

From the technical desk:

- Blue Berry spray manual
- Bud mite monitoring project
- Botrytis symposium
- Field days - 2022
- Status of pesticide registrations
- Research projects - 2022



ProCrop

intelligent crop solutions

Blue Berry spray manual

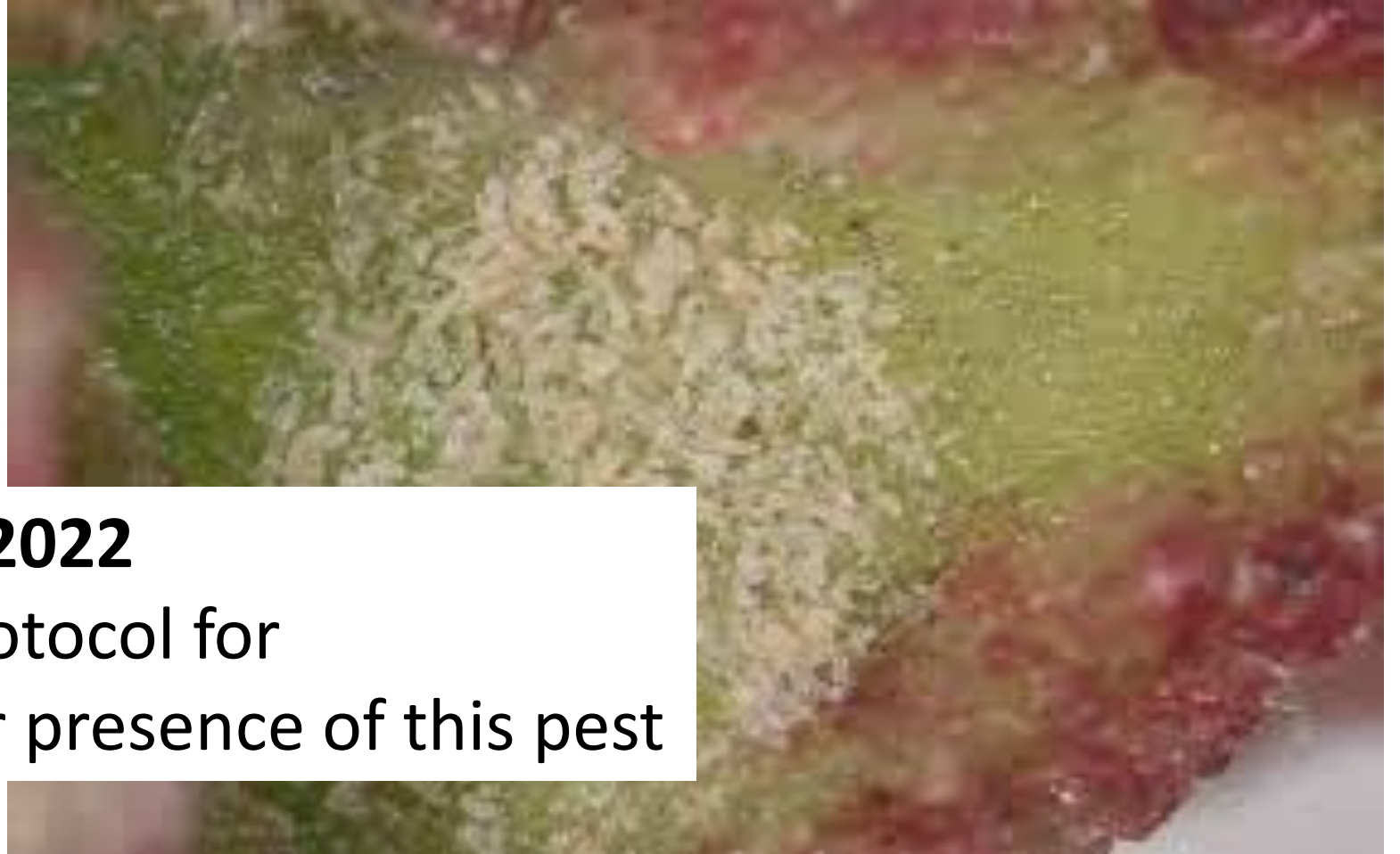


SPRAY BOOK – Blueberries 2022



Updated and distributed
Comments on improvements always welcome

Bud mite
management
discussion



Mooinooi 4th February 2022

Discussed and launch protocol for
area wide monitoring for presence of this pest

Botrytis Seminar

27th May 2022

Topics discussed:

- Epidemiology
- Pre-Harvest management
- Post Harvest management
- Fungicide resistance
- Pesticide application
- Disease decision support



58 People in person and 35 online

Field days planned for 2022

- 5th August – Paarl.
- 8th August – George.
- 17-19th August - Northern production areas.

