

BSSI – Insecticide / Fungicide - Atlantic AgriTech 2024 Trial Summary

Planting / Emergence:

This trial was planted with Yukon Gem (whole) seed on May 13th, 2024. We applied in-furrow treatments Actara and Quadris. Treatments were as follows:

- Treatment 1: Control (no insecticide or fungicide applied in-furrow)
- Treatment 2: Grower Standard Practice (GSP)
 - o Actara 240SC 4.4 ml/100m row
 - o Quadris 6 ml/100m row
- Treatment 3: GSP50 (1 X GSP on 50% of the area banded approx.. 3 inches either side of the seed piece)
- Treatment 4: 15GSP (1.5 X GSP on 50% of the area banded approx.. 3 inches either side of the seed piece)

To replicate precise placement, we tested our hand-boom sprayer on a sheet of paper towel and calibrated ourselves to the correct walking speed to deliver the desired amount of product around the seed piece. As you can see in the image below, product placement was satisfactory.



Test strip of paper towel to replicate precise product placement by hand boom



Result of in-furrow treatments. Seed spacing was 13”.

After application in-furrow, Treatments 3 and 4 were rolled with Press Wheel supplied by BSSI.

Plants emerged on Jun 8th. We performed plant counts on Jun 10th and Jun 13th and found no differences in emergence among treatments. An image from Jun 17th is provided in the shared folder which shows emergence.

In-Season

We had heavy CPB pressure on the farm this year. We noticed adult CPB beginning to feed on control plots as soon as emergence began. We found egg masses in nearby trials on June 13th. We began CPB ratings on July 2nd and carried them out once per week until the end of July.

In terms of CPB defoliation, there were significant differences between Treatment 1 (Untreated Check without Actara) and all other treatments. We did not see differences between Treatment 2, 3 or 4. On July 15th, when plants were fully flowered, we flew the drone very low over the plots and used software to detect flower numbers in each plot. This gave us a more objective defoliation rating than doing so by eye. The untreated check had an average of 62.3 flowers per plot while Treatment 2 had 114.5, Treatment 3 had 107.0 and Treatment 4 had 107.5.

Even on the last rating timing, Jul 22nd, there were no statistical differences between Treatment 2/3/4 in terms of defoliation. NDVI from July 30th shows no difference between those treatments. An image in the shared folder from August 6th shows no noticeable difference in defoliation between treatments 2/3/4.



July 15th drone image of Rep 1

There were no statistically significant differences in Rhizoc Stem/Stolon infection between treatments. Infection levels were low overall at the time of this rating. Treatment 1 did have higher infection rates but differences were small.

Harvest Data

Yield data showed that CPB defoliation had a significant impact on yield with only 11.98 kg per plot (single row) on average found in the untreated check. Treatment 2 had 17.15 kg per plot, Treatment 3 had 19.98 kg per plot, and Treatment 4 had 19.93 kg per plot. There were no statistical differences in yield between these three treatments.

Rhizoc tuber ratings showed significant differences between Treatment 1 and the other 3 treatments. Although black scurf presence on harvested tubers was low throughout the trial, the untreated checks were statistically significantly different than Treatments 2-4.

Atlantic AgriTech Inc.

