

Tech Update

Issue 8
Autumn
2014

Hammer 400 the answer for hard to kill broadleaf weeds

Hammer 400® has proven itself to be one of the most effective and versatile tools in controlling hard to kill broadleaf weeds such as Marshmallow, Capeweed, Patterson's Curse and Wild Radish prior to establishing winter and summer crops or commencing fallows.

When used in combination with knock-down herbicides (glyphosate and paraquat based products) it significantly increases brownout and improves broad spectrum weed control. Trials have shown that Hammer has consistently performed better than other Group G herbicides in controlling weeds such as Marshmallow.

Hammer 400 is a non residual, contact herbicide that is readily absorbed by green

leaves and stems of broadleaved plants. When used at the label rates, Hammer has no residual activity from herbicide that falls onto soil, meaning no plant back or follow-on crop restrictions.

In addition, Hammer has an excellent environmental and toxicity profile.

Optimise performance of Hammer

Climatic conditions that favour good, steady weed or plant growth and hence, optimum enzyme activity within the plant cells, also favour the activity of Hammer. Conversely, the application of Hammer to plants that are not actively growing due to cold or heat stress, or too little or too much moisture, can lead to a reduction in control.



We know Agronomy



We know Horticulture



We know Broadacre

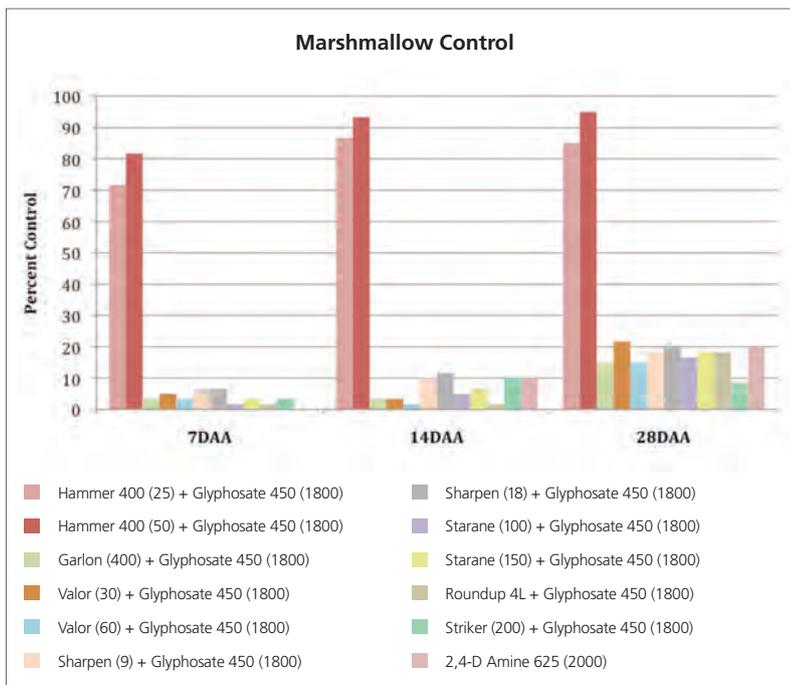


Fig 1. FMC Marshmallow Control trial results from Swan Hill, 2012.

In this issue:

- Broadleaf weed control
- Maximise your yield potential
- Aphid control in horticulture
- Getting crops into the ground faster
- Increase knockdown effect on Annual Ryegrass



We know Crop Protection

Hammer 400 the answer for hard to kill broadleaf weeds cont.

If plants have been moisture stressed, delay application until after rainfall or irrigation and ensure weeds or suckers have resumed steady growth. Weeds don't have to be obviously wilting to be under dry stress which can limit control by Hammer.

Hammer has a rapid rainfast period of only one hour. However, when tank mixed with another herbicide, observe the rainfast period

for the other herbicide as well.

Ensure that the recommended water volume is applied to give thorough coverage of leaves and stems for optimum control as Hammer is a contact herbicide.

Use good quality water, preferably in the pH range of 5 – 7. Cold water will not affect the performance of Hammer.

Target smaller, young weeds which are usually

more susceptible than older, larger weeds. Older, hardened leaves are slower to respond to Hammer due to reduced enzyme activity.

For more information on Hammer 400 talk to your CRT Local Bloke.



