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RESEARCH AND DEVELOPMENT PROJECT REPORT

Evaluate the Efficacy of Albion B5 Compared to Brandt Smart Trio when Applied with Glyphosate for Weed Control and Yield Enhancement on Corn under Field Conditions

Trial ID: ALB1502M Albion, MI – Michigan Ag Research Station

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Pacific Ag Research

May – October, 2015

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ABSTRACT

Objective:	Evaluate the efficacy of Albion B5 compared to Brandt Smart Trio when applied with glyphosate for weed control and yield enhancement on corn under field conditions.
Product(s) tested:	Albion B5, Buccaneer Plus, and Brandt Smart Trio
Location:	Albion, MI – Michigan Ag Research Station
Project Duration:	May 20 (Planting) to October 15 (Harvest), 2015

Key Findings:

- No significant improvement in weed control was observed among plots treated with glyphosate and either Albion B5 or Brandt Smart Trio.
- Yields were no different statistically but estimated gross returns for moisture-adjusted corn were highest numerically for the plots treated with Buccaneer and Albion B5 at 16 fl oz/a.

Narrative:

Weed control and yield enhancement for glyphosate treated DK-43-30 variety corn grown under field conditions in Michigan is tested here for Brandt Smart Trio and Albion B5 fertilizers. Total and specific weed control was measured on a 0-100% basis (100% rating for weed-free plots) 9 DAA and yield data was collected 118 DAA in mid-October.

In the soybean trial, we observed significant improvement in weed control in the glyphosate-only plots. Here, there were not statistical differences in control observed among treatments and the untreated was numerically in the middle for total weed control, but lower than control observed in plots treated with glyphosate and Brandt Smart Trio. Ragweed and Canada Horseweed were the only pests to come in with less than 80% control, but all other weeds did not have significant differences among treatments.

Yield weights were slightly higher on the Albion-treated plots and when adjusted for moisture, estimated gross returns would be approximately \$35 more per acre for those treated with 16 fl oz/a Albion B5 relative to the untreated.

MATERIALS AND METHODS

Treatments:

This study consisted of four treatments with applications on June 19 (A), 2015.

- 1. Buccaneer Plus 32 fl oz/a (A)
- 2. Buccaneer Plus 32 fl oz/a (A) + Brandt Smart Trio 32 fl oz/a (A)
- 3. Buccaneer Plus 32 fl oz/a (A) + Albion B5 16 fl oz/a (A)
- 4. Buccaneer Plus 32 fl oz/a (A) + Albion B5 32 fl oz/a (A)

Experimental Unit:

This trial was conducted on DK-43-30 variety corn that was seeded on May 20, 2015. Plants were spaced 6 inches apart in rows, and rows were spaced 30 inches apart for a planting density of 34,848 plants per acre. Plots were 10 feet (4 rows) by 40 feet, and treatments were replicated four times in a randomized complete block design for a total experiment size of 6,400 square-feet. The soil at the Michigan Ag Research station had a pH of 5.9, a cation exchange capacity of 5.5 meq/100g soil, and 2.3% organic matter. The soil texture consisted of 59% sand, 28% silt, and 13% clay particles.

Pest Description:

Weeds were naturally occurring in the plots. Weed species observed during the trial were: common lambsquarters (*Chenopodium album*), crab grass (*Digitaria sp.*), wood sorrel (*Oxalis sp.*), foxtail millet (*Setaria sp.*), common ragweed (*Ambrosia artemisiifolia*), and Canada horseweed (*Conyza canadaensis*).

Application Equipment:

Treatments were applied using a CO2 backpack sprayer operating at 25 PSI with a spray volume of 15 gallons per acre and a mix size of 3 liters. The spray boom incorporated three nozzles for a total boom width of 38 inches (see diagram below).



Evaluations:

Weed percent control was evaluated on a 0% to 100% scale where 0% represents a plot full of weeds (no control) and 100% represents a weed-free plot (complete control). Percent control ratings were done on July 5 (26 DA-A), and ratings were done for each of six weed species as well as a total percent control rating per plot.

Plots were harvested on October 15 (76 DA-B), 2015. The yield weight in pounds, percent moisture content, and test weight were recorded for the center two rows of each plot (80 row-ft). The estimated

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number of bushels per acre was adjusted to 15.5% moisture content, and estimated gross returns were calculated using a value of \$3.6775 per bushel.

Trial data was managed using ARM9 software (Gylling Data Management). Statistics were analyzed using ANOVA mean comparison with LSD test and α =0.05.

Table 1. Total Weed Percent Control. Percent control was evaluated on a 0% to 100% scale (0% = nocontrol/plot full of weeds, 100% = no weed presence in plots) on July 5 (26 DA-A), 2015.

Treatment		06/28/15
# Name	Rate	9 DA-A
1 Buccaneer Plus	32 fl oz/a (A)	88.75 a
2 Brandt Smart Trio	32 fl oz/a (A)	90.00 a
Buccaneer Plus	32 fl oz/a (A)	
3 Albion B5	16 fl oz/a (A)	88.75 a
Buccaneer Plus	32 fl oz/a (A)	
4 Albion B5	32 fl oz/a (A)	86.25 a
Buccaneer Plus	32 fl oz/a (A)	

Table 2. Common Lambsquarters Percent Control. Percent control of common lambsquarters(Chenopodium album) was evaluated on a 0% to 100% scale (0% = no control/plot full of weeds, 100% =no weed presence in plots) on July 5 (26 DA-A), 2015.

	Treatment		06/28/15
#	Name	Rate	9 DA-A
1	Buccaneer Plus	32 fl oz/a (A)	92.50 a
2	Brandt Smart Trio	32 fl oz/a (A)	90.00 a
	Buccaneer Plus	32 fl oz/a (A)	
3	Albion B5	16 fl oz/a (A)	90.00 a
	Buccaneer Plus	32 fl oz/a (A)	
4	Albion B5	32 fl oz/a (A)	90.00 a
	Buccaneer Plus	32 fl oz/a (A)	

Table 3. Crab Grass Percent Control. Percent control of crab grass (*Digitaria sp.*) was evaluated on a 0%to 100% scale (0% = no control/plot full of weeds, 100% = no weed presence in plots) on July 5 (26 DA-A), 2015.

Treatment		06/28/15
# Name	Rate	9 DA-A
1 Buccaneer Plus	32 fl oz/a (A)	90.00 a
2 Brandt Smart Trio	32 fl oz/a (A)	82.50 a
Buccaneer Plus	32 fl oz/a (A)	
3 Albion B5	16 fl oz/a (A)	90.00 a
Buccaneer Plus	32 fl oz/a (A)	
4 Albion B5	32 fl oz/a (A)	90.00 a
Buccaneer Plus	32 fl oz/a (A)	

Table 4. Wood Sorrel Percent Control. Percent control of wood sorrel (*Oxalis sp.*) was evaluated on a 0% to 100% scale (0% = no control/plot full of weeds, 100% = no weed presence in plots) on July 5 (26 DA-A), 2015.

	Treatment		06/28/15
#	Name	Rate	9 DA-A
1	Buccaneer Plus	32 fl oz/a (A)	100.00 a
2	Brandt Smart Trio	32 fl oz/a (A)	100.00 a
	Buccaneer Plus	32 fl oz/a (A)	
3	Albion B5	16 fl oz/a (A)	100.00 a
	Buccaneer Plus	32 fl oz/a (A)	
4	Albion B5	32 fl oz/a (A)	95.00 a
	Buccaneer Plus	32 fl oz/a (A)	

Table 5. Foxtail Millet Percent Control. Percent control of foxtail millet (*Setaria sp.*) was evaluated on a 0% to 100% scale (0% = no control/plot full of weeds, 100% = no weed presence in plots) on July 5 (26 DA-A), 2015.

