# **SCEPTREPLUS**

# **Final Trial Report**

Trial code:	SP47b
Title:	Powdery Mildew Control in Protected Ornamentals
Crop	Honeysuckle <i>Lonicera</i>
Target	Powdery Mildew (Erysiphe Ionicerae)
Lead researcher:	Lauren Branfield
Organisation:	Stockbridge Technology Centre
Period:	May 2021 – July 2021
Report date:	3 <sup>rd</sup> December 2021
Report author:	Aleana Cairns
ORETO Number: (certificate should be attached)	ORETO 435

I the undersigned, hereby de	eclare that the work was performed according to the procedures
herein described and that thi	s report is an accurate and faithful record of the results obtained
Date	Authors signature

### **Trial Summary**

#### Introduction

Powdery Mildew continues to be a priority target for many ornamental growers, a damaging disease which can rapidly reduce the value of their crop. The trial was designed to compare the use of biopesticides individually and in combination against a standard fungicide program. The trial also worked to identify possible EAMUs for AHDB 9914 and AHDB 9926, for use in ornamentals crops. The use of biopesticides in combination offers an exciting alternative spray programme to growers and nurseries as the list of available actives continues to decrease.

#### Methods

A susceptible but popular variety of honeysuckle, *Lonicera Periclymenum* was chosen for the trial. During 2020 a group of 180 plants were inoculated with Powdery Mildew (*Erysiphe Ionicerae*) sourced from wild honeysuckle to produce a living culture of Powdery Mildew infector plants. These plants were maintained until trial commencement in 2021. Immediately after the first application, infector plants were evenly dispersed throughout the trial area. A fan was also installed to increase airflow and therefore aid spore dispersal throughout the glasshouse. Plants were watered via capillary matting as preliminary work had revealed that overhead watering was detrimental to Powdery Mildew development. The standard fungicides were applied every 10 -14 days, whereas the biopesticides had a 7-day interval. Disease severity, incidence and phytotoxicity were recorded every week.

#### Results

A summary of the trial is shown in the tables below, presented as percentage disease control for each variable, severity, and incidence relative to treatment 1 the untreated control.

Powdery Mildew Disease Incidence converted to percentage control/reduction in disease compared to

the untreated control (treatment 1).

	Control (ti								
	Trt 2	Trt 3	Trt 4	Trt 5 <sup>b</sup>	Trt 6 <sup>b</sup>	Trt 7 <sup>b</sup>	Trt 8 <sup>b</sup>	Trt 9 <sup>b</sup>	Trt 10 <sup>b</sup>
Date	Standard Programme	AHDB 9914	AHDB 9926	Fytosave	Romeo	Fytosave +Sonata	Romeo+ +Sonata	Fytosave +AQ10	Romeo +AQ10
07.06.21	100	100	100	100	100	100	100	0	0.0
15.06.21	100	100	100	100	100	100	100	79.52	100
22.06.21	100	79.52	79.52	79.52	100	100	100	79.52	79.52
29.06.21	100	83	83	83	100	79.52	100	83	79.52
06.07.21	91.5	91.5	91.5	91.5	83.5	83	100	91.5	83
13.07.21	94.37	94.37	94.37	89.07	83.44	91.5	94.37	94.37	91.5
20.07.21	97.00	97.00	94.18	88.18	91.18	94.37	94.18	97.00	94.37
27.07.21	98.62	95.95	83.79	79.58	54.05	97.00	97.33	97.33	97.00
03.08.21	99.12	97.41	70.68	74.15	56.93	98.62	95.71	98.29	98.62
10.08.21	99.63	98.91	78.18	78.18	52.72	96.54	96.71	98.19	97.41
Not significantly different from the untreated control (p>0.05)									
Significantl	ly differen	t from the	untreated	l control (	o<0.05)				

Powdery Mildew Disease Severity converted to percentage control/reduction in disease compared to the untreated control (treatment 1).

	ireated control (treatment 1).									
		Trt 2	Trt 3	Trt 4	Trt 5 <sup>b</sup>	Trt 6 <sup>b</sup>	Trt 7 <sup>b</sup>	Trt 8 <sup>b</sup>	Trt 9 <sup>b</sup>	Trt 10 <sup>b</sup>
	Date	Standard Programme	AHDB 9914	AHDB 9926	Fytosave	Romeo	Fytosave +Sonata	Romeo+ +Sonata	Fytosave +AQ10	Romeo +AQ10
F	07.06.21	100	100	100	100	100	100	100	70	100
Γ	15.06.21	100	100	100	100	100	100	100	87.5	70.83
	22.06.21	100	90.32	90.32	90.32	100	90.32	100	77.42	77.42

	Trt 2	Trt 3	Trt 4	Trt 5 <sup>b</sup>	Trt 6 <sup>b</sup>	Trt 7 <sup>b</sup>	Trt 8 <sup>b</sup>	Trt 9 <sup>b</sup>	Trt 10 <sup>b</sup>
Date	Standard Programme	AHDB 9914	AHDB 9926	Fytosave	Romeo	Fytosave +Sonata	Romeo+ +Sonata	Fytosave +AQ10	Romeo +AQ10
29.06.21	100	95.16	95.16	95.16	100	88.71	100	88.71	88.71
06.07.21	97.22	97.22	97.22	97.22	90.74	93.52	100	93.52	93.52
13.07.21	97.99	97.99	97.99	95.30	85.91	95.30	97.99	95.30	95.30
20.07.21	98.63	98.63	96.80	89.04	85.84	96.80	96.80	96.80	93.61
27.07.21	99.47	97.54	75.57	64.67	46.22	97.54	96.31	97.01	97.54
03.08.21	99.69	98.55	64.04	53.99	40.62	95.34	93.16	98.24	97.10
10.08.21	99.95	99.45	72.99	64.93	45.81	97.87	94.74	98.40	98.63
Not significantly different from the untreated control (p>0.05)									
Significan	tly differer	nt from the	untreate	d control (	(p<0.05)				

<sup>\*</sup>b indicates treatments with biological controls

#### **Conclusions**

All treatments 2 through 10 provided significant control against Powdery Mildew in the host honeysuckle. The two fungicides, AHDB 9926 and AHDB 9914 (treatments 3 and 4) showed promise as alternative fungicide methods for the control Powdery Mildew in ornamentals. Although all significantly different to the untreated control (UTC) treatments 4,5 and 6 were significantly different to all other treatments in the final assessments with increasing disease severity and incidence and reduced control.

#### Take home message:

The data from this trial is strong evidence that biological controls, when used in combination as a spray programme can significantly reduce disease levels and provide similar results to using a standard commercial fungicide programme. This trial also demonstrates the importance of using a combination of actives for ensuring long term control. Both in the case of biological control methods and conventional fungicides, better control was provided when following a spray programme rather than relying on a single product.

#### **Objectives**

To assess a selection of conventional fungicides and biopesticides for crop safety and for activity against Powdery Mildew in ornamentals, using *Lonicera* as a model species.

#### **Methods**

Prior to trial initiation a living culture of Powdery Mildew was developed to act as infector plants. *Erysiphe lonicerae* was sourced from natural infection on wild honeysuckle. This was dispersed around 180 honeysuckle plants in a glasshouse and observed for successful infection. The trial was set up in glasshouse F20 and spaced across 3 benches. In total there were 6 replicates of 10 plots each containing 12 plants. Plants were placed onto capillary matting with no overhead watering. Following the first application infector plants were evenly dispersed throughout the trial area and a fan installed to generate air movement. Standard fungicides were applied every 10 -14 days and biopesticides every 7 days. All products were foliar applied at a water volume of 500L/ha. Disease severity, incidence and phytotoxicity were recorded each week for a total of 13 weeks. More detailed information regarding the methods can be found below.

