

Soleto[®]

HERBICIDE

Pre-emergence herbicide for the control of annual broad-leaved weeds and annual grasses in potatoes.

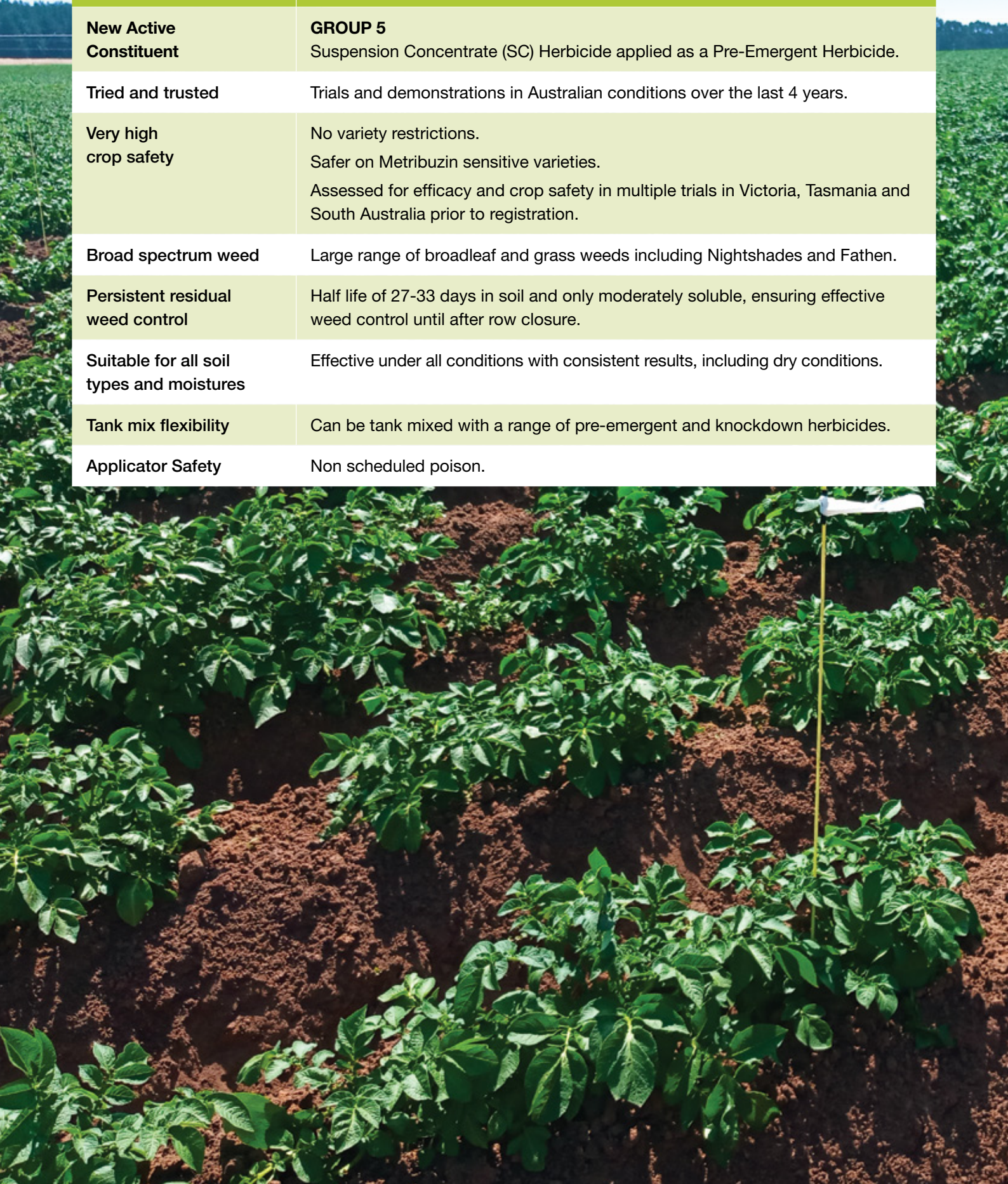
For all enquiries 1800 777 068

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 *australia*
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FEATURES & BENEFITS