Treatment		06/28/15
# Name	Rate	9 DA-A
1 Buccaneer Plus	32 fl oz/a (A)	100.00 a
2 Brandt Smart Trio	32 fl oz/a (A)	100.00 a
Buccaneer Plus	32 fl oz/a (A)	
3 Albion B5	16 fl oz/a (A)	100.00 a
Buccaneer Plus	32 fl oz/a (A)	
4 Albion B5	32 fl oz/a (A)	100.00 a
Buccaneer Plus	32 fl oz/a (A)	

 Table 6. Common Ragweed Percent Control. Percent control of common ragweed (Ambrosia

artemisiifolia) was evaluated on a 0% to 100% scale (0% = no control/plot full of weeds, 100% = no weed presence in plots) on July 5 (26 DA-A), 2015.

Treatment		06/28/15
# Name	Rate	9 DA-A
1 Buccaneer Plus	32 fl oz/a (A)	72.50 a
2 Brandt Smart Trio	32 fl oz/a (A)	71.25 a
Buccaneer Plus	32 fl oz/a (A)	
3 Albion B5	16 fl oz/a (A)	71.25 a
Buccaneer Plus	32 fl oz/a (A)	
4 Albion B5	32 fl oz/a (A)	70.00 a
Buccaneer Plus	32 fl oz/a (A)	

Table 7. Canada Horseweed Percent Control. Percent control of Canada horseweed (*Conyza Canadensis*) was evaluated on a 0% to 100% scale (0% = no control/plot full of weeds, 100% = no weed presence in plots) on July 5 (26 DA-A), 2015.

	Treatment		06/28/15
#	Name	Rate	9 DA-A
1	Buccaneer Plus	32 fl oz/a (A)	67.50 a
2	Brandt Smart Trio	32 fl oz/a (A)	70.00 a
	Buccaneer Plus	32 fl oz/a (A)	
3	Albion B5	16 fl oz/a (A)	67.50 a
	Buccaneer Plus	32 fl oz/a (A)	
4	Albion B5	32 fl oz/a (A)	67.50 a
	Buccaneer Plus	32 fl oz/a (A)	

Table 8. Yield Weight (Lbs). Yield weights (in pounds) were recorded for 80 row-ft per plot on October15 (76 DA-B), 2015.

Treatment		10/15/15
# Name	Rate	118 DA-A
1 Buccaneer Plus	32 fl oz/a (A)	53.28 a
2 Brandt Smart Trio	32 fl oz/a (A)	52.53 a
Buccaneer Plus	32 fl oz/a (A)	
3 Albion B5	16 fl oz/a (A)	55.84 a
Buccaneer Plus	32 fl oz/a (A)	
4 Albion B5	32 fl oz/a (A)	53.26 a
Buccaneer Plus	32 fl oz/a (A)	

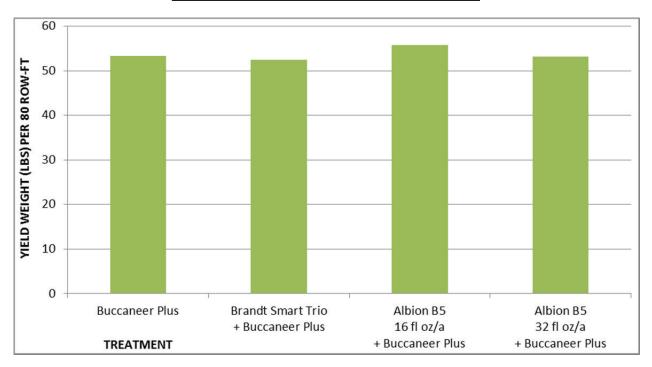


Chart 8. Yield Weight (Lbs). Yield weights (in pounds) were recorded for 80 row-ft per plot on October 15 (76 DA-B), 2015.

Table 9. Moisture Content (%). The moisture content of corn at harvest was recorded for each plot onOctober 15 (76 DA-B), 2015.

Treatment # Name	Data	10/15/15
# Name	Rate	118 DA-A
1 Buccaneer Plus	32 fl oz/a (A)	15.83% a
2 Brandt Smart Trio	32 fl oz/a (A)	16.60% a
Buccaneer Plus	32 fl oz/a (A)	
3 Albion B5	16 fl oz/a (A)	15.95% a
Buccaneer Plus	32 fl oz/a (A)	
4 Albion B5	32 fl oz/a (A)	16.48% a
Buccaneer Plus	32 fl oz/a (A)	

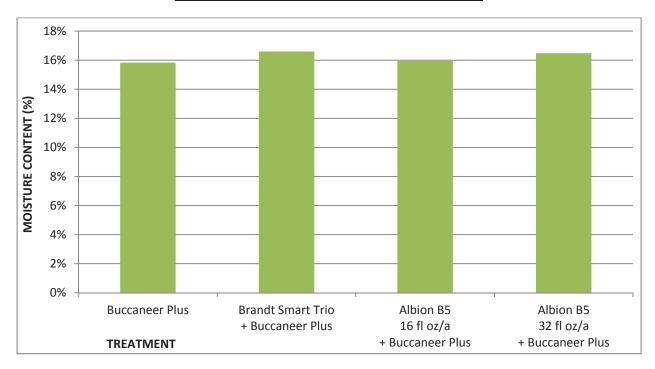


Chart 9. Moisture Content (%). The moisture content of corn at harvest was recorded for each plot on October 15 (76 DA-B), 2015.

Chart 10. Test Weight (Lbs/Bushel). The test weight (in pounds/bushel) of corn at harvest was recorded for each plot on October 15 (76 DA-B), 2015.

Treatment		10/15/15
# Name	Rate	118 DA-A
1 Buccaneer Plus	32 fl oz/a (A)	66.10 a
2 Brandt Smart Trio	32 fl oz/a (A)	60.93 a
Buccaneer Plus	32 fl oz/a (A)	
3 Albion B5	16 fl oz/a (A)	64.23 a
Buccaneer Plus	32 fl oz/a (A)	
4 Albion B5	32 fl oz/a (A)	60.70 a
Buccaneer Plus	32 fl oz/a (A)	

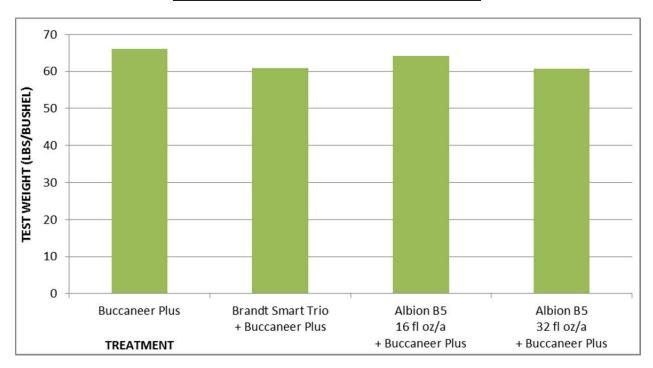


Chart 10. Test Weight (Lbs/Bushel). The test weight (in pounds/bushel) of corn at harvest was recorded for each plot on October 15 (76 DA-B), 2015.

Table 11. Moisture-Adjusted Bushels per Acre.An estimate of the number of bushels per acre wasadjusted to 15.5% moisture content for corn.

Treatment		10/15/15
# Name	Rate	118 DA-A
1 Buccaneer Plus	32 fl oz/a (A)	206.35 a
2 Brandt Smart Trio	32 fl oz/a (A)	201.62 a
Buccaneer Plus	32 fl oz/a (A)	
3 Albion B5	16 fl oz/a (A)	215.98 a
Buccaneer Plus	32 fl oz/a (A)	
4 Albion B5	32 fl oz/a (A)	204.70 a
Buccaneer Plus	32 fl oz/a (A)	

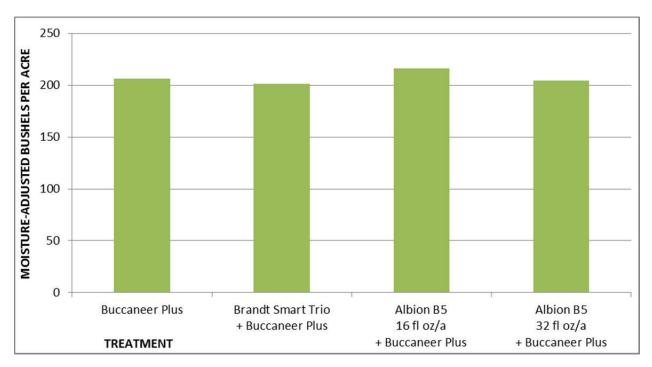


Chart 11. Moisture-Adjusted Bushels per Acre. An estimate of the number of bushels per acre was adjusted to 15.5% moisture content for corn.

