



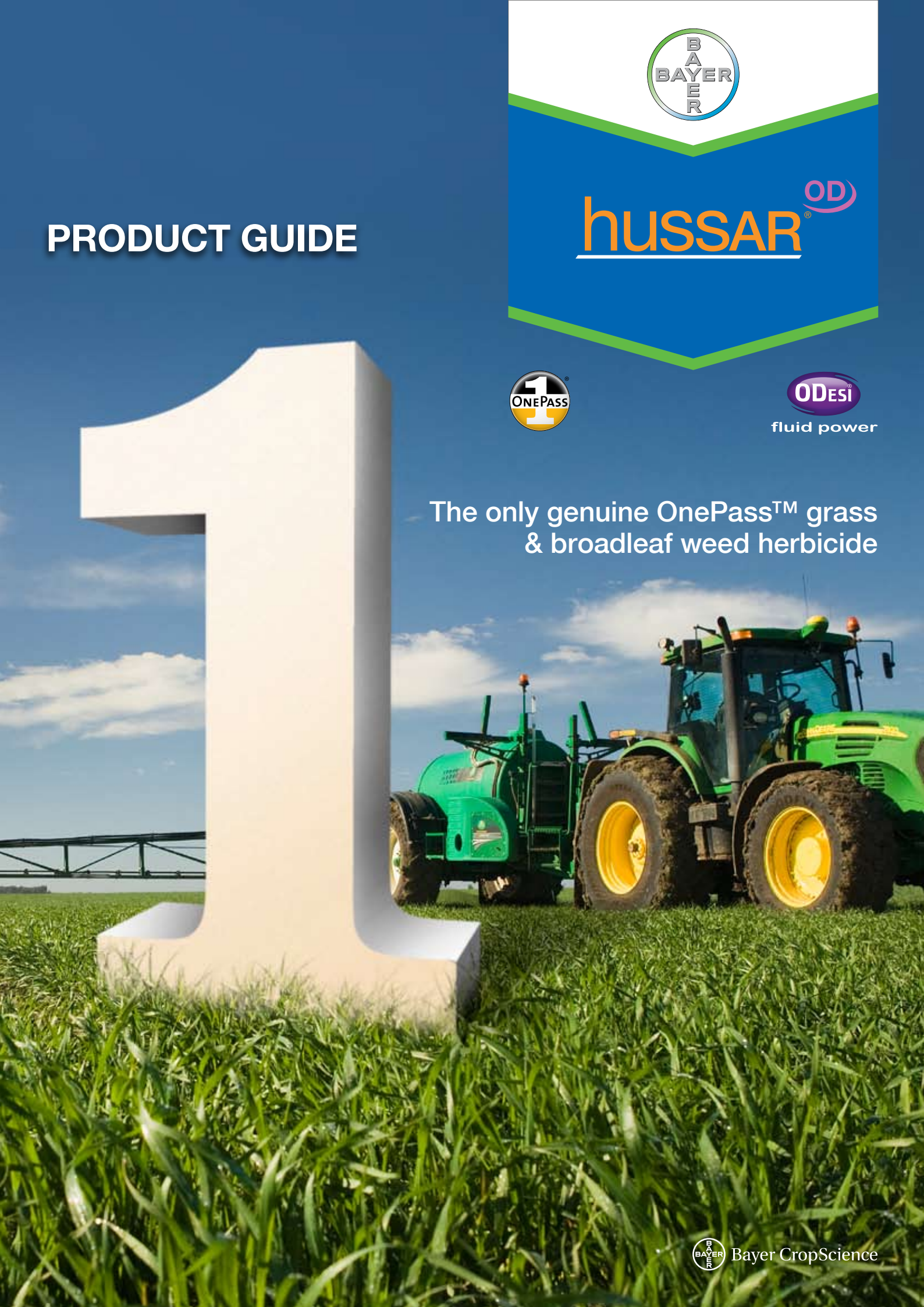
# PRODUCT GUIDE

hussar<sup>OD</sup>



fluid power

The only genuine OnePass™ grass & broadleaf weed herbicide



Bayer CropScience

# WHAT HUSSAR® OD CAN DO

## IN WHEAT

### Control key grass weeds:

- ✓ ANNUAL RYEGRASS
- ✓ WILD OATS
- ✓ ANNUAL PHALARIS

### Plus a large range of broadleaf weeds, including:

- ✓ WILD RADISH
- ✓ INDIAN HEDGE MUSTARD
- ✓ WIREWEED
- ✓ DOUBLEGEE (SPINY EMEX)
- ✓ PATERSON'S CURSE
- ✓ VOLUNTEER LEGUMES\*
- ✓ FUMITORY
- ✓ TOADRUSH\*\*
- ✓ DEADNETTLE
- ✓ BLACK BINDWEED\*\*
- ✓ BEDSTRAW\*\*

\*Not all legumes. \*\*Suppression only.

## IN BARLEY

From 2010, Hussar OD is registered in barley, but only for the control of:

ANNUAL RYEGRASS  
WILD OATS  
ANNUAL PHALARIS (*Phalaris paradoxa* only)

The use of Hussar OD in barley requires adherence to stricter application guidelines than in wheat.

So please consult your local accredited crop centre agronomist before spraying. Do not apply Hussar OD to barley unless no other weed control option is viable.