#### **Trial conduct**

UK regulatory guidelines were followed but EPPO guidelines took precedence. The following EPPO guidelines were followed:

Relevant EPPO	Relevant EPPO guideline(s)			
PP 1/135(4)	Phytotoxicity assessment	None		
PP 1/152(4)	Design and analysis of efficacy evaluation trials	None		
PP 1/181(4)	Conduct and reporting of efficacy evaluation trials including GEP	None		
PP 1/239(3)	Dose expression for plant protection products	None		
PP 1/224(2)	Principles of efficacy evaluation for minor uses	None		

There were no deviations from EPPO guidance.

#### **Test site**

Item	Details
Location address	Glasshouse F20,
	Stockbridge Technology Centre,
	Cawood,
	Selby,
	Y08 3TZ
Crop	Lonicera
Cultivar	Lonicera Periclymenum
Soil or substrate type	Levington M2 compost
Agronomic practice	Lonicera plugs were planted in 1L pots in July 2020 and kept in glasshouse MFU 6 and overhead watered. In March 2021 these were moved to F20 and placed on capillary matting. Plants were pruned back on the 12.05.21. Feed was applied on 3 occasions (03.06.21, 17.06.21, 24.06.21) and a biocontrol for whitefly (Encarsia) was added once on the 13.07.21. No insecticides or additional fungicides apart from the test treatments were applied.
Prior history of site	No prior crops in 2021

Trial design

Item	Details
Trial design:	Randomized complete block
Number of replicates:	6
Row spacing:	50cm (separate benches)
Plot size: (w x l)	2 x 2
Plot size: (m²)	4
Number of plants per plot:	12

## **Treatment details**

AHDB Code	Active substance	Product name/ manufacturers code	Formulation batch number	Content of active substance in product	Formulation type	Adjuvant
	-	-	_	-	_	-
	Azoxystrobin	Amistar	GRA8000032	250 g/l (23.1% w/w)	SC	-
	Mepanipyrim	Frupica	0031218	440 g/l (40% w/w)	SC	-
	Cyprodinil + Fludioxonil	Switch	CHE91028	37.5% w/w 25% w/w	WG	-
	Bupirimate	Nimrod		250 g/l (26.8% w/w)	EC	-
	Boscalid + Pyraclostrobin	Signum	12000743	267g/kg 67g/kg	WG	-
	Cyprodinil + Fludioxonil	Switch	CHE91028	37.5% w/w 25% w/w	WG	-
AHDB 9914	Fluopyram + trifloxystrobin	Confidential				-
AHDB 9926	Isofetamid	Confidential	Confidential			
	Cos-oga	Fytosave	190124	12.5 g/l	SC	-
	Cerevisane	Romeo	AC18Q00310	941 g/kg	WP	-
	Cos-oga	Fytosave	190124	12.5 g/l	SC	-
	Bacillus pumilus (QST 2808)	Sonata	LJEL001386+1, 0	1016.1 g/l	SC	-
	Cerevisane	Romeo	AC18Q00310	941 g/kg	WP	-
	Bacillus pumilus (QST 2808)	Sonata	LJEL001386+1, 0	1016.1 g/l	SC	-
	Cos-oga	Fytosave	190124	12.5 g/l	SC	-
	Ampelomyces quisquails strain AQ10	AQ10	3219668	58% w/w	WG	Activator 90
	Cerevisane	Romeo	AC18Q00310	941 g/kg	WP	-
	Ampelomyces quisquails strain AQ10	AQ10	3219668	58% w/w	WG	Activator 90

<sup>\*</sup>Batch code for Nimrod missing.

**Application schedule** 

	Scriedule			
	Treatment: product		Rate of product (I	Application
number	name or AHDB	(ml or g a.s./ha)	or kg/ha)	code
	code			
1	Untreated Control	-	-	-
2	Amistar	250 g a.s./ha	1.0 l/ha	Α
	Frupica	352 g a.s./ha	0.9 l/ha	D
	Switch	300 g a.s./ha 200 g a.s./ha	0.8 kg/ha	F
	Nimrod	250 g a.s./ha	1.0 l/ha	H
	Signum	360.5 g a.s./ha 90.5 g a.s./ha	1.35 kg/ha	J
	Switch	300 g a.s./ha 200 g a.s./ha	0.8 kg/ha	L
3	AHDB 9914			A, D
4	AHDB 9926			A, C
5	Fytosave	38 g a.s/ha	3.04 l/ha	A, B, D
6	Romeo	705.8 g a.s/ha	0.75 kg/ha	A, B, D
7	Fytosave	38 g a.s/ha	3.04 l/ha	A, B, D
	Sonata	10161 g a.s/ha	10 l/ha	E-L
8	Romeo	705.8 g a.s/ha	0.75 kg/ha	A, B, D
	Sonata	10161 g a.s/ha	10 l/ha	E-L
9	Fytosave	38 g a.s/ha	3.04 l/ha	A, B, D

	AQ10 + Activator 90	0.0406 g a.s/ha	0.07 kg/ha + 0.05%	E-L
10	Romeo	705.8 g a.s/ha	0.75 kg/ha	A, B, D
	AQ10 + Activator 90	0.0406 g a.s/ha	0.07 kg/ha + 0.05%	E-L

**Application details** 

Application details				
	Application A	Application B	Application C	Application D
Application date	18.05.21	25.05.21	28.05.21	02.06.21
Time of day	13:30 – 15:40	9:10 - 9:45	8:45 – 9:00	14:30 – 15:00
Crop growth stage (Max, min average BBCH)	36 -39	36 - 39	36 - 39	36 - 39
Crop height (cm)	45 – 50			50 - 60
Crop coverage (%)	N/A	N/A	N/A	N/A
Application Method	Spray	Spray	Spray	Spray
Application Placement	Foliar	Foliar	Foliar	Foliar
Application equipment	AZ01 AZ02	AZ01	AZ02	AZ01 AZ02
Nozzle pressure	2.5 bar	4.5 bar	4 bar	4 bar
Nozzle type	Flat Fan	Flat Fan	Flat Fan	Flat Fan
Nozzle size	F110-03	F110-04	F110-04	F110-04
Application water volume/ha	500 l/ha	500 l/ha	500 l/ha	500 l/ha
Temperature of air - shade (°C)	16	11	12	21
Relative humidity (%)			83	57
Wind speed range (m/s)	-	-	0.6	0.8
Dew presence (Y/N)	N	N	N	N
Cloud cover (%)	60	80	90	10
	I .	1	1	1

<sup>\*</sup>Recording of relative humidity was missed at A and B.
\*\*A, B, and I, due to unsuitable weather conditions were sprayed inside glasshouse M18. Therefore, windspeed was not recorded.

	Application E	Application F	Application G	Application H
Application date	09.06.21	16.06.21	23.06.21	30.06.21
Time of day	11:00 – 11:30	12:00 – 12:45	11:30 – 12:10	11:05 – 11:45
Crop growth stage (Max, min average BBCH)	36 - 39	36 -39	39 -51 (5-10% 51)	39 - 51
Crop height (cm)	50 - 65			60 - 65
Crop coverage (%)	N/A	N/A	N/A	N/A
Application Method	Spray	Spray	Spray	Spray
Application Placement	Foliar	Foliar	Foliar	Foliar
Application equipment	AZ01	AZ01 STC1	AZ01	AZ01 AZ02
Nozzle pressure	4.5 bar	4.5 bar	4.5 bar	4.5
Nozzle type	Flat Fan	Flat Fan	Flat Fan	Flat Fan
Nozzle size	F110-04	F110-04	F110-04	F110-04
Application water volume/ha	500 l/ha	500 l/ha	500 l/ha	500 l/ha
Temperature of air - shade (°C)	22	24	19	15
Relative humidity (%)	50	30	58	65
Wind speed range (m/s)	0.5	1.2	0.5	0.8
Dew presence (Y/N)	N	N	N	N
Cloud cover (%)	10	5	5	100