Table 12. Estimated Gross Returns (\$/Acre). Estimated gross returns (in dollars per acre) were calculated using a value of \$3.6775 per bushel.

Treatment		10/15/15
# Name	Rate	118 DA-A
1 Buccaneer Plus	32 fl oz/a (A)	\$758.84 a
2 Brandt Smart Trio	32 fl oz/a (A)	\$741.45 a
Buccaneer Plus	32 fl oz/a (A)	
3 Albion B5	16 fl oz/a (A)	\$794.27 a
Buccaneer Plus	32 fl oz/a (A)	
4 Albion B5	32 fl oz/a (A)	\$752.79 a
Buccaneer Plus	32 fl oz/a (A)	

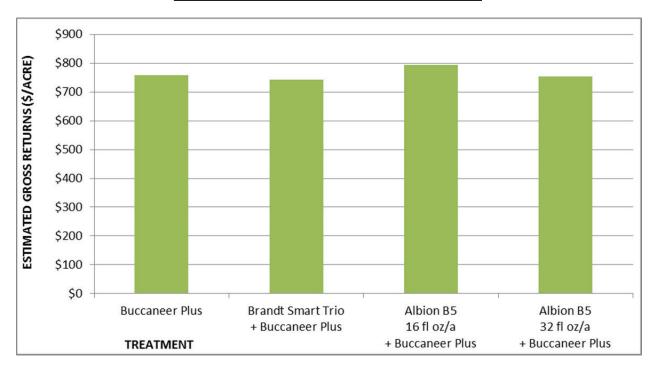


Chart 12. Estimated Gross Returns (\$/Acre). Estimated gross returns (in dollars per acre) were calculated using a value of \$3.6775 per bushel.

TRIAL INFORMATION SHEET

Trial Setup Info:

Trial ID:	ALB1502M	Location:	Albion, MI
Sponsor Protocol ID:	ALB1502M	Study Director:	Brian Cortright
Discipline:	Herbicide	Sponsor Contact:	Jeremy O'Brien
Trial Initiation Date:	05/11/15	Trial Completion Date:	10/15/15

Objective:

Evaluate the efficacy of Albion B5 compared to Brandt Smart Trio when applied with glyphosate for weed control and yield enhancement on corn under field conditions.

Crop and Pest Info:

Crop:	Corn	Pest(s):	Weeds
Variety:	DK-43-30	Common Lambsquarters:	Chenopodium album
Planting Date:	05/20/15	Crab Grass:	Digitaria sp.
Planting Method:	Seeded	Wood Sorrel:	Oxalis sp.
Planting Equipment:	JD 7100 Planter	Foxtail Millet:	Setaria sp.
Row Spacing:	30 Inches	Common Ragweed:	Ambrosia artemisiifolia
Spacing Within Rows:	6 Inches	Canada Horseweed:	Conyza canadensis
Planting Density:	34,848 Plants/Acre	Harvested Width:	5 Feet (2 Rows)
Harvest Equipment:	Sheller	Harvested Length:	40 Feet

Experiment Site Info:

Site Name:	MAR Station	Soil pH:	5.9
Block:	169	Soil CEC:	5.5 meq/100g soil
Plot Width:	10 Feet (4 Rows)	Soil % OM:	2.3%
Plot Length:	40 Feet	Soil % Sand, Silt, Clay:	
# Treatments, # Replicates:	5 trts, 4 reps	Irrigation Method:	Rainfall
Tillage Type:	Conventional Till	Statistical Design:	RCB Design

Applications:

Letter and Date:	Method and Placement:	Equipment Notes (Pressure, # Nozzles, Etc.):
A - 06/19/15	Spray, Foliar	Backpack CO2 Sprayer, 25 PSI, 3 Nozzle Boom
		XR8002 Nozzles, 15 GPA Spray Volume, 3L Mix Size

Evaluations:

Weed Percent Control:	6/28
Harvest:	10/15

TREATMENT LIST

Reps	: 4												Plots	: 10 b	y 40	feet
Spray	vol: 30 GAL/AC								N	1ix Siz	e:2ga	allons (calculat	ed m	ix siz	e 1.3	774)
Trt	Treatment	Form	Form	Form		Rate	Appl	Spray	Volume	Mix	Mix	Amt Product		Re	p	
No.	Name	Conc	Unit	Туре	Rate	Unit	Code	Volume	Unit	Size	Unit	to Measure	1	2	3	4
1	Buccaneer Plus	41	%	EC	32	fl oz/a	А	15	GAL/AC	3	liters	50.0 ml/mx	102	203	301	402
2	Brandt Smart Trio	10.5	LB/GAL	EC	32	fl oz/a	А	15	GAL/AC	3	liters	50.0 ml/mx	101	204	302	403
	Buccaneer Plus	41	%	EC	32	fl oz/a	А	15	GAL/AC	3	liters	50.0 ml/mx				
3	Albion B5	10.5	LB/GAL	EC	16	fl oz/a	Α	15	GAL/AC	3	liters	25.0 ml/mx	104	202	304	401
	Buccaneer Plus	41	%	EC	32	fl oz/a	А	15	GAL/AC	3	liters	50.0 ml/mx				
4	Albion B5	10.5	LB/GAL	EC	32	fl oz/a	Α	15	GAL/AC	3	liters	50.0 ml/mx	103	201	303	404
	Buccaneer Plus	41	%	EC	32	fl oz/a	А	15	GAL/AC	3	liters	50.0 ml/mx				

APPENDIX A: DAILY METEROLOGICAL SUMMARY

Enviro-weather Station: Albion, MI (8.3 Miles from Experiment Site)