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Maximise your yield potential

Opus® fungicide

Opus® 125 is a broad spectrum contact and systemic fungicide with protectant and curative properties for the control of major foliar diseases.

It is effective on stripe and leaf rusts, *Septoria nodorum* blotch and powdery mildew in wheat and leaf rust, the net form of net blotch, scald and powdery mildew in barley.

The fungicide is taken up via the plant stem and foliage and is translocated upwards and outwards to provide protection to new growth. Thorough coverage of the crop is necessary for best results.

Opus should be applied when conditions favour disease development, but preferably prior to development of disease in the crop.

The power of Clearfield®

Clearfield®, a powerful production system available in wheat, canola and barley, is designed to deliver extended weed control, increased yield potential and crop quality.

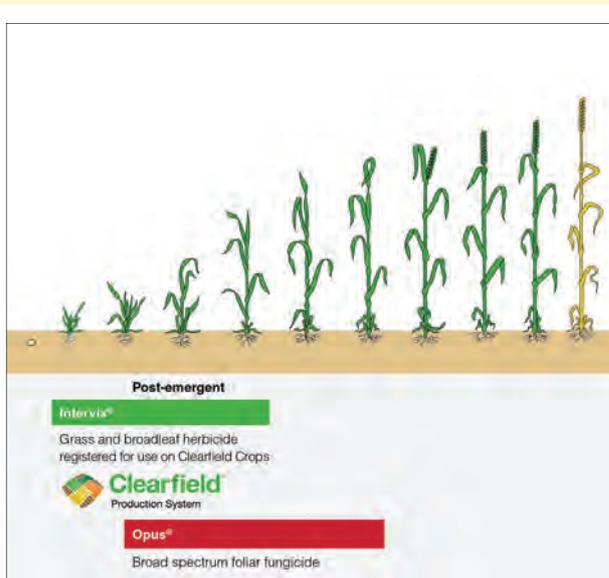
The system uses technology that matches selected seed varieties with BASF's Intervix®, a custom designed Clearfield herbicide.

Clearfield should be applied to actively growing grass weeds in 3-leaf to 2-tiller stage and broadleaf weeds in the 2 to 6 leaf stage. Higher rates should be used when weed numbers are high or towards the upper end of the recommended growth stages.

A pre-emergent application of a group D herbicide such as Trifluralin or Stomp® is recommended where high populations of ryegrass (ie 200 plants/wqm) or Group B resistant ryegrass exists.

Speak to your local CRT agronomist about Opus and Intervix today.

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Opus 125
Fungicide

Intervix
Herbicide for Clearfield® Crops

	Product	Strengths	Impact	Controls
F	Opus®	• Broad spectrum foliar fungicide	• Disease control	Leaf, Stripe and Stem rusts, <i>Septoria nodorum</i> blotch and Powdery Mildew
Clearfield Production System				
H	Intervix®	• Broad spectrum foliar and residual weed control • Manageable residual properties • Registered in Clearfield Plus Wheat CL Barley and CL Canola	• Flexibility of use • Cleaner crops	A range of weeds including Annual Ryegrass, Wild Oats, Barley Grass, Brome Grass and Wild Radish
SEED	Clearfield® Plus Wheat Varieties	• AGT Elmore CL PLUS® • AGT Grenade CL PLUS® • AGT Justica CL PLUS® • AGT Kord CL PLUS®	• High level of tolerance to Intervix • High performance variety • Malting quality variety • Provides flexible Clearfield cropping options	
SEED	Clearfield® Barley	• Scope	• High level of tolerance to Intervix • High performance varieties • Provides flexible Clearfield cropping options	

■ Herbicide ■ Fungicide □ Seed

*Intervix registered for Clearfield crops only
For rate applications follow the label or visit www.agro.basf.com.au

Clearfield offers control and suppression of 44 weeds including:

Rigid Brome Grass	Wild Oat	Sub Clover	Indian Hedge Mustard	Dense Flower Fumitory	Marshmallow
Muskweed	Great Brome	Volunteer Barley	Wild Radish	Charlock	Bedstraw spp*
Wild Turnip	Barley Grass	Wheat – non Clearfield	Annual Ryegrass	Silver Grass*	Doublegee*

*Label claims suppression of these weeds and surviving plants will generally be retarded and will not compete with the crop.

