

Scope[®]

Imidazolinone (Imi) tolerant barley

VARIETY SUMMARY

- Excellent tolerance to certain Imidazolinone chemistry;
- High grain yield;
- Early to mid season maturity;
- Moderately tall plant type;
- Released as a 'Feed' variety but being evaluated for 'Malting' potential.

ORIGIN

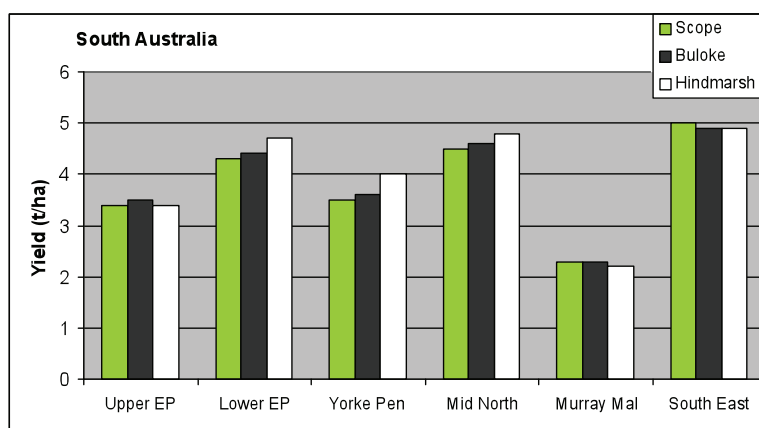
Scope barley was developed through a mutagenesis-based (non-GM) breeding program conducted by Agriculture Victoria Services Pty Ltd. It was formally tested and known as the VBHT0805 barley line and is exclusively licensed for commercialisation to Seednet.

AREA OF ADAPTATION

Scope is a broadly adapted variety that is well suited to the low to medium rainfall regions of South Australia

YIELD

Average 2009 & 2010 National Variety Trial yield data



PLANT CHARACTERISTICS & MATURITY

Scope is a moderately tall variety with good straw strength and good head retention.

In the eastern states Scope is described as an early to mid season variety with a suggested sowing time between mid May and late June. Mid May in low rainfall regions and June in mid - high rainfall regions, particularly in situations of high biomass production.

GRAIN QUALITY

Scope barley has moderate to good grain plumpness. In 2010 Scope had better grain plumpness and lower screenings than Buloke in a range of National Variety Trials across South Australia.

Scope has been released as a 'Feed' variety but is being evaluated for 'Malting' potential.

Scope passed the first year of Malt evaluation in 2010 but due to insufficient quantity of grain being available for evaluation in 2011, the second year of evaluation will occur in 2012 (with notification in early 2013).

DISEASE RESISTANCE

Scope has similar disease resistance to Buloke. It has resistance to Powdery mildew and Net form of net blotch and in SA it is rated higher than Buloke for Spot form of net blotch resistance. Scope is susceptible to Leaf rust

2010 Disease resistance ratings for Scope

State	Scald	SFNB	NFNB	Powdery mildew	Leaf rust
SA	MS	MR-MS	MR	MR	S-VS

2010 NVT grain quality data	Screenings %2.2mm		Plumpness %2.5mm	
	Scope	Buloke	Scope	Buloke
Mid Nth SA (av 3 trials)	5.3	5.6	69.2	67.7

PATENT and PLANT BREEDERS RIGHTS

Patent and PBR rights exist in relation to Scope for the production, reproduction, conditioning, sale, importation and exportation of any seed, plants and plant materials. The combination of these rights means that the sale and propagation of Scope and the use of Scope for breeding and commercial purposes without the permission of Seednet or Agriculture Services Victoria Pty Ltd are unlawful. Growers will be permitted to retain seed from production for their own use only.

END-POINT ROYALTY

An End Point Royalty (EPR) will apply:

- \$2.97 per tonne (GST incl.) while Scope is a Feed variety.
- \$3.85 per tonne (GST incl.) if Scope becomes a Malt variety.

ACKNOWLEDGEMENTS

Scope barley and its herbicide tolerant trait were developed by Agriculture Victoria Services Pty Ltd. (AVS) which is a commercial arm of the State of Victoria's Department of Primary Industries.



Clearfield®
Production System



Intervix®
Clearfield® Production System Herbicide

Preserve the efficacy of GROUP B's

For the early post-emergent control of annual grass and broadleaf weeds, as part of the Clearfield® Production System for Scope Barley

The Clearfield® Production System

- * The **Clearfield** Production System for Barley features a herbicide tolerant variety used in combination with the broad spectrum Intervix herbicide
- * The **Clearfield** Barley variety has been developed through conventional plant breeding techniques and is not a genetically modified organism (non GMO)
- * The **Clearfield** Barley variety currently available is Scope Barley
- * The **Clearfield** Production System for Barley is available through accredited Agricentres, with staff specifically trained to deliver a Best Management Practice Program to assist growers maximise their return from the system.

The Herbicide

- * Intervix herbicide is a group B herbicide.
- * The active ingredients are 33g/L IMAZAMOX (present as the ammonium salt) and 15 g/L IMAZAPYR (present as the ammonium salt)

The Product Benefits

- * Superior one pass post-emergent knockdown and residual grass and broadleaf weed control
- * Superior brome grass, barley grass, volunteer wheat and volunteer barley control
- * Highly effective foliar uptake in addition to residual efficacy through root uptake
- * Easy to use and transport

Application

- * The application rate is 375-750mL/ha plus Supercharge® at 0.5L/100L spray volume
- * Apply in a minimum of 70L water per hectare
- * Apply to crops in the 3 leaf (Z13) to 1st node stage (Z31)
- * Apply early post emergent to actively growing grass weeds in the 3 leaf to 2 tiller stage and broadleaf weeds in the 2 to 6 leaf stage
- * **Avoid application to stressed crops as crop damage and poor weed control may result.**
- * **Good plant health is essential. Ensure any nutrient deficiencies are rectified at least 14 days prior to application.**

* **Do NOT apply if adverse environmental conditions exist. ie. low temperatures or frost**

* **Avoid use with other pre or post emergent Group B herbicides**

* Do NOT apply more than once per season to any crop

* Apply ONLY to Barley with the Clearfield technology (ie Scope Barley)

Key Weeds Controlled

Control and suppression of a vast range of problem weeds, including:

- | | |
|------------------------|---------------------------------------|
| > Brome Grass | > London Rocket |
| > Barley Grass | > Paterson's curse |
| > Marshmallow | > Saffron Thistle |
| > African Turnip Weed | > Scotch Thistle |
| > Amsinkia | > Shepherds Purse |
| > Annual Ryegrass | > Silvergrass* |
| > Bedstraw* | > Sowthistle* |
| > Charlock | > Storksbill* |
| > Wireweed | > Turnip Weed |
| > Climbing buckwheat | > Volunteer Cereals |
| > Common Vetch* | (ie. non-CL wheat & barley, and oats) |
| > Deadnettle | > Wild Radish |
| > Doublegee* | > Wild Turnip |
| > Fumitory | > Wild Oats |
| > Indian Hedge Mustard | > Wild Oats |

* surviving plants will generally be retarded and will not compete with the crop

Compatability

* Intervix herbicide is compatible with Dominex® Duo, Saboteur® (dimethoate), omethoate, Transit®, POLO®570 LVE, Hasten® and Kwickin®

* **Do not** mix with foliar fertilisers

CONTACT

Herbicide info: Rob Walker on 0427 746 153 or your local Crop Care Territory Sales Manager for more information.
Seed info: Call Seednet on 03 5389 0150 or visit www.seednet.com.au

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