



Blueberry registrations – current and upcoming



Gideon van Zyl

BerriesZA Technical Symposium May 2024

Blueberry spray book (2024-2025)

Updated for 2024-2025 season
(version 6)



BLUEBERRY SPRAYBOOK

VS 6 MAY 2024



PR@CROP
agricultural consultancy

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agricultural consultancy

Blueberry spray book (2024-2025)

Updated for 2024-2025 season
(version 6)

- Latest registrations per pest and disease

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INFO ON PESTICIDES FOR THE CONTROL OF THRIPS									
Active Ingredient	Trade names	Formulation	Dosage (g or mL) per 100 L water or kg/ha	IRAC Code	Local (RSA)		EU		Notes
					MRL	PHI	MRL	PHI	
Acetamiprid	Tamprid	200g/kg WP	20-40g/100L	4A	2	35	2	35	Maximum 2 applications per season <i>Will also control mealybug, although not registered for this purpose.</i>
canola oil + garlic juice extract + pyrethrin extract	Kannar KangroShield 100	250; 642; 3,5 g/l	500 ml/100L	3A		2	1		
	Kannar Pygar 932	473; 473; 0,6875 g/l	1.5 L to 2.0 L		1	1			
Natural Pyrethrum	Xterminator	7.5g/L SC	500ml/100L	3A	0	1	1	0	Spray interval must not exceed 3-5 days
Metarhizium anisopliae	Real Metarhizium 69	-	200-400ml/ha	UN	0	0	0	0	This product is an entomopathogenic fungus and field efficacy might be erratic, depending on environmental condition and infestation level.
Spinetoram	Delegate	250g/kg WG	10g/100L	5A	0.01	7	0.4	7	Do not apply in more than 2 consecutive applications and not more than 3 sprays in total per season.

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- Latest registrations per pest and disease
- Updated pest and disease info where applicable

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Powdery mildew:

Powdery mildew is caused by the fungus *Microsphaera vaccinia* and infect plants in the family Ericaceae. The fungus most likely overwinters as chasmothecia on fallen leaves on the ground and most probably also as mycelium in dormant buds although this has not yet been confirmed. Infection take place under conditions of high relative humidity, moderate to high temperatures and in the absence of free water on the plant surface. With the coming of cool weather later in the season, conidium production ceases and chasmothecia are formed.

Notes on chemical control of Powdery mildew:

Control of powdery mildew is usually not needed because of the minimal damage it causes to the plant.








Blueberry spray book (2024-2025)

Updated for 2024-2025 season (version 6)

- Latest registrations per pest and disease
- Updated pest and disease info where applicable
- Market access information to be updated by end June
- Not many changes expected
- Confirm with exporter
 - Take note of classifications
 - e.g. Monitored vs restricted vs prohibited

Residue Specifications

		Max. %MRL / individual residue	Max. %MRL / sum of all residues	Max. % ARD ^{3,4} / individual residue	Max. % ARD / sum of all residues	Number of residues
Aldi		70%	80%	80%	80%	3-5 per product group (see below) (Negative List)
Dohle Hit		70%		100%		3-5 per product group (see below)
Edeka/ Netto		70% (50% private labels)		100%		max. 5
Globus		70%		100%		max. 5 (Negative List)
Lidl		33%	80%	100%		max. 5 (Negative List - timeline for substitution)

Special market restrictions for supermarkets in the United Kingdom - Pesticides

INSECTICIDES	Active Ingredient	TESCO		ASDA		Sainsbury		M&S		Waitrose			
		Monito red	Restric ted	Phase out	Restric ted	Monito red	Restricted	Monito red	Restric ted	Monito red	Blacklist	Red group	Amber
Acetamiprid	Tamprid							YES					YES
Canola oil	Kangro shield												
Indoxacarb	Steward		YES			YES		YES		YES			
Mercaptothion	Harrier		YES				YES						
Natural pyrethrum	Xterminator					YES				YES			
Pirimicarb	Aphox		YES			YES		YES		YES			YES
Spinetoram	Delegate	YES				YES				YES			
Spinosad	GF-120	YES				YES		YES		YES			
Thiacloprid	Topstar			YES		YES		YES	YES				YES
Thiamethoxam	Actara		YES			YES		YES	YES			YES	

Insecticides

PEST	Indoxacarb (22A)	Pirimicarb (1A)	Virus ABW	Beauvaria	Natural Pyrethum	Pyrethrin Extract	Spinetoram (5A)	BT	Mercaptothion 1B	Spinosad (5A)	Spinosad (5A)	Spinosad (5A)	Thiamethoxam (4A)	Thiacloprid (4A)	Acetamiprid (4A)	TOTAL
	Text here Steward/ Addition/ Advance/ Aphitec	Aphox	Helicovir/ Bolldex/ Helimax	Broadband	Xterminator	Kannar Kangro Shield	Delegate	DiPel	Harrier/Insecto	Entrust	Gf-120 NF	Static Spinosad ME	Actara/ Pinnacle 420	Topstar	Tamprid	
Bollworm																5
Aphids																2
White fly																3
Fruit fly																2
Thrips																3
Red spider mite																2
Blue berry bud mite																0
Leaf roller																1
Semi-Looper																1
Snout beetle																3
Mealy bug																1
SWD																0

