



# Spartacus CL<sup>Ⓛ</sup>

Barley

syngenta<sup>®</sup>

WESTERN AUSTRALIA

Early maturing, superior yielding,  
Clearfield<sup>®</sup> barley.

## KEY FEATURES

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



Clearfield<sup>®</sup>  
Production System

®



# Spartacus CL<sup>(b)</sup>

## Barley



### MATURITY

Spartacus CL<sup>(b)</sup> is an early maturing, potential malting barley and has a similar maturity to La Trobe<sup>(b)</sup>.

### RAINFALL

Spartacus CL<sup>(b)</sup> is ideally suited to the low to medium rainfall regions of Australia and performs best when sown:

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

### MALT ACCREDITATION

Spartacus CL<sup>(b)</sup> is currently undergoing Malt Accreditation with a final accreditation decision likely in March 2018. Spartacus CL<sup>(b)</sup> is currently classified as a feed variety.

### DISEASE

Spartacus CL<sup>(b)</sup> 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<sup>®</sup> or COGITO<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> applied at GS30-32 followed by AMISTAR XTRA<sup>®</sup> at GS37-47 will provide effective control.

For powdery mildew, additional management techniques will be of benefit, particularly in higher rainfall regions. VIBRANCE<sup>®</sup> 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<sup>®</sup> or in lower rainfall areas, COGITO<sup>®</sup> can be used.

With this medium 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 type net blotch | Powdery mildew | BYDV | Leaf rust |
|------------------------------|-------|---------------------|----------------------|----------------|------|-----------|
| Bass <sup>(b)</sup>          | MRMS  | MS-S *              | S                    | MS             | MR   | MR/S#     |
| Hindmarsh <sup>(b)</sup>     | MRMS  | MS *                | SVS                  | MRMS           | S    | S         |
| La Trobe <sup>(b)</sup>      | MR    | MRMS *              | SVS                  | MRMS           | Sp   | S         |
| Rosalind <sup>(b)</sup>      | MSp   | MRp                 | Sp                   | MRMSp          | Sp   | MRp       |
| Spartacus CL <sup>(b)</sup>  | MRp   | MRp                 | SVSp                 | MRMSp          | Sp   | -         |
| Scope CL Plus <sup>(b)</sup> | MS    | MR-MS *             | S                    | R              | MRp  | S         |

Source: 2016 DAFWA Barley Variety Guide

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<sup>®</sup> Barley

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

#### Pre-Emergent Herbicide: Sentry<sup>®</sup>

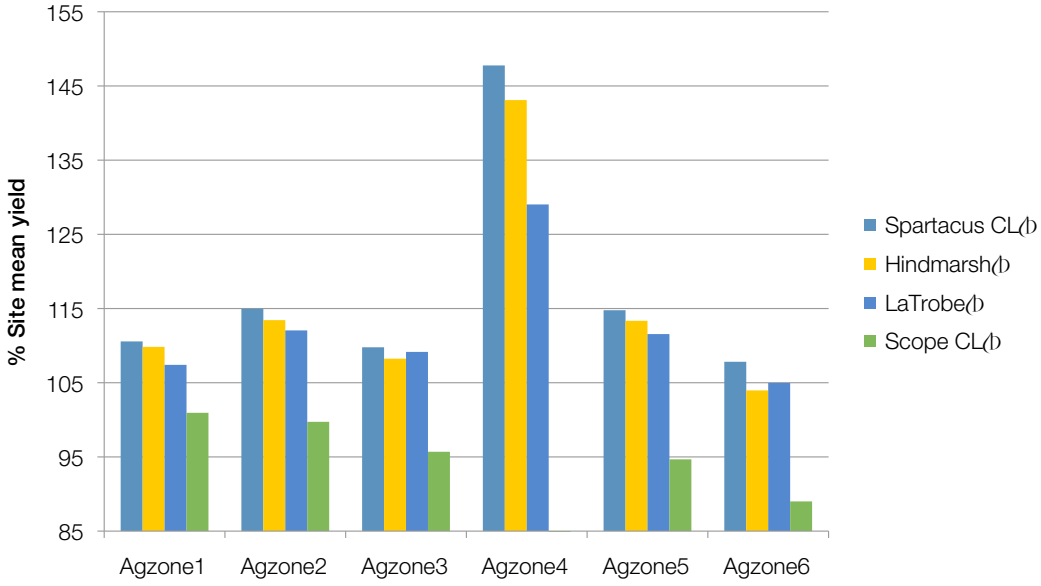
<http://m.cropcare.com.au/assets/2189/1/SentrylabelAPPROVED20160331.pdf>  
<http://m.cropcare.com.au/assets/2208/1/TNSentry-2016PreEmSpartacus.pdf>

