



# POTATO PORTFOLIO

**Maximise productivity**

**Minimise risk**

*This guide outlines use of UPL Australia products to give you the best chance of maximising your potato crop production. Seasonal and local conditions, and other management factors, can impact the final outcome.*

**FASCINATE® DRY**

**DITHANE® RAINSHIELD®**

**FASCINATE® 280**

**PENCOZEB®**

**ASULOX®**

**RANMAN®**

**UNIMARK®**

**ZEEMIL®**

**SELECT® XTRA**

**AFFIX®**

**MAINMAN®**

**CONAN® STICKS**

**SHENZI®**

**VITALROOT®**

**GAXY®**



[www.upl-ltd.com/au](http://www.upl-ltd.com/au)



## 1

## WEED CONTROL

An effective weed management program is essential, as:

- potatoes are not competitive until row closure
- weeds compete for light, water & nutrients
- weeds can act as a host for diseases & pests



### FALLOW WEED CONTROL

#### **FASCINATE® 280SL**

*glufosinate-ammonium 280g/L*

- ✓ annual grasses
- ✓ perennial grasses
- ✓ broadleaf weeds

- reliable weed control
- quality low-foam SL formulation
- glyphosate alternative
- compatible

Group 5 Herbicide

Rate: 280–950 g/Ha\*

#### **FASCINATE® DRY**

*glufosinate-ammonium 500g/kg*

- ✓ annual grasses
- ✓ perennial grasses
- ✓ broadleaf weeds

- reliable weed control
- quality low-foam formulation
- high loading
- easy-to-use granular formulation
- glyphosate alternative
- compatible

Group 10 Herbicide

Rate: 200g–2kg/Ha\*

### IN-CROP WEED CONTROL

#### **UNIMARK® 750WG**

*metribuzin 750g/kg*

- ✓ some annual grasses
- ✓ most annual broadleaf weeds

- controls a range of broadleaf weeds & some annual grasses in post-emerged potato crop
- suppresses sub-clover, docks & wild oats
- can be used up to 6 leaf or up to 10 cm

Group 5 Herbicide

Rate: 280–950 g/Ha\*

#### **SELECT® XTRA**

*clethodim 360g/L*

- ✓ annual grasses
- ✓ perennial grasses

- an extra strength formulation
  - store & handle less product
- rainfast within 1 hour
- reliable control of ryegrass, other grass weeds & volunteer cereals

Group 1 Herbicide

Rate: 100–330 ml/Ha\*

#### **ASULOX®** (Vic & Tas only)

*asulam 400g/L*

- ✓ docks

- controls docks in emerged potato crops
- apply before potato foliage obscures dock weed

Group 18 Herbicide

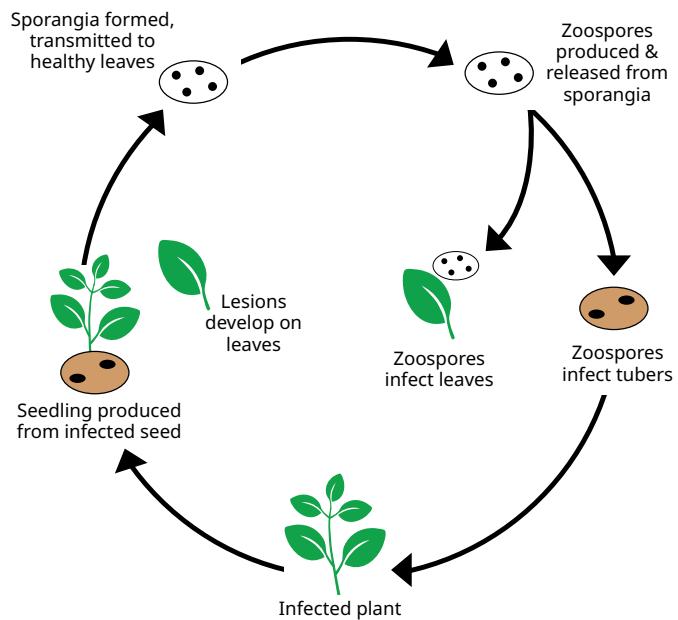
Rate: 2.8L in 280–440L water/Ha\*

\* depending on weed species present and state of application

# MANAGING FUNGICIDE RESISTANCE

Fungicide resistance is a growing concern in agriculture. A growing number of fungicide resistances has been documented internationally in a range of crops.