FEATURES	BENEFITS
New Active Constituent	GROUP 5 Suspension Concentrate (SC) Herbicide applied as a Pre-Emergent Herbicide.
Tried and trusted	Trials and demonstrations in Australian conditions over the last 4 years.
Very high crop safety	No variety restrictions. Safer on Metribuzin sensitive varieties. Assessed for efficacy and crop safety in multiple trials in Victoria, Tasmania and South Australia prior to registration.
Broad spectrum weed	Large range of broadleaf and grass weeds including Nightshades and Fathen.
Persistent residual weed control	Half life of 27-33 days in soil and only moderately soluble, ensuring effective weed control until after row closure.
Suitable for all soil types and moistures	Effective under all conditions with consistent results, including dry conditions.
Tank mix flexibility	Can be tank mixed with a range of pre-emergent and knockdown herbicides.
Applicator Safety	Non scheduled poison.



MODE OF ACTION

Soleto is a selective pre-emergent, systemic herbicide absorbed by the roots and leaves and translocated in the xylem.

HERBICIDE BREAKDOWN

Metobromuron has a half-life of 27-33 days in the soil, it is primarily broken down by microbial action with some hydrolysis at low pH. Persistence of the active is greater under dry conditions, cold temperatures and in sandy soils with low organic matter and low clay content in higher pH soils. These conditions can prolong the breakdown.

RE-CROPPING INTERVALS

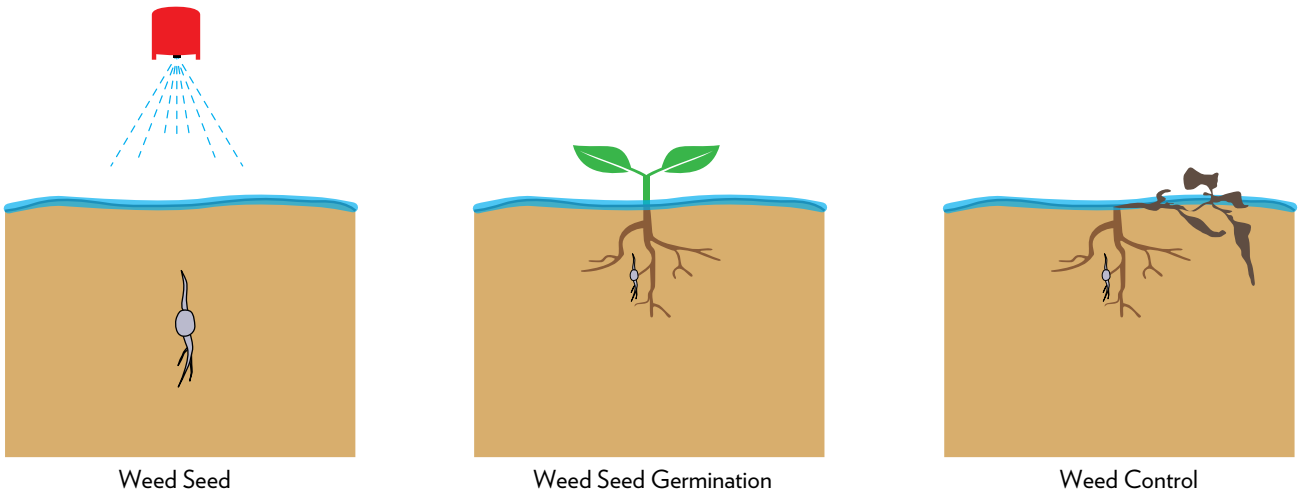
A re-cropping interval after application of 120 days, should be observed for root and leafy vegetables crops and 180 days for all other crops (including cereals) after application. Potatoes can be re-planted after minimal cultivation.

RESISTANCE MANAGEMENT

Soleto is a Group 5 herbicide that inhibits photosynthesis acting on Photosystems (II).

