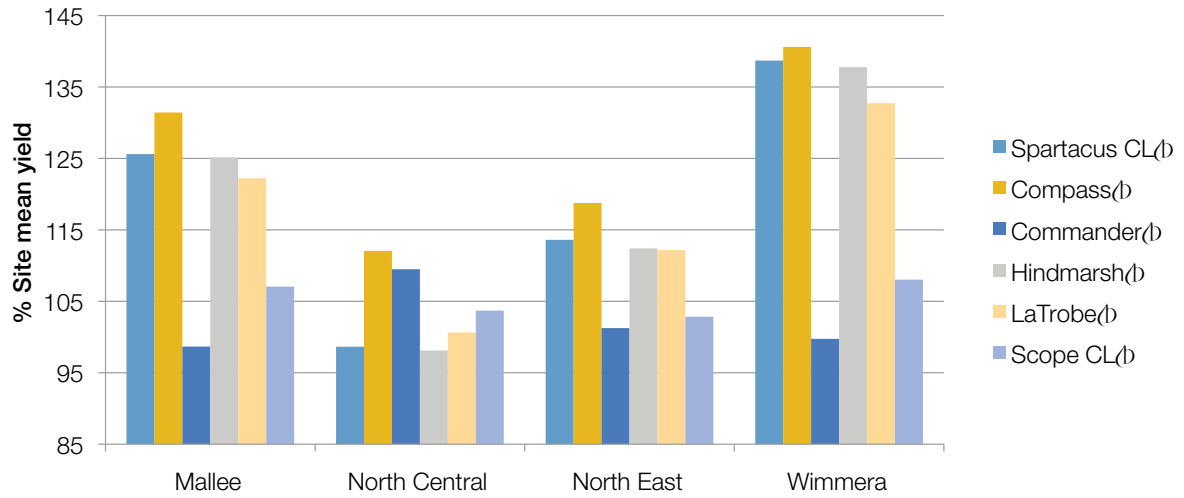
2014-15 SA NVT MET variety performance; represented regionally as a % of site mean yield.



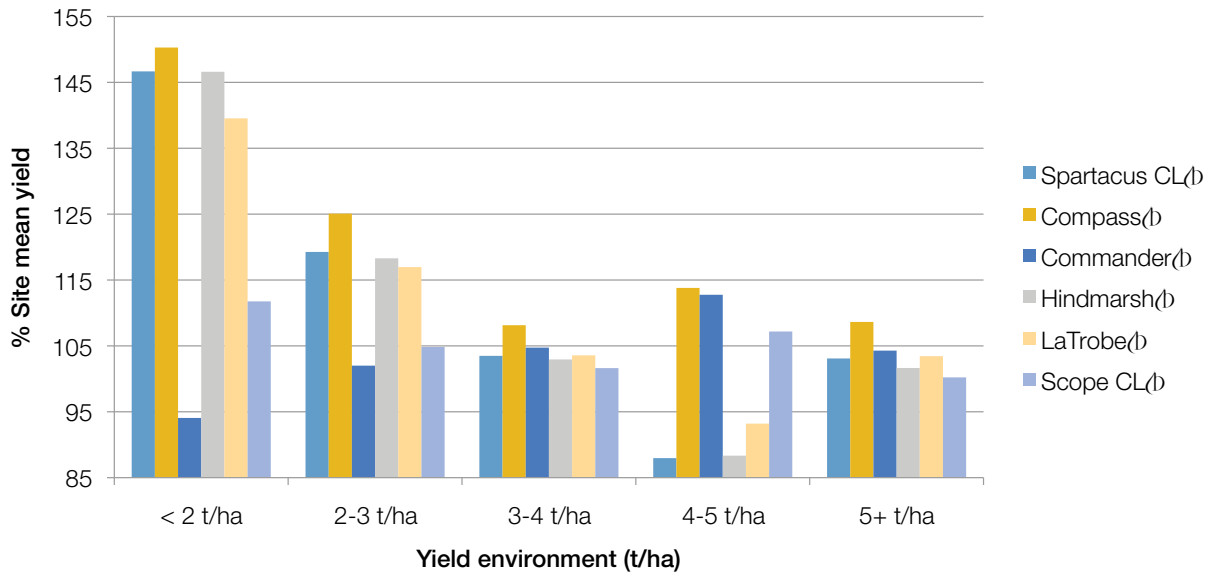
2014-15 SA NVT MET variety performance; represented by yield environment as a % of site mean yield.