BSSI INS/FUNG Trial

Trial ID: POT2469 Protocol ID: Location: Trial Year: 2024 Study Director: Sponsor Contact: Investigator:									
Rating Date SE Description Rating Type Part Rated Rating Unit Number of Subsamples	Jul-9-2024	Jul-15-2024	Jul-30-2024	Jul-8-2024	Jul-15-2024	Jul-22-2024	Jul-22-2024	Jul-22-2024	Jul-22-2024
	NDVI	NDVI	NDVI	DEFOLI PLANT, -	DEFOLI PLANT, -	DEFOLI PLANT, -	COUINS INS1-2, -	COUINS INS3-4, -	COUINS ADULT, -
	1	1	1	1	1	1	5	5	5
Trt Treatment No. Name	5*	6*	7*	15*	19*	23*	20*	21*	22*
1 Untreated Check	0.7175 -	0.7860 -	0.7515 -	18.8 a	22.8 -	52.5 a	18.3 -	27.5 a	3.2 a
2 Grower Standard Practice Grower Standard Practice	0.7800 -	0.8230 -	0.8055 -	1.3 b	7.3 -	3.3 b	5.1 -	4.4 b	0.4 b
3 GSP 50% of area GSP 50% of area	0.7818 -	0.8300 -	0.8303 -	0.5 b	1.3 -	2.3 b	4.3 -	3.2 b	0.2 b
4 1.5 X GSP 50% of area 1.5X GSP 50% of area	0.7723 -	0.8258 -	0.8378 -	0.3 b	1.3 -	1.8 b	1.0 -	0.4 b	0.9 b
LSD P=.05	0.04710	0.03993	0.06705	2.39	17.57	8.41	13.98	8.74	1.67
Standard Deviation	0.02945	0.02496	0.04192	1.49	10.99	5.26	8.74	5.47	1.04
CV	3.86	3.06	5.2	28.78	135.21	35.22	122.2	61.68	90.74
Levene's F^	0.591	1.254	0.424	0.363	1.072	3.687*	3.377	1.375	0.971
Levene's Prob(F)	0.632	0.334	0.739	0.781	0.397	0.043*	0.054	0.298	0.438
Shapiro-Wilk^	0.9765	0.9252	0.8945	0.799*	0.9222	0.94	0.9616	0.9566	0.9298
P(Shapiro-Wilk)^	0.9294	0.2043	0.0656	0.0026*	0.1833	0.3493	0.6913	0.601	0.2416
Skewness^	-0.563	-1.0482	-1.2331	-1.42*	-0.2321	-0.5852	-0.3301	-0.1912	-1.0557
P(Skewness)^	0.3752	0.1094	0.0637	0.0359*	0.7115	0.3571	0.5999	0.7605	0.1071
Kurtosis^	0.5479	2.0788	2.8444*	3.5504*	2.5898*	1.2603	1.0821	1.9297	1.6965
P(Kurtosis)^	0.652	0.1012	0.0305*	0.0093*	0.046*	0.3066	0.3778	0.1259	0.1746
Replicate F	6.490	2.426	1.945	0.178	0.046	0.508	0.268	0.812	0.557
Replicate Prob(F)	0.0125	0.1327	0.1930	0.9089	0.9859	0.6864	0.8469	0.5186	0.6564
Treatment F	4.300	2.654	3.465	147.019	3.416	90.696	3.033	21.039	6.863
Treatment Prob(F)	0.0385	0.1121	0.0643	0.0001	0.0664	0.0001	0.0857	0.0002	0.0106

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means
 ^Calculated from residual.

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BSSI INS/FUNG Trial

Trial ID: POT2469
 Protocol ID: Location: Trial Year: 2024
 Study Director: Sponsor Contact:
 Investigator:

Rating Date	Jul-15-2024	Jul-12-2024	Jul-12-2024	Jul-12-2024	Jul-12-2024	Oct-1-2024
SE Description	FLOWER	Rhizoc Stolon %>	Rhizoc Stolon %>	Rhizoc Stem % I>	Rhizoc Stem % S>	Rhizoc Tuber ra>
Rating Type	NUMBER	INCID	INCID	INCID	INCID	
Part Rated		STOLON, -	STOLON, -	STEM, -	STEM, -	
Rating Unit		%	%	%	%	
Number of Subsamples	1	5	5	5	5	25
Trt Treatment No. Name	24*	25*	26*	27*	28*	29*
1 Untreated Check	62.3 b	35.5 -	7.3 -	5.0 -	1.0 -	1.3 a
2 Grower Standard Practice Grower Standard Practice	114.5 a	15.3 -	4.8 -	0.0 -	0.0 -	0.0 b
3 GSP 50% of area GSP 50% of area	107.0 a	19.5 -	6.5 -	0.0 -	0.0 -	0.2 b
4 1.5 X GSP 50% of area 1.5X GSP 50% of area	107.5 a	20.8 -	6.0 -	0.0 -	0.0 -	0.1 b
LSD P=.05	18.91	15.42	2.93	8.00	1.60	0.71
Standard Deviation	11.82	9.64	1.83	5.00	1.00	0.45
CV	12.09	42.38	29.93	400.0	400.0	112.9
Levene's F^	1.015	0.427	2.566	0.333	0.333	1.109
Levene's Prob(F)	0.42	0.738	0.103	0.802	0.802	0.384
Shapiro-Wilk^	0.95	0.9522	0.9521	0.7152*	0.7152*	0.9482
P(Shapiro-Wilk)^	0.4901	0.5248	0.5241	0.0002*	0.0002*	0.4615
Skewness^	0.1275	-0.3592	-0.2694	1.4754*	1.4754*	-0.5112
P(Skewness)^	0.8388	0.5684	0.6681	0.0301*	0.0301*	0.4196
Kurtosis^	0.3954	-0.8011	-0.9894	3.9194*	3.9194*	2.4035
P(Kurtosis)^	0.7444	0.5113	0.419	0.0049*	0.0049*	0.0618
Replicate F	1.490	1.524	0.223	1.000	1.000	1.466
Replicate Prob(F)	0.2822	0.2739	0.8779	0.4363	0.4363	0.2880
Treatment F	16.420	3.348	1.314	1.000	1.000	7.396
Treatment Prob(F)	0.0005	0.0694	0.3289	0.4363	0.4363	0.0084

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
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 * Adjusted means
 ^Calculated from residual.

Atlantic AgriTech Inc.

BSSI INS/FUNG Trial

Trial ID: POT2469
 Protocol ID: Location: Trial Year: 2024
 Study Director: Sponsor Contact:
 Investigator:

Rating Date	Sep-25-2024
SE Description	Marketable yiel>
Rating Type	WEIGHT
Part Rated	
Rating Unit	kg
Number of Subsamples	1
Trt Treatment No. Name	43*
1 Untreated Check	11.98 b
2 Grower Standard Practice Grower Standard Practice	17.15 a
3 GSP 50% of area GSP 50% of area	19.98 a
4 1.5 X GSP 50% of area 1.5X GSP 50% of area	19.93 a
LSD P=.05	3.652
Standard Deviation	2.283
CV	13.23
Levene's F^	1.181
Levene's Prob(F)	0.358
Shapiro-Wilk^	0.9638
P(Shapiro-Wilk)^	0.7301
Skewness^	-0.3299
P(Skewness)^	0.6001
Kurtosis^	-0.1893
P(Kurtosis)^	0.8758
Replicate F	1.503
Replicate Prob(F)	0.2791
Treatment F	10.853
Treatment Prob(F)	0.0024

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

^Calculated from residual.

Atlantic AgriTech Inc.**BSSI INS/FUNG Trial**

Trial ID: POT2469
Protocol ID: Location: Trial Year: 2024
Study Director: Sponsor Contact:
Investigator:

Rating Type

NDVI = normalized difference vegetation index
DEFOLI = defoliation
COUINS = count - insect
FLOWER = flowering /blooming
INCID = incidence
WEIGHT = weight

Part Rated

PLANT = plant
INS1-2 = instar 1-2
INS3-4 = instar 3-4
ADULT = adult
STOLON = stolon
STEM = stem