#### Post-Emergent Herbicide Option: Intervix<sup>®</sup>

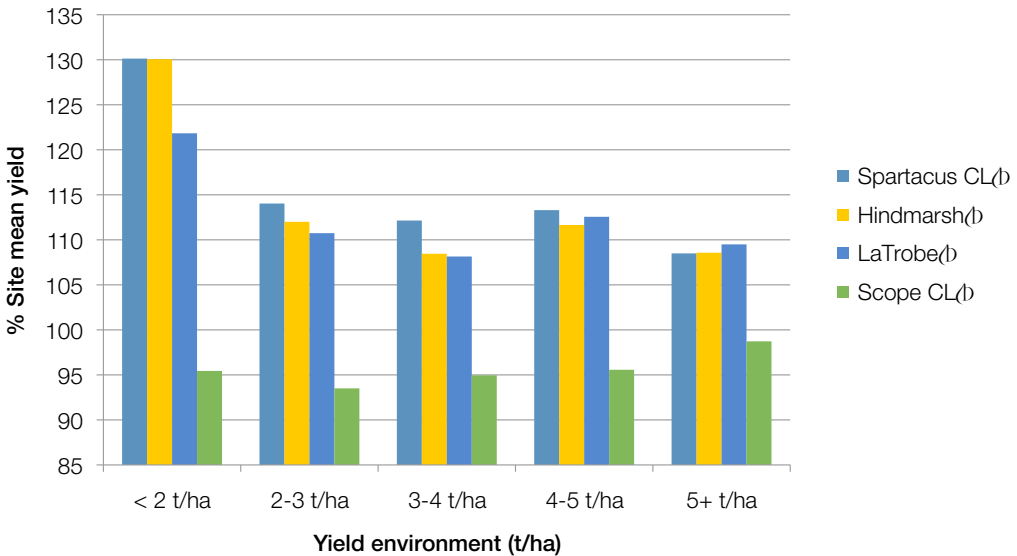
<http://www.agro.basf.com.au/product-finder/intervix%C2%AE>