To ensure longevity of fungicides, it is recommended to rotate through different chemistry group to ensure maximum efficacy is maintained.



## PINK ROT CONTROL

### ZEEMIL® 720

*Mancozeb 640g/kg & Metalaxyl 80g/kg*

Group M3 & M4 Fungicide  
Rate: 250g/100L water  
WHP – 7 days

### ZEEMIL® 50

*Metalaxyl 50g/kg*

Group M3 & M4 Fungicide  
Rate: 20 kg/Ha  
WHP – not required

## SCURF SUPPRESSION\*\*

### AFFIX® 250SC

*Azoxystrobin 250g/L*

Group 11 Fungicide  
Rate: 5–10 ml per 100m row  
WHP – nil

\*\*Suppression only – black scurf & silver scurf

## EARLY BLIGHT CONTROL

### AFFIX® 250SC

*Azoxystrobin 250g/L*

Group 11 Fungicide  
Rate: 300–400 ml/Ha  
WHP – not required

### CONAN® STICKS

*Chlorothalonil 720 g/L*

Group M5 Fungicide  
Rate: 1.1–1.8 L/Ha  
WHP – not required

## LATE BLIGHT CONTROL

### RANMAN®

*Cyazofamid 400 g/L*

Group 21 Fungicide  
Rate: 150–200 ml/Ha  
WHP – 7 days

### AFFIX® 250SC

*Azoxystrobin 250g/L*

Group 11 Fungicide  
Rate: 500–600 ml/Ha  
WHP – nil

### ZEEMIL® 720

*Mancozeb 640g/kg & Metalaxyl 80g/kg*

Group M3 & M4 Fungicide  
Rate: 250g/100L water  
WHP – 7 days

### PENNCOZEB® 750DF

*Mancozeb 740 g/kg*

Group M3 Fungicide  
Rate: 150–200 g/100L water or 1.7–2.2 kg/Ha  
WHP – not required

### ZEEMIL® 720

*Mancozeb 640g/kg & Metalaxyl 80g/kg*

Group M3 & M4 Fungicide  
Rate: 250g/100L water  
WHP – 7 days

## DITHANE® RAINSHIELD® NEOTEC®\*

*Mancozeb 750g/kg*

Group M3 Fungicide  
Rate: 150–200 g/100L water or 1.7–2.2 kg/Ha  
WHP – 14 days

*The premium mancozeb formulation*

## POTATO MOTH CONTROL

### SHENZI®

Chlorantraniliprole 400g/L  
Group 28 Insecticide  
Rate: 50 ml/Ha  
WHP – Nil

Only target foliar infestation of potato moth. Moth Larvae in the soil or within the stem will not be controlled.  
Apply with a spray interval of 10-14 days.

### SHENZI: THE RIGHT CHOICE FOR POTATO MOTH CONTROL

SHENZI® is an insecticide formulation for control of Lepidoptera insect pests in horticultural and broadacre crops.

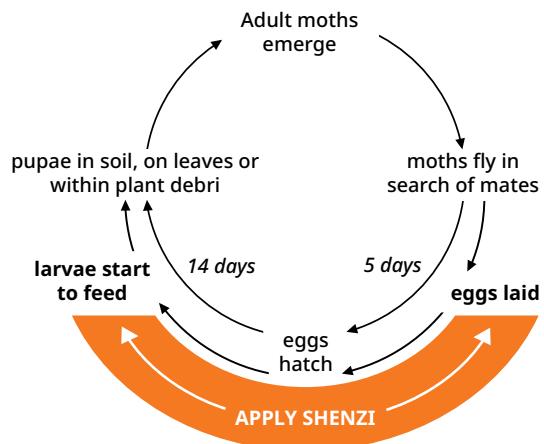
SHENZI is ideal for IPM programs. It offers an alternative to older, broad-spectrum options which impact the populations of natural potato moth predators in the crop.