# WHEN TO CHOOSE HUSSAR OD

As the only genuine OnePass™ herbicide, Hussar OD is a particularly convenient and cost-effective weed control solution, delivering significant savings in time, labour and machinery costs while minimising the risk that early grass weed control might be lost to herbicide antagonism.

Ideal situations for using Hussar OD include:

- When broadleaf weeds emerge with any of the 3 key grass weeds Hussar OD controls, including troublesome broadleaf weeds such as Paterson's curse, wireweed and bedstraw (suppression only).

- For control or suppression of 21 broadleaf weeds, with high levels of activity on the brassica (i.e. charlock, Indian hedge mustard, turnip weed, wild radish) range of weeds.
- In a wheat and barley phase (in certain conditions), when Hussar OD provides an effective grass weed selective herbicide alternative to group A herbicide products.

# HOW TO APPLY HUSSAR OD

- As a thorough, even foliar spray, when growing conditions are good.
- Use a standard boom sprayer fitted with by-pass or mechanical agitation.
- Use a flat-fan nozzle to spray a MEDIUM droplet as defined by the ASAE S572 standard).
- Apply in 50 to 80 L water/ha.
- Always add a surfactant such as a non-ionic wetting agent (e.g. BS1000 at 0.25% v/v), except when using in barley (see specific instructions).

