

# Soleto<sup>®</sup>

## HERBICIDE

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

For all enquiries 1800 777 068

[www.7worlds.com.au](http://www.7worlds.com.au)

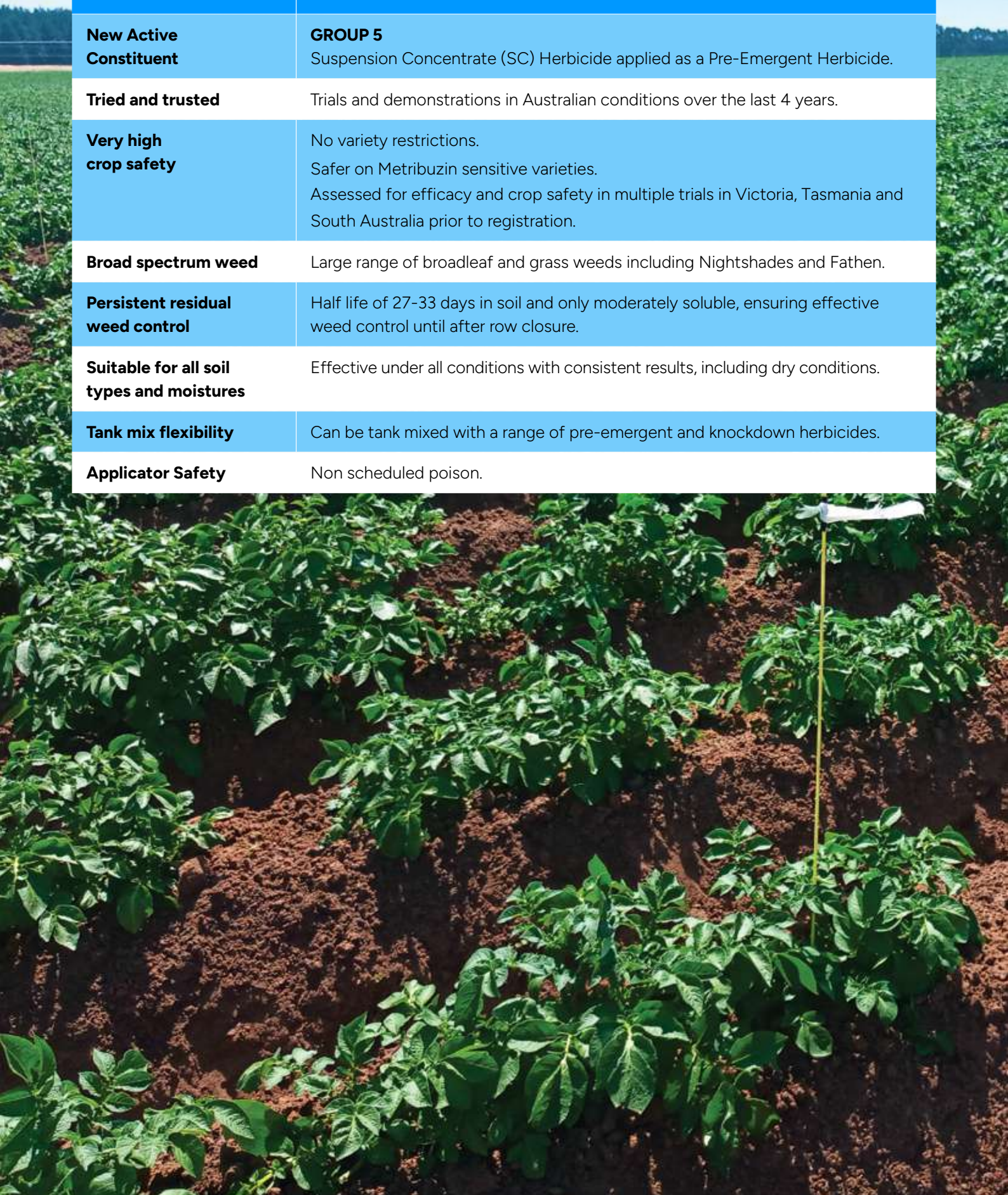


**7 WORLDS AG**



# FEATURES & BENEFITS

FEATURES	BENEFITS
<b>New Active Constituent</b>	<b>GROUP 5</b> Suspension Concentrate (SC) Herbicide applied as a Pre-Emergent Herbicide.
<b>Tried and trusted</b>	Trials and demonstrations in Australian conditions over the last 4 years.
<b>Very high crop safety</b>	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.
<b>Broad spectrum weed</b>	Large range of broadleaf and grass weeds including Nightshades and Fathen.