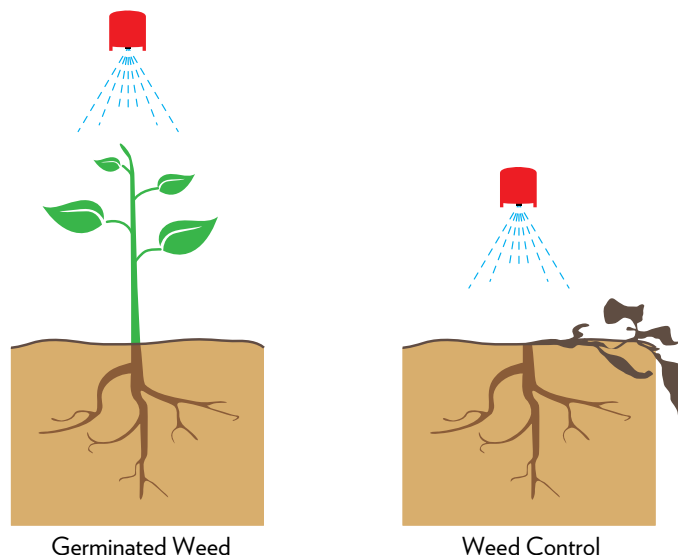
This mode of action is through photosynthetic electron transport inhibition by binding at the QB site on the D1 protein of the photosystem II complex, resulting in formation of reactive species that oxidise and degrade lipids and proteins.

RESIDUAL ACTIVITY



PLUS

CONTACT ACTIVITY





DIRECTIONS FOR USE

CROP	WEEDS	USE RATE	CRITICAL COMMENTS
Potatoes	<p>Annual broad-leaved weeds and annual grasses.</p> <p>Refer to Weeds Controlled table.</p>	3 - 4 L/ha	<p>Soleto 500 SC may be applied on all varieties of potatoes.</p> <p>Some transient crop discolouration may occur under certain climatic conditions where heavy rainfall follows application. This transient crop effect is rapidly outgrown and has no effect on crop yield.</p> <p>Reduced levels of weed control may occur if application is made to dry cloddy seedbeds or if a prolonged dry period follows application.</p> <p>Apply one application after ridging and prior to crop emergence. Higher rates are recommended on heavier soils.</p> <p>The higher dose rate should be used on heavy soils with a high clay content.</p> <p>Do not cultivate soil after application of Soleto 500 SC.</p> <p>Maximum number of treatments per crop: One.</p>



TIPS FOR SUCCESSFUL APPLICATION

1.

Optimum efficacy is achieved when applied to moist soil – although trial data has shown Soleto is still effective when applied in hot and dry conditions.

2.

Apply in 200-600 L of water per ha using a MEDIUM spray quality as defined by BCPC.

3.

Can be tank mixed with a range of pre-emergent and knockdown herbicides.

4.

Apply robust rates of 3-4L per hectare when applied alone.

5.

Don't cultivate or hill up after application – let the residual chemistry do its job!

WEEDS CONTROLLED

COMMON NAME	SCIENTIFIC NAME	RATE
BROADLEAVED WEEDS		
Amaranthus	<i>Amaranthus powellii</i>	3 L
Amaranth Redroot	<i>Amaranthus retroflexus</i>	3 L
Amaranth, Green	<i>Amaranthus hybridus</i>	4 L
Annual Mercury	<i>Mercurialis annua</i>	4 L
Black Bindweed	<i>Polygonum convolvulus</i>	3 L
Black Nightshade	<i>Solanum nigrum</i>	3 L
Californian Thistle	<i>Cirsium vulgare</i>	3 L
Capeweed	<i>Arctotheca calendula</i>	4 L Suppression
Charlock	<i>Sinapis arvensis</i>	3 L
Charlock, Jointed	<i>Raphanus raphanistrum</i>	3 L
Chickweed	<i>Stellaria media</i>	3 L
Cleavers	<i>Galium aparine</i>	3 L
Clover, Red	<i>Trifolium pratense</i>	4 L
Clover, White	<i>Trifolium repens</i>	3 L
Common Groundsel	<i>Senecio vulgaris</i>	3 L
Cornbind	<i>Fallopia convolvulus</i>	3 L
Fat Hen	<i>Chenopodium album</i>	3 L
Fumitory	<i>Fumaria officinalis</i>	3 L
Fumitory, Scrambling	<i>Fumaria muralis</i>	4 L Suppression
Knotgrass	<i>Polygonum aviculare</i>	3 L
Lesser Swinecress	<i>Lepidium didymium</i>	4 L Suppression
Mallow	<i>Malva spp.</i>	3 L
Oxalis	<i>Oxalis latifolia</i>	3 L
Pigweed	<i>Portulaca oleracea</i>	4 L Suppression