- Potato moth (*Phthorimaea operculella*) can cause significant damage to tubers & plants
- Larvae tunnel through leaves & tubers making them hard to control

- Control should therefore be targeted prior to larvae moving to tubers or soil
- Use SHENZI to target foliar infestation, to control emerging larvae & all stages of larval development

### Potato Moth Lifecycle

- Adults lay eggs 2 days after emerging
- Eggs are found on the underside of plant leaves
- Incubation is around 2 weeks in summer – with this extending in cooler months
- In warmer weather, the life cycle can be completed within 4 weeks, allowing for multiple generations in a growing season



## APHID CONTROL

### MAINMAN®

Flonicamid 500g/kg  
Group 29 Insecticide  
Rate: 140–200 g/Ha  
WHP – 14 days

Apply at first sign of aphid infestation. A minimum re-treatment interval of 2 weeks must be observed. Do not apply more than 2 applications. Use the higher rate under high pest pressure.

### MAINMAN: NEXT GENERATION APHID CONTROL

Using MAINMAN allows for effective control of aphids while also allowing for aphids' natural predators – the ladybird beetle and lacewing – to be unaffected and work in conjunction with chemical.

- Aphids can transmit a range of viruses including potato leaf roll virus, potato Y virus (PVY) and potato virus A
- The primary source of PVY spread is through aphids
- It only takes a small number of aphids to spread the virus quickly



### For MAINMAN 500 WG to be most effective:

- Ensure thorough & even coverage
- Apply in sufficient water & adjust water volumes according to crop growth stage
- use only MEDIUM spray droplets

## SUPPORTING NATURAL GROWTH

### VITALROOT®

*GoActiv seaweed filtrate + plant available P(6.6%) & K(4.8%)*

- supports natural root growth & structures
- improves early root development preparing the crop for tuber bulking

Biostimulant

Rate: 1 L/Ha, water volume <1000L/Ha

Apply 2–3 applications. 1st at full emergence GS12–13, 2nd 2 weeks following first GS28, and if required 3rd at tuber initiation – 4 weeks following first application.



## SUPPORTING HEALTHY ROOT GROWTH & ACTIVITY

### Vitalroot in Potatoes

Tent Hill, QLD

2021

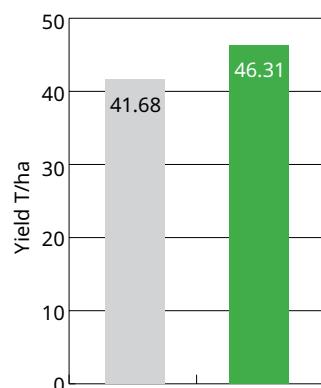
Variety – FL1867

untreated

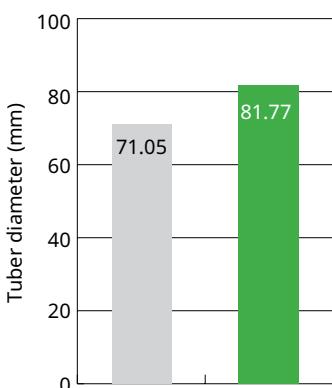
VITALROOT  
2 applications x 1L/ha  
@ GS13 & GS38

VITALROOT applied at full emergence & 2 weeks following full emergence. Harvested 137 days post planting. Trial conducted by Azaaka Research