YIELD

VICTORIA

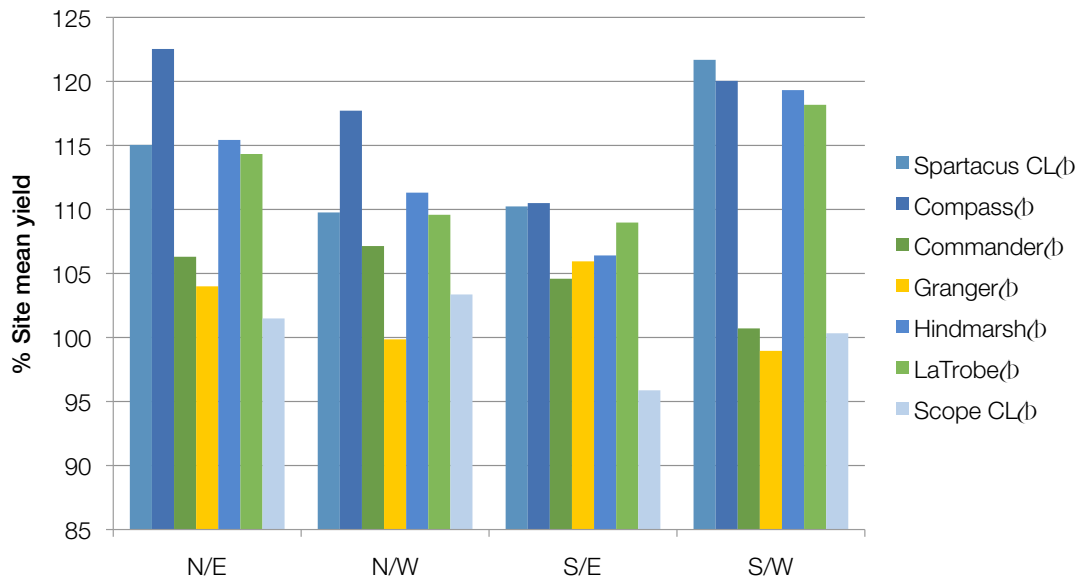


2014-15 Victorian NVT MET variety performance; represented regionally as a % of site mean yield.