## Spray drift restraints

**DO NOT** apply when wind speed is less than 3 or more than 20 kilometres per hour at the application site.

**DO NOT** apply during surface temperature inversion conditions at the application site.

## Mandatory no-spray zones

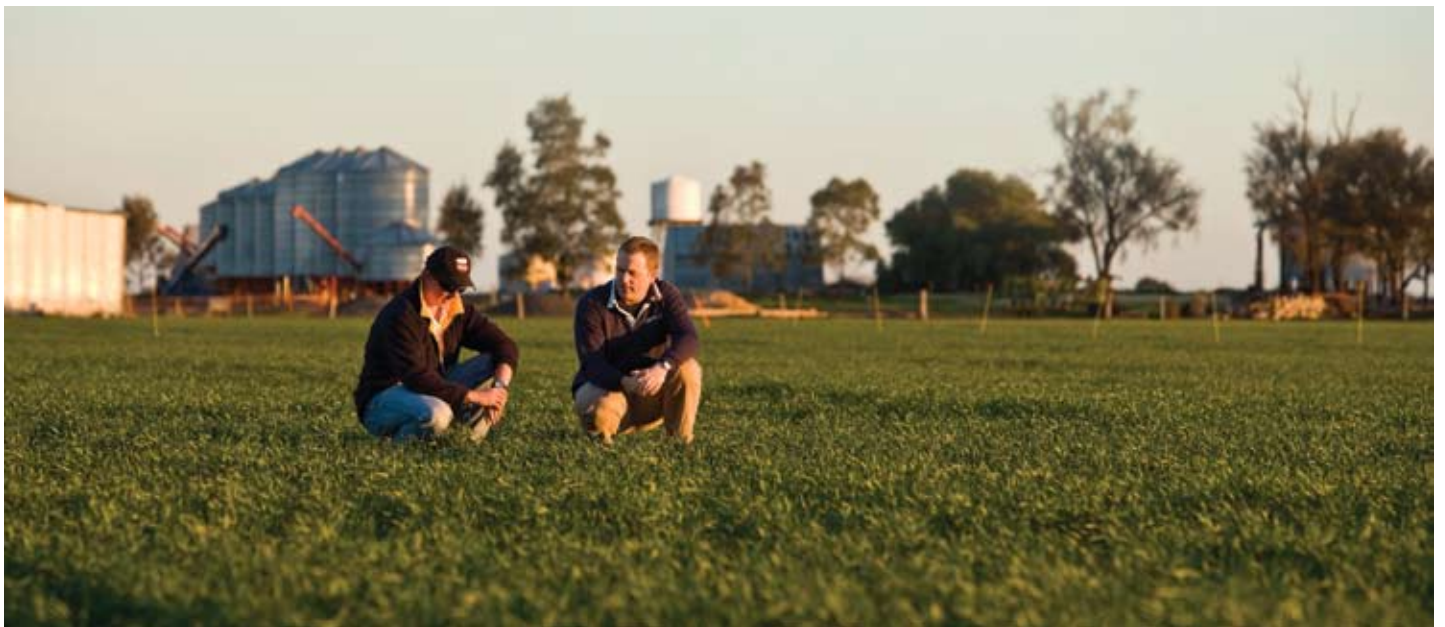
**DO NOT** apply when there are non-target plants or aquatic or wetland areas including aquacultural ponds or surface streams and rivers within 15 metres downwind from the application area.

**Hussar OD must not be applied by aircraft.**

# THE ODesi® ADVANTAGE

ODesi droplet technology, developed by Bayer CropScience and currently exclusive to our Hussar OD and Atlantis OD formulations, provides:

- better spray retention,
- better spreading and
- better uptake.



## TANK-MIXING HUSSAR OD

### Herbicides

As a OnePass product, Hussar OD covers a very broad spectrum of weeds on its own, however tank-mixing (for wheat only) with Lontrel<sup>®</sup>, Starane<sup>®</sup> and MCPA LVE can produce even better results on some weeds without compromising efficacy on any other weeds or creating adverse crop effects.

Herbicide mixture	Application rate	Comments
Lontrel	Label rates	Compatible (SL and SG formulation)
Starane	Label rates	Compatible
MCPA LVE	Maximum of 500 mL/ha	Compatible (up to rates of 500 mL/ha)

### Fungicides

Hussar OD is physically compatible with Folicur<sup>®</sup> and both physically and field tested for crop safety with Prosaro<sup>®</sup>.

Fungicide mixture	Application rate	Comments
Folicur 430SC	Label rates	Physically compatible, however constant agitation is required to alleviate settling
Prosaro 420SC	Label rates	Compatible

### Insecticides

Hussar OD is physically compatible with Le-mat<sup>®</sup> and dimethoate-based formulations.