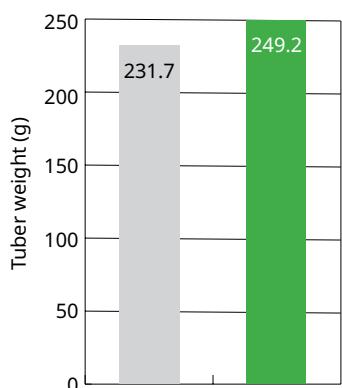
### Yield



### Tuber diameter



### Tuber weight



## GROW MORE WITH LESS, USE GAXY

### GAXY®

100% *Ascophyllum nodosum* seaweed filtrate

- super concentrated with low application rates
- highly compatible
- maximises natural plant growth potential

Biostimulant

Rate: 400 ml/Ha or 60 ml/100L water

2 applications:  
1st at tuber initiation (6 leaf)  
2nd at Bulking ( BBCH 40-45)



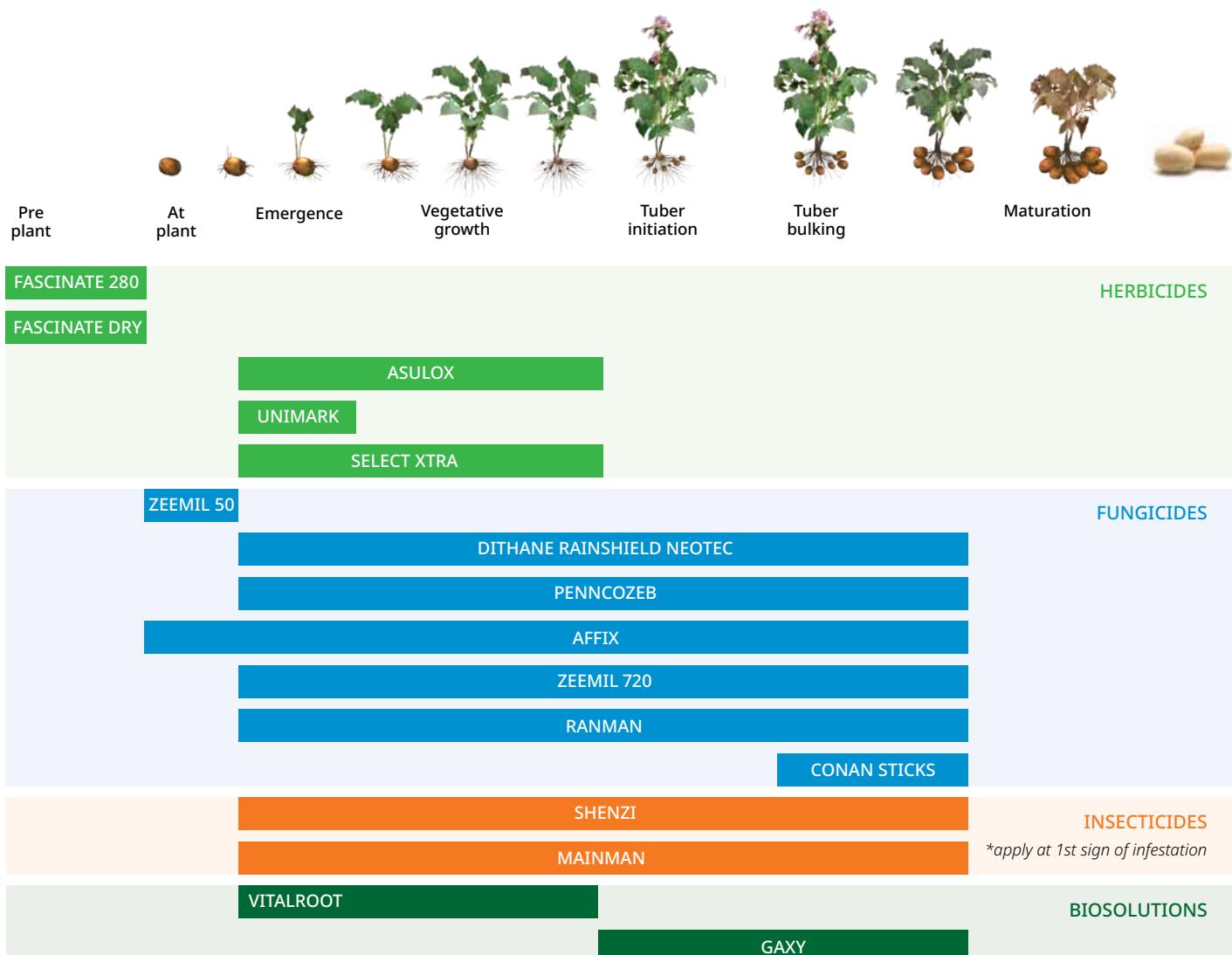
### GAXY: GROW MORE WITH LESS

GAXY is a highly concentrated *Ascophyllum nodosum* extract. Sustainably harvested by hand from the north Atlantic sea, it is extracted within 24 hours of harvest using a patented cold pressed, cell burst technology.

This extraction process gives a super concentrated extract for lower application rates in the paddock.

Because no heat or alkaline products are used in the extraction process, and there's no additives, GAXY is highly compatible with plant protection and nutrient products

## UPL PRODUCT APPLICATION TIMING IN POTATO CROP PRODUCTION



	PRODUCT	USE	ACTIVE	CHEMICAL GROUP
HERBICIDE	FASCINATE DRY	Annual & perennial grasses, broadleaf weeds	Glufosinate-ammonium 500g/kg	10
	FASCINATE 280 SL	Annual & perennial grasses, broadleaf weeds	Glufosinate-ammonium 280g/L	10
	ASULOX	Docks	Asulam 400g/L	18
	UNIMARK	some annual grasses & most annual broadleaf weeds	Metribuzin 750g/kg	5
	SELECT XTRA	Annual & perennial grasses	Clethodim 360g/L	1