	Precip	Cumul Precip	Max Air Temp	Min Air Temp	Max Rel Hum	Min Rel Hum	Max Soil Temp	Min Soil Temp	Max Wind Speed
Date	(in)	(in)	(F)	(F)	(%)	(%)	(F)	(F)	(mph)
05/01/15		0.00	74.3	38.8	88.2	22.6	57.6	52.1	15.5
05/02/15		0.00	74.3	39.8	87.2	20.1	59.3	53.7	14.2
05/03/15		0.00	78.2	46.7	75.8	23.6	60.3	55.3	15.9
05/04/15	0.10	0.10	75.9	56.0	92.2	43.4	62.0	58.4	14.9
05/05/15	0.80	0.90	57.6	47.2	94.0	44.8	61.6	57.3	9.5
05/06/15	0.14	1.04	75.5	49.9	95.2	57.0	62.2	56.3	12.2
05/07/15		1.04	84.5	52.5	94.8	30.4	64.7	59.5	12.2
05/08/15	0.48	1.52	82.8	56.8	93.5	41.5	65.4	61.7	16.9
05/09/15	0.03	1.55	77.1	59.3	94.9	59.0	66.2	63.4	13.9
05/10/15	0.41	1.96	74.7	58.3	94.5	66.9	66.5	64.7	11.2
05/11/15	0.06	2.02	73.9	56.9	95.3	61.2	65.9	64.3	11.5
05/12/15		2.02	61.5	47.1	79.0	59.0	65.3	59.3	19.9
05/13/15		2.02	57.3	39.1	84.9	46.5	60.8	57.0	15.9
05/14/15		2.02	61.7		93.1		60.2		12.5
05/15/15	0.08	2.10	76.6	49.0	90.4	57.8	63.0	58.3	11.5
05/16/15	0.04	2.14	77.2	59.7	94.5	59.8	65.9	61.6	8.8
05/17/15		2.14	81.7	62.8	94.1	56.8	68.7	64.0	16.6
05/18/15		2.14	82.3	57.1	89.4	36.3	70.9	66.6	12.5
05/19/15		2.14	57.0	39.1	75.3	46.3	69.6	62.3	17.6
05/20/15		2.14	59.3	33.9	83.2	31.3	62.9	58.5	14.2
05/21/15		2.14	63.6	43.3	87.2	26.5	63.4	59.6	14.5
05/22/15		2.14	69.3	42.1	65.3	19.8	65.5	59.6	15.9
05/23/15		2.14	78.2	38.0	90.7	15.7	67.2	59.9	14.9
05/24/15		2.14	75.9	50.0	84.3	37.2	66.3	62.7	10.8
05/25/15	0.11	2.25	79.5	62.6	90.1	46.5	68.2	64.0	17.9
05/26/15	0.11	2.36	83.6	62.1	93.0	43.5	69.3	65.3	19.9
05/27/15	0.17	2.53	76.6	60.0	90.4	54.4	68.7	66.1	20.9
05/28/15	0.01	2.54	80.7	50.6	95.0	33.5	71.4	64.5	13.2
05/29/15		2.54	84.5	58.4	84.5	44.2	72.8	66.9	11.9
05/30/15	0.93	3.47	75.5	49.6	93.1	64.9	72.0	68.9	19.6
05/31/15	0.99	4.46	52.7	45.2	93.8	72.0	68.9	62.5	23.6
06/01/15		4.46	66.8	42.6	87.5	33.4	65.8	60.5	14.9
06/02/15		4.46	71.8	39.3	94.2	34.1	67.8	60.9	14.2
06/03/15		4.46	74.6	44.2	92.1	46.2	68.5	62.6	10.5
06/04/15		4.46	80.5	55.7	83.2	37.3	71.2	65.3	10.2
06/05/15		4.46	76.6	57.7	93.0	57.4	71.7	67.5	15.9
06/06/15		4.46	76.9	53.0	87.9	35.5	72.5	66.8	15.9
06/07/15	0.22	4.68	78.0	51.7	94.3	63.4	71.4	67.1	17.2
00/07/13				0 1.7	51.5	05.1	/ 1. 1	07.1	1/.2

	Precip	Cumul Precip	Max Air Temp	Min Air Temp	Max Rel Hum	Min Rel Hum	Max Soil Temp	Min Soil Temp	Max Wind Speed
Date	(in)	(in)	(F)	(F)	(%)	(%)	(F)	(F)	(mph)
06/09/15	0.01	5.86	76.1	53.2	95.0	44.0	71.9	66.8	11.5
06/10/15		5.86	86.6	60.9	89.2	46.2	74.8	68.7	18.2
06/11/15	0.37	6.23	74.3	62.2	93.0	58.7	74.1	70.9	9.8
06/12/15	0.39	6.62	75.2	58.8	94.1	70.7	71.3	69.0	12.9
06/13/15	0.08	6.70	76.4	58.0	94.9	74.8	71.7	68.4	10.2
06/14/15	2.31	9.01	81.8	66.4	94.6	61.3	73.9	69.9	12.9
06/15/15	0.37	9.38	79.7	69.5	93.8	67.8	74.4	72.1	6.8
06/16/15	0.04	9.42	81.4	62.3	94.2	33.7	77.2	72.2	12.9
06/17/15	0.04	9.46	72.3	60.5	92.9	62.7	76.0	71.9	10.5
06/18/15	0.20	9.66	80.0	65.9	94.3	66.8	74.0	71.5	11.2
06/19/15		9.66	71.8	58.4	89.2	53.7	74.1	70.5	12.9
06/20/15		9.66	78.8	56.5	92.6	66.1	74.2	69.8	9.2
06/21/15		9.66	82.6	63.5	91.1	42.9	75.9	72.0	12.2
06/22/15	0.53	10.19	82.1	61.2	94.1	62.8	74.9	71.6	16.2
06/23/15	0.70	10.89	79.1	61.6	93.3	44.9	76.9	72.3	18.9
06/24/15		10.89	79.2	52.6	95.2	29.8	75.8	71.1	7.5
06/25/15	0.15	11.04	69.6	60.0	92.9	78.1	74.9	71.6	7.2
06/26/15		11.04	74.3	57.8	95.0	52.9	72.6	69.7	10.8
06/27/15	1.01	12.05	64.6	54.0	93.3	62.1	72.0	67.1	18.9
06/28/15		12.05	77.5	54.3	88.6	34.2	71.7	65.2	12.5
06/29/15		12.05	73.1	58.2	89.6	53.4	71.1	68.4	12.5
06/30/15	0.04	12.09	74.6	57.0	93.4	61.1	71.4	68.6	9.5
07/01/15		12.09	71.1	57.1	93.8	45.5	71.8	68.5	10.8
07/02/15		12.09	74.0	51.3	95.0	40.4	72.5	67.6	13.2
07/03/15		12.09	76.2	51.5	93.5	33.6	72.2	67.6	10.5
07/04/15		12.09	79.4	51.3	95.4	34.3	73.3	67.6	8.8
07/05/15		12.09	82.8	54.5	95.1	42.7	74.7	68.9	7.5
07/06/15		12.09	83.7	57.0	94.5	49.9	75.6	70.2	12.5
07/07/15	0.40	12.49	75.1	53.9	94.4	65.5	75.0	72.2	16.6
07/08/15	0.01	12.50	64.5	50.4	94.2	61.3	72.2	68.4	8.8
07/09/15	0.39	12.89	73.0	58.8	94.9	64.6	69.8	67.6	12.2
07/10/15		12.89	81.9	53.4	95.1	43.1	72.0	67.1	7.5
07/11/15		12.89	78.0	57.3	95.1	46.1	72.8	68.7	7.5
07/12/15	0.01	12.90	80.0	64.5	89.4	50.9	74.6	70.6	8.8
07/13/15	0.38	13.28	82.5	59.9	95.1	54.2	74.1	70.2	10.5
07/14/15	0.56	13.84	78.2	64.1	95.0	60.5	73.9	71.6	18.2
07/15/15		13.84	77.1	56.3	88.6	35.3	74.9	70.3	16.2
07/16/15		13.84	73.9	52.4	94.4	50.9	73.8	69.8	9.8
07/17/15	0.66	14.50	88.5	63.2	94.8	59.5	75.5	70.2	11.5