Insecticide mixture	Application rate	Comments
Dimethoate	Maximum of 500 mL/ha	Compatible
Le-mat	Label rates	Compatible

## RESISTANCE MANAGEMENT

### GROUP B HERBICIDE

Hussar OD is a Group B herbicide. Group B resistance exists in Australia in the grass weeds, annual ryegrass, barley grass, brome grass, wild oats and crab grass and in at least 15 broadleaf weeds including, wild radish, common sowthistle, climbing buckwheat, turnip weed, wild mustard, Indian hedge mustard, prickly lettuce, wild turnip and African turnip weed.

More details are available at [www.croplife.org.au](http://www.croplife.org.au), but the guidelines include:

- Avoid applying more than two Group B herbicides in any four-year period on the same paddock.

#### Broadleaf weed control:

- If a pre-emergent application is made with a Group B herbicide for broadleaf weed control, monitor results and, if required, apply a follow-up spray with a non-Group B herbicide for control of escapes and to reduce seed-set.
- If a post-emergent application is made with a Group B herbicide for broadleaf weed control, this should preferably be as an APVMA-approved tank-mix with another mode of action that controls or has significant activity against the target weed. If no APVMA-approved tank-mix is available, then monitor results and if required, apply a follow up spray with a non-Group B herbicide for control of escapes and to reduce seed-set.
- A Group B herbicide may be used alone on flowering wild radish only if a Group B herbicide has not been previously used on that crop.

#### Grass weed control:

- If there are significant escapes following the herbicide application, consider using another herbicide with a different mode of action or another control method to stop seed-set.

The above recommendations should be incorporated into an Integrated Weed Management (IWM) program. In all cases try and ensure surviving weeds from any treatment do not set and shed viable seed. Keep to the integrated strategies mentioned, including rotation of mode of action groups. Make sure you rotate between products from different mode of action groups.

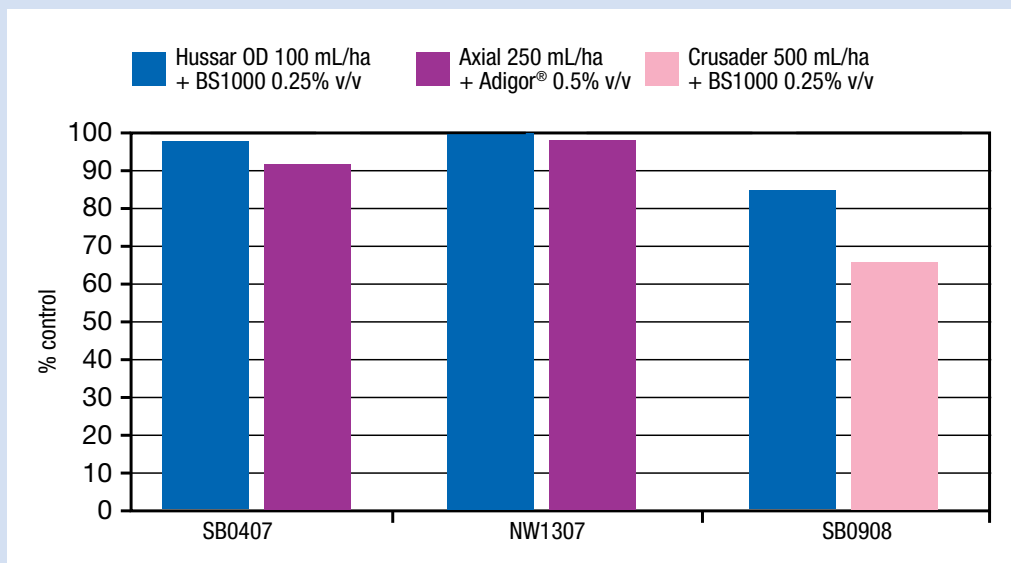


# REPRESENTATIVE TRIAL RESULTS

## Hussar OD leads the way on annual ryegrass

Hussar has generally provided excellent control of Group B-susceptible annual ryegrass for almost a decade. In these three trials Hussar OD achieved better control than both Axial® and Crusader® (which is only registered for suppression).