FUNGICIDE	AFFIX 250 SC	Early blight, late blight, black scurf & silver scurf suppression	Azoxystrobin 250g/L	11
	CONAN STICKS	Early blight	Chlorothalonil 720g/L	M5
	DITHANE RAINSHIELD NEOTEC	Early blight	Mancozeb 750g/kg	M3
	PENNCOZEB 750 DF	Early blight	Mancozeb 750g/kg	M3
	ZEEMIL 720	Early blight, late blight & pink rot	Mancozeb 640g/kg + Metalaxyl 80g/kg	M3 + 4
	RANMAN	Late blight	Cyazofamid 400g/L	21
	ZEEMIL 50	Pink rot	Metalaxyl 50g/kg	4
INSECTICIDE	MAINMAN	Green peach aphid, melon aphid & potato aphid	Flonicamid 500g/kg	29
	SHENZI	Potato moth	Chloranthaniliprole 400g/L	28
BIOSTIMULANT	VITALROOT	Supports root growth & structure	GoActive seaweed filtrate + P 6.6% + K 4.8%	NA
	GAXY	Maximises natural plant growth potential	100% cold-pressed <i>Ascophyllum nodosum</i> filtrate	NA

Always read the label and follow the label directions in full before any application





UPLAustralia



UPLAUSLtd

## SALES ORDERS

Telephone 1800 078 007

Fax 1800 078 048

Email [auorders@upl-ltd.com](mailto:auorders@upl-ltd.com)

05/24

UPL Australia Pty Ltd shall not be liable in any manner whatsoever for errors, omissions, results, loss or damage whether consequential or otherwise resulting from the use of and / or access to information.

® registered trademarks of UPL group of companies.



UPL Australia Pty Ltd  
Level 3, 70 Hindmarsh Square  
Adelaide South Australia 5000  
T: (08) 8112 0900 F: (08) 8112 0999  
E: [admin.aus@upl-ltd.com](mailto:admin.aus@upl-ltd.com)

[www.upl-ltd.com/au](http://www.upl-ltd.com/au)