Date(in)(i)(F)(F)(%)(%)(F)(r)(mph)07/18/150.7415.2484.566.395.161.575.872.915.607/19/1515.2485.160.694.339.877.273.515.207/20/1515.2482.656.195.346.776.572.112.207/21/1515.2478.752.795.036.675.771.412.507/23/1515.2484.255.895.236.976.171.09.807/24/1515.2484.663.194.057.076.973.311.907/26/1515.2484.861.095.230.577.873.49.807/21/1515.2488.660.395.134.978.073.79.207/21/1515.2488.562.785.337.077.974.812.207/23/1515.2488.562.785.337.077.974.812.207/23/1515.2488.959.891.728.376.272.718.608/01/1515.2489.060.293.434.076.972.122.907/23/150.5815.9079.257.795.031.275.974.415.908/01/1515.2489.060.293.434.076.972.122.908/03/150.0815.90		Precip	Cumul Precip	Max Air Temp	Min Air Temp	Max Rel Hum	Min Rel Hum	Max Soil Temp	Min Soil Temp	Max Wind Speed
07/19/1515.2485.160.694.339.877.273.515.2107/20/1515.2482.656.195.346.776.572.112.207/21/1515.2478.752.795.036.675.771.412.507/23/1515.2484.255.895.236.976.171.09.807/24/1515.2485.558.095.334.577.072.115.907/24/1515.2486.163.194.057.076.973.311.907/26/1515.2488.661.095.230.577.873.49.807/27/1515.2488.660.395.134.978.073.79.207/29/1515.2488.560.395.134.978.073.79.207/29/1515.2488.562.785.337.077.974.812.207/30/1515.2481.956.294.430.075.471.617.208/01/1515.2481.956.294.430.075.471.617.208/02/150.5815.9079.257.795.031.275.972.415.908/03/150.5815.9079.257.795.031.275.972.415.908/04/1515.9079.755.031.275.973.413.208/05/1515.9077.755.0 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>										
07/20/1515.2482.656.195.346.776.572.112.207/21/1515.2478.458.188.934.577.073.515.907/22/1515.2478.752.795.036.675.771.412.507/23/1515.2484.255.895.236.976.171.09.807/24/1515.2485.558.095.334.577.072.115.907/25/1515.2484.661.095.230.577.873.49.807/28/1515.2488.660.395.134.978.073.79.207/29/1515.2488.560.395.134.978.073.79.207/29/1515.2488.560.395.134.978.073.79.207/30/1515.2488.959.891.728.376.272.718.608/01/1515.2481.956.294.430.075.471.617.208/30/150.0815.9079.257.795.031.275.972.415.908/01/1515.9080.452.895.535.774.069.79.508/05/1515.9079.750.034.341.774.570.911.508/05/1515.9079.755.335.774.069.79.508/06/1515.9079.755.035.774		0.74								
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07/28/1515.2488.560.395.134.978.073.79.207/29/1515.2486.562.785.337.077.974.812.207/30/1515.2482.858.492.433.476.872.917.207/31/1515.2483.959.891.728.376.272.718.608/01/1515.2481.956.294.430.076.972.122.908/03/150.8815.9079.257.795.031.275.972.415.9008/04/1515.9080.053.894.132.674.370.413.208/05/1515.9080.452.895.535.774.069.79.508/06/1515.9079.159.790.836.074.470.610.208/07/1515.9079.954.393.835.473.970.111.508/08/1515.9078.762.982.655.573.571.48.208/09/1515.9077.765.094.367.273.872.311.908/11/1517.2077.765.094.367.273.872.311.908/11/1517.2076.854.892.837.273.770.113.508/11/150.0117.2183.257.095.148.173.669.611.908/11/150.0117.21<										
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07/30/1515.2482.858.492.433.476.872.917.207/31/1515.2483.959.891.728.376.272.718.608/01/1515.2481.956.294.430.075.471.617.208/02/150.5815.8289.060.293.434.076.972.122.908/03/150.0815.9079.257.795.031.275.972.415.9008/04/1515.9080.053.894.132.674.370.413.208/05/1515.9080.452.895.535.774.069.79.508/06/1515.9079.159.790.836.074.470.610.208/07/1515.9079.954.393.835.473.970.111.508/08/1515.9078.762.982.655.573.571.47.808/09/1515.9077.765.094.367.273.872.311.908/10/151.3017.2076.854.892.837.273.770.113.508/11/150.0117.2183.257.095.148.173.669.611.908/12/150.0117.3186.962.793.748.075.871.418.908/15/150.0117.3185.466.395.455.676.073.511.2<									73.7	
07/31/1515.2483.959.891.728.376.272.718.608/01/1515.2481.956.294.430.075.471.617.208/02/150.5815.8289.060.293.434.076.972.122.908/03/150.0815.9079.257.795.031.275.972.415.908/04/1515.9080.053.894.132.674.370.413.208/05/1515.9080.452.895.535.774.069.79.508/06/1515.9079.159.790.836.074.470.610.208/07/1515.9079.954.393.835.473.970.111.508/08/1515.9078.762.982.655.573.571.47.808/09/1515.9082.664.793.563.174.271.48.208/09/1515.9082.664.793.563.174.271.48.208/10/151.3017.2077.765.094.367.273.872.311.908/11/151.3017.2076.854.892.837.273.770.113.508/12/150.0117.3186.962.793.748.075.871.923.308/16/150.0117.3186.962.793.748.075.871.923.3 <td>07/29/15</td> <td></td> <td>15.24</td> <td>86.5</td> <td>62.7</td> <td>85.3</td> <td>37.0</td> <td>77.9</td> <td>74.8</td> <td>12.2</td>	07/29/15		15.24	86.5	62.7	85.3	37.0	77.9	74.8	12.2
08/01/1515.2481.956.294.430.075.471.617.208/02/150.5815.8289.060.293.434.076.972.122.908/03/150.0815.9079.257.795.031.275.972.415.908/04/1515.9080.053.894.132.674.370.413.208/05/1515.9080.452.895.535.774.069.79.508/06/1515.9079.159.790.836.074.470.610.208/07/1515.9079.954.393.835.473.970.111.508/08/1515.9078.762.982.655.573.571.47.808/09/1515.9077.765.094.367.273.872.311.908/10/151.3017.2077.765.094.367.273.872.311.908/11/1517.2076.854.892.837.273.770.113.508/12/150.0117.2183.257.095.148.173.669.611.908/13/150.0117.3186.962.793.748.075.871.923.308/16/150.0117.3186.962.793.748.075.871.923.308/16/150.0117.3281.463.294.955.275.373.1 <t< td=""><td></td><td></td><td>15.24</td><td>82.8</td><td>58.4</td><td>92.4</td><td>33.4</td><td>76.8</td><td>72.9</td><td>17.2</td></t<>			15.24	82.8	58.4	92.4	33.4	76.8	72.9	17.2
08/02/150.5815.8289.060.293.434.076.972.122.908/03/150.0815.9079.257.795.031.275.972.415.9008/04/1515.9080.053.894.132.674.370.413.208/05/1515.9080.452.895.535.774.069.79.508/06/1515.9079.159.790.836.074.470.610.208/07/1515.9079.954.393.835.473.970.111.508/08/1515.9078.762.982.655.573.571.47.808/09/1515.9082.664.793.563.174.271.48.208/10/151.3017.2077.765.094.367.273.872.311.908/11/1517.2076.854.892.837.273.770.113.508/12/1517.2076.854.892.837.273.770.113.508/13/150.0117.2183.257.095.148.173.669.611.908/14/150.0917.3084.864.192.754.075.171.418.908/15/150.0117.3186.962.793.748.075.871.923.308/16/1517.3187.363.895.351.076.572.79.2 <td>07/31/15</td> <td></td> <td>15.24</td> <td>83.9</td> <td>59.8</td> <td>91.7</td> <td>28.3</td> <td>76.2</td> <td>72.7</td> <td>18.6</td>	07/31/15		15.24	83.9	59.8	91.7	28.3	76.2	72.7	18.6
08/03/150.0815.9079.257.795.031.275.972.415.908/04/1515.9080.053.894.132.674.370.413.208/05/1515.9080.452.895.535.774.069.79.508/06/1515.9079.159.790.836.074.470.610.208/07/1515.9079.954.393.835.473.970.111.508/08/1515.9078.762.982.655.573.571.47.808/09/1515.9078.765.094.367.273.872.311.908/10/151.3017.2077.765.094.367.273.872.311.908/11/1517.2076.854.892.837.273.770.113.508/12/1517.2076.854.892.837.273.770.113.508/13/150.0117.2183.257.095.148.173.669.611.908/14/150.0917.3084.864.192.754.075.171.418.908/15/150.0117.3186.962.793.748.075.871.923.308/16/1517.3187.363.895.351.076.572.79.208/17/150.0117.3281.863.294.955.275.373.112.2 <td>08/01/15</td> <td></td> <td>15.24</td> <td>81.9</td> <td>56.2</td> <td>94.4</td> <td>30.0</td> <td>75.4</td> <td>71.6</td> <td>17.2</td>	08/01/15		15.24	81.9	56.2	94.4	30.0	75.4	71.6	17.2
08/04/1515.9080.053.894.132.674.370.413.208/05/1515.9080.452.895.535.774.069.79.508/06/1515.9079.159.790.836.074.470.610.208/07/1515.9079.954.393.835.473.970.111.508/08/1515.9078.762.982.655.573.571.47.808/09/1515.9077.765.094.367.273.872.311.908/10/151.3017.2077.765.094.367.273.872.311.908/11/1517.2076.854.892.837.273.770.113.508/12/1517.2076.854.892.837.273.770.113.508/13/150.0117.2183.257.095.148.173.669.611.908/14/150.0917.3084.864.192.754.075.171.418.908/15/150.0117.3186.962.793.748.075.871.923.308/16/1517.3187.363.895.351.076.572.79.208/17/150.0117.3285.466.395.455.676.073.511.208/18/1517.3281.863.294.955.275.373.112.208/	08/02/15	0.58	15.82	89.0	60.2	93.4	34.0	76.9	72.1	22.9
08/05/1515.9080.452.895.535.774.069.79.508/06/1515.9079.159.790.836.074.470.610.208/07/1515.9079.954.393.835.473.970.111.508/08/1515.9078.762.982.655.573.571.47.808/09/1515.9082.664.793.563.174.271.48.208/10/151.3017.2077.765.094.367.273.872.311.908/11/1517.2080.761.495.341.774.570.916.908/12/1517.2076.854.892.837.273.770.113.508/13/150.0117.2183.257.095.148.173.669.611.908/14/150.0917.3084.864.192.754.075.871.923.308/16/150.0117.3186.962.793.748.075.871.923.308/16/150.0117.3285.466.395.455.676.073.511.208/17/150.0117.3281.863.294.955.275.373.112.208/19/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.3 <td< td=""><td>08/03/15</td><td>0.08</td><td>15.90</td><td>79.2</td><td>57.7</td><td>95.0</td><td>31.2</td><td>75.9</td><td>72.4</td><td>15.9</td></td<>	08/03/15	0.08	15.90	79.2	57.7	95.0	31.2	75.9	72.4	15.9
08/06/1515.9079.159.790.836.074.470.610.208/07/1515.9079.954.393.835.473.970.111.508/08/1515.9078.762.982.655.573.571.47.808/09/1515.9082.664.793.563.174.271.48.208/10/151.3017.2077.765.094.367.273.872.311.908/11/1517.2076.854.892.837.273.770.113.508/12/1517.2076.854.892.837.273.770.113.508/13/150.0117.2183.257.095.148.173.669.611.908/14/150.0917.3084.864.192.754.075.171.418.908/15/150.0117.3186.962.793.748.075.871.923.308/16/1517.3187.363.895.351.076.572.79.208/17/150.0117.3285.466.395.455.676.073.511.208/18/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.7 <td< td=""><td>08/04/15</td><td></td><td>15.90</td><td>80.0</td><td>53.8</td><td>94.1</td><td>32.6</td><td>74.3</td><td>70.4</td><td>13.2</td></td<>	08/04/15		15.90	80.0	53.8	94.1	32.6	74.3	70.4	13.2
08/07/1515.9079.954.393.835.473.970.111.508/08/1515.9078.762.982.655.573.571.47.808/09/1515.9082.664.793.563.174.271.48.208/10/151.3017.2077.765.094.367.273.872.311.908/11/1517.2080.761.495.341.774.570.916.908/12/1517.2076.854.892.837.273.770.113.508/13/150.0117.2183.257.095.148.173.669.611.908/14/150.0917.3084.864.192.754.075.171.418.908/15/150.0117.3186.962.793.748.075.871.923.308/16/1517.3187.363.895.351.076.572.79.208/17/150.0117.3285.466.395.455.676.073.511.208/18/1517.3281.863.294.955.275.373.112.208/19/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.7 <td< td=""><td>08/05/15</td><td></td><td>15.90</td><td>80.4</td><td>52.8</td><td>95.5</td><td>35.7</td><td>74.0</td><td>69.7</td><td>9.5</td></td<>	08/05/15		15.90	80.4	52.8	95.5	35.7	74.0	69.7	9.5
08/08/1515.9078.762.982.655.573.571.47.808/09/1515.9082.664.793.563.174.271.48.208/10/151.3017.2077.765.094.367.273.872.311.908/11/1517.2080.761.495.341.774.570.916.908/12/1517.2076.854.892.837.273.770.113.508/13/150.0117.2183.257.095.148.173.669.611.908/14/150.0917.3084.864.192.754.075.171.418.908/15/150.0117.3186.962.793.748.075.871.923.308/16/1517.3187.363.895.351.076.572.79.208/17/150.0117.3285.466.395.455.676.073.511.208/18/1517.3281.863.294.955.275.373.112.208/19/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.710.8	08/06/15		15.90	79.1	59.7	90.8	36.0	74.4	70.6	10.2
08/09/1515.9082.664.793.563.174.271.48.208/10/151.3017.2077.765.094.367.273.872.311.908/11/1517.2080.761.495.341.774.570.916.908/12/1517.2076.854.892.837.273.770.113.508/13/150.0117.2183.257.095.148.173.669.611.908/14/150.0917.3084.864.192.754.075.171.418.908/15/150.0117.3186.962.793.748.075.871.923.308/16/1517.3187.363.895.351.076.572.79.208/17/150.0117.3285.466.395.455.676.073.511.208/18/1517.3281.863.294.955.275.373.112.208/19/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.710.8	08/07/15		15.90	79.9	54.3	93.8	35.4	73.9	70.1	11.5
08/10/151.3017.2077.765.094.367.273.872.311.908/11/1517.2080.761.495.341.774.570.916.908/12/1517.2076.854.892.837.273.770.113.508/13/150.0117.2183.257.095.148.173.669.611.908/14/150.0917.3084.864.192.754.075.171.418.908/15/150.0117.3186.962.793.748.075.871.923.308/16/1517.3187.363.895.351.076.572.79.208/17/150.0117.3285.466.395.455.676.073.511.208/18/1517.3281.863.294.955.275.373.112.208/19/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.710.8	08/08/15		15.90	78.7	62.9	82.6	55.5	73.5	71.4	7.8
08/11/1517.2080.761.495.341.774.570.916.908/12/1517.2076.854.892.837.273.770.113.508/13/150.0117.2183.257.095.148.173.669.611.908/14/150.0917.3084.864.192.754.075.171.418.908/15/150.0117.3186.962.793.748.075.871.923.308/16/1517.3187.363.895.351.076.572.79.208/17/150.0117.3285.466.395.455.676.073.511.208/18/1517.3281.863.294.955.275.373.112.208/19/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.710.8	08/09/15		15.90	82.6	64.7	93.5	63.1	74.2	71.4	8.2
08/12/1517.2076.854.892.837.273.770.113.508/13/150.0117.2183.257.095.148.173.669.611.908/14/150.0917.3084.864.192.754.075.171.418.908/15/150.0117.3186.962.793.748.075.871.923.308/16/1517.3187.363.895.351.076.572.79.208/17/150.0117.3285.466.395.455.676.073.511.208/18/1517.3281.863.294.955.275.373.112.208/19/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.710.8	08/10/15	1.30	17.20	77.7	65.0	94.3	67.2	73.8	72.3	11.9
08/13/150.0117.2183.257.095.148.173.669.611.908/14/150.0917.3084.864.192.754.075.171.418.908/15/150.0117.3186.962.793.748.075.871.923.308/16/1517.3187.363.895.351.076.572.79.208/17/150.0117.3285.466.395.455.676.073.511.208/18/1517.3281.863.294.955.275.373.112.208/19/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.710.8	08/11/15		17.20	80.7	61.4	95.3	41.7	74.5	70.9	16.9
08/14/150.0917.3084.864.192.754.075.171.418.908/15/150.0117.3186.962.793.748.075.871.923.308/16/1517.3187.363.895.351.076.572.79.208/17/150.0117.3285.466.395.455.676.073.511.208/18/1517.3281.863.294.955.275.373.112.208/19/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.710.8	08/12/15		17.20	76.8	54.8	92.8	37.2	73.7	70.1	13.5
08/15/150.0117.3186.962.793.748.075.871.923.308/16/1517.3187.363.895.351.076.572.79.208/17/150.0117.3285.466.395.455.676.073.511.208/18/1517.3281.863.294.955.275.373.112.208/19/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.710.8	08/13/15	0.01	17.21	83.2	57.0	95.1	48.1	73.6	69.6	11.9
08/16/15 17.31 87.3 63.8 95.3 51.0 76.5 72.7 9.2 08/17/15 0.01 17.32 85.4 66.3 95.4 55.6 76.0 73.5 11.2 08/18/15 17.32 81.8 63.2 94.9 55.2 75.3 73.1 12.2 08/19/15 0.07 17.39 84.4 67.2 91.7 53.4 75.7 73.3 13.5 08/20/15 0.31 17.70 69.6 56.2 95.0 54.4 75.3 71.2 16.9 08/21/15 17.70 78.1 51.8 95.5 37.4 72.1 68.7 10.8	08/14/15	0.09	17.30	84.8	64.1	92.7	54.0	75.1	71.4	18.9
08/17/150.0117.3285.466.395.455.676.073.511.208/18/1517.3281.863.294.955.275.373.112.208/19/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.710.8	08/15/15	0.01	17.31	86.9	62.7	93.7	48.0	75.8	71.9	23.3
08/18/1517.3281.863.294.955.275.373.112.208/19/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.710.8	08/16/15		17.31	87.3	63.8	95.3	51.0	76.5	72.7	9.2
08/19/150.0717.3984.467.291.753.475.773.313.508/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.710.8	08/17/15	0.01	17.32	85.4	66.3	95.4	55.6	76.0	73.5	11.2
08/20/150.3117.7069.656.295.054.475.371.216.908/21/1517.7078.151.895.537.472.168.710.8	08/18/15		17.32	81.8	63.2	94.9	55.2	75.3	73.1	12.2
08/21/15 17.70 78.1 51.8 95.5 37.4 72.1 68.7 10.8	08/19/15	0.07	17.39	84.4	67.2	91.7	53.4	75.7	73.3	13.5
	08/20/15	0.31	17.70	69.6	56.2	95.0	54.4	75.3	71.2	16.9
	08/21/15		17.70	78.1	51.8	95.5	37.4	72.1	68.7	10.8
00/22/13 17.70 00.3 34.3 95.2 39.9 72.1 08.8 10.5	08/22/15		17.70	80.3	54.5	95.2	39.9	72.1	68.8	10.5
08/23/15 0.32 18.02 79.9 55.5 93.6 56.2 71.5 68.8 14.5	08/23/15	0.32	18.02	79.9	55.5	93.6	56.2	71.5	68.8	14.5
08/24/15 18.02 71.8 52.4 95.6 36.2 70.4 67.2 19.2	08/24/15									19.2
08/25/15 18.02 62.5 53.6 91.0 64.9 68.3 66.7 14.9	08/25/15		18.02	62.5	53.6	91.0	64.9	68.3	66.7	14.9