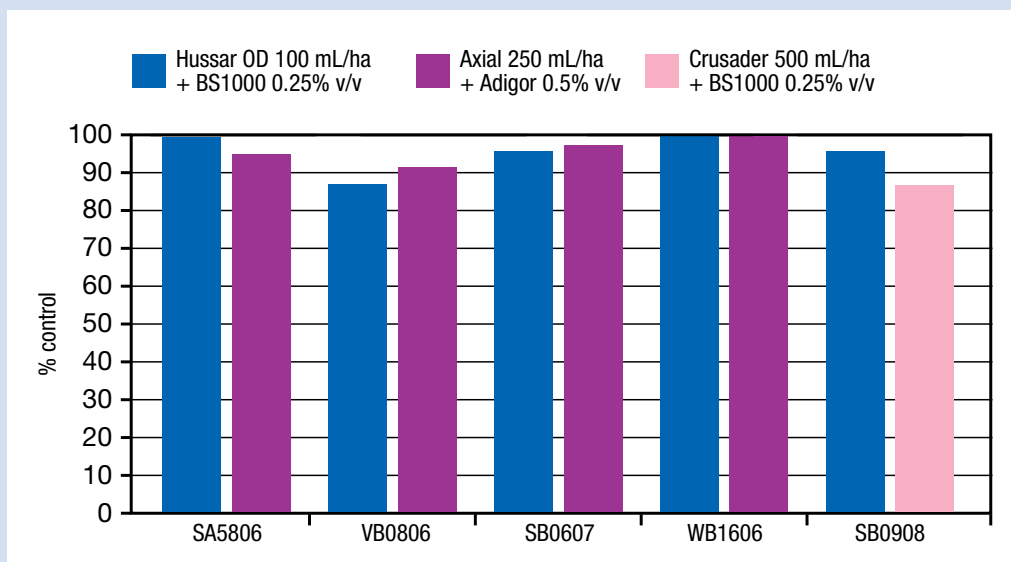
## ANNUAL RYEGRASS



## No compromise in control

While Hussar OD is not clearly superior to Crusader or Axial on wild oats, it generally matches their performance – with the addition of no more than a non-ionic wetting agent (e.g. BS1000 at 0.25% v/v).

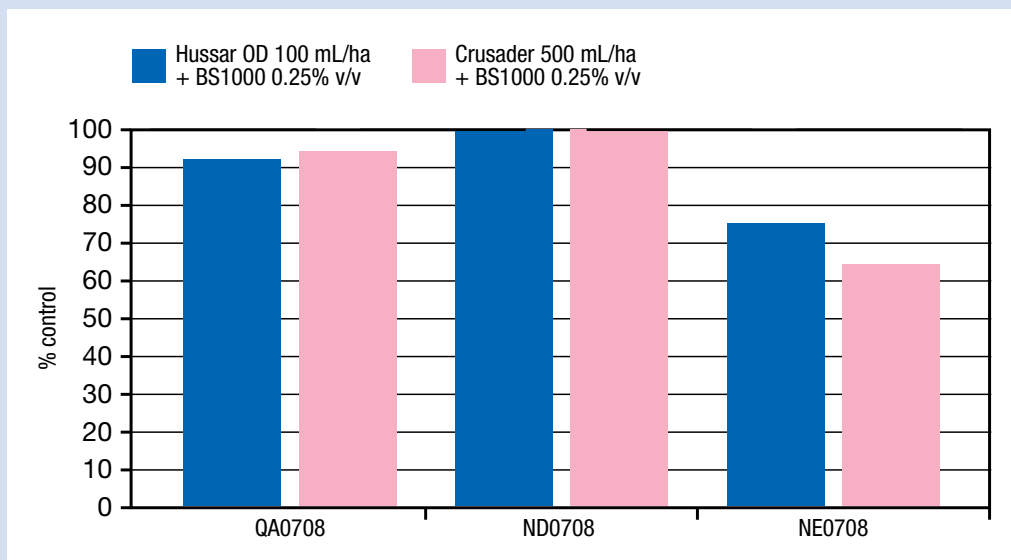
## WILD OATS



## Hussar OD reliably controls annual phalaris (paradoxa grass)

Across these three trials, Hussar OD showed that it can control annual phalaris at least as effectively as Crusader. With Group A resistance known to be spreading across *Phalaris paradoxa* populations, Group B solutions like Hussar OD should be given increased consideration for annual phalaris control as part of an IWM program.