There's always better value at CRT.

Australia's first Transform™ user, rates it first for beating capsicum aphids

Bundaberg capsicum producer, Josh Crow, Farm Manager with United Wholesale Growers, has been more than impressed with the results he's had using Dow AgroSciences' Transform™ insecticide to control aphids in his crops.

"Tomatoes are our main crop, but capsicum is a large part of our business and we ship about 9,600 tonnes over two seasons," said Josh.

"We've had an ongoing problem with green peach aphid and, to a lesser extent, silverleaf whitefly. Aphids multiply very quickly and each season we'd end up back at square one with a

new infestation appearing after we dealt with the last one."

Josh decided to try Transform after talking to his agronomist, Simon Andreoli, from BGA AgriServices and was the first to purchase the insecticide through the BGA business.

Through its systemic, fast-acting, novel mode of action, Transform controls the main sucking insects attacking capsicum crops. It's also soft on beneficial insects making it a good fit within integrated pest management programs.

Its active ingredient, Isoclast™ active, is a member

of the sulfoximine class of chemistry (IRAC Group 4C). There is no known insect resistance to this new class nor cross-resistance between the sulfoximines and other currently used insecticide groups, which explains its effectiveness.

"I'm very impressed with the results we're getting with Transform. It's easy to use, compatible with other general sprays we use and it delivers a quick, thorough knockdown that prevents re-infestations."

"We intend to keep using Transform and would certainly recommend it."

Dow AgroSciences worked closely with consultants and advisors to ensure Transform met the needs of Australian vegetable, fruit and grape producers and it looks set to become a valuable new weapon in the management of costly sucking pests.

Visit www.crt.com.au to find your nearest store today.



Agronomist, Simon Andreoli, BGA AgriServices (left) with Josh Crow, Farm Manager, United Wholesale Growers.



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Get the crop in faster with Roundup Ultra®MAX

Only Roundup Ultra®MAX, containing Monsanto's proven and patented surfactant technology, can offer a one daylight hour 'spray and sow' claim when applied to annual seedlings without the need for any additional surfactants or penetrants. This means paddocks can be sown

more quickly with less time waiting for glyphosate to penetrate weeds before commencing sowing.

Monsanto's surfactant technology provides faster absorption and penetration delivering a quicker and more concentrated lethal dose of weed killing power. Roundup UltraMAX is the strongest

glyphosate on the market with 570 grams per litre of glyphosate killing power. This means less drums and more sprayed hectares per drum.

Another feature of the surfactant technology in Roundup UltraMAX is the 20 minute rainfast offer it provides. This means spraying can continue closer to rain, enabling more crop to be sown before rain.

The proven formulation of Roundup UltraMAX is low foaming with low viscosity allowing for easier and quicker filling of the boomspray and less downtime refilling.

Speak to your CRT Local Bloke about Roundup UltraMAX today.

Pre-plant tips for optimising the power of Roundup UltraMAX.

Hard Water	The positive charged cations in hard water like Calcium, Magnesium and Iron will bind and de-activate negatively charged glyphosate in the spray tank. If using hard water always add Ammonium Sulphate (2%) to the spray tank and agitate well before adding Roundup UltraMAX.
Annual Seedlings (Growth stage)	Apply Roundup UltraMAX when annual seedlings are at the 2 leaf stage or older. 1 leaf seedlings have limited translocation to roots meaning glyphosate may not sufficiently assimilate in the roots.
Rate Selection (Plant age vs plant size)	Be aware of false breaks where plants may have germinated and then cease growing as soil moisture levels decline. These weeds may look small above ground but may have well developed root systems as they chase moisture.
Dust & Wheel Tracks	Dust will de-activate glyphosate. Do not apply Roundup UltraMAX to dust covered plants. Slow down when spraying in dry paddocks.



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We know Crop Protection

How to increase knockdown effect on Annual Ryegrass

Grain growers and advisers across Australia are currently reviewing weed management strategies for the coming winter crop. Having a good strategy in place and making the most of each weed control opportunity will be key factors in achieving clean crops and, in particular, coping with the growing problem of Annual Ryegrass resistance.

Weeds are becoming harder to control and growers are increasingly adding herbicide spikes to their knockdown sprays but there are other, more cost effective options.