	Precip	Cumul Precip	Max Air Temp	Min Air Temp	Max Rel Hum	Min Rel Hum	Max Soil Temp	Min Soil Temp	Max Wind Speed
Date	(in)	(in)	(F)	(F)	(%)	(%)	(F)	(F)	(mph)
08/26/15		18.02	66.5	55.3	93.8	61.0	67.0	65.8	9.8
08/27/15		18.02	66.2	46.6	95.8	58.9	66.8	64.3	6.8
08/28/15		18.02	76.6	50.4	95.8	52.9	67.5	63.6	7.8
08/29/15	0.20	18.22	70.6	58.5	94.8	77.5	67.6	66.1	5.5
08/30/15		18.22	78.9	62.6	95.4	66.4	70.1	67.2	7.5
08/31/15		18.22	83.4	58.0	95.7	55.0	71.4	67.6	10.2
09/01/15		18.22	88.0	61.2	95.6	46.9	72.8	68.5	8.2
09/02/15		18.22	89.4	66.5	95.4	47.4	73.9	70.3	10.8
09/03/15	0.10	18.32	87.2	65.8	95.3	48.8	73.7	71.2	11.2
09/04/15	0.02	18.34	83.5	64.8	95.4	52.1	74.2	71.9	12.9
09/05/15	0.19	18.53	80.9	64.6	95.3	60.3	73.8	71.6	11.2
09/06/15		18.53	89.5	62.0	95.7	39.5	74.6	70.7	8.5
09/07/15	0.01	18.54	89.7	66.6	93.3	42.5	75.2	71.9	10.2
09/08/15	0.11	18.65	86.8	69.4	94.7	50.9	75.4	73.3	11.2
09/09/15	0.01	18.66	75.4	55.6	92.8	53.6	74.9	72.8	9.5
09/10/15		18.66	78.8	50.0	96.0	31.4	72.9	68.7	9.8
09/11/15	0.02	18.68	67.8	53.9	95.9	51.4	70.9	68.5	12.9
09/12/15		18.68	60.6	46.2	93.5	55.2	68.5	65.4	13.5
09/13/15		18.68	68.9	39.4	96.1	34.0	65.5	62.3	15.2
09/14/15		18.68	77.1	42.9	95.6	33.7	65.5	61.2	11.5
09/15/15		18.68	82.4	56.5	84.4	31.4	67.2	63.6	10.2
09/16/15		18.68	83.1	52.0	91.8	29.1	67.6	64.1	12.5
09/17/15		18.68	82.6	52.7	93.7	33.7	68.0	64.3	11.5
09/18/15	0.72	19.40	79.7	62.1	94.8	54.5	69.0	66.2	8.5
09/19/15	0.04	19.44	70.4	50.2	95.1	48.3	69.0	67.2	21.6
09/20/15		19.44	71.4	42.3	95.7	32.1	67.2	63.2	10.5
09/21/15		19.44	74.2	43.1	95.9	33.1	65.0	61.6	11.2
09/22/15		19.44	78.8	43.5	96.0	27.7	65.0	61.1	7.8
09/23/15		19.44	80.1	45.7	95.8	29.9	65.1	61.3	12.2
09/24/15		19.44	78.6	46.8	95.7	38.8	65.1	61.6	9.8
09/25/15		19.44	79.8	53.0	95.2	35.5	66.1	62.7	15.2
09/26/15		19.44	76.0	58.8	91.1	30.0	66.2	64.1	13.9
09/27/15		19.44	77.7	59.5	90.8	49.6	66.7	64.6	11.2
09/28/15		19.44	80.3	63.5	92.3	54.6	68.1	65.9	10.8
09/29/15	0.01	19.45	70.0	52.2	93.8	52.9	67.9	66.2	19.2
09/30/15		19.45	64.6	42.3	90.5	35.1	66.2	62.5	21.3
10/01/15		19.45	61.6	41.2	84.9	32.0	63.3	60.2	22.9
10/02/15		19.45	59.8	43.3	72.5	28.3	61.5	58.9	23.9
10/03/15	0.13	19.58	48.2	43.5	92.1	45.6	59.8	57.4	19.2