	Application I	Application J	Application K	Application L
Application date	07.07.21	14.07.21	21.07.21	28.07.21
Time of day	10:30 – 11:00	11:30 -12:00	8:30 - 9:00	10:00 – 10:30
Crop growth stage (Max, min average BBCH)	36 -61	36 – 61 (10% 61)	39 - 61	39 - 62
Crop height (cm)	60 - 70	60 - 70	60 -70	65 - 75
Crop coverage (%)	N/A	N/A	N/A	N/A
Application Method	Spray	Spray	Spray	Spray
Application Placement	Foliar	Foliar	Foliar	Foliar
Application equipment	AZ01	AZ01 STC1	AZ01	AZ01 STC1
Nozzle pressure	4.6 bar	4.5 bar	4.5 bar	4 bar
Nozzle type	Flat Fan	Flat Fan	Flat Fan	Flat Fan
Nozzle size	F110-04	F110-04	F110-04	F110-04
Application water volume/ha	500 l/ha	500 l/ha	500 l/ha	500 l/ha
Temperature of air - shade (°C)	17	21	20	16
Relative humidity (%)	78	66	75	79
Wind speed range (m/s)	-	1.1	0	1
Dew presence (Y/N)	N	N	N	N
Cloud cover (%)	90	30	100	90

Untreated levels of pathogens at application and through the assessment period

Common name	Scientific Name	EPPO Code	Infestation level pre- application	Infestation level at start of assessment period	Infestation level at end of assessment period
Powdery Mildew	Erysiphe Ionicerae	MCRSLO	0	0	45.8*

<sup>\*</sup>Mean pest incidence of untreated plots at the final assessment (score of 4.8 converted to %)

#### Assessment details

	Evaluation Timi after application	<b>U</b>			
Evaluation date	After conventional fungicides	After Bio- fungicides	Crop Growth Stage (BBCH)	Evaluation type (efficacy, phytotoxicity)	Assessment
18.05.21	0	0	36-39	Pre-application disease levels	0-5 0-3
24.05.21	6	6	36-39	Efficacy & phytotoxicity	0-5 0-3
01.06.21	14	14	36-39	Efficacy & phytotoxicity	0-5 0-3
07.06.21	20	20	36-39	Efficacy & phytotoxicity	0-5 0-3
15.06.21	28	28	36-39	Efficacy & phytotoxicity	0-5 0-3
22.06.21	35	35	39-51	Efficacy & phytotoxicity	0-5 0-3
29.06.21	42	42	39-51	Efficacy & phytotoxicity	0-5 0-3
06.07.21	49	49	39-61	Efficacy & phytotoxicity	0-5 0-3
13.07.21	56	56	39-61	Efficacy & phytotoxicity	0-5 0-3
20.07.21	63	63	39-61	Efficacy & phytotoxicity	0-5 0-3
27.07.21	70	70	39-62	Efficacy & phytotoxicity	0-5 0-3
03.08.21	77	77	39-62	Efficacy & phytotoxicity	0-5 0-3
10.08.21	84	84	39-62	Efficacy & phytotoxicity	0-5 0-3

<sup>\*</sup> DA – days after application

Prior to the first application (A) an initial assessment of disease was carried out. Following this, evaluations repeated every 7 days (+/- 1 day) until two weeks after the final application (L). At each assessment disease severity was assessed using a 0-5 scale (see below), across 4 levels (bottom,

middle, top, stem) on each of the 12 plants per plot. A total plot score of 0-5 (see below) was given for disease incidence. Phytotoxicity was also recorded at each evaluation using a 0-3 scale (see below).

#### **Powdery Mildew Disease Severity**

- 0 = No Mildew present
- 1 = Slight infection, affecting 1-4% of leaf area
- 2 = Slight to moderate infection, affecting 5-9% of leaf area
- 3 = Moderate infection, affecting 10-24% of leaf area
- 4 = Moderate to severe infection, affecting 25-49% of leaf area
- 5 = Severe infection, affecting >50% of leaf area

#### **Powdery Mildew Disease Incidence**

- 0 = 0% of the plot infected
- 1 = 1-4 % of the plot infected
- 2 = 5-9% of the plot infected
- 3 = 10 24% of the plot infected
- 4 = 25-49% of the plot infected
- 5= >50% of the plot infected

#### **Phytotoxicity**

- 0 = None
- 1 = 1-10 lesions over the whole plant, very slight stunting, or malformation of leaves
- 2 = Whole plants showing severe symptoms of bleaching, scorch, stunting or dead plant

#### Statistical analysis

Data were analysed by analysis of variance (anova) using terms for treatments and blocks (reps). Analysis was based on the observed scores (0-5 values), without attempting to relate this to the percentage affected. For disease severity, the 12 values for each plot were averaged prior to analysis.

For comparisons between each treatment and the untreated control a Dunnett's test was used. Residuals from the analysis of variance were checked graphically for non-normality, heteroscedasticity, and spatial correlation. There was a degree of non-normality of the residuals, but this was largely due to the number of zero values and would not be improved by transformation. As a further check a non-parametric Friedman's test was also performed on each variable. All analyses were carried out in Genstat<sup>1</sup> (21st Edition).

There are no very strong spatial patterns in this dataset. Differences between blocks (reps) were only significant for a minority of the variables.

#### **Results**

Results are described in both terms crop safety, phytotoxicity and product efficacy, disease severity and incidence. In summary all treatments 2 through 10 were significantly different to the untreated control in both terms of mean severity and incidence from the 15.06.21, one week from the first appearance of disease. Treatments 4,5 and 6 were significantly different to all other treatments in the final assessments, from the 27.07.21 to 10.08.21. No treatments caused any phytotoxic effects on the crop.

#### **Phytotoxicity**

No evidence of phytotoxicity was observed during the course of the trial.

#### **Efficacy**

Disease was first seen at low levels in the untreated plots on the 07.06.21 for ease of reporting assessments before this date have been omitted from the following tables, although they were considered when analysing the data. In the following tables blank values indicate no tests were possible as all scores were 0. Table 1 and 3 illustrate the results of a Friedman's test. Tables 2 and 4 show results from a Dunnett's test. Results from the tables can be seen more visually in figures 1 – 4.

**Table 1: Disease Severity, treatment differences from analysis of variance and Friedman's test.** Overall F tests have 9 and 45 d.f. 'P UTC v rest' is the P-value for comparing treatment 1 with the other 9 treatments. 'P other' is testing for significant differences between treatments 2-10. p<0.05 significant p<0.001 highly significant.

		anova				Friedman
Variable	Date	F	Р	P UTC v	P other	Р
	Date	•	F	rest	r other	F
Bottom						
Middle		1	0.454	0.004	1	0.437
Тор	07.06.21	1	0.454	0.004	1	0.437
Stem		1	0.454	0.74	0.374	0.437
Mean		0.92	0.516	0.009	0.999	0.534
	r	T		1	T = =	
Bottom		1.88	0.08	0.001	0.878	0.098
Middle		3.47	0.003	<0.001	0.981	0.006
Тор	15.06.21	1	0.454	0.004	1	0.437
Stem		1	0.454	0.74	0.374	0.437
Mean		4.91	<0.001	<0.001	0.848	<0.001
	T	1		T =	T	
Bottom		1.62	0.139	0.004	0.737	0.154
Middle		2.91	0.008	<0.001	0.978	0.114
Тор	22.06.21	1	0.454	0.004	1	0.437
Stem		1	0.454	0.74	0.374	0.437
Mean		4.60	<0.001	<0.001	0.918	0.002
	Τ					1.000
Bottom		2.86	0.009	<0.001	0.942	0.02
Middle		5.71	<0.001	<0.001	0.987	0.001
Тор	29.06.21	2.5	0.021	<0.001	1	0.035
Stem		1	0.454	0.74	0.374	0.437
Mean		7.88	<0.001	<0.001	0.989	<0.001
Bottom		1.96	0.067	<0.001	0.997	0.072
Middle		6.77	<0.001	<0.001	1	0.003
Тор	06.07.21	1.69	0.119	0.001	0.907	0.135
Stem		1	0.454	0.74	0.374	0.437
Mean		6.61	<0.001	<0.001	1.000	0.001
D . #			0.044	10.004	10000	0.070
Bottom		2.8	0.011	<0.001	0.998	0.072
Middle	40.07.04	8.13	<0.001	<0.001	1	0.007
Тор	13.07.21	1.94	0.07	0.002	0.573	0.029
Stem		1	0.454	0.74	0.374	0.437
Mean		7.37	<0.001	<0.001	0.999	0.003
Dotton		4.40	ZO 004	<0.004	0.000	0.002
Bottom		4.42	<0.001	<0.001	0.989	0.003
Middle	20.07.04	11.09	<0.001	<0.001	0.981	<0.001
Top	20.07.21	1.63	0.136	0.002	0.864	0.243
Stem		1.88	0.08	0.001	0.878	0.098
Mean		8.98	<0.001	<0.001	0.990	0.001
Dottors		15.50	ZO 004	ZO 004	0.547	<0.004
Bottom		15.53	<0.001	<0.001	0.547	<0.001
Middle	27 07 24	18.17	<0.001	<0.001	<0.001	<0.001
Top	27.07.21	3.49	0.002	0.001	0.03	0.002
Stem		1.82	0.09	0.001	0.928	0.112
Mean		16.14	<0.001	<0.001	<0.001	<0.001
Dottors		7.04	ZO 004	ZO 004	0.047	<0.001
Bottom	03.08.21	7.21	<0.001	<0.001	0.917	<0.001
Middle		26.82	<0.001	<0.001	<0.001	<0.001