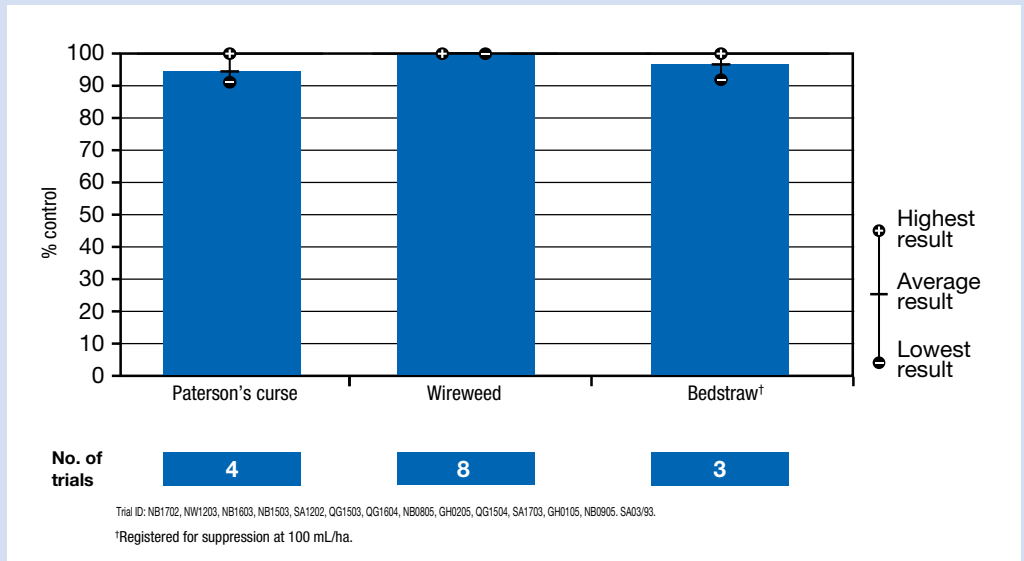
## ANNUAL PHALARIS



## BROADLEAF WEEDS

### Very good activity on hard-to-control broadleaf weeds

These averaged results show very high rates of control of three particularly persistent weeds.