Insecticides

PEST	Indoxacarb (22A)	Pirimicarb (1A)	Virus ABW	Beauvaria	Natural Pyrethum	Pyrethrin Extract	Spinetoram (5A)	BT	Mercaptothion 1B	Spinosad (5A)	Spinosad (5A)	Spinosad (5A)	Thiamethoxam (4A)	Thiacloprid (4A)	Acetamiprid (4A)	TOTAL
	Text here Steward/ Addition/ Advance/ Aphitec	Aphox	Helicovir/ Bolldex/ Helimax	Broadband	Xterminator	Kannar Kangro Shield	Delegate	DiPel	Harrier/Insecto	Entrust	Gf-120 NF	Static Spinosad ME	Actara/ Pinnacle 420	Topstar	Tamprid	
Bollworm																5
Aphids																2
White fly																3
Fruit fly																2
Thrips																3
Red spider mite																2
Blue berry bud mite																0
Leaf roller																1
Semi-Looper																1
Snout beetle																3
Mealy bug																1
SWD																0

Insecticides

PEST	Indoxacarb (22A)	Pirimicarb (1A)	Virus ABW	Beauvaria	Natural Pyrethum	Pyrethrin Extract	Spinetoram (5A)	BT	Mercaptothion 1B	Spinosad (5A)	Spinosad (5A)	Spinosad (5A)	Thiamethoxam (4A)	Thiacloprid (4A)	Acetamiprid (4A)	TOTAL
	Text here Steward/ Addition/ Advance/ Aphitec	Aphox	Helicovir/ Bolldex/ Helimax	Broadband	Xterminator	Kannar Kangro Shield	Delegate	DiPel	Harrier/Insecto	Entrust	Gf-120 NF	Static Spinosad ME	Actara/ Pinnacle 420	Topstar	Tamprid	
Bollworm																5
Aphids																2
White fly																3
Fruit fly																2
Thrips																3
Thrips																2
Blue berry bud mite																0
Leaf roll																1
Semi-Looper																1
Snout beetle																3
Mealy bug																1
SWD																0

- Current registered actives has no/low/little residual activity
- Thiacloprid and Acetamiprid residual activity – systemic actives
- Lack of registered active ingredients with systemic residual activity to protect actively growing flush post pruning to pre-flower

Insecticides

PEST	Indoxacarb (22A)	Pirimicarb (1A)	Virus ABW	Beauvaria	Natural Pyrethum	Pyrethrin Extract	Spinetoram (5A)	BT	Mercaptothion 1B	Spinosad (5A)	Spinosad (5A)	Spinosad (5A)	Thiamethoxam (4A)	Thiacloprid (4A)	Acetamiprid (4A)	TOTAL
	Text here Steward/ Addition/ Advance/ Aphitec	Aphox	Helicovir/ Bolldex/ Helimax	Broadband	Xterminator	Kannar Kangro Shield	Delegate	DiPel	Harrier/Insecto	Entrust	Gf-120 NF	Static Spinosad ME	Actara/ Pinnacle 420	Topstar	Tamprid	
Bollworm																5
Aphids														NR	NR	2
Mealybug																3
Whitefly																2
Leaf miner																2
Mealybug													NR			3
Red spider mite																2
Blue berry bud mite																0
Leaf roll																1
Semi-Looper																1
Scout borer																3
Mealy bug													NR		NR	1
SWD																0

• Only *Metarhizium anisopliae* registered

• Acetamiprid not registered but will be effective against crawler stages

• Thiamethoxam not registered, highly systemic - residue risk, even in pre-flower stage

• Lack of active ingredients for use in post-pruning and pre-flower stage

Insecticides

PEST	Indoxacarb (22A)	Pirimicarb (1A)	Virus ABW	Beauvaria	Natural Pyrethum	Pyrethrin Extract	Spinetoram (5A)	BT	Mercaptothion 1B	Spinosad (5A)	Spinosad (5A)	Spinosad (5A)	Thiamethoxam (4A)	Thiacloprid (4A)	Acetamiprid (4A)	TOTAL
	Text here Steward/ Addition/ Advance/ Aphitec	Aphox	Helicovir/ Bolldex/ Helimax	Broadband	Xterminator	Kannar Kangro Shield	Delegate	DiPel	Harrier/Insecto	Entrust	Gf-120 NF	Static Spinosad ME	Actara/ Pinnacle 420	Topstar	Tamprid	
Bollworm																5
Aphids														NR	NR	2
White fly																3
Fruit fly																2
Thrips													NR			3
Red spider mite																2
Blue berry bud mite																0
Leaf roller																1
SWD no registrations																1
Snout beetle																3
• Gulu is on it																1
SWD																0