		anova	anova							
Variable	Date	F	Р	P UTC v rest	P other	Р				
Тор		9.33	<0.001	<0.001	<0.001	<0.001				
Stem		2.76	0.012	<0.001	0.47	0.042				
Mean		20.79	<0.001	<0.001	<0.001	<0.001				
Bottom		25.2	<0.001	<0.001	<0.001	<0.001				
Middle		58.27	<0.001	<0.001	<0.001	<0.001				
Тор	10.08.21	34.19	<0.001	<0.001	<0.001	<0.001				
Stem		8.37	<0.001	<0.001	<0.001	<0.001				
Mean		44.66	<0.001	<0.001	<0.001	<0.001				

Table 2: Powdery Mildew Disease Severity: treatment means of Powdery Mildew severity (0-5 scale) for each plant level at each assessment date. The overall mean at each date is also presented. Upper and Lower refer to 95% critical values for control using the Dunnett's test. Any values which do not lie between these values is significantly different to the control. This is indicated by shading.

Variable	Date	Trt 1	Lower	Upper	Trt 2	Trt 3	Trt 4	Trt 5	Trt 6	Trt 7	Trt 8	Trt 9	Trt 10
Bottom		0			0	0	0	0	0	0	0	0	0
Middle		0.028	-0.007	0.063	0	0	0	0	0	0	0	0	0
Тор	07.06.21	0.014	-0.003	0.031	0	0	0	0	0	0	0	0	0
Stem		0	-0.017	0.017	0	0	0	0	0	0	0	0.014	0
Mean		0.010	-0.003	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000
Bottom		0.028	0.001	0.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014
Middle		0.056	0.018	0.093	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014
Тор	15.06.21	0.014	-0.003	0.031	0	0	0	0	0	0	0	0	0
Stem		0	-0.017	0.017	0	0	0	0	0	0	0	0.014	0
Mean		0.024	0.011	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.007
Bottom		0.028	-0.002	0.058	0	0.014	0	0	0	0	0	0	0.014
Middle		0.083	0.026	0.141	0.000	0.000	0.014	0.014	0.000	0.014	0.000	0.014	0.014
Тор	22.06.21	0.014	-0.003	0.031	0	0	0	0	0	0	0	0	0
Stem		0	-0.017	0.017	0	0	0	0	0	0	0	0.014	0
Mean		0.031	0.014	0.048	0.000	0.003	0.003	0.003	0.000	0.003	0.000	0.007	0.007
Bottom		0.056	0.014	0.097	0.000	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.014
Middle		0.167	0.083	0.251	0.000	0.000	0.014	0.014	0.000	0.028	0.000	0.014	0.014
Тор	29.06.21	0.028	0.006	0.05	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Stem		0	-0.017	0.017	0	0	0	0	0	0	0	0.014	0
Mean		0.062	0.036	0.089	0.000	0.003	0.003	0.003	0.000	0.007	0.000	0.007	0.007
Bottom		0.083	0.011	0.156	0.000	0.014	0.000	0.000	0.014	0.000	0.000	0.000	0.014
Middle		0.319	0.171	0.468	0.000	0.000	0.014	0.014	0.028	0.028	0.000	0.014	0.014
Тор	06.07.21	0.028	-0.001	0.056	0.014	0	0	0	0	0	0	0	0
Stem		0	-0.017	0.017	0	0	0	0	0	0	0	0.014	0
Mean		0.108	0.057	0.158	0.003	0.003	0.003	0.003	0.010	0.007	0.000	0.007	0.007
Bottom		0.111	0.03	0.192	0.000	0.014	0.000	0.000	0.014	0.000	0.000	0.000	0.014
Middle		0.444	0.256	0.633	0.000	0.000	0.014	0.028	0.042	0.028	0.014	0.014	0.014
Тор	13.07.21	0.042	-0.001	0.084	0.014	0	0	0	0.028	0	0	0	0
Stem		0	-0.017	0.017	0	0	0	0	0	0	0	0.014	0
Mean		0.149	0.083	0.215	0.003	0.003	0.003	0.007	0.021	0.007	0.003	0.007	0.007
Bottom	20.07.04	0.153	0.064	0.242	0.000	0.014	0.000	0.000	0.028	0.000	0.000	0.000	0.014
Middle	20.07.21	0.611	0.389	0.834	0.000	0.000	0.014	0.083	0.056	0.028	0.014	0.014	0.014

Variable	Date	Trt 1	Lower	Upper	Trt 2	Trt 3	Trt 4	Trt 5	Trt 6	Trt 7	Trt 8	Trt 9	Trt 10
Тор		0.083	0.004	0.163	0.014	0.000	0.014	0.014	0.042	0.000	0.014	0.000	0.028
Stem		0.028	0.001	0.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.000
Mean		0.219	0.131	0.306	0.003	0.003	0.007	0.024	0.031	0.007	0.007	0.007	0.014
Bottom		0.347	0.241	0.454	0.000	0.014	0.042	0.042	0.069	0.000	0.000	0.000	0.014
Middle		1.625	1.119	2.131	0.000	0.000	0.403	0.528	0.972	0.056	0.069	0.028	0.014
Тор	27.07.21	0.264	0.057	0.471	0.014	0.042	0.111	0.222	0.181	0.000	0.014	0.028	0.028
Stem		0.042	0.002	0.081	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.014	0.000
Mean		0.569	0.387	0.752	0.003	0.014	0.139	0.201	0.306	0.014	0.021	0.017	0.014
													_
Bottom		0.611	0.335	0.887	0.000	0.014	0.042	0.083	0.125	0.014	0.000	0.000	0.014
Middle		2.528	1.842	3.214	0.000	0.000	0.875	1.139	1.819	0.125	0.194	0.028	0.042
Тор	03.08.21	0.583	0.289	0.877	0.014	0.042	0.417	0.486	0.319	0.042	0.028	0.028	0.028
Stem		0.139	0.037	0.241	0.000	0.000	0.056	0.069	0.028	0.000	0.042	0.014	0.028
Mean		0.965	0.682	1.249	0.003	0.014	0.347	0.444	0.573	0.045	0.066	0.017	0.028
													_
Bottom		2.319	1.672	2.967	0.000	0.014	0.681	1.042	1.528	0.014	0.028	0.000	0.028
Middle		3.889	3.105	4.673	0.000	0.042	2.333	2.542	3.278	0.236	0.694	0.222	0.097
Тор	10.08.21	2.5	1.866	3.134	0.014	0.083	1.583	1.556	1.958	0.208	0.458	0.125	0.111
Stem		0.625	0.32	0.93	0.000	0.000	0.333	0.472	0.444	0.083	0.153	0.056	0.111
Mean		2.333	1.820	2.846	0.003	0.035	1.233	1.403	1.802	0.135	0.333	0.101	0.087
	antly differe					5)							
Significant	y different f	rom the ι	ıntreated	control (p	<0.05)								