Research across southern Australia has shown adding the pre-emergent herbicide Boxer Gold® to Spray.Seed®, Gramoxone® or glyphosate products, can increase the knockdown effect on seedling Annual Ryegrass by up to 19 per cent (Figure 1).

This unique benefit is a real advantage for growers looking to extend the control of Annual Ryegrass.

"Boxer Gold is a premium, emulsifiable concentrate formulation that mixes readily in water and has shown to have excellent tank mixing compatibility with these knockdowns," said Paul Chatfield, Syngenta Technical Services Lead.

"The trial compared Boxer Gold tank mixes with Spray.Seed and glyphosate products, finding weed control was fastest when Boxer Gold was tank mixed with Spray.Seed."

Research shows that the foliar activity of Boxer Gold is at its optimum when applied to one to two leaf Annual Ryegrass plants, so the weed growth stage when spraying is important to gain the full benefit.

"Larger weeds will intercept more of the Boxer Gold, meaning knockdown activity is maximised but at the expense of soil coverage, potentially compromising Boxer Gold's pre-emergent activity. This is an important management consideration for growers."

"Boxer Gold also gives growers peace of

mind when dealing with tough knockdown conditions. However, it won't replace the need for any of the non-selective herbicides and, as with all best practice principles, registered rates of non-selective herbicides should always be used," Paul said.

To take full advantage of these tank mixes, growers will need to assess the situation at hand. Growing conditions at application, the non-selective herbicide partner, seedbed conditions, stubble load and weather conditions all need to be taken into account.

Paul also emphasised that mechanical incorporation of Boxer Gold is still required within seven days of herbicide application.

To find out how to increase knockdown effect on Annual Ryegrass on your property, speak to your CRT Local Bloke.

Product names marked ® or ™ are Trademarks of a Syngenta Group Company.



syngenta.

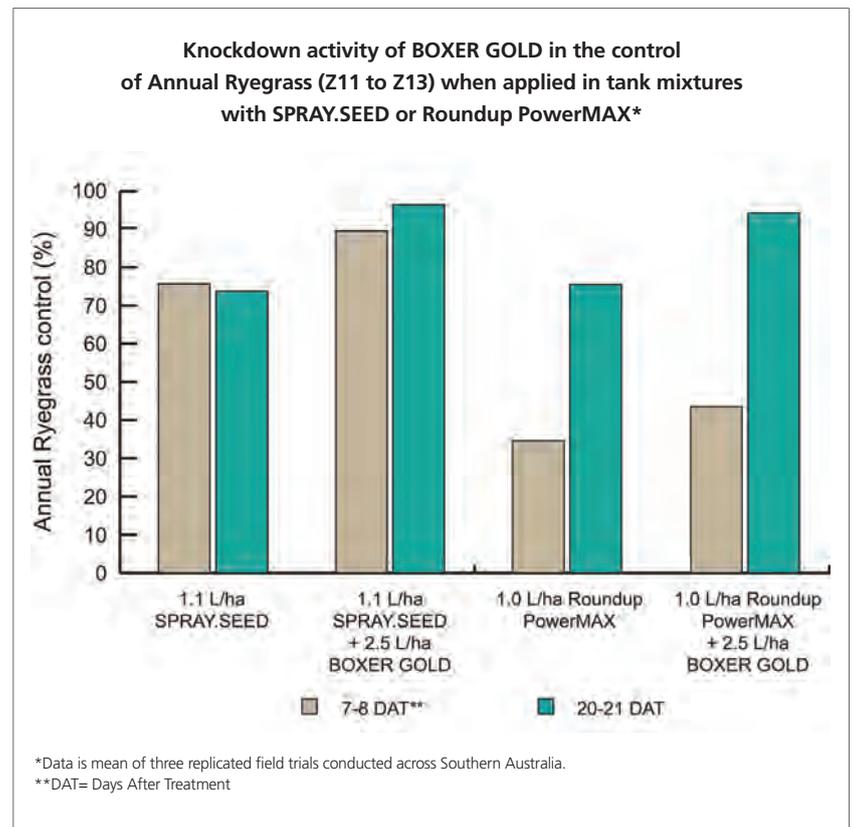


Fig 1. Boxer Gold can increase the knockdown effect on seedling Annual Ryegrass by up to 19 per cent.

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