<b>Persistent residual weed control</b>	Half life of 27-33 days in soil and only moderately soluble, ensuring effective weed control until after row closure.
<b>Suitable for all soil types and moistures</b>	Effective under all conditions with consistent results, including dry conditions.
<b>Tank mix flexibility</b>	Can be tank mixed with a range of pre-emergent and knockdown herbicides.
<b>Applicator Safety</b>	Non scheduled poison.



# MODE OF ACTION

Solecto 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

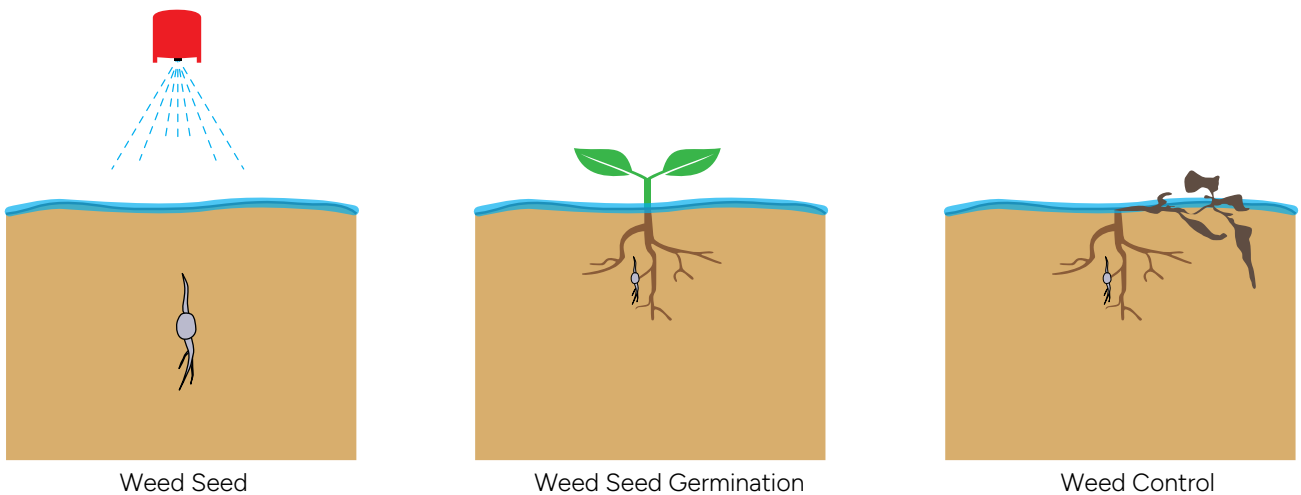
A re-cropping interval after application of 120 days, should be observed for root and leafy vegetables crops and 180 days for all other crops (including cereals) after application. Potatoes can be re-planted after minimal cultivation.