COMMON NAME	SCIENTIFIC NAME	RATE
BROADLEAVED WEEDS		
Red Deadnettle	<i>Lamium purpureum</i>	3 L
Russian Knapweed	<i>Acroptilon repens</i>	4 L
Shepherds Purse	<i>Capsella bursa-pastoris</i>	3 L
Sowthistle	<i>Sonchus arvensis</i>	3 L
Sowthistle, Common	<i>Sonchus oleraceus</i>	4 L
Speedwell	<i>Veronica persica</i>	3 L
Speedwell, Ivy-Leaved	<i>Veronica hederifolia</i>	3 L
Spurrey	<i>Spergula arvensis</i>	3 L
Stinging Nettle	<i>Urtica urens</i>	3 L
Volunteer Kale	<i>Brassica oleraceae</i>	3 L
Wild Carrot	<i>Daucus carota</i>	3 L
Wild Radish	<i>Raphanus raphanistrum</i>	4 L Suppression
Willow Weed	<i>Persicaria maculosa</i>	3 L
Wire Weed	<i>Polygonum aviculare</i>	3 L
Yarrow	<i>Achillea millefolium</i>	3 L
GRASS WEEDS		
Barnyard Grass	<i>Echinochloa crus-galli</i>	3 L
Foxtail, Green	<i>Setaria viridis</i>	3 L
Ryegrass, Annual	<i>Lolium rigidum</i>	4 L Suppression
Ryegrass, Italian	<i>Lolium multiflorum</i>	4 L
Ryegrass, Perennial	<i>Lolium perenne</i>	3 L
Stinkgrass	<i>Eragrostis cilianensis</i>	4 L Suppression
Wild Oats	<i>Avena fatua</i>	3 L
Winter Grass	<i>Poa annua</i>	3 L

SOLETO TRIAL RESULTS

Trials conducted over the 2021/2022 season in Ballarat (VIC), Boundary Bend (VIC) and Mt Gambier (SA) on Metribuzin sensitive varieties have shown:

Soleto at 3L/ha or 4L/ha has comparable weed control efficacy to metribuzin and other industry standards.

Soleto controlled more than 88% of Fathen, Wireweed and Nightshade (when compared to the untreated control).

Soleto was tank mixed with a range of pre-emergent, and knockdown herbicides.

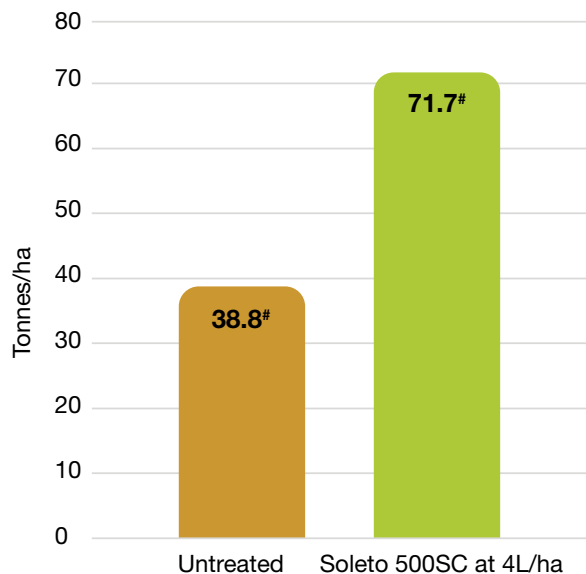
Weed control results from mixtures sprayed pre-emergence that contained Soleto were comparable to industry standards.

Soleto is consistently safe on Metribuzin sensitive potato varieties.

Any minor stunting, yellowing or biomass differences observed post spraying were transient and did not affect ongoing plant growth.