Rating Unit

NUMBER, , , = number
%, 0, 100, = percent
kg, , , = kilogram

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BSSI INS/FUNG Trial

Trial ID: POT2469
 Protocol ID: Location: Trial Year: 2024
 Study Director: Sponsor Contact:
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Rating Date	Jul-9-2024	Jul-15-2024	Jul-30-2024	Jul-8-2024	Jul-15-2024	Jul-22-2024	Jul-22-2024	Jul-22-2024	
SE Description	NDVI	NDVI	NDVI	DEFOLI PLANT, -	DEFOLI PLANT, -	DEFOLI PLANT, -	COUINS INS1-2, -	COUINS INS3-4, -	
Rating Type									
Part Rated									
Rating Unit									
Number of Subsamples	1	1	1	1	1	1	5	5	
Trt Treatment									
No. Name	Plot	5	6	7	15	19	23	20	21
1 Untreated Check	101	0.6610	0.7070	0.6250	20.0	35.0	60.0	34.0	28.0
	204	0.6700	0.7900	0.7680	20.0	25.0	60.0	26.0	40.0
	303	0.7490	0.8180	0.7910	15.0	1.0	50.0	13.0	27.0
	402	0.7900	0.8290	0.8220	20.0	30.0	40.0	0.0	15.0
	Mean =	0.7175	0.7860	0.7515	18.8	22.8	52.5	18.3	27.5
2 Grower Standard Practice	102	0.7590	0.8100	0.7880	1.0	1.0	2.0	1.0	0.0
Grower Standard Practice	201	0.7660	0.8260	0.7770	1.0	2.0	1.0	4.0	6.0
	304	0.7830	0.8210	0.8360	2.0	25.0	5.0	6.4	5.6
	403	0.8120	0.8350	0.8210	1.0	1.0	5.0	9.0	6.0
	Mean =	0.7800	0.8230	0.8055	1.3	7.3	3.3	5.1	4.4
3 GSP 50% of area	104	0.7330	0.8180	0.8240	0.0	2.0	3.0	5.0	3.0
GSP 50% of area	203	0.7510	0.8240	0.8140	0.0	1.0	2.0	1.0	2.0
	302	0.8100	0.8350	0.8410	1.0	1.0	1.0	2.0	3.6
	401	0.8330	0.8430	0.8420	1.0	1.0	3.0	9.0	4.0
	Mean =	0.7818	0.8300	0.8303	0.5	1.3	2.3	4.3	3.2
4 1.5 X GSP 50% of area	103	0.7370	0.8170	0.8410	0.0	1.0	2.0	0.0	0.4
1.5X GSP 50% of area	202	0.7710	0.8360	0.8280	0.0	1.0	1.0	0.0	0.2
	301	0.8270	0.8330	0.8290	1.0	2.0	2.0	3.0	1.0
	404	0.7540	0.8170	0.8530	0.0	1.0	2.0	1.0	0.0
	Mean =	0.7723	0.8258	0.8378	0.3	1.3	1.8	1.0	0.4

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BSSI INS/FUNG Trial

Trial ID: POT2469
 Protocol ID: Location: Trial Year: 2024
 Study Director: Sponsor Contact:
 Investigator:

Rating Date		Oct-1-2024	Sep-25-2024
SE Description		Rhizoc Tuber ra>	Marketable yiel>
Rating Type			WEIGHT
Part Rated			
Rating Unit			kg
Number of Subsamples		25	1
Trt Treatment			
No. Name	Plot	29	43
1 Untreated Check	101	0.0	10.30
	204	2.2	11.50
	303	1.7	11.40
	402	1.3	14.70
	Mean =	1.3	11.98
2 Grower Standard Practice	102	0.0	17.40
Grower Standard Practice	201	0.0	19.00
	304	0.1	14.00
	403	0.0	18.20
	Mean =	0.0	17.15
3 GSP 50% of area	104	0.0	18.80
GSP 50% of area	203	0.0	17.30
	302	0.3	22.30
	401	0.3	21.50
	Mean =	0.2	19.98
4 1.5 X GSP 50% of area	103	0.0	15.90
1.5X GSP 50% of area	202	0.0	19.40
	301	0.4	23.20
	404	0.0	21.20
	Mean =	0.1	19.93

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Part Rated

PLANT = plant
INS1-2 = instar 1-2
INS3-4 = instar 3-4
ADULT = adult
STOLON = stolon
STEM = stem

Rating Unit

NUMBER, , , = number
%, 0, 100, = percent
kg, , , = kilogram

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BSSI INS/FUNG Trial

Trial ID: POT2469
 Protocol ID: Location: Trial Year: 2024
 Study Director: Sponsor Contact:
 Investigator:

Status: E established
ARM Trial Created On: Apr-19-2024

Regulations
Conducted Under GLP: No
Conducted Under GEP: No

Crop Description
Crop 1: C SOLTU Solanum tuberosum Potato
Entry Date: Oct-29-2024 **Stage Scale:** BBCH
Variety: Yukon Gem
Planting Date: May-13-2024
Depth: 10 cm
Rows per Plot: 3 **Planting Method:** SEEDHA seeded by hand
Row Spacing: 91 cm **Planting Equipment:** HA by hand
Spacing within Row: 33 cm
Emergence Date: Jun-8-2024
Harvest Date: Sep-25-2024

Pest Description
Pest 1 Type: I **Code:** LPTNDE Leptinotarsa decemlineata **Entry Date:** Oct-29-2024
Common Name: Colorado beetle **Stage Scale:** DESC
Artificial Population: N no

Site and Design
Treated Plot Width: 3 m **Site Type:** FIELD field
Treated Plot Length: 6 m **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 18.0 m² **Tillage Type:** CONTIL conventional-till
Replications: 4 **Treatments:** 4 **Plots:** 16 **Study Design:** RACOB Randomized Complete Block (RCB)
Distance between Blocks: 1 m
Distance between 'Plot' Experimental Units: 0.5 m

Maintenance

No.	Date	Type	Maintenance Product Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Tank Mix (Yes/No)	Comment
1.	May-13-2024	FERT				GR	600	kg/ha		15-15-15-2S-2Mg banded before planting
2.	Jun-3-2024	HERB	SENCOR 75WG	75	%AW/W	WG	1500	g/ha	yes	
3.	Jun-3-2024	HERB	LOROX 50 DF	50	%AW/W	DF	2.5	L/ha	yes	
4.	Jul-1-2024	HERB	ARROW 120 EC	120	gA/L	EC	375	mL/ha	yes	
5.	Jul-1-2024	FUNG	PENNCOZEB DG 75 WG	75	%AW/W	WG	2.25	kg/ha	yes	
6.	Jul-8-2024	FUNG	BRAVO ZN 4.17 SC	500	gA/L	SC	2	L/ha	no	
7.	Jul-19-2024	FUNG	PENNCOZEB DG 75 WG	75	%AW/W	WG	2.25	kg/ha	no	
8.	Jul-30-2024	FUNG	PENNCOZEB DG 75 WG	75	%AW/W	WG	2.25	kg/ha	no	
9.	Aug-7-2024	FUNG	PENNCOZEB DG 75 WG	75	%AW/W	WG	2.25	kg/ha	yes	
10.	Aug-7-2024	HERB	REGLONE DESICCANT	240	gA/L	SL	2	L/ha	yes	

Field Prep./Maintenance:
 Field was prepared with one pass of Res-till implement on April 16, 2024

Soil Description
% OM: 2.8
pH: 6.3 **CEC:** 8

No.	Date	Moisture Total	Unit	Min Temp	Max Temp	Avg Temp	Temp Unit	Min % Relative Humidity	Max % Relative Humidity	Min Wind	Max Wind	Avg Wind	Unit
1.	May-2-2024	0	mm	2.246	7.258	3.851	C	90.5	100	0	6.9	3	MPS
2.	May-3-2024	0.4	mm	2.953	4.465	3.63	C	99.2	100	0.5	7.8	3.2	MPS
3.	May-4-2024	1.6	mm	2.555	4.067	3.309	C	100	100	0.6	8.9	3.6	MPS
4.	May-5-2024	0.2	mm	2.104	8.48	4.604	C	92.9	100	0	6.3	2.2	MPS
5.	May-6-2024	0	mm	1.455	9.59	5.726	C	84.5	96	0	7.4	1.9	MPS
6.	May-7-2024	1.8	mm	5.493	14.05	9.22	C	88.4	97.5	1.5	10.5	4.9	MPS