Fungicides

DISEASE	Text here Pyraclostrobin/ Boscalid (11/7)	Captab	Tebuconazole(3)	Copper oxychloride (M1)	Fluopyram(7)	Azoxystrobin (11)	Fenhexamid (17)	Mefenoxam (4)	Potassium Bicarbonate	Pyrimethanil (9)	Cyprodinil/ Fludioxonil (9/12)	<i>Bacillus methylophilus</i>	Fludioxonil/ Pyrimethanil (9/12)	TOTAL
	Bellis/ Bostrin/ Prevent	Captab WP	Corona	Demildex/ FarmAg Cu Super	Luna Privilege	Obstructo/ Ortiva/ Nufarm Azoxy	Teldor/ Providor	Ridomil Gold 480 SL	Agricure	Scala	Switch	Incite	Tutor	
Leaf rust						NR			NR					3
Botrytis	NR			NR					NR		NR			8
Anthracnose	NR													3
Powdery mildew	NR		NR		NR								Suppression only	3
Alternaria	NR		NR	NR	NR	NR								5
Septoria	NR		NR	NR	NR									5
Fruit rot														2
Botryosphaeria														1
Twig Blight														1
Phytophthora														1

Fungicides

DISEASE	Text here Pyraclostrobin/ Boscalid (11/7)	Captab	Tebuconazole(3)	Copper oxychloride (M1)	Fluopyram(7)	Azoxystrobin (11)	Fenhexamid (17)	Mefenoxam (4)	Potassium Bicarbonate	Pyrimethanil (9)	Cyprodinil/ Fludioxonil (9/12)	<i>Bacillus methylophilicus</i>	Fludioxonil/ Pyrimethanil (9/12)	TOTAL
	Bellis/ Bostrin/ Prevent	Captab WP	Corona	Demildex/ FarmAg Cu Super	Luna Privilege	Obstructo/ Ortiva/ Nufarm Azoxy	Teldor/ Providor	Ridomil Gold 480 SL	Agricure	Scala	Switch	Incite	Tutor	
Leaf rust						NR			NR					3
Botrytis	NR			NR					NR		NR			8
Anthracnose	NR													3
Powdery mildew	NR		NR		NR								Suppression only	3
Alternaria	NR		NR	NR	NR	NR								5
Scab	NR		NR	NR	NR									5
Fruit rot														2
Botryosphaeria														1
Twig Blight														1
Phytophthora														1

Fungicides - well covered

Fungicides

DISEASE	Text here		
	Pyraclostrobin/ Boscalid (11/7)	Captab	Tebuconazole(3)
	Bellis/ Bostrin/ Prevent	Captab WP	Corona
Leaf rust			
Botrytis	NR		
Anthracnose	NR		
Powdery mildew	NR		
Alternaria	NR		
Septoria	NR		
Fruit rot			
Botryosphaeria			
Twig Blight			
Phytophthora			



PREVENT 380 WDG

Reg. No. L11353, Act No. 36 of 1947 | Reg. Nr. L11353, Wet Nr. 36 van 1947

A water dispersible granular fungicide, for the preventive control of various fungal diseases, on crops as listed.

FRAC FUNGICIDE GROUP CODES 11 & 7

ACTIVE INGREDIENT:
 Pyraclostrobin (methoxy-carbamates) 128g/kg
 Boscalid (carboxanilide) 252g/kg

Manufactured for and registered by/Vervaardig vir en geregistreer deur:
Sharda International Africa (PTY) LTD
 Reg. No./Reg. Nr. 2010/002268/07
 P. O. Box/Posbus 82021, Southdale, 2135
 Tel: 031-764 3011

UN No. /VN Nr. 3077

IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL ASSEBLIEF
 086 155 5777

'n Waterdispergeerbare korrelswamdoder, vir die voorkomende beheer van verskeie swamsiektes, op gewasse soos gelys.

FRAC SWAMDODER GROEP KODES 11 & 7

AKTIEWEBESTANDDEEL:
 Pyraclostrobin (methoxy-karbamate) 128g/kg
 Boscalid (karboksanilied) 252g/kg

BATCH NUMBER LOT-NOMMER	
EXPIRY DATE VERVAL DATUM	

NET CONTENTS / NETTO INHOUD
1 Kg



**CAUTION
VERSIGTIG**

BOSTRIN 380 WG

Act No. 36 of 1947 / Wet Nr. 36 van 1947 / SA Reg. No. L11445

READ ATTACHED PACKAGED LEAFLET BEFORE USE - KEEP OUT OF REACH OF CHILDREN AND ANIMALS

GROUP	7 11	FUNGICIDES
-------	----------------------	------------

PRODUCT INFO:
 A water dispersible granular fungicide for the preventative control of fungal diseases on crops as listed.

PRODUK INFO:
 'n Waterdispergeerbare korrelswamdoder vir die voorkomende beheer van swamsiektes op gewasse soos aangedui.