BALLARAT YIELD DEMONSTRATION 2022

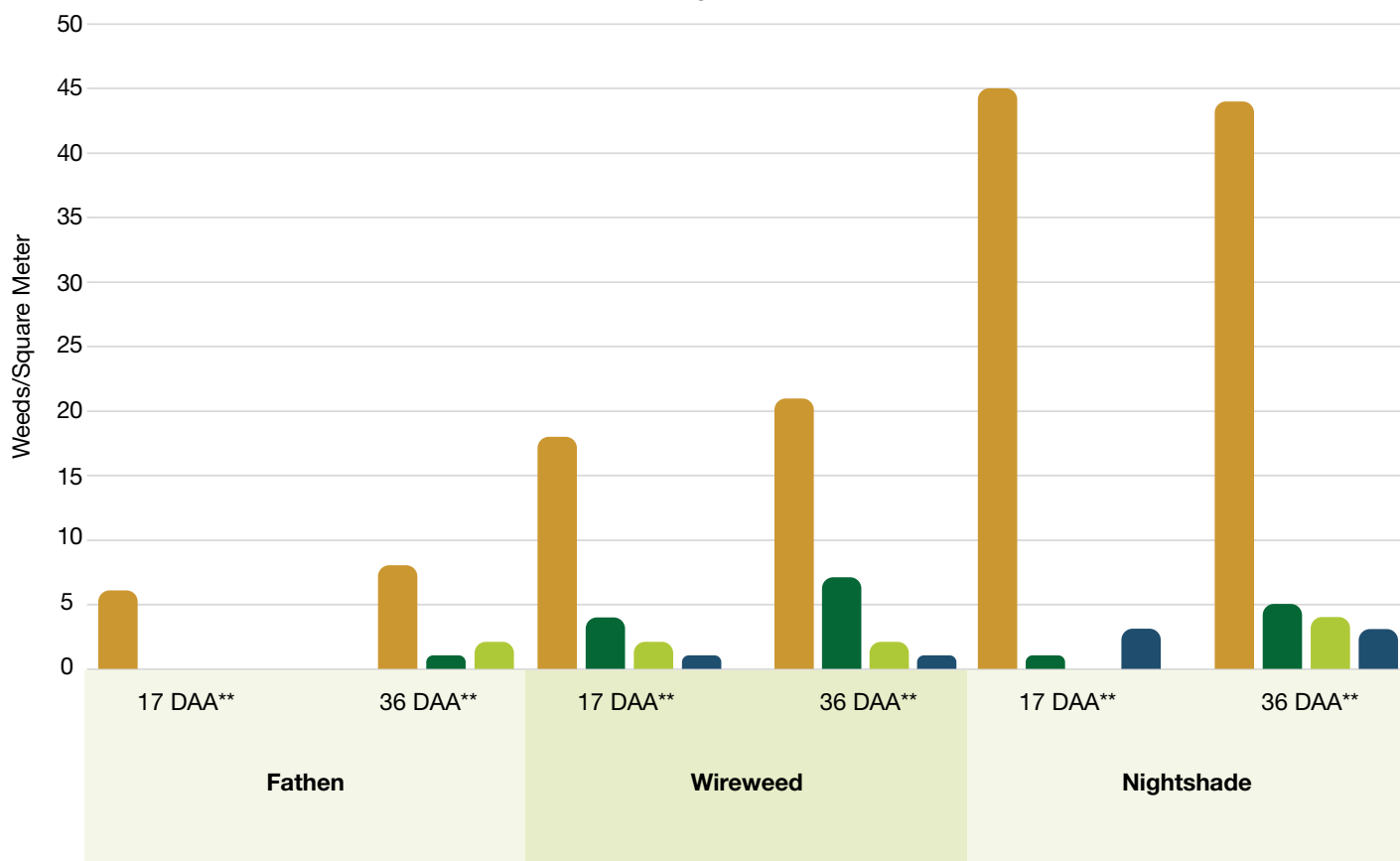
Variety: Innovator