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7.	May-8-2024	1.2	mm	7.103	14.89	10.14	C	75.1	98.3	0	8.1	2.8	MPS
8.	May-9-2024	0.2	mm	3.955	8.66	5.88	C	86.1	96	0.6	6.4	2.5	MPS
9.	May-10-2024	9.2	mm	3.065	5.608	4.13	C	97	99.6	0.8	8.5	3.5	MPS
10.	May-11-2024	0	mm	1.808	8.46	4.718	C	91	100	0	5.1	2.1	MPS
11.	May-12-2024	0	mm	-0.127	9.06	5.22	C	91.1	100	0	6.5	1.8	MPS
12.	May-13-2024	0	mm	2.246	8.46	5.341	C	89.2	97.6	0	8.4	3.2	MPS
13.	May-14-2024	0	mm	-0.635	15.49	8.33	C	74.6	100	0	4.2	1.6	MPS
14.	May-15-2024	0	mm	2.414	16.82	10	C	64.8	94.7	0	6.6	1.7	MPS
15.	May-16-2024	0	mm	6.187	18.9	12.03	C	73.5	91.6	0	6.4	1.6	MPS
16.	May-17-2024	0	mm	6.566	15.05	9.77	C	87.1	98.3	0	5.5	1.6	MPS
17.	May-18-2024	0	mm	6.016	13.7	9.37	C	89.2	100	0	4.5	1.6	MPS
18.	May-19-2024	0	mm	6.467	17.9	11.8	C	86.5	100	0	7.7	2	MPS
19.	May-20-2024	0	mm	7.343	16.97	11.53	C	81.9	94.6	0.4	6.6	2.1	MPS
20.	May-21-2024	0	mm	8.23	21.04	14.54	C	68.5	86.1	0	7.4	2.6	MPS
21.	May-22-2024	0.2	mm	11.1	23.81	16.62	C	75.2	94.6	1.1	11.2	5.2	MPS
22.	May-23-2024	0	mm	9.9	22.33	15.52	C	81.8	97.8	0	8.3	2.3	MPS
23.	May-24-2024	1.2	mm	9.39	27.71	16.31	C	86.2	100	0	10.5	2	MPS
24.	May-25-2024	0.6	mm	12.04	25.84	18.46	C	71.9	97.5	0	12.9	3.5	MPS
25.	May-26-2024	0	mm	6.935	13.76	10.87	C	87.9	99.1	0	7.4	2.4	MPS
26.	May-27-2024	0	mm	5.776	12.19	8.73	C	85.1	97.5	0	5.3	1.8	MPS
27.	May-28-2024	0	mm	4.449	17.2	10.93	C	80.7	99.4	0	8.6	2.2	MPS
28.	May-29-2024	2	mm	9.04	18.71	14.29	C	91.8	97.5	1.6	14	5.7	MPS
29.	May-30-2024	0.2	mm	9.82	23.18	16.65	C	80.7	99	0	12	3.6	MPS
30.	May-31-2024	0	mm	7.669	17.56	12.69	C	70	92.5	0	5.8	1.4	MPS
31.	Jun-1-2024	0	mm	5.877	15.85	10.79	C	78.9	95.7	0	6.3	1.8	MPS
32.	Jun-2-2024	1.2	mm	5.522	11.26	8.3	C	88.9	97.7	0.2	8	2.7	MPS
33.	Jun-3-2024	7.8	mm	7.755	11.09	8.72	C	94.9	100	0.5	10.9	3.6	MPS
34.	Jun-4-2024	0.4	mm	7.992	12.36	9.65	C	99	100	0	4.5	1.6	MPS
35.	Jun-5-2024	0	mm	9.38	15.05	11.22	C	95	100	0.6	6.8	2.6	MPS
36.	Jun-6-2024	0	mm	9.83	16.86	13.11	C	88	97.7	0.1	8.1	3.1	MPS
37.	Jun-7-2024	0	mm	7.741	14.41	10.18	C	95.3	100	0	3.4	1.2	MPS
38.	Jun-8-2024	0	mm	5.311	16.79	11.06	C	94.9	100	0	4.6	1	MPS
39.	Jun-9-2024	3.4	mm	10.14	19.77	15.18	C	92.4	100	0	6.6	1.8	MPS
40.	Jun-10-2024	1.4	mm	13.39	21.4	16.42	C	86	99.5	0.6	9.6	3.2	MPS
41.	Jun-11-2024	0.2	mm	13.11	20.71	15.87	C	81.4	97.5	0.5	10.5	3.9	MPS
42.	Jun-12-2024	0	mm	11.3	19.57	14.73	C	89.2	99.6	0	5.5	1.6	MPS
43.	Jun-13-2024	0	mm	9.97	20.46	14.79	C	91.6	100	0	3.4	0.9	MPS
44.	Jun-14-2024	0	mm	12.42	25.34	18.87	C	75.4	97.2	0	10	3.3	MPS
45.	Jun-15-2024	0	mm	14.48	27.96	20.5	C	70.9	85.8	0.9	12.2	4.7	MPS
46.	Jun-16-2024	10.4	mm	11.08	17.81	14.86	C	92.1	98.1	0	6.8	1.9	MPS
47.	Jun-17-2024	0	mm	10.37	20.73	14.91	C	64.4	96.4	0	9.7	2.9	MPS
48.	Jun-18-2024	0	mm	12.87	24.21	18.03	C	56.8	76.4	0.9	12.9	4.6	MPS
49.	Jun-19-2024	0	mm	14.54	27.27	20.54	C	67.7	80.4	0.1	10.4	4.2	MPS
50.	Jun-20-2024	0	mm	18.65	31.96	24.92	C	73.4	87.5	0.1	10.6	4.3	MPS
51.	Jun-21-2024	0.2	mm	20.38	32.16	25.67	C	72.7	88.2	0	9.5	3.3	MPS
52.	Jun-22-2024	0	mm	15.05	24.44	19.95	C	55.1	77.2	0	6.1	2.1	MPS
53.	Jun-23-2024	0	mm	13.61	26.15	20.07	C	58.9	88.3	0	6.3	2.5	MPS
54.	Jun-24-2024	43.8	mm	14.75	21.84	17.5	C	85.4	98.4	0.4	9.5	3.4	MPS
55.	Jun-25-2024	4	mm	15.09	19.98	17.2	C	94.3	98.4	0	11	2.4	MPS
56.	Jun-26-2024	18.2	mm	13.93	15.8	14.92	C	97.6	100	0	5.1	1.5	MPS
57.	Jun-27-2024	0	mm	13.61	26.47	19.88	C	80.6	100	0	11.7	3.9	MPS
58.	Jun-28-2024	11.6	mm	15.02	21.58	18.25	C	91.6	97.6	0	10.3	3.3	MPS
59.	Jun-29-2024	0.4	mm	10.03	17.74	15.17	C	85	99.5	0	9	2.3	MPS