Date	Precip (in)	Cumul Precip (in)	Max Air Temp (F)	Min Air Temp (F)	Max Rel Hum (%)	Min Rel Hum (%)	Max Soil Temp (F)	Min Soil Temp (F)	Max Wind Speed (mph)
10/04/15	0.03	19.61	55.8	44.9	95.8	90.2	58.3	56.9	10.8
10/04/15	0.03	19.61	72.3	52.8	95.8 95.7	59.2	61.2	58.3	7.8
10/05/15		19.61	67.6	50.9	95.6	65.6	61.8	60.2	8.8
10/00/15		19.61	73.3	47.0	95.8	39.0	62.0	59.3	12.5
10/08/15	0.03	19.64	77.1	47.0	95.8 95.2	43.5	62.5	59.2	12.5
10/08/15	0.05	19.04 19.70	62.6	45.8 41.8	99.2 94.6	43.5 58.9	62.5	60.5	15.9
10/10/15	0.00	19.70	65.2	36.6	96.0	39.4	60.5	57.0	9.8
10/11/15		19.70	75.4	46.4	80.7	30.2	60.3	56.9	13.5
10/11/15		19.70	73.1	40.4 53.1	74.1	48.1	60.5	58.2	13.5
10/12/15	0.01	19.70	60.1	48.6	89.7	40.1 54.0	60.2	58.2	17.6
10/13/15	0.01	19.72	58.5	38.6	93.6	44.1	58.2	57.1	14.9
10/15/15	0.01	19.72	58.1	38.2	94.9	44.7	57.1	54.9	24.9
10/16/15	0.00	19.79	52.8	29.9	96.6	38.8	55.1	52.2	18.6
10/17/15	0.01	19.80	48.4	27.6	93.3	28.3	52.5	50.6	18.6
10/18/15	0.01	19.80	53.4	26.3	95.5	28.5	51.0	48.4	16.2
10/19/15		19.80	68.4	29.9	91.8	22.0	52.1	48.1	17.2
10/20/15	0.05	19.85	74.5	53.0	93.8	22.9	54.7	51.6	12.9
10/21/15	0.06	19.91	75.3	49.5	94.0	36.3	56.8	54.1	11.5
10/22/15	0.00	19.91	67.1	43.1	80.5	31.8	57.5	55.9	10.8
10/23/15		19.91	60.2	39.9	92.5	48.6	56.4	53.6	14.9
10/24/15	0.17	20.08	68.9	50.7	91.0	70.8	57.2	54.8	16.2
10/25/15	0117	20.08	62.7	37.6	93.6	31.1	56.9	54.1	15.5
10/26/15		20.08	64.1	30.9	96.0	31.4	54.7	51.1	11.9
10/27/15	0.02	20.10	58.9	39.9	93.9	38.5	53.3	51.5	16.6
10/28/15	0.60	20.70	58.3	43.3	95.0	84.4	54.6	52.7	18.6
10/29/15	0.05	20.75	43.7	34.9	94.3	67.4	54.4	49.9	15.5
10/30/15	0.01	20.76	50.7	33.0	96.6	64.4	50.6	49.0	5.5
10/31/15	0.17	20.93	49.2	39.4	94.2	67.2	50.4	49.4	13.9
11/01/15	0.11	21.04	62.1	36.4	94.4	33.5	51.7	49.7	19.9
11/02/15		21.04	71.6	36.4	95.5	26.7	52.0	48.7	12.9
11/03/15		21.04	76.9	42.7	94.0	25.5	53.2	49.9	8.8
11/04/15		21.04	75.4	45.8	94.3	41.2	54.3	50.8	9.8
11/05/15	0.21	21.25	71.6	52.5	92.8	52.3	56.1	53.1	18.2
11/06/15	0.19	21.44	65.3	46.4	91.2	67.2	56.7	54.3	25.9
11/07/15		21.44	53.2	30.4	93.0	39.0	54.3	51.3	20.9
11/08/15		21.44	50.7	25.2	96.3	43.4	51.3	48.2	10.5
11/09/15	0.01	21.45	56.4	26.1	95.7	28.7	48.7	46.1	9.5
11/10/15	0.15	21.60	54.6	32.0	94.5	44.2	49.2	47.7	11.2