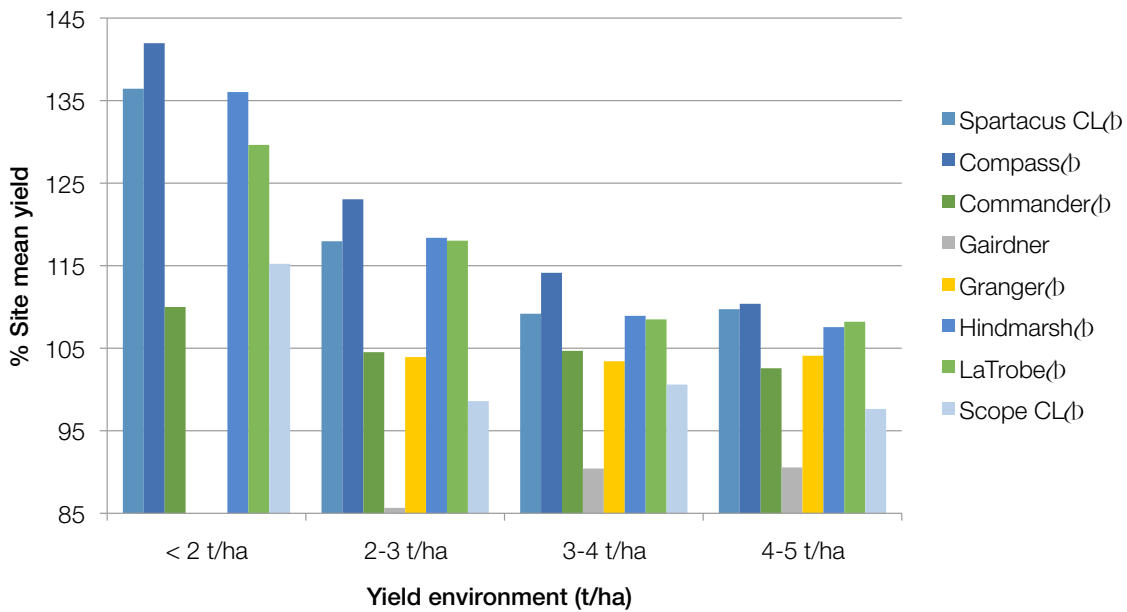


2014-15 Victorian NVT MET variety performance; represented by yield environment as a % of site mean yield.

NEW SOUTH WALES



2014-15 NSW NVT MET variety performance; represented regionally as a % of site mean yield.



2014-15 NSW NVT MET variety performance; represented by yield environment as a % of site mean yield.



Spartacus CL^(b)

Barley

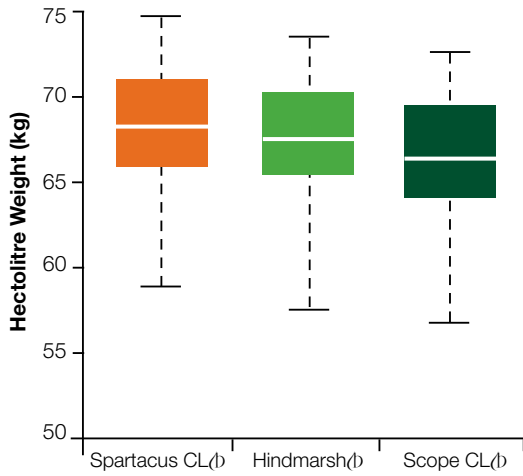


GRAIN QUALITY

Spartacus CL^(b) has excellent physical grain characteristics. It has good grain plumpness, surpassing Scope CL^(b) and an improvement over La Trobe^(b). It has excellent hectolitre weight.

Hectolitre Weight

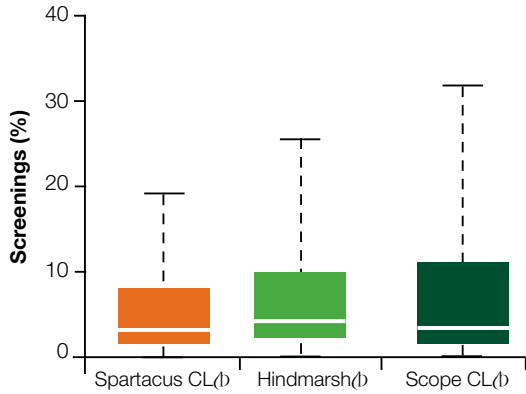
Spartacus CL^(b) exhibits very good hectolitre weight, consistently exceeding La Trobe^(b) and Scope CL^(b).



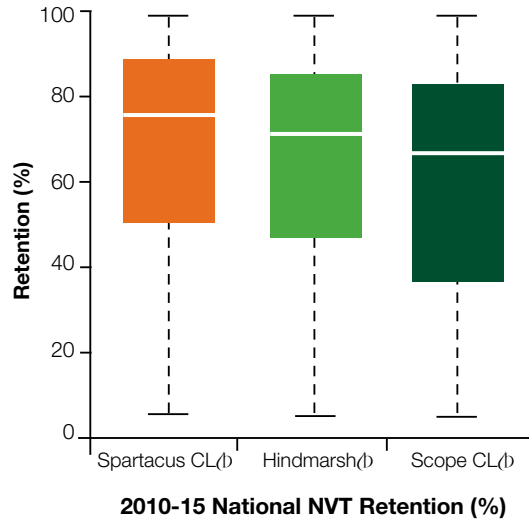
2010-15 National NVT Hectolitre weight (kg/hl)

Grain Size

Spartacus CL^(b) has very good grain size, providing high retention and low screenings.