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60.	Jun-30-2024	0	mm	9.53	22.59	16.62	C	74.6	99.5	0	10.5	3.1	MPS
61.	Jul-1-2024	0.8	mm	12.86	22.59	17.79	C	86.3	93.1	1.1	13.4		MPS
62.	Jul-2-2024	0	mm	13.61	20.55	17.1	C	88.5	97.3	0	6.7		MPS
63.	Jul-3-2024	0	mm	12.52	25.05	19.17	C	70.7	98.1	0	2.5		MPS
64.	Jul-4-2024	0	mm	10.91	27.56	20.42	C	59	94.1	0	5.4		MPS
65.	Jul-5-2024	0	mm	15.03	24.18	19.36	C	63	79.4	0.7	8		MPS
66.	Jul-6-2024	0	mm	15.76	25.76	20.31	C	75.9	88.4	0.5	8.8		MPS
67.	Jul-7-2024	2.8	mm	17.21	20.42	18.71	C	90.9	96.1	0.5	8.8		MPS
68.	Jul-8-2024	0.2	mm	18.57	24.24	20.2	C	93.4	98.5	0	7.9		MPS
69.	Jul-9-2024	0	mm	17.08	29.5	23.7	C	81	98.5	0	6.1		MPS
70.	Jul-10-2024	0.4	mm	19.54	27.81	23.31	C	80	95.8	0.7	8.4		MPS
71.	Jul-11-2024	0.2	mm	19.23	28.92	23.54	C	80.4	95.3	0	7.9		MPS
72.	Jul-12-2024	44.6	mm	19.4	22.9	20.98	C	96.3	99.3	0	6.7		MPS
73.	Jul-13-2024	1	mm	18.68	23.18	20.49	C	94.4	99.3	0	7.7		MPS
74.	Jul-14-2024	0	mm	18.64	28.26	22.88	C	83.7	95.5	0.6	8.3		MPS
75.	Jul-15-2024	0.8	mm	19.16	30.24	23.95	C	79.5	94.2	0	6.5		MPS
76.	Jul-16-2024	0	mm	20.21	29.91	24.47	C	72.2	87.3	0	7.6		MPS
77.	Jul-17-2024	20.2	mm	20.22	28.92	23.47	C	85.3	95.1	0	8		MPS
78.	Jul-18-2024	0	mm	20	27.42	23.17	C	85.1	95	0	8.1		MPS
79.	Jul-19-2024	1.6	mm	19.91	24.68	21.83	C	89.4	95.4	0.6	9.1		MPS
80.	Jul-20-2024	0	mm	17.85	26.56	21.43	C	74.2	94.5	0.3	8.2		MPS
81.	Jul-21-2024	0	mm	17.27	26.57	21.78	C	67.4	84.5	0	9.2		MPS
82.	Jul-22-2024	0	mm	15.18	24.23	19.32	C	79.1	89.2	0	7.4		MPS
83.	Jul-23-2024	0	mm	14.28	24.5	19.08	C	66.7	86.6	0.4	10.4		MPS
84.	Jul-24-2024	0	mm	14.61	23.37	19.09	C	78.5	89.2	0	3.8		MPS
85.	Jul-25-2024	0	mm	14.91	23.58	19.43	C	78.1	97.3	0	2.6		MPS
86.	Jul-26-2024	7.4	mm	14.79	25.44	20.51	C	78	95.6	0	8.3		MPS
87.	Jul-27-2024	0	mm	14.49	22.88	18.96	C	84.9	95.2	0	6.8		MPS
88.	Jul-28-2024	0	mm	13.62	24.1	19.24	C	75.2	93.6	0	5.1		MPS
89.	Jul-29-2024	0	mm	16.42	27.65	21.97	C	66.4	86.1	0.9	11.1		MPS
90.	Jul-30-2024	0	mm	16.63	29.19	22.96	C	73.7	84.6	0.8	9.7		MPS
91.	Jul-31-2024	0	mm	15.63	25.33	20.97	C	78.6	93.6	0	8.7		MPS