APPENDIX B: DATA SUMMARIES

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Pacific Agricultural Research

Evaluate the efficacy of Albion B5 compared to Brandt Smart Trio when applied with glyphosate for weed control and yield enhancement on corn under field conditions.

Trial ID:	ALB1502M	Location:	Albion, MI	Trial Year:	2015
Protocol ID:	ALB1502M	Investigator:	Brian Cortrig	ght	
Project ID:		Study Director:	Brian Cortrig	ght	
		Sponsor Contact:	Jeremy O'B	rien	

Rep	s: 4	Plots: 10 b	y 40 fe	et										
Spra	ay vol: 15 GAL/AC	Mix S	Size: 3	liters (calcula	ated m	ix size 2.6	607)							
Trt	Treatment	Form Form	Form	Rate	Appl	Spray	Volume	Mix	Mix	Amt Product	Rep			
No.	Name	Conc Unit	Туре	Rate Unit	Code	Volume	Unit	Size	Unit	to Measure	1	2	3	4
	Buccaneer Plus	41%	EC	1qt/a	А	15	GAL/AC	3	liters	50.0 ml/mx	102	203	301	402
2	Brandt Smart Trio	10.5LB/GAL	EC	1qt/a	А	15	GAL/AC	3	liters	50.0 ml/mx	101	204	302	403
	Buccaneer Plus	41%	EC	1qt/a	А	15	GAL/AC	3	liters	50.0 ml/mx				
:	Albion B5	10.5LB/GAL	EC	16fl oz/a	А	15	GAL/AC	3	liters	25.0 ml/mx	104	202	304	401
	Buccaneer Plus	41%	EC	1qt/a	А	15	GAL/AC	3	liters	50.0 ml/mx				
4	Albion B5	10.5LB/GAL	EC	1qt/a	А	15	GAL/AC	3	liters	50.0 ml/mx	103	201	303	404
	Buccaneer Plus	41%	EC	1qt/a	А	15	GAL/AC	3	liters	50.0 ml/mx				

Sort Order: Treatment

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Pacific Agricultural Research

Evaluate the efficacy of Albion B5 compared to Brandt Smart Trio when applied with glyphosate for weed control and yield enhancement on corn under field conditions.

Trial ID:	ALB1502M	Location:	Albion, MI	Trial Year:	2015
Protocol ID:	ALB1502M	Investigator:	Brian Cortrig	ght	
Project ID:		Study Director:	Brian Cortrig	ght	
		Sponsor Contact:	Jeremy O'B	rien	

Pest Type			W Weed					
Pest Code				CHEAL	DIGSS	OXASS	SETSS	AMBEL
Pest Scientific Name				Chenopodium al>	Digitaria sp.	Oxalis sp.	Setaria sp.	Ambrosia artem>
Pest Name				Common lambsqu>	Crabgrass	Wood sorrel	Foxtail millet	Common ragweed
Crop Code			ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale			BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name			Zea mays					
Crop Name			Corn	Corn	Corn	Corn	Corn	Corn
Crop Variety			DK-43-30	DK-43-30	DK-43-30	DK-43-30	DK-43-30	DK-43-30
Description			Total % control	% Control LQ	% Control Crab>	% Control Oxal>	% Control Foxt>	% Control Ragw>
Part Assessed			CANOPY C					
Assessment Date			Jun-28-2015	Jun-28-2015	Jun-28-2015	Jun-28-2015	Jun-28-2015	Jun-28-2015
Assessment Type			PERCEN	PERCEN	PERCEN	PERCEN	PERCEN	PERCEN
Assessment Unit			0-100	0-100	0-100	0-100	0-100	0-100
Sample Size, Unit			1 PLOT					
Collection Basis, Unit			1 PLOT					
Number of Subsample	s		1	1	1	1	1	1
Days After First/Last A	pplic.		99	99	99	99	99	99
Trt-Eval Interval			9 DA-A					
Plant-Eval Interval			39 DP-1					
ARM Action Codes								
Number of Decimals			2	2	2	2	2	2
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
1Buccaneer Plus	1qt/a	А	88.75a	92.50a	90.00a	100.00a	100.00a	72.50a
2Brandt Smart Trio	1qt/a	А	90.00a	90.00a	82.50a	100.00a	100.00a	71.25a
Buccaneer Plus	1qt/a	А						
3Albion B5	16fl oz/a	Α	88.75a	90.00a	90.00a	100.00a	100.00a	71.25a
Buccaneer Plus	1qt/a	А						
4Albion B5	1qt/a	А	86.25a	90.00a	90.00a	95.00a	100.00a	70.00a
Buccaneer Plus	1qt/a	А						
LSD P=.05			4.267	3.999	11.996	7.997	0.000	5.332
Standard Deviation			2.668	2.500	7.500	5.000	0.000	3.333
CV			3.02	2.76	8.51	5.06	0.0	4.68
Bartlett's X2			1.7	0.0	0.0	0.0	0.0	4.199
P(Bartlett's X2)			0.427	0.0	010	0.0	0.0	0.241
Skewness			-1.89*	4.0*	-4.0*	-4.0*		-1.2739*
Kurtosis			3.0346*	16.0*	16.0*	16.0*		1.9072
Replicate F			1.976	1.000	1.000	1.000	0.000	4.875
Replicate Prob(F)			