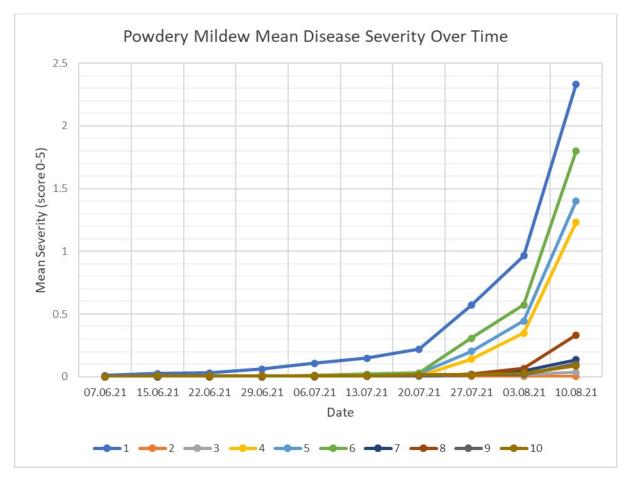


Figure 1: Graph showing mean disease severity for each treatment (1-10) over time. From each assessment following the presence of disease (07.06.21) to the final assessment (10.08.21)

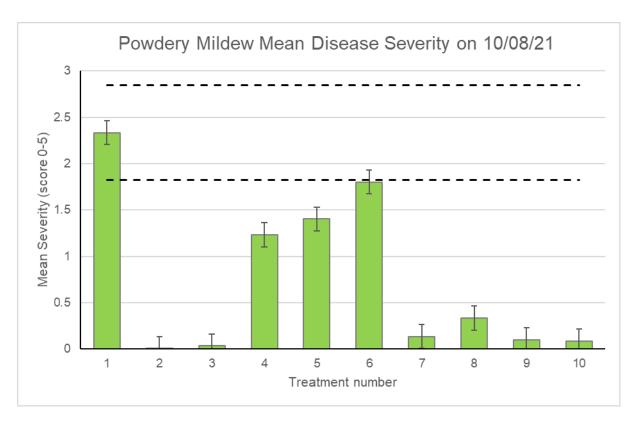


Figure 2: Graph showing mean disease severity against treatment (1-10) at the final assessment (10.08.21) Horizontal dashed lines indicate 95% critical values for Dunnet's test. Any mean for treatments 2-10 that does not lie between the two horizontal lines is significantly different to the control at P<0.05.

**Table 3: Disease Incidence, treatment differences from analysis of variance and Friedman's test.** Overall F tests have 9 and 45 d.f. 'P UTC v rest' is the P-value for comparing treatment 1 with the other 9 treatments, whilst 'P other' is testing for significant differences between treatments 2-10. p<0.05 significant p<0.001 highly significant.

Date	anova	Friedman			
Date	F	Р	P UTC v rest	P other	Р
07.06.21	0.87	0.559	0.069	0.817	0.534
15.06.21	8.31	<0.001	<0.001	0.725	<0.001
22.06.21	3.62	0.002	<0.001	0.896	0.007
29.06.21	6.05	<0.001	<0.001	0.854	0.001
06.07.21	5.48	<0.001	<0.001	0.973	0.004
13.07.21	5.81	<0.001	<0.001	0.933	0.006
20.07.21	8.67	<0.001	<0.001	0.641	0.002
27.07.21	20.82	<0.001	<0.001	<0.001	<0.001
03.08.21	20.31	<0.001	<0.001	<0.001	<0.001
10.08.21	48.16	<0.001	<0.001	<0.001	<0.001

**Table 4: Disease incidence means for each treatment for each variable.** Upper and Lower refer to 95% critical values for control using the Dunnett's test. Any values which do not lie between these values is significantly different to the control. This is indicated by shading.

Date	Trt 1	Lower	Upper	Trt 2	Trt 3	Trt 4	Trt 5	Trt 6	Trt 7	Trt 8	Trt 9	Trt 10
07.06.21	0.167	-0.131	0.465	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.167	0.000
15.06.21	0.833	0.475	1.192	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.167	0.167
22.06.21	0.833	0.331	1.336	0.000	0.167	0.167	0.167	0.000	0.167	0.000	0.167	0.167
29.06.21	1.000	0.531	1.469	0.000	0.167	0.167	0.167	0.000	0.167	0.000	0.167	0.167
06.07.21	1.333	0.696	1.971	0.167	0.167	0.167	0.167	0.333	0.167	0.000	0.167	0.167

Date	Trt 1	Lower	Upper	Trt 2	Trt 3	Trt 4	Trt 5	Trt 6	Trt 7	Trt 8	Trt 9	Trt 10
13.07.21	1.667	0.895	2.438	0.167	0.167	0.167	0.333	0.500	0.167	0.167	0.167	0.167
20.07.21	2.167	1.339	2.994	0.167	0.167	0.333	0.667	0.500	0.167	0.333	0.167	0.167
27.07.21	3.167	2.270	4.064	0.167	0.500	1.333	1.500	2.167	0.167	0.333	0.333	0.167
03.08.21	3.667	2.601	4.733	0.167	0.500	2.167	2.000	2.833	0.667	0.833	0.333	0.500
10.08.21	4.833	3.922	5.745	0.167	0.500	3.000	3.000	3.833	1.000	1.167	0.833	1.000
Not signif	icantly	differer	nt from t	the untre	eated co	ntrol (p	>0.05)					
Significar	tly diffe	erent fro	m the i	untreate	d contro	ol (p<0.0	)5)					

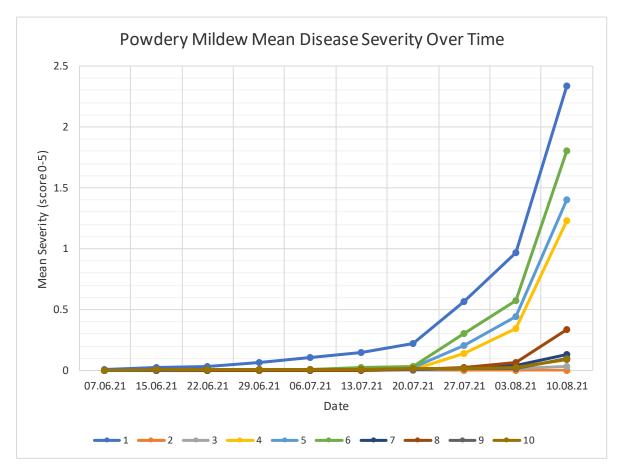


Figure 3: Graph showing mean disease severity for each treatment (1-10) over time. From each assessment following the presence of disease (07.06.21) to the final assessment (10.08.21)

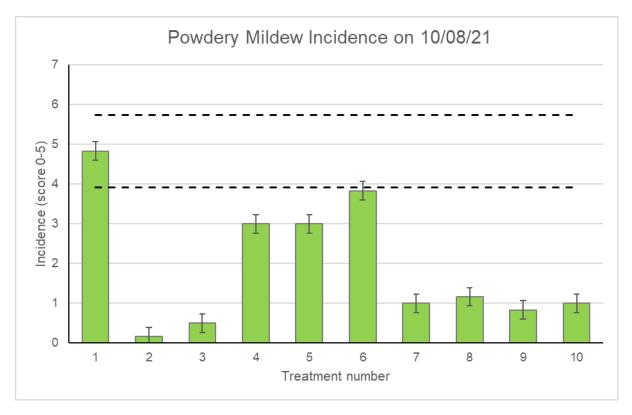


Figure 4: Graph showing disease incidence against treatment (1-10) at the final assessment (10.08.21). Horizontal dashed lines indicate 95% critical values for Dunnet's test. Any mean for treatments 2-10 that does not lie between the two horizontal lines is significantly different to the control at P<0.05.