HAZARD STATEMENTS:
 Causes skin irritation.
 Causes serious eye damage.
 Harmful if inhaled.
 Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:
 Wear protective gloves, protective clothing, eye, and face protection.
 Wash hands, face, and exposed skin thoroughly after handling. Do not touch eyes.

DANGER

Active Ingredients / Aktiewe Bestanddele

Boscalid (pyridine-carboxamide)	252 g/kg	Boscalid (piridien-karboksamied)
Pyraclostrobin (methoxy-carbamates)	128 g/kg	Piraklostrobien (metoksi-karbamate)
Net (g) SEE CONTAINER		
Registration Holder / Registrasiehouer		

ICA
 INTERNATIONAL CHEMICALS AFRICA

ICA International Chemicals (Pty) Ltd. • Reg. No. 2001/013319/07 - 28 Planken Street - Plankenbrug Industrial - STELLENBOSCH - 7600 • SOUTH AFRICA • Tel. +27-21 886 9812 • www.icaonline.co.za

Batch No.	SEE CONTAINER	Lot No.
Date of Manufacture		Datum van Vervaardiging

Human Poison Helpline +27-861 555 777 • Griffon Poison Information Centre +27-82 446 8946
 UN No. / VN Nr. 3077

Group III

Primethanil (9)	Cyprodinil/ Fludioxonil (9/12)	<i>Bacillus methylotrophicus</i>	Fludioxonil/ Pyrimethanil (9/12)	TOTAL
Scala	Switch	Incite	Tutor	
				3
	NR			8
				3
			Suppression only	3
				5
				5
				2
				1
				1
				1

Fungicides

DISEASE	Text here Pyraclostrobin/ Boscalid (11/7)	Captab	Tebuconazole(3)	Copper oxychloride (9) Cyprodinil/ Fludioxonil (9/12)	<i>Bacillus methylophilicus</i>	Fludioxonil/ Pyrimethanil (9/12)	TOTAL
	Bellis/ Bostrin/ Prevent	Captab WP	Corona	Demildex/ FarmAg Cu S		Switch	Incite	
Leaf rust								3
Botrytis	NR			NR	NR			8
Anthracnose	NR							3
Powdery mildew	NR		NR				Suppression only	3
Alternaria	NR		NR	NR				5
Septoria	NR		NR	NR				5
Fruit rot								2
Botryosphaeria								1
Twig Blight								1
Phytophthora								1

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

Fungicide

CAPTAB WP

Reg. No. L 6758 Act No. 36 of 1947
N-AR 1903

4-28/05/2023 - June 2023

A wettable powder fungicide for the control of diseases as listed.

ACTIVE INGREDIENT
captan 500 g/kg

GROUP	M4	FUNGICIDE
-------	----	-----------

DANGER

Hazard Statements:
May be harmful in contact with skin.
May cause an allergic skin reaction.
Causes serious eye damage.
Harmful if inhaled.
Suspected of causing cancer.
Very toxic to aquatic life.

Precautionary Statements:
Avoid release into the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.

kg

villa

UN Number: 3077

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.
Co. Reg. No. 1983/008184/07
PO Box 801, Kempton Park, 1630
Tel. (011) 396 2233
Website: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:
Griffon Poison Centre: +27 82 446 8946
24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411
(Client: Villa Crop Protection)

DIRECTIONS FOR USE ENCLOSED
Batch Number:
Date of Manufacture:

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

Fungicides

DISEASE	Text here Pyraclostrobin/ Boscalid (11/7)	Captab	Tebuconazo
	Bellis/ Bostrin/ Prevent	Captab WP	Corona
Leaf rust			
Botrytis	NR		
Anthracnose	NR		
Powdery mildew	NR		NR
Alternaria	NR		NR
Septoria	NR		NR
Fruit rot			
Botryosphaeria			
Twig Blight			
Phytophthora			

Tutor⁵⁰⁰ SC

Act No. 36 of 1947 / Wet Nr. 36 van 1947
SA Reg. No. L9948 / NAM Reg. No. N-AR 1706 / BWA Reg. No. W1301053
READ ATTACHED PACKAGED LEAFLET BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

GROUP	9	12	FUNGICIDES
-------	---	----	------------

PRODUCT INFO:
A suspension concentrate, contact and translaminar fungicide for the control of various diseases in crops as listed.

PRODUK INFO:
n Suspensie konsentraat kontak en translaminêre swamdoder vir die beheer van verskeie siektes op gewasse soos aangedui.




HAZARD STATEMENTS:
May be harmful if swallowed.
May be harmful in contact with skin.
Harmful if inhaled.
Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:
Wash hands, face, and exposed skin thoroughly after handling.
Do not touch eyes.