Application Description

	A
Date	May-13-2024
Start Time	11:00 AM
Stop Time	11:30 AM
Standard	INSP
Method	SPRAY
Timing	ATPLAN
Placement	INFURR
Entry Date	Nov-5-2024
Air Temperature Start, Stop	13, 13 C
% Relative Humidity Start, Stop	62, 62
Wind Velocity+Dir. Start	5 KPH, E
Wind Velocity+Dir. Stop	5 KPH, E
Soil Temperature	12.9 C
Soil Moisture	DRY

Atlantic AgriTech Inc.

BSSI INS/FUNG Trial

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 Protocol ID: Location: Trial Year: 2024
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 Investigator:

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale	SOLTU, BPOT
Days after Emergence	-26

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale	LPTNDE, I, DESC

Application Equipment

	A
Equipment Type	MANCAI
Operation Pressure	2.06 BAR
Nozzle Type	FLAFAN
Nozzle TradeName	Teejet
Nozzle Tip Size, Color	67, -
Nozzles/Row	1.0
Nozzle Count	1
Band Width	20.0 cm
Carrier	WATER
Propellant	COMCO2

Notes

No.	Context	Date	By	Notes
1.	STATUS	Apr-19-2024	Evan MacDonald	Automatically added by ARM: Trial Status updated to 'S' during trial creation by (XZRMAE).
2.	STATUS	Jun-13-2024	Evan MacDonald	Automatically added by ARM: Trial Status updated to 'E' when Rating Date was entered by (XZRMAE).