Main topic will be pesticide application with focus on:

- Calibration and set up of spray equipment – canopy adapted spraying
 - Tractor speed/air volume/canopy volume
 - Water volumes
 - Concentration
- Factors compromising efficacy and management of these
- Measuring deposition efficacy

INSECTICIDES

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

Gaps - Insecticides

- Mealy bugs
 - In season product with short PHI
- Thrips
 - Post pruning control to protect new growth
- Red spider mite and bud mite
 - No registrations of products with proven efficiency

INSECTICIDES

PEST	Meridian		FMC	ICA	VILLA			AANTAL
Bollworm			Cyantraniliprole NEW				Spinosad DUPLICATION	1
Aphids	Pymetrozine NEW			Spirotetramat NEW	Thiamethoxam DUPLICATION	Spirotetramat NEW		3
White fly	Pymetrozine NEW		Cyantraniliprole NEW	Spirotetramat NEW	Thiamethoxam DUPLICATION	Spirotetramat NEW		4
Fruit fly		Cerra Trap						1
Thrips	Pymetrozine NEW		Cyantraniliprole NEW	Spirotetramat NEW	Thiamethoxam DUPLICATION	Spirotetramat NEW	Spinosad DUPLICATION	5
Red spider mite								0
Snout beetle			Cyantraniliprole NEW		Thiamethoxam DUPLICATION			2
Snails								0
Mealy bug				Spirotetramat NEW	Thiamethoxam DUPLICATION	Spirotetramat NEW		2

FUNGICIDES											
DISEASE	Pyraclostrobin/ Boscalid (11/7)	Tebuconazole (3)	Copper oksichlor (M1)	Fluopyram (7)	Azoxy Strobin (11)	Fenhexamid (17)	Mefanoxam (4)	Pyrimethanil (9)	Cyprodinil/ Fludioxonil (9/12)	Potassium bicarbonate NC	TOTAL
	Bellis	Corona	Demildex/ FarmAg Cu Super	Luna Privilege	Obstructo/ Ortiva	Teldor/ Providor	Ridomil Gold 480 SL	Scala	Switch	Agri-Cure SP	
Leaf rust					NR						2
Botrytis	NR		NR							NR	5
Antrachnose	NR										3
Powdery mildew	NR	NR		NR							4
Alternaria	NR	NR	NR	NR	NR						4
Septoria	NR	NR	NR	NR							4
Fruit rot											1
Botryosphaeria											1
Twig Blight											1
Phytopthera											1

FUNGICIDES

DISEASE	WINFIELD UNITED			Adama	ICA			AANTAL
Leaf rust	Tebuconazole/ Trifloxystrobin (3/11)	Azoxystrobin/ Difenconazole (11/3)	Dithianon		Azoxystrobin/ Fludioxynyl			2
Botrytis				Bio Produk vanaf Tee ekstrak	Azoxystrobin/ Fludioxynyl	Pyrimethanil/ Fludioxynyl	Peracetic acid	3
Antrachnose					Azoxystrobin/ Fludioxynyl			1
Powdery mildew	Tebuconazole/ Trifloxystrobin (3/11)	Azoxystrobin/ Difenconazole (11/3)			Azoxystrobin/ Fludioxynyl			1
Alternaria	Tebuconazole/ Trifloxystrobin (3/11)	Azoxystrobin/ Difenconazole (11/3)	Dithianon		Azoxystrobin/ Fludioxynyl			2
Septoria	Tebuconazole/ Trifloxystrobin (3/11)	Azoxystrobin/ Difenconazole (11/3)	Dithianon		Azoxystrobin/ Fludioxynyl			2
Phytopthera								1

HERBICIDES

WEEDS	Glyphosinate ammonium
Non Selective post emergence	Best Buy

HERBICIDES IN PROCESS

ONKRUID	WINFIELD UNITED
Grasse selektief na opkoms	Clethodim
Na-opkoms breë spektrum	Glufosinate Ammonium

Research Projects

- Pesticide application (Procrop)
 - Establishing optimal spray volumes for different canopy sizes – *“building a tree row volume model”* for blue berries.
- Validation of Botrytis decision support system (US Plant pathology).