WARNING

Active Ingredients / Aktiewe Bestanddele

Pyrimethanil (anilino-pyrimidines) 400 g/ℓ	Pyrimetaniel (anilino-pirimidien)
Fludioxonil (phenylpyrrole) 100 g/ℓ	Fludioxonil (fenielpirool)

Net (e) SEE CONTAINER
Registration Holder / Registrasiehouer



ICA International Chemicals (Pty) Ltd • Reg. No. 2001/013319/07
28 Planken Street • Plankenbrug Industrial • STELLENBOSCH • 7600 • SOUTH AFRICA
Tel. +27-21 886 9812 • www.icaonline.co.za

Batch No. **SEE** Lot Nr.
Date of Manufacture **CONTAINER** Datum van Vervaardiging

Human Poison Helpline +27-861 555 777 • Griffon Poison Information Centre +27-82 446 8946

GROUP III UN No. / VN Nr. 3082 SANB-Tut004-006

anil (9)	Cyprodinil/ Fludioxonil (9/12)	<i>Bacillus methylotrophicus</i>	Fludioxonil/ Pyrimethanil (9/12)	TOTAL
	Switch	Incite	Tutor	
				3
	NR			8
				3
			Suppression only	3
				5
				5
				2
				1
			NR	1
				1

Insecticides in process

PEST Text here	Meridian		FMC	ICA	VILLA (all in development)					TOTAL
Bollworm							Spinosad DUPLICATION			1
Aphids	Pymetrozine			Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat				2
White fly	Pymetrozine		Cyantraniliprole	Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat			Cyantraniliprole	4
Fruit fly		Protein Hydrolysate Bait								1
Thrips	Pymetrozine		Cyantraniliprole	Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat	Spinosad DUPLICATION		Cyantraniliprole	5
Red spider mite										0
Snout beetle			Cyantraniliprole		Thiamethoxam DUPLICATION				Cyantraniliprole	2
Snails										0
Mealy bug				Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat		Buprofenzin		2

Insecticides in process

PEST	Meridian		FMC	ICA	VILLA (all in development)				TOTAL
Bollworm							Spinosad DUPLICATION		1
Aphids	Pymetrozine			Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat			2
White fly	Pymetrozine		Cyantraniliprole	Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat		Cyantraniliprole	4
Fruit fly		Protein Hydrolysate Bait							1
Thrips	Pymetrozine		Cyantraniliprole	Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat	Spinosad DUPLICATION	Cyantraniliprole	5
Red spider mite									0
Snout beetle			Cyantraniliprole		Thiamethoxam DUPLICATION			Cyantraniliprole	2
Snails									0
Mealy bug				Spirotetramat				Buprofenzin	2



Insecticides in process

Status under [Reg. \(EC\) No 1107/2009](#)
 (repealing [Directive 91/414/EEC](#))

Approved

- Legislation
- [Reg. \(EU\) 2024/324](#)
 - [Reg. \(EU\) No 2023/114](#)
 - [Dir 2011/6/EU](#)
 - [Reg. \(EU\) No 540/2011](#)
 - [Reg. \(EU\) 2017/360](#)
 - [Reg. \(EU\) 2018/670](#)

Old legislation [2008/771/EC](#)

Date of approval: 01/02/2011 Expiration of approval: 15/12/2025

Code	Products to which MRLs apply	MRL 1	MRL 2	Notes
0154010	● Blueberries	0.01*	0.05*	
	Mealy bug			
	Spirotetramat			

Post pruning/pre-flower

VILLA (all in development)			TOTAL
	Spinosad DUPLICATION		1
tramat			2
tramat		Cyantraniliprole	4
			1
tramat	Spinosad DUPLICATION	Cyantraniliprole	5
			0
		Cyantraniliprole	2
			0
	Buprofezin		2

Buprofezin (F)
 Reg. (EU) No 520/2011
 applicable previous

Insecticides in process

PEST Text here	Meridian		FMC	ICA	VILLA (all in development)				TOTAL
Bollworm							Spinosad DUPLICATION		1
Aphids	Pymetrozine			Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat			2
White fly	Pymetrozine		Cyantraniliprole	Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat		Cyantraniliprole	4
Fruit fly		Protein Hydrolysate Bait							1
Thrips	Pymetrozine		Cyantraniliprole	Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat	Spinosad DUPLICATION	Cyantraniliprole	5
Red spider mite									0
Snout beetle			Cyantraniliprole		Thiamethoxam DUPLICATION			Cyantraniliprole	2
Snails									0
Mealy bug				Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat		Buprofenzin	2

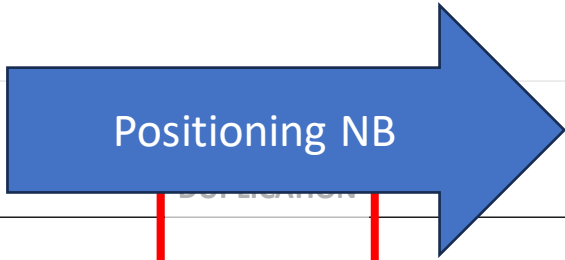
Insecticides in process

PEST	Meridian	FMC	ICA	VILLA (all in development)			TOTAL
Bollworm					Spinosad DUPLICATION		1
Aphids	Pymetro			Thiamethoxam			2
White fly	Pymetro	Status under Reg. (EC) No 1107/2009 (repealing Directive 91/414/EEC)					4
Fruit fly							
Thrips	Pymetro	Reg. (EU) No 1177/2013 Reg. (EU) 2022/489 Reg. (EU) 2020/2007 Reg. (EU) 2018/155		Old legislation	Dossier complete 07/560/EC		5
Red spider mite							0
Snout beetle						Cyantraniliprole	2
Snails		Date of approval 01/05/2014		Expiration of approval 30/04/2024			0
Mealy bug			Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat	Buprofenzin	2