YIELD

WESTERN AUSTRALIA



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



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



# Spartacus CL<sup>(b)</sup>

## Barley

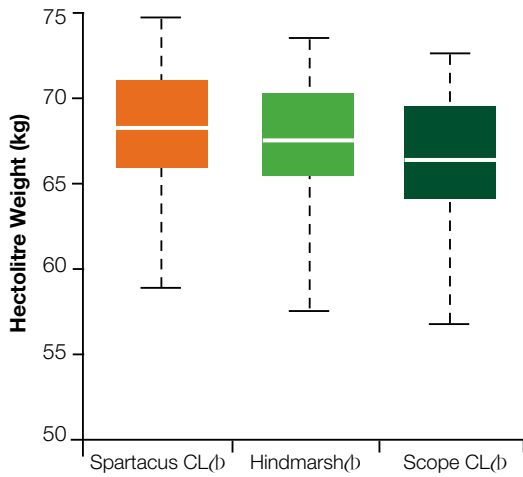


### GRAIN QUALITY

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

#### Hectolitre Weight

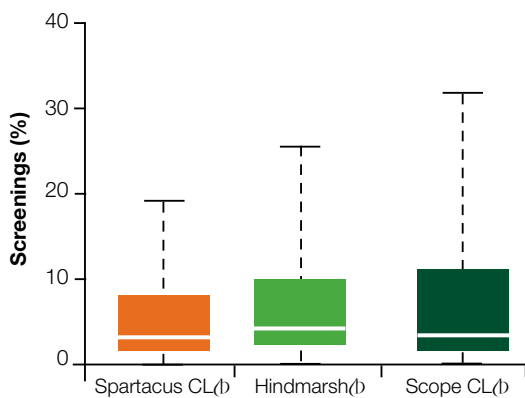
Spartacus CL<sup>(b)</sup> exhibits very good hectolitre weight, consistently exceeding La Trobe<sup>(b)</sup> and Scope CL<sup>(b)</sup>.



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

#### Grain Size

Spartacus CL<sup>(b)</sup> has very good grain size, providing high retention and low screenings.



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



## PLANT FEATURES

- ▶ Spartacus CL<sub>(b)</sub> is a high yielding, early maturing barley.
- ▶ Spartacus CL<sub>(b)</sub> has moderately good straw strength and head retention, an improvement compared to Scope CL<sub>(b)</sub>. 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<sub>(b)</sub> has a similar plant height and architecture to La Trobe<sub>(b)</sub> and has an erect growth habit.
- ▶ Spartacus CL<sub>(b)</sub> has a short coleoptile and it is recommended that sowing depth be considered when planting this variety. It is also recommended that VIBRANCE<sup>®</sup> 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 with late May sowing | Coleoptile Length | Straw Strength | Height | Head loss risk | Grain Plumpness | Rachilla Hair Length |
|------------------------------|----------------|-------------------------------|-------------------|----------------|--------|----------------|-----------------|----------------------|
| Bass <sub>(b)</sub>          | Malt           | Medium                        | Medium            | Very good      | Short  | Medium         | Good            | Long                 |
| Hindmarsh <sub>(b)</sub>     | Food           | Early                         | Short             | Fair           | Medium | Low            | Mod. good       | Short                |
| La Trobe <sub>(b)</sub>      | Malt           | Early                         | Short             | Mod. Good      | Medium | Low            | Mod. good       | Short                |
| Rosalind <sub>(b)</sub>      | Feed           | Moderately early              | Short             | Mod. Good      | Medium | Low            | Mod. good       | -                    |
| Spartacus CL <sub>(b)</sub>  | Potential Malt | Early                         | Short             | Mod. Good      | Medium | Low            | Mod. good       | Short                |
| Scope CL Plus <sub>(b)</sub> | Malt           | Medium                        | Short             | Fair           | Tall   | High           | Fair            | Long                 |

**Source: 2016 DAFWA Barley Variety Guide. Spartacus CL<sub>(b)</sub> and Rosalind<sub>(b)</sub> Plant Features Source: InterGrain Barley Breeding**

## SEED AVAILABILITY

Spartacus CL<sub>(b)</sub> is now available from your local reseller or Syngenta Seedgro member. For more information, visit [www.intergrain.com](http://www.intergrain.com).

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

Spartacus CL<sub>(b)</sub> 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<sub>(b)</sub> 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<sub>(b)</sub> 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    | Moorra          | (08) 9651 1069 |
| E.D.S.C.O                   | WA    | Kellerberrin    | (08) 9045 4036 |
| Multiseed Productions       | WA    | Esperence       | (08) 9071 1053 |

### VISIT [WWW.SYNGENTA.COM.AU](http://WWW.SYNGENTA.COM.AU)

For further information please call the Syngenta Technical Product Advice Line on 1800 067 108 or visit [www.syngenta.com.au](http://www.syngenta.com.au). Product labels and usage directions should be followed for the application of any product referred to in this publication. The information contained in this brochure is believed to be accurate. No responsibility or liability is accepted in respect of this information and those non-excludable conditions implied by and Federal or State legislation or law of a Territory. ® Registered trademark of a Syngenta Australia. \*Registered trademark SB16-277