



**Science For A Better Life** 

# International blackcurrant conference 2016

Bayer solutions for blackcurrant in the United Kingdom

Dorin Pop, Ashford, Kent, 14-16 June 2016



Agenda

- Current Bayer solutions
- Future Bayer solutions
- Phomopsis
- Dropsophila suzukii



# **Current Bayer solutions**

## **Fungicides**

- **TELDOR**° (MAPP 11229)
- **SERENADE** (EAMU-20130706 and EAMU-20150306)

## **Insecticides**

- **CaLypso**° (EAMU-20142133)
- MOVENTO 1500D formulation (EAMU-20121401 note 365 day PHI)
- env/dor<sup>®</sup> (EAMU-20161000)

**Herbicides** 

• **ARTIST**<sup>®</sup> (EAMU-20152968)





# Future Bayer solutions (fungicides)

- Fluopyram + trifloxystrobin 500SC
- Disease control requested: Botrytis, Powdery mildew, Blackcurrant leaf spot



Source: Data taken from a range of trials



Botrytis efficacy results with fluopyram + trifloxystrobin 500SC (UKA386a) in HL01105 (Developing biocontrol methods and their integration in sustainable pest and disease management in blackcurrant production-Link project 2012 report)



3 or 4 sprays at 7-10 day intervals from 1st open flower

\*This fungicide is not currently authorised; authorisation is being sought from CRD. Use plant protection products safely. Always read the label and product information before use.

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# Future Bayer solutions (insecticides)

- Spirotetramat 100SC
- Pest control requested: aphids, scale, gall mite and spider mite
- Unique two-way systemicity reaches new growth that hasn't been directly sprayed
- Active substance spirotetramat kills hidden and hard-to-target pests
- Safe to beneficials an excellent IPM choice
- Suitable for a wide range of fruit crops





Leaf midge(*Dasineura tetensi*) efficacy results with spirotetramat 100SC (UKA385a) part of Link Project <u>HL01105</u> (Developing biocontrol methods and their integration in sustainable pest and disease management in blackcurrant production-2011 report)



Bars that are significantly (P ≤ 0.05) less than the untreated control in a simple one way ANOVA are marked with an asterisk

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Leaf midge(*Dasineura tetensi*) efficacy results with spirotetramat 100SC (UKA385a) part of Link Project <u>HL01105</u> (Developing biocontrol methods and their integration in sustainable pest and disease management in blackcurrant production-2011 report)



Bars that are significantly ( $P \le 0.05$ ) less than the untreated control in a simple one way ANOVA are marked with an asterisk

\*This insecticide is not currently authorised; authorisation is being sought from CRD.

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Page 8 • Stonebridge blackcurrant plantation near Goudhurst Use plant protection products safely. Always read the label and product information before use.

Timing of spirotetramat 100 SC(UK385a) application for the control of blackcurrant gall mite (*Cecidophyopsis ribis*) 2012 HDC (SF 12-230)



Mean numbers of galls recorded at each assessment \*= significantly different from the control.

	٦	Freatment		Mean no. galls/plot (n=30)		Mean no. galls/plot/plant Plant(n=30)		Rate of gall no. increase	
Trt	Product	Date	Growth stage	28-May	15-Nov	28-May	15-Nov		
1	UKA385a	1 Jun	Early green fruit	119.6	304.0	4.49	11.69	*2.56	
2	UKA385a	3 Jul	Late green fruit	134.6	317.2	5.06	11.92	*1.92	
3	UKA385a	10 Aug	Pre-harvest	71.8	558.4	2.66	21.15	6.49	
4	UKA385a	5 Sep	Post-harvest	119.8	623.2	4.50	24.34	5.31	
5	UKA385a	10 Oct	Post-harvest	97.8	670.6	3.47	24.13	7.54	
6	Untreated			115.4	749.0	4.01	26.19	7.39	

Total numbers of mites per gall in 7 categories recorded in November from 10 galls per plot 50 galls per treatment.

			Numbers of mites within a gall						
Trt	Product	Date	0	1-3	4-10	11-30	31-100	101-300	301-1000
1	UKA385a	1 Jun	0	0	0	0	0	0	50
2	UKA385a	3 Jul	3	0	0	0	0	0	47
3	UKA385a	10 Aug	0	0	0	2	13	13	23*
4	UKA385a	5 Sep	0	0	0	0	0	0	50
5	UKA385a	10 Oct	0	0	0	0	0	0	50
6	Untreated		0	0	0	0	0	0	50

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# Blackcurrant: Phomopsis control

## UK work: FERA, ADAS (with GSK) 2010-2014



### **+ SF012 (GSK223)** FERA 2010-11

"Branch dieback in blackcurrant: identification and control of potential pathogens, including the fungus Phomopsis"

- Later reports refer to this work showing significant control of *Phomopsis in-vitro* from Serenade
- + SF102 (GSK226) ADAS 2012-13

"Blackcurrants: Control of Phomopsis dead arm in flailed down plantations"

• No Serenade included in testing ?

#### + SF142 FERA 2013-14

"Phomopsis dieback of blackcurrants - methodology development and control "

 Confirmed SF012 in-vitro results: Serenade at as low as 0.001ml/L agar inhibited Phomopsis development (= 1ml in 1000L)

#### Commercial applications in 2014

• Difficult to measure effect





## Dropsophila suzukii- attract and kill







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## Thank you!

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Calypso contains thiacloprid; Envidor contains Spirodiclofen; Serenade contains Bacillus subtilis strain QST 713; Teldor contains fenhexamid; Artist contains flufenacet and metribuzin; Signum contains boscalid and pyraclostrobin. Hallmark contains lambda-cyhalothrin.

Use plant protection products safely. Always read the label and product information before use. For further product information, including warning phrases and symbols, refer to www.bayercropscience.co.uk or call Bayer Assist on 0845 609 2266 (calls cost 5p per minute plus your telephone company's network access charge) or 01223 226644. © Bayer CropScience Limited 2016