Not approved

Insecticides in process

PEST	Meridian	FMC	ICA	VILLA (all in development)				TOTAL
Bollworm						Spinosad DUPLICATION		1
Aphids	Pymetrozine		Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat			2
White fly	<p>Code Products to which MRLs apply</p> <p>0154010 ● Blueberries</p>					<p>Spirotetramat and spirotetramat-enol (sum of), expressed as spirotetramat(R)</p> <p>i Reg. (EU) 2023/1049 applicable</p>	<p>Spirotetramat and spirotetramat-enol (sum of), expressed as spirotetramat(R)</p> <p>i Reg. (EU) 2022/1324 previous</p>	4
Fruit fly								1
Thrips								5
Red spider mite								0
Snout beetle						1.5	1.5	2
Snails								0
Mealy bug			Spirotetramat	Thiamethoxam DUPLICATION	Spirotetramat		Buprofenzin	2



Insecticides in process

PEST
Bollworm
Aphids
White fly
Fruit fly
Thrips
Red spider mite
Snout beetle
Snails
Mealy bug

→ Spirotetramat

Acknowledgement: Bayer Crop Science South Africa



MRLs and Import tolerances from 2026 onwards

MRLs/Itols to be kept

Citrus	Courgette	Globe-artichokes	Apricot	Parsnips	Basil
Nuts	Melons	Beans (dry)	Strawberries	Parsley root	Bay leaves
Pistachios	Pumpkins	Peas (dry)	Blueberries	Radishes	Tarragon
Pome-fruits	Watermelons	Lupins	Cranberries	Salsify	Peas (fresh w/o pods)
Stone fruits	Broccoli	Soybean	Currants	Turnips	Fennel
Table grapes	Cauliflower	Cotton seed	Gooseberries	Garlic	Leek*
Wine grapes	Lettuce	Hops	Rose hips	Shallots	Rhubarb
Kiwi	Scarole	Sugar beet	Mulberries	Sweet corn	Lentils (dry)
Lychee	Cress		Azole	Brussel sprouts	Olives for oil production
Avocados	Rucola		Elderberries	ts	
Mangoes	Mustard		Table Olives	Head cabbage	
Papaya	Leaves and sprouts of		Kumquats*	Chinese cabbage	Herbal infusion (dried, leaves)
Guava	Brassica		Persimmon	Kale	Herbal infusion (dried, flowers*)
Potatoes	Spinach		Bananas	Kohlrabi	Chicory roots
Onions	Beans w/wo pods		Pomegranate	Witloof*	
Tomatoes	Peas		Pineapples	Chervil	
Peppers*	Lentils		Beetroot	Celery leaves	
Aubergines	Celery		Carrots	Parsley	
Okra			Celeriac	Sage	
Cucumber			Horseradish	Rosemary	
Gherkins			Jerusalem-artichokes	Thyme	

MRLs to be dropped to default

* MRL is set at the limit of quantification

RESTRICTED

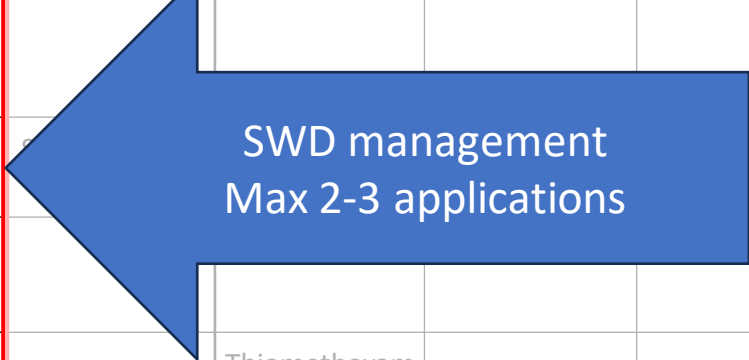
	TOTAL
	1
	2
mat and mat-of), l as mat(R)	4
	1
	5
	0
	2
	0
	2