## RESISTANCE MANAGEMENT

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

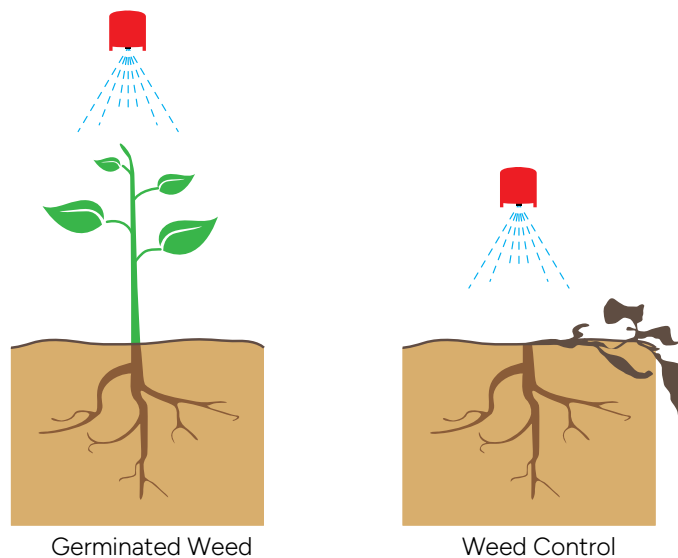
This mode of action is through photosynthetic electron transport inhibition by binding at the QB site on the D1 protein of the photosystem II complex, resulting in formation of reactive species that oxidise and degrade lipids and proteins.

## RESIDUAL ACTIVITY



## PLUS

## CONTACT ACTIVITY







## DIRECTIONS FOR USE

CROP	WEEDS	USE RATE	CRITICAL COMMENTS
Potatoes	Annual broad-leaved weeds and annual grasses.  Refer to Weeds Controlled table.	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 Soleta 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
<b>BROADLEAVED WEEDS</b>		
Amaranthus	Amaranthus powellii	3 L
Amaranth Redroot	Amaranthus retroflexus	3 L
Amaranth, Green	Amaranthus hybridus	4 L
Annual Mercury	Mercurialis annua	4 L
Black Bindweed	Polygonum convolvulus	3 L
Black Nightshade	Solanum nigrum	3 L
Californian Thistle	Cirsium vulgare	3 L
Capeweed	Arctotheca calendula	4 L Suppression
Charlock	Sinapis arvensis	3 L
Charlock, Jointed	Raphanus raphanistrum	3 L
Chickweed	Stellaria media	3 L
Cleavers	Galium aparine	3 L
Clover, Red	Trifolium pratense	4 L
Clover, White	Trifolium repens	3 L
Common Groundsel	Senecio vulgaris	3 L
Cornbind	Fallopia convolvulus	3 L
Fat Hen	Chenopodium album	3 L
Fumitory	Fumaria officinalis	3 L
Fumitory, Scrambling	Fumaria muralis	4 L Suppression
Knotgrass	Polygonum aviculare	3 L
Lesser Swinecress	Lepidium didymium	4 L Suppression
Mallow	Malva spp.	3 L
Oxalis	Oxalis latifolia	3 L
Pigweed	Portulaca oleracea	4 L Suppression



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

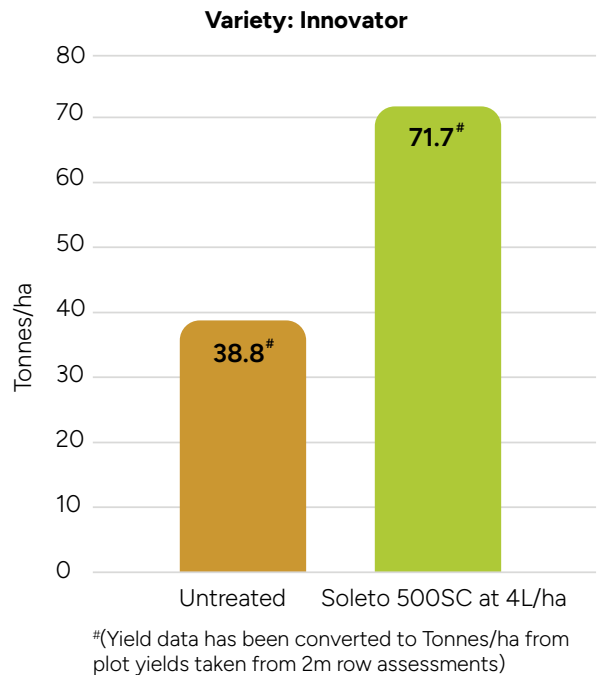
**Soleto was tank mixed with a range of pre-emergent, and knockdown herbicides.**