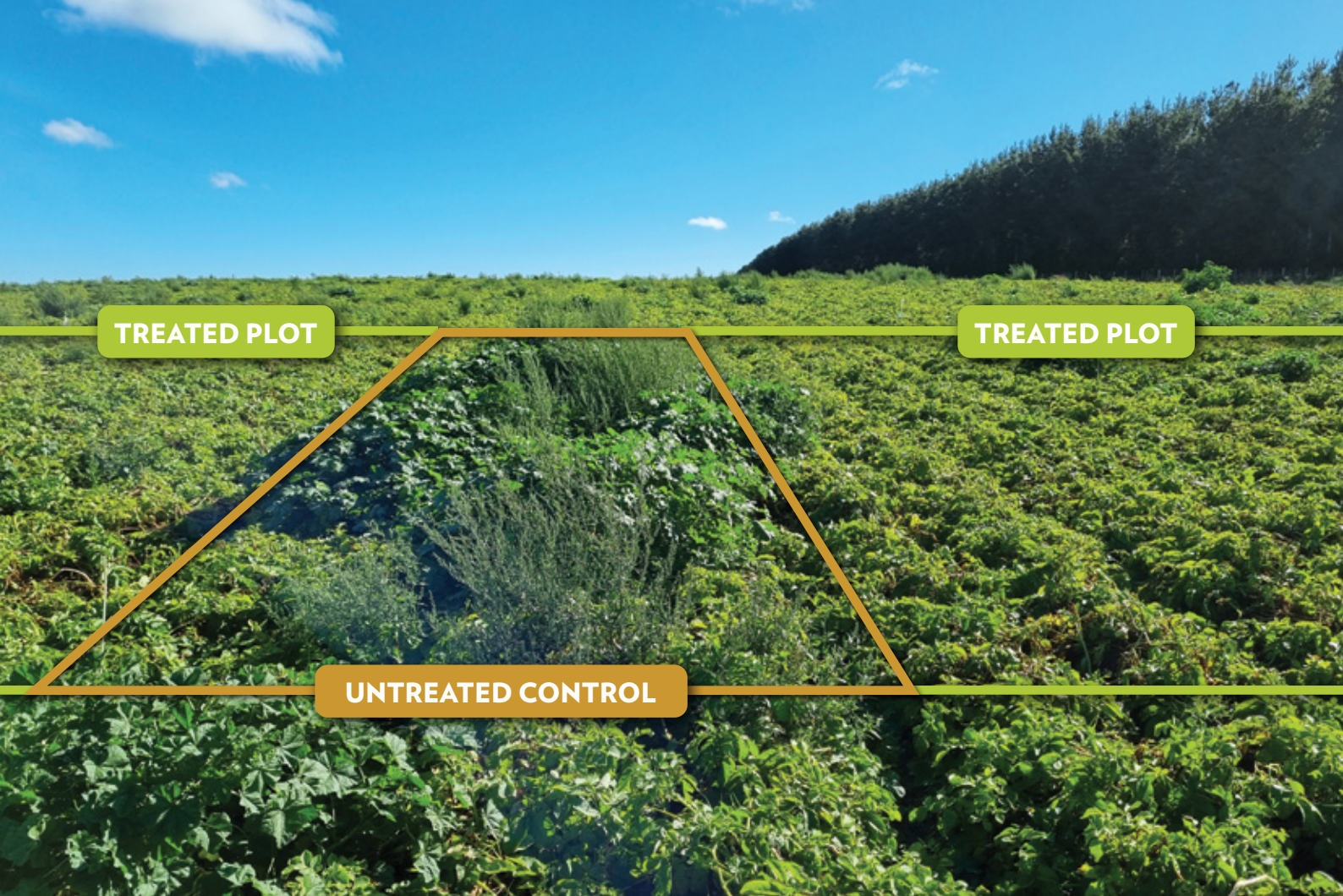
*(Yield data has been converted to Tonnes/ha from plot yields taken from 2m row assessments)