2010-15 National NVT Screenings (%) (<2.2mm)



PLANT FEATURES

- ▶ Spartacus CL(1) is a high yielding, early maturing barley.
- ▶ Spartacus CL(1) has moderately good straw strength and head retention, an improvement compared to Scope CL(1). This combined with a high level of pre-harvest sprouting tolerance will prove a definite advantage in seasons where there is above average harvest rainfall.
- ▶ The variety also has a short rachilla hair length and is considered relatively “itch-less”.
- ▶ Spartacus CL(1) has a similar plant height and architecture to La Trobe(1) and has an erect growth habit.
- ▶ Spartacus CL(1) has a short coleoptile and it is recommended that sowing depth be considered when planting this variety. It is also recommended that VIBRANCE® be applied to the seed to minimise seed treatment impacts on coleoptile length and subsequent pre-emergent herbicide interaction. This treatment will provide greater sowing depth flexibility and maximise early seedling vigour and emergence.

	Classification	Maturity	Coleoptile Length	Height	Head Loss	Lodging	Grain Plumpness
Buloke(1)	Malt	Moderately early	Short	Moderately Tall	MS	M	6
Baudin(1)	Malt	Mid-season	Medium	Short	MR	R	7
Commander(1)	Malt	Moderately early	Medium	Medium	M	M	8
Compass(1)	Potential Malt	Moderately early	Medium	Medium	M	M	8
Gairdner	Malt	Mid-late	Medium	Medium	MR	R	5
Granger(1)	Malt	Mid-late	Medium	Medium	MR	R	
Hindmarsh(1)	Food	Very early	Short	Short-moderately short	MR	R-MR	6
Rosalind(1)	Feed	Moderately early	Short	Moderately short	R	R	6-7
Spartacus CL(1)	Malt	Early	Short	Moderately short	R	R	6-7
La Trobe(1)	Malt	Early	Short	Short-moderately short	MR	R-MR	6
Scope CL(1)	Malt	Moderately early	Short	Moderately Tall	MS	M	6

2016 Victorian Winter Crop Summary. Coleoptile length source: 2016 DAFWA Barley Variety Guide, Rosalind(1) Plant features source: InterGrain Barley Breeding

SEED AVAILABILITY

Spartacus CL(1) is now available from your local reseller or Syngenta Seedgro member. For more information, visit www.intergrain.com.

PLANT BREEDING RIGHTS (PBR) AND END POINT ROYALTIES (EPR)

Spartacus CL(1) is protected by Plant Breeders 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 Breeders Rights 1994. La Trobe(1) is subject to an EPR of \$4.25 per metric tonne (GST exclusive), payable on all production excluding seed saved for future crops.

Spartacus CL(1) is an Agriculture Victoria Services (AVS) variety bred by David Moody and the InterGrain barley breeding team. InterGrain manages the collection of End Point Royalties (EPR) as part of the Plant Breeders Rights variety licencing agreement. The royalties are collected for investment into continued plant breeding research and development of improved varieties for Australian farmers.

Cover photo: Barley

SEEDGRO PARTNER CONTACTS

Seedgro Partner	State	Location	Contact Number
Wimmera Grain	VIC	Rupanyup	(03) 5385 5344
AGF Seeds	VIC	Smeaton	(03) 5345 6262
Baker Seed Co.	VIC	Rutherglen	(02) 6032 9484
Hart Bros Seeds	NSW	Junee	(02) 6924 7206
Agrigrain	NSW	Narromine	(02) 6889 2200
Superior Seed Co.	NSW	Deniliquin	(03) 5881 6689
A.G. Schilling & Co (Seeds)	SA	Kadina	(08) 8825 7224
Breona Farming	SA	South Kilkerran	(08) 8836 7238
Booloroo Centre Seeds	SA	Booloroo Centre	(08) 8667 2286
Manoora Seeds	SA	Manoora	(08) 8848 4335
Modra Seeds	SA	Ungarra	(08) 8688 8094
RH Verner & Co.	SA	Mallala	(08) 8520 2182
Australian Seed & Grain	WA	Moora	(08) 9651 1069
E.D.S.C.O	WA	Kellerberrin	(08) 9045 4036
Multiseed Productions	WA	Esperence	(08) 9071 1053

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