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

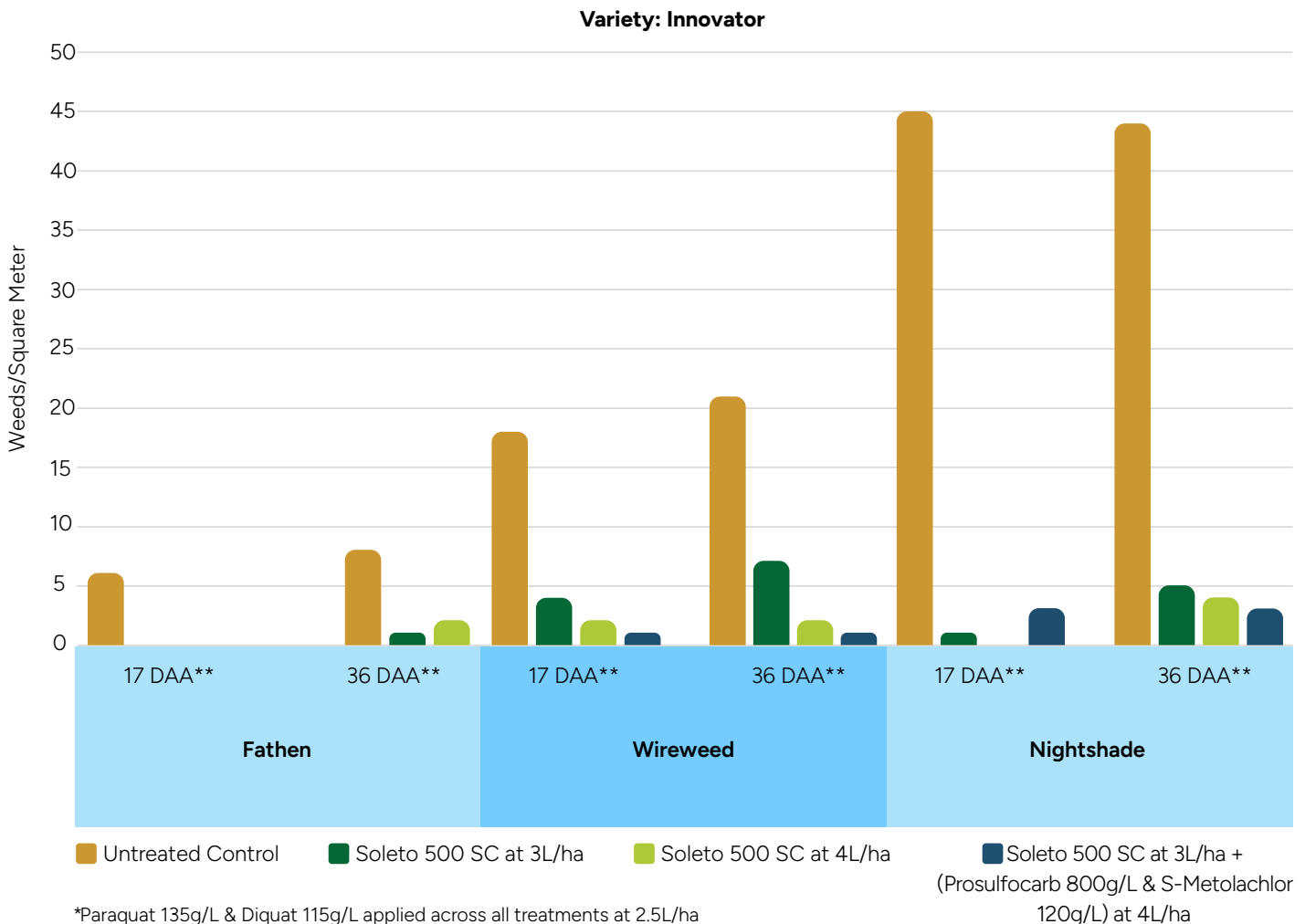
**Soleto is consistently safe on Metribuzin sensitive potato varieties.**