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Insecticides in process

PEST Text here	Meridian	FMC	ICA	VILLA (all in development)					TOTAL
Bollworm						Spinosad DUPLICATION			1
Aphids	Pymetrozine NEW		Spirotetramat NEW	Thiamethoxam DUPLICATION	Spirotetramat				2
White fly	Pymetrozine NEW	Cyantraniliprole	Spirotetramat NEW	Thiamethoxam DUPLICATION	Spirotetramat			Cyantraniliprole	4
Fruit fly		Proteien Hydrolysate Bait NEW							1
Thrips	Pymetrozine NEW	Cyantraniliprole	Spirotetramat NEW	Thiamethoxam DUPLICATION	Spirotetramat	Spinosad DUPLICATION		Cyantraniliprole	5
Red spider mite									0
Snout beetle		Cyantraniliprole		Thiamethoxam DUPLICATION				Cyantraniliprole	2
Snails									0
Mealy bug			Spirotetramat NEW	Thiamethoxam DUPLICATION	Spirotetramat		Buprofenzin		2

Insecticides in process

PEST	Meridian	FMC	ICA	VILLA (all in development)			Cyantraniliprole	TOTAL	
Bollworm							i Reg (EU) 2023/1068 applicable	i Reg. (EU) 2022/476 previous	1
Aphids	Code	Products to which MRLs apply							2
White fly	0154010	● Blueberries				4		4	4
Fruit fly		Proteien Hydrolysate Bait NEW							1
Thrips	Pymetrozine NEW		Cyantraniliprole				osad ICATION	Cyantraniliprole	5
Red spider mite									0
Snout beetle			Cyantraniliprole		Thiamethoxam DUPLICATION			Cyantraniliprole	2
Snails									0
Mealy bug				Spirotetramat NEW	Thiamethoxam DUPLICATION	Spirotetramat		Buprofenzin	2

Fungicides in process

Text here

DISEASE	ICA			Villa				TOTAL
Leaf rust	Azoxystrobin/ Fludioxonil			Trifloxystrobin/ Tebuconazole		Dithianon	Azoxystrobin/ Difenoconazole	2
Botrytis	Azoxystrobin/ Fludioxonil		Peracetic acid		Captan			3
Anthracnose	Azoxystrobin/ Fludioxonil							1
Powdery mildew	Azoxystrobin/ Fludioxonil							1
Alternaria	Azoxystrobin/ Fludioxonil							2
Septoria	Azoxystrobin/ Fludioxonil							2
Phytophthora								1

Fungicides in process

Text here

DISEASE	ICA			Villa	TOTAL
Leaf rust	Azoxystrobin/ Fludioxonil		Trifloxystrobin/ Tebuconazole	bin/ azole	2
Botrytis	Azoxystrobin/ Fludioxonil	Peracetic acid		Capt	3
Anthracnose	Azoxystrobin/ Fludioxonil				1
Powdery mildew	Azoxystrobin/ Fludioxonil				1
Alternaria	Azoxystrobin/ Fludioxonil				2
Septoria	Azoxystrobin/ Fludioxonil				2
Phytophthora					1



Fungicides in process

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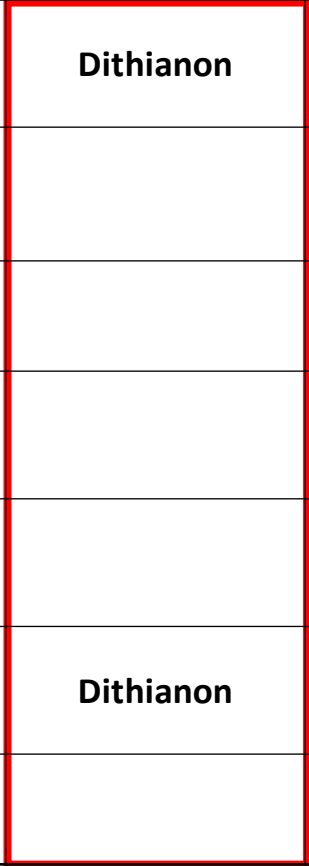
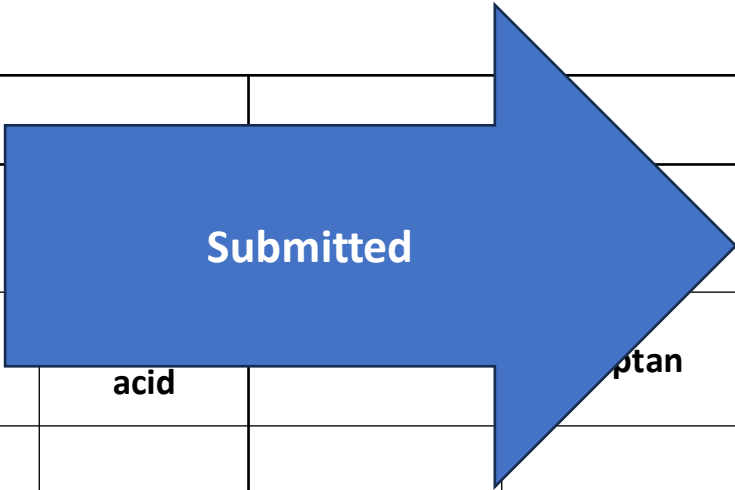
DISEASE	ICA		Villa				TOTAL
Leaf rust	Azoxystrobin/ Fludioxonil		Azoxystrobin/ Difenoconazole		Dithianon	Azoxystrobin/ Difenoconazole	2
Botrytis	Azoxystrobin/ Fludioxonil		Captan				3
Anthracnose	Azoxystrobin/ Fludioxonil						1
Powdery mildew	Azoxystrobin/ Fludioxonil						1
Alternaria	Azoxystrobin/ Fludioxonil						2
Septoria	Azoxystrobin/ Fludioxonil						2
Phytophthora							1