#### **Discussion**

Disease establishment was slow at the beginning of the trial, with very low levels of disease recorded in the untreated plots from the 07.06.21. Disease continued to steadily increase in the following weeks until the 20.07.21 from which point disease rapidly spreads. At the final assessment all the untreated plots (treatment 1) were heavily infected with plots: 207, 308, 403, 505 and 605 all showing >50% infection across the total plot.

For ease of reporting and understanding it is fair to look at the mean severity scores and total plot disease incidence. Looking at the mean severity and incidence, all treatments were highly significant (p<0.001) from the untreated (treatment 1) from the second assessment following disease establishment (15.06.21). This is strong evidence that all treatments are effective in controlling Powdery Mildew in ornamental crops.

Treatments 2 through 10 are not significantly different from one another for the first 10 assessments (18.05.21 – 20.07.21). However, from the 27.07.21, treatments 4, 5 and 6 are highly significant (p<0.001) from treatments 2,3,7- 10. Although significantly different to the untreated, the control provided by treatments 4,5 and 6 is less effective long term. This poses the question that if the trial had run for a longer period of time whether or not these treatments would have remained significantly different to the untreated.

Treatments 5 (Fytosave) and 6 (Romeo) were both biological controls - plant elicitors. Our results suggest that these acting on their own may not provide long term protection from Powdery Mildew. In this trial treatments 5 and 6 were only applied 3 times until disease was seen. This was done to assess if there was any added benefit of following the elicitors with a different mode of action biopesticide. Comparing treatments 5 and 6 to treatments 7-10 we can see a clear benefit of using a combined approach. The addition of a different acting biopesticide increases the effectiveness of control by maintaining disease levels at a similar level to the conventional fungicide control. Romeo can be applied up to 8-10 times per annum depending on the crop and Fytosave 8 times per annum for ornamentals. It may be that further applications, with larger intervals (14 days between applications) may be a better approach when using plant elicitors individually.

Treatment 4, AHDB 9926 has a maximum of 2 applications per annum as per the product label. Whilst still significant to the untreated and providing good control for 4 weeks after application. Disease incidence and severity begins to climb following this point. From this we can infer that AHDB 9926 acting alone may not be sufficient control for growers but provides an additional fungicide option within a rotating spray programme.

#### **Conclusions**

In conclusion all treatments 2-10 provided effective and significant control against Powdery Mildew in the host honeysuckle compared to the untreated control (treatment 1). The two fungicides, AHDB 9926 and AHDB 9914 (treatments 3 and 4) which were used also showed promise as alternative fungicides to treat Powdery Mildew in ornamentals. Whilst all significantly different to the untreated, treatments 4,5 and 6 were significantly different to all other treatments with decreasing effectiveness and increasing disease severity and incidence as the trial progressed. This report suggests that biological controls, when used in combination as a spray programme can significantly reduce disease and hold their own against commercial fungicide programmes. This trial has also identified two fungicides AHDB 9926 and AHDB 9914 which could provide ornamental growers another effective chemical fungicide. However, their use is limited due to two applications per annum and therefore should be considered as part of a spray programme rather than single reliant fungicides.

## **Acknowledgements**

We would like to thank AHDB and the participating crop protection companies for project funding. We would also like to thank Dr Roma L Gwynn and Dr Clarkson for their invaluable technical advice and guidance.

# **Appendix**

a. Crop diary

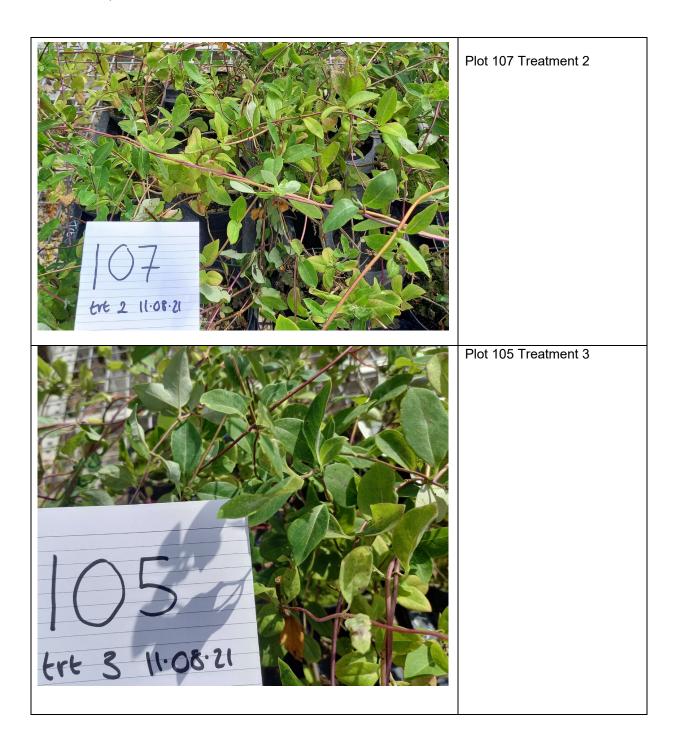
<u> </u>	·· J
Date	Action
07.07.21	Plugs collected from Johnsons of Whixley
09.07.21	Plugs potted into 1L pots and placed in MFU6
12.08.21	100 plugs placed on capillary matting and inoculated using naturally infected honeysuckle form the STC
	site.(These will become the infector plants)
17.03.21	Trial plants placed in F20 on capillary matting
29.03.21	Active mildew present on infector plants.
12.05.21	Plants pruned back
03.06.21	Feed Applied
17.06.21	Feed Applied
24.06.21	Feed Applied
13.07.21	Biocontrol Encarsia for whitefly added