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

## BALLARAT YIELD DEMONSTRATION 2022



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



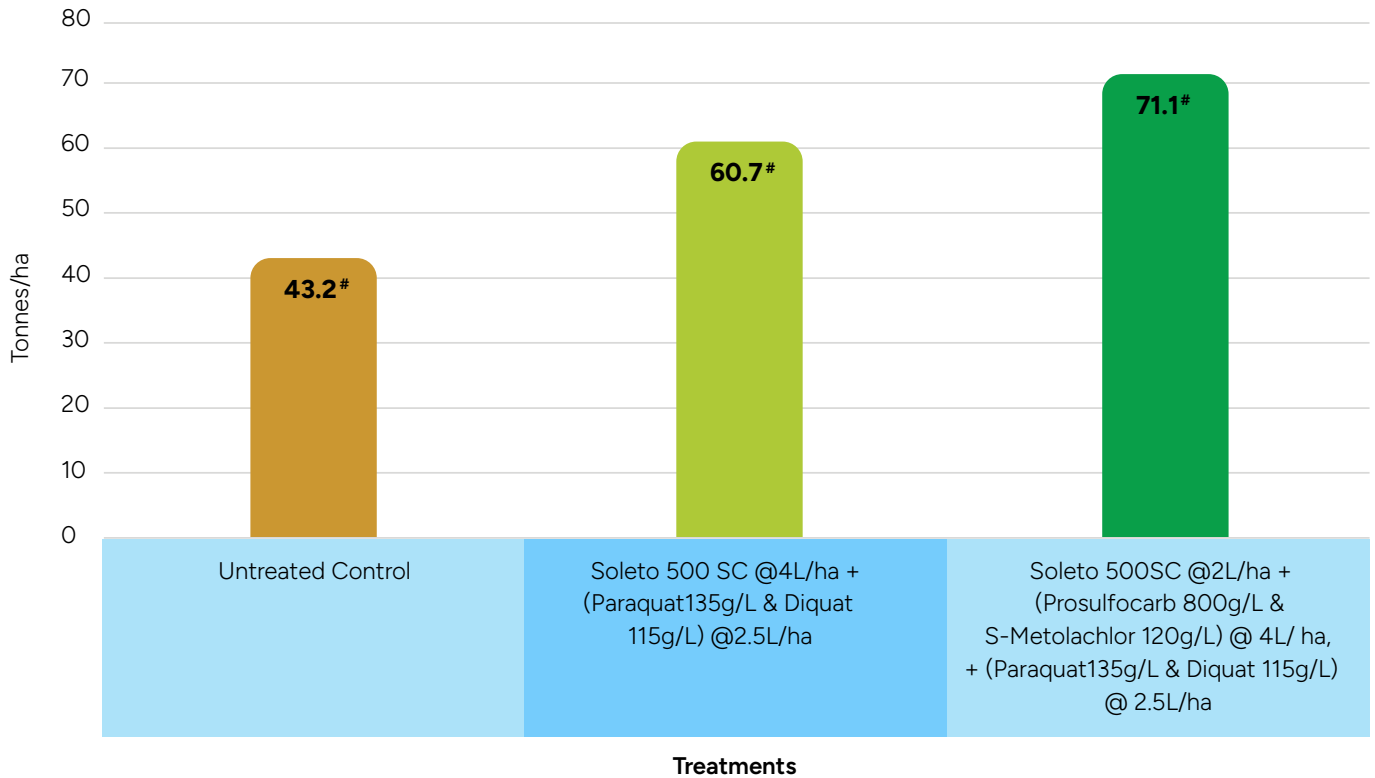
\*Paraquat 135g/L & Diquat 115g/L applied across all treatments at 2.5L/ha (excluding Untreated Control) prior to the application. \*\*Days after application.





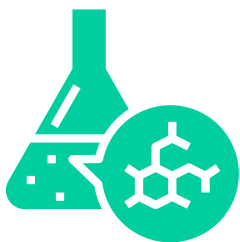
## MT GAMBIER DEMONSTRATION TRIAL 2022

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.

”







**7 WORLDS AG**

For all enquiries 1800 777 068 | [www.7worlds.com.au](http://www.7worlds.com.au)