Captan 800 WDG + Folpet 500 SC is in development

Fungicides in process

Text here

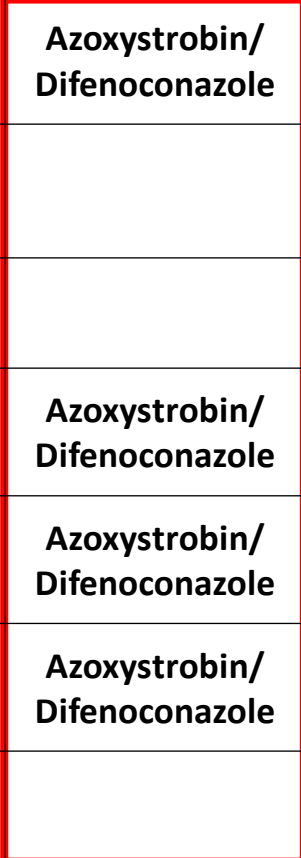
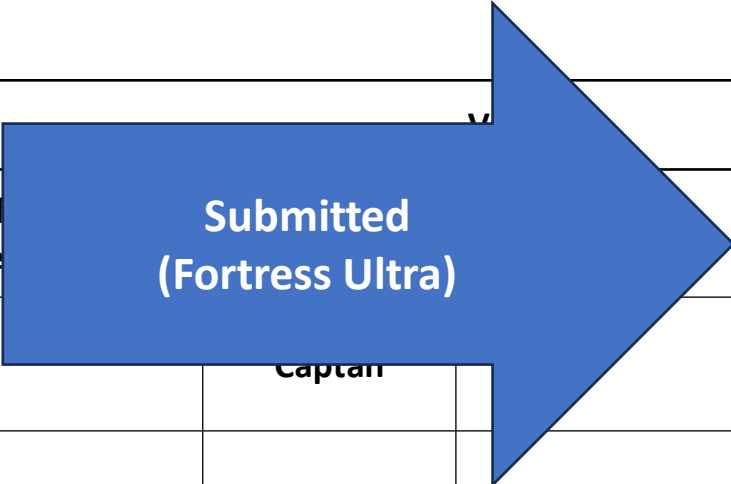
DISEASE	ICA		Villa	TOTAL
Leaf rust	Azoxystrobin/ Fludioxonil		Dithianon	2
Botrytis	Azoxystrobin/ Fludioxonil	acid	ptan	3
Anthracnose	Azoxystrobin/ Fludioxonil			1
Powdery mildew	Azoxystrobin/ Fludioxonil			1
Alternaria	Azoxystrobin/ Fludioxonil			2
Septoria	Azoxystrobin/ Fludioxonil		Dithianon	2
Phytophthora				1



Fungicides in process

Text here

DISEASE	ICA			v			TOTAL
Leaf rust	Azoxystrobin/ Fludioxonil			Trif		Azoxystrobin/ Difenoconazole	2
Botrytis	Azoxystrobin/ Fludioxonil		Peracetic acid		Captan		3
Anthracnose	Azoxystrobin/ Fludioxonil						1
Powdery mildew	Azoxystrobin/ Fludioxonil					Azoxystrobin/ Difenoconazole	1
Alternaria	Azoxystrobin/ Fludioxonil					Azoxystrobin/ Difenoconazole	2
Septoria	Azoxystrobin/ Fludioxonil					Dithianon	2
Phytophthora							1



Herbicides in process

Villa

- Post emergent selective grass herbicide – Clethodim
 - **Submitted (Clethodim 240 EC)**

Recommendations – Future focus

Thrip management post-harvest post pruning/pre-flower stage

- Lack systemic pesticides to manage thrips, all actives registered no residual efficacy except acetamiprid/thiacloprid
- Methamidophos
- Chlorfenapyr
- Acephate

Mealybug management

- post harvest after pruning
 - Protiophos + medium range mineral oil
 - Methidathion + medium range mineral oil
 - Methomyl + medium range mineral oil
- Pre-flower stage
 - Buprofenzin + medium range mineral oil (Already in development)
 - Sulfoxaflor

Recommendations – Future focus

Phytophagous mites post pruning – Is it worth it? **Low priority**

- Fenazaquin
- Fenpyroximate (Bud mite & mealybug)

SWD...

- Cypermethrin (residue risk?)
- Spinetoram or Spinosad (max applications 6 in US; max in SA 3)
- Cyantraniliprole (max applications 3??)
- Acetamiprid (Withholding period problematic - max applications 5 in US; Max in SA is 2)
- Number of sprays per active ingredient (resistance management) available problematic



Thank you

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