BALLARAT DEMONSTRATION 2021/2022 NUMBER OF SURVIVING WEEDS/SQUARE METER

Variety: Innovator

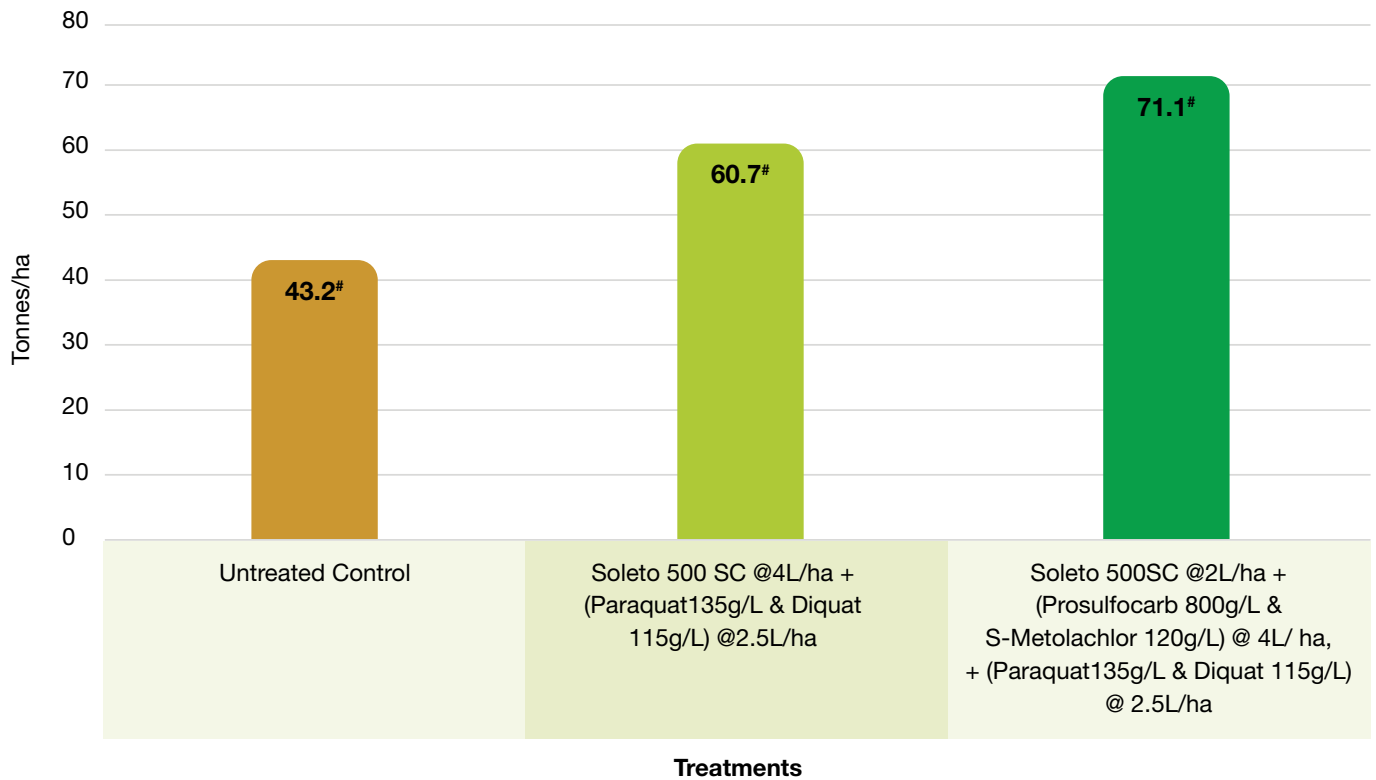


*Paraquat 135g/L & Diquat 115g/L applied across all treatments at 2.5L/ha (excluding Untreated Control) prior to the application. **Days after application.



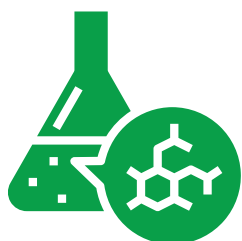
MT GAMBIER DEMONSTRATION TRIAL 2022

Variety: Innovator



[#](Yield data has been converted to Tonnes/ha from plot yields taken from 2m row assessments)

WEEDS CONTROLLED



New active to combat herbicide resistance and crop safety concerns.



Large weed spectrum in potato and no soil type or potato varietal restrictions.



Pre-emergent with very high crop safety, in Metribuzin sensitive varieties.



Able to provide long lasting residual weed control, when applied to all soil types and environmental conditions.

“

We provide innovative, cost-effective, professional solutions designed specifically for local conditions

”

“

Soleto Herbicide was applied on its own on hot dry soil. It held the fathen and nightshade back better than the multiple herbicides I used in my own spray mixture.

XAVIER TOOHEY - 2021 Hort Connections Young Grower of the Year, national awards for excellence.

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