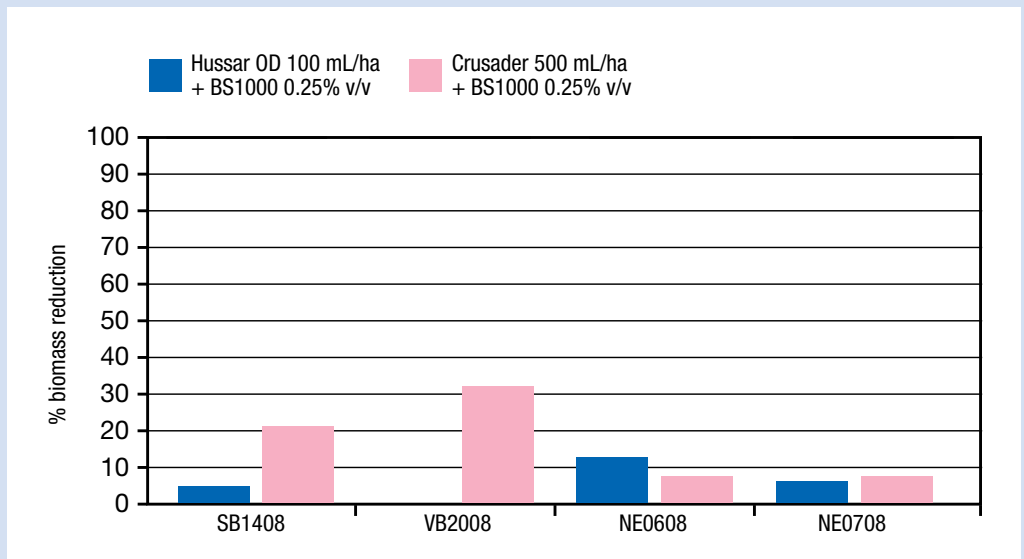


## CROP SAFETY IN WHEAT

### Hussar OD is safe on wheat<sup>#</sup>

These comparative trials confirmed that Hussar OD is extremely safe on wheat crops. As well as cumulatively producing much less reduction in biomass, in some instances Hussar OD demonstrated less phytotoxicity than Crusader.

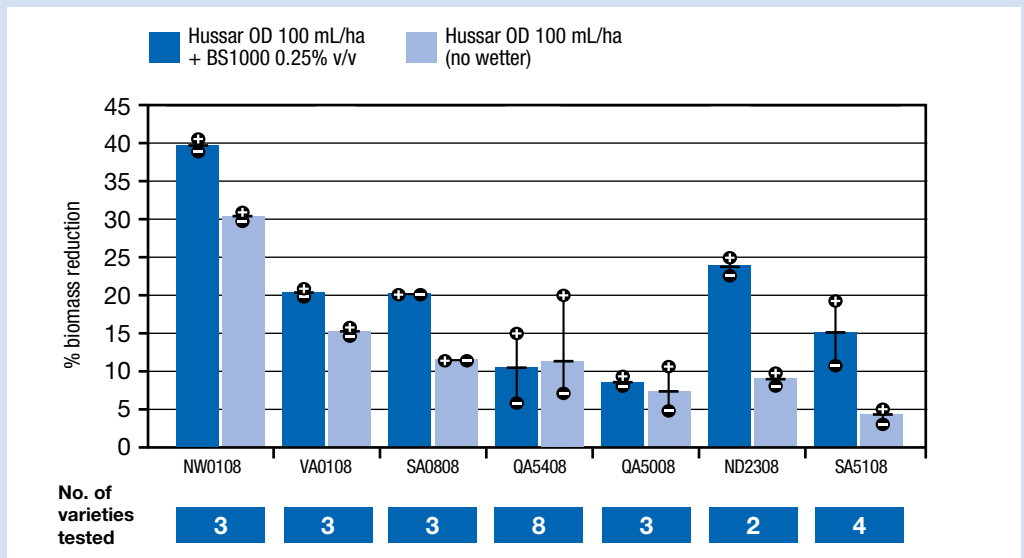
<sup>#</sup> When used as directed



## CROP SAFETY IN BARLEY

### Initial crop effects may be observed

With limited other grass weed control options available, Hussar OD has now been registered for use in barley. However growers need to be aware that even under good growing conditions, initial crop effects may be observed (although these early symptoms do not necessarily affect yield). For this reason, we strongly recommend that you consult your local accredited crop centre agronomist before using Hussar OD in barley.





## THE KEY BENEFITS OF HUSSAR OD

- Genuine OnePass control of key grass and broadleaf weeds
- Activity against up to 21 broadleaf weeds
- Enhanced spray retention, spreading and uptake for even more reliable performance



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### Disclaimer

Always read the label for full instructions.

The information and recommendations set out in this brochure are based on tests and data believed to be reliable at the time of publication. Results may vary, as the use and application of the products is beyond our control and may be subject to climatic, geographical or biological variables, and/or developed resistance. Any product referred to in this brochure must be used strictly as directed, and in accordance with all instructions appearing on the label for that product and in other applicable reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

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