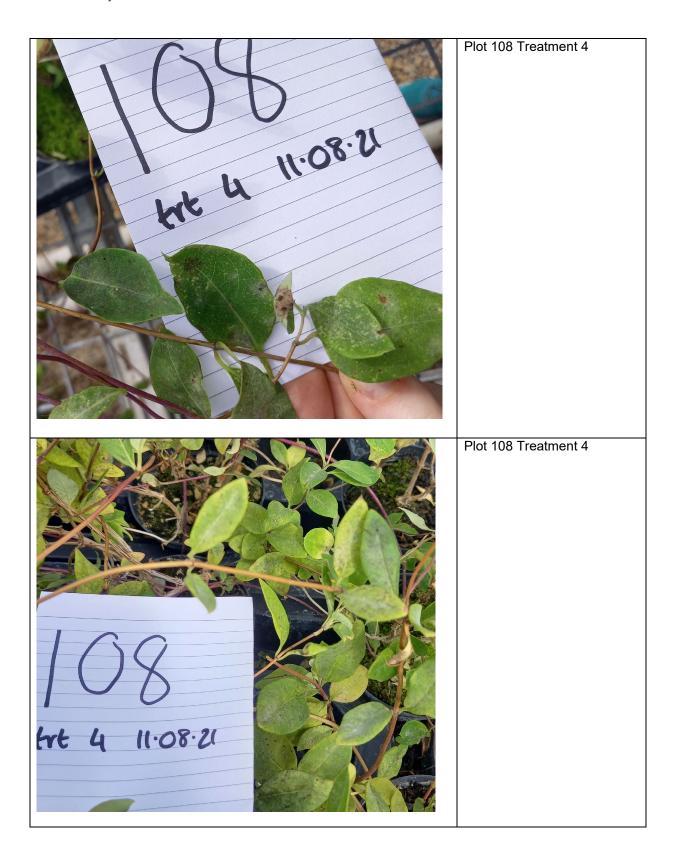
Trial diary

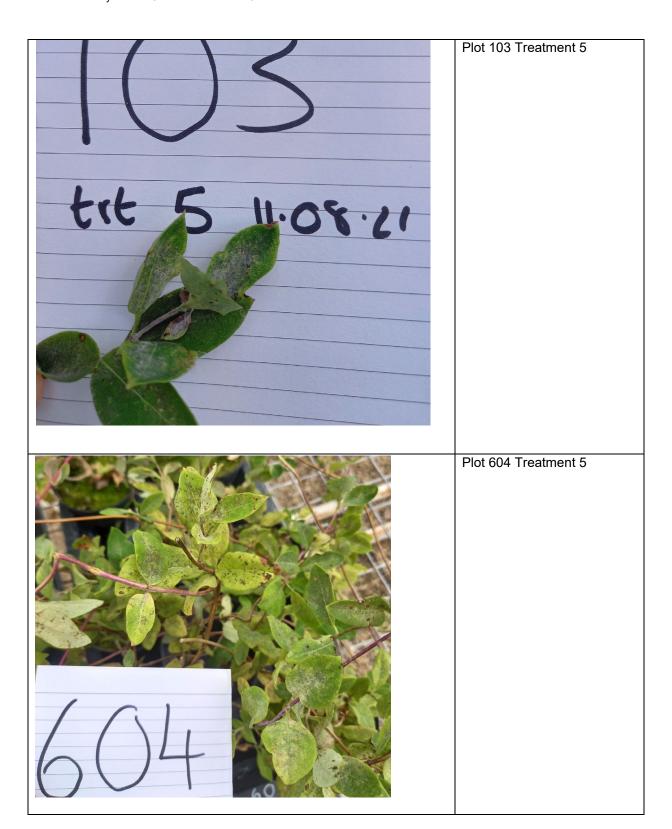
Thai uiai	. y
Date	Action
18.05.21	First evaluation and application A. Infector plants added to trial area
24.05.21	Second evaluation (incidence, severity, phytotoxicity)
25.05.21	Application B
27.05.21	Fan added to trail area.
28.05.21	Application C
01.06.21	Third evaluation (incidence, severity, phytotoxicity)
02.06.21	Application D
07.06.21	Fourth evaluation (incidence, severity, phytotoxicity)
09.06.21	Application E
15.06.21	Fifth evaluation (incidence, severity, phytotoxicity)
16.06.21	Application F
22.06.21	Sixth evaluation (incidence, severity, phytotoxicity)
23.06.21	Application G
29.06.21	Seventh evaluation (incidence, severity, phytotoxicity)
30.06.21	Application H
06.07.21	Eighth evaluation (incidence, severity, phytotoxicity)
07.07.21	Application I
13.07.21	Ninth evaluation (incidence, severity, phytotoxicity)
14.07.21	Application J
20.07.21	Tenth evaluation (incidence, severity, phytotoxicity)
21.07.21	Application K
27.07.21	Eleventh evaluation (incidence, severity, phytotoxicity)
28.07.21	Application L
03.08.21	Twelfth evaluation (incidence, severity, phytotoxicity)
10.08.21	Thirteenth evaluation (incidence, severity, phytotoxicity)

c. Photographs
Representative photographs of each treatment taken on the 11.08.21







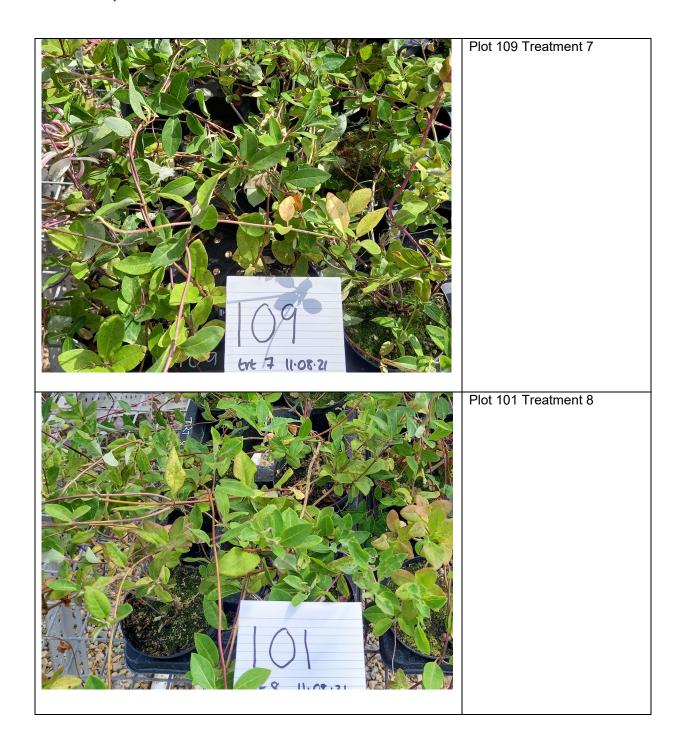




Plot 606 Treatment 6

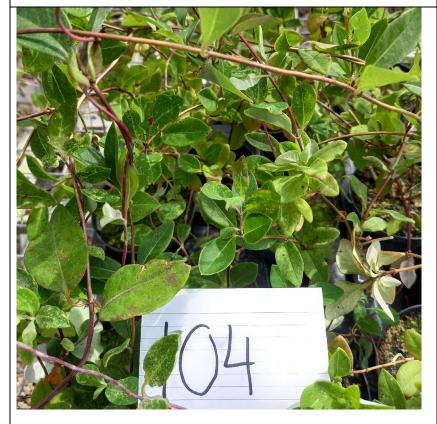


Plot 606 Treatment 6





Plot 106 Treatment 9



Plot 104 Treatment 10

d. Climatological data during study period

Date	Max Temp °C	Min Temp °C	Mean % RH	Mean J/cm²
17/03/2021	18.62	3.01	76.59	631.06
18/03/2021	17.8	3.08	77.85	530.95
19/03/2021	13.62	7.05	87.57	336.45
20/03/2021	20.26	6.12	78.95	578.55
21/03/2021	18.81	5.13	74.76	770.53
22/03/2021	19.44	0.8	71.88	866.48
23/03/2021	16.52	7.1	75.99	600.67
24/03/2021	18.57	6.01	72.69	692.43
25/03/2021	21.13	4.4	71.36	848.01
26/03/2021	16.52	5.76	73.96	674.30

Date	Max Temp °C	Min Temp °C	Mean % RH	Mean J/cm²
27/03/2021	17.08	3.3	70.35	661.68
28/03/2021	19.38	8	74.81	595.14
29/03/2021	24.12	10.56	69.16	748.32
30/03/2021	25.94	3.3	65.69	973.19
31/03/2021	26.74	9.26	66.14	991.46
01/04/2021	16.86	6.15	77.24	641.95
02/04/2021	18.68	4.92	71.04	585.40
03/04/2021	19.18	4.2	67.82	752.09
04/04/2021	20.57	0.2	66.43	1059.25
05/04/2021	17.4	3.22	53.93	1168.11
06/04/2021	17.08	0.2	60.76	1070.44
07/04/2021	16.88	-0.9	57.78	975.45
08/04/2021 09/04/2021	16.78 21.12	5.6 3.62	69.68 67.71	728.14 799.87
10/04/2021	18.36	1.8	74.3	821.88
11/04/2021	19.95	0.02	67.68	907.94
12/04/2021	20.58	-1.71	63.73	1119.70
13/04/2021	20.2	-1.8	67.45	1114.53
14/04/2021	17.08	0.72	68.33	1119.47
15/04/2021	19.24	-0.58	66.78	1226.25
16/04/2021	20	-0.2	68.19	1233.73
17/04/2021	20.52	0.6	66.54	1268.10
18/04/2021	21.91	0.7	66.98	1230.12
19/04/2021	23.15	0.8	73.47	1166.67
20/04/2021	24.47	2.2	71.48	1200.07
21/04/2021	16.78	4.13	74.987	877.68
22/04/2021	22.54 23.03	-0.8	67.86	1185.83
23/04/2021		3.7	69.08	1402.78
24/04/2021 25/04/2021	22.48 20.16	3.7	78.88 79.71	1251.74 1164.11
26/04/2021	20.76	1.4	76.22	1241.41
27/04/2021	14.69	6.2	82.11	830.94
28/04/2021	14.87	4	78.52	671.83
29/04/2021	16.53	2.51	82.83	890.61
30/04/2021	15.38	1.1	86.59	838.62
01/05/2021	15.73	3.3	83.68	876.26
02/05/2021	18.48	0.5	82.85	948.50
03/05/2021	13.32	5.39	90.96	642.28
04/05/2021	11.73	4.8	89.30	413.95
05/05/2021	18.26	2.1	81.82	920.81
06/05/2021	19.86	1.8	83.78	1196.68
07/05/2021	20.34	1.5	83.52 93.31	1171.42
08/05/2021 09/05/2021	17.45 26.25	3.4 12.2	93.31 87.21	628.53 604.14
10/05/2021	21.94	8.51	86.30	957.58
11/05/2021	19.68	6.51	89.18	1105.78
12/05/2021	19.77	6.02	89.62	910.20
13/05/2021	24.05	7.08	85.91	1104.92
14/05/2021	14.33	7.72	90.87	750.28
15/05/2021	14.82	7.5	94.11	413.71
16/05/2021	21.3	8.6	90.86	781.88
17/05/2021	21.97	7.8	91.65	793.97
18/05/2021	21.57	6.18	87.10	955.28
19/05/2021	21.89	5.81	88.31	1068.16
20/05/2021	12.83	4.3	94.77	637.01
21/05/2021	16.25	9.5	94.84	406.425
22/05/2021	15.56	5.53	90.95	523.56
23/05/2021	19.37 23.07	3.8	91.03 90.42	729.87
24/05/2021 25/05/2021	23.07	7.62	90.42	1042.56 851.07
26/05/2021	18.88	6.9	93.13	645.27
27/05/2021	25.98	7.99	89.96	1010.53
28/05/2021	22.99	9.4	90.96	868.42
29/05/2021	30.18	8.48	88.76	1210.72
30/05/2021	27.04	8.61	91.90	1254.51
31/05/2021	25.66	8.61	91.98	1271.18
01/06/2021	28.05	7.48	91.00	1522.42
02/06/2021	28.14	8.02	92.06	1603.41
03/06/2021	28.11	12	93.41	1041.82
04/06/2021	26.36	10.3	92.46	1215.27

Date	Max Temp °C	Min Temp °C	Mean % RH	Mean J/cm²
05/06/2021	30.59	8.4	92.85	1469.26
06/06/2021	27.04	13.14	95.50	973.97
07/06/2021	29.68	10.1	94.90	989.84
08/06/2021	30.9	8.98	93.78	1392.02
09/06/2021	33.08	10.79	94.69	1498.82
10/06/2021	27.45	14.11	96.07	977.04
11/06/2021	27.13	13.22	96.61	777.93
12/06/2021	27.75	10.38	96.00	1324.68
13/06/2021	29.96	10.09	96.44	1324.04
14/06/2021	24.33	12.12	97.20	1040.62
15/06/2021	29.11	8.18	96.49	1360.72
16/06/2021	34.14	12.4	96.94	1586.43
17/06/2021	28.15	15.19	98.59	1091.28
18/06/2021	20.42	12.6	98.71	708.78
19/06/2021	26.47	10.87	98.29	902.17
20/06/2021	22.58	10.52	98.21	890.58
21/06/2021	16.88	8	98.38	633.17
22/06/2021	24.35	7.2	98.57	1042.48
23/06/2021	25.9	6.69	98.33	1410.79
24/06/2021	27.48	12.8	98.48	1095.11
25/06/2021	19.13	11.53	99.22	584.39
26/06/2021	25.84 22.1	11.11	98.77 98.72	729.60
27/06/2021 28/06/2021	21.65	12.9 10.72	98.99	655.60 508.56
29/06/2021	28.37	10.72	98.61	1030.55
30/06/2021	21.18	11.48	98.98	838.43
01/07/2021	31.17	9	98.71	1147.07
02/07/2021	30.03	12.28	98.90	1178.63
03/07/2021	21.88	13.5	99.20	627.02
04/07/2021	28.22	12.9	99.06	877.29
05/07/2021	24.59	14.02	98.89	960.40
06/07/2021	23.36	13.27	98.81	901.18
07/07/2021	26.6	13.79	99.06	899.87
08/07/2021	29.28	13.18	99.44	1213.03
09/07/2021	30.12	12.23	99.79	1322.79
10/07/2021	25.86	14.92	99.75	718.67
11/07/2021	27.62	11.7	99.5	899.96
12/07/2021	20.85	15.13	99.71	528.55
13/07/2021	25.55	14.6	99.15	645.01
14/07/2021	30.64	13	99.58	1109.63
15/07/2021	27.7	13.62	99.48	1150.03
16/07/2021	32.7	11.59	99.35	1373.34
17/07/2021	37.25	14.01	99.28	1523.01
18/07/2021 19/07/2021	34.37 34.54	15.9 14 6	99.50 99.52	1508.54 1306.66
10/01/2021	35.89		00.02	1000.00
20/07/2021 21/07/2021	32.62	14.6 15.9	71.81 74.91	1335.69 1075.70
22/07/2021	36.13	14.12	69.11	1304.60
23/07/2021	22.3	14.69	79.52	840.60
24/07/2021	21.43	14.52	73.62	499.40
25/07/2021	29.97	12.47	69.31	843.38
26/07/2021	31.59	12.41	68.03	1156.50
27/07/2021	27.49	13.91	76.46	950.33
28/07/2021	26.22	12.77	82.30	782.31
29/07/2021	20.28	11.82	81.41	702.47
30/07/2021	16.73	11.9	91.19	393.61
31/07/2021	26.11	13.8	78.21	652.20
01/08/2021	22.68	13.25	74.08	767.57
02/08/2021	24.99	9.09	71.83	817.10
03/08/2021	28.97	8.91	68.14	1135.06
04/08/2021	28.19	9.9	82.67	1058.08
05/08/2021	26.27	12.5	80.91	935.98
06/08/2021	27.12	13.18	82.57	820.75
07/08/2021	22.93	11.8	76.81	786.45
08/08/2021	24.49 25.8	12.7	80.04	778.18
09/08/2021		10.2	72.76	908.04
10/08/2021	29.41	11.6	70.49	1125.74

#### e. Raw data from assessments

1	18 Pow	.05.21 dery Mi	ildew		P	Н	Powde	ry Mildew		70		Powd	lery Mildew		T		Powde	ery Milde	w		7	-	Powder	y Mildew		_	H	Powde	ry Mildew		,
		ese Sev	erity	Powdery Mildew Disease	Phytotoxicty	Н		e Severity	Powdery Mildew Disease	Phytotoxicty	П		se Severity	Powdery Mildew Disease	Phytotoxi	П		e Severit	y	Powdery Mildew Disease	Phytotoxicty			Severity	Powdery Mildew Disease	Phytotoxicty		Dises	e Severity	Powdery Mildew Disease	Phytotoxicty
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f. Trial design

f. Trial design		
Bench 1	Bench 2	Bench 3
Plot: 101	301	501
Trt: 8	3	10
102	302	502
1	7	2
103	303	503
5	9	7
104	304	504
10	6	4
105	305	505
3	8	1
106	306	506
9	4	6
107	307	507
2	10	8
108	308	508
4	1	3
109	309	509
7	5	9
110	310	510
6	2	5
201	401	601
4	7	3
202	402	602
2	10	7
203	403	603
6	1	9
204	404	604
3	8	5
205	405	605
7	5	1
206	406	606
10	2	6
207	407	607
1	4	8
208	408	608
9	6	2
209	409	609
5	9	4
210	410	610
8	3	10

## g. ORETO Certificate



# Official Recognition of Efficacy Testing Facilities or Organisations in Great Britain

# This certifies that

## Stockbridge Technology Centre Limited

complies with the minimum standards laid down in Regulation (EC) 1107/2009<sup>1</sup> for efficacy testing.

The above Facility/Organisation has been officially recognised as being competent to carry out efficacy trials/tests in Great Britain in the following categories:

# Agriculture/Horticulture Biologicals and Semiochemicals Stored Crops

Date of issue: 19 July 2021 Effective date: 1 April 2021 Expiry date: 31 March 2026

Hora

Date: 2021.07.19 14:59:55 Z HSE Digital Signature



**Certification Number** 

ORETO 435



<sup>1</sup> Regulation (EC) 1107/2009 as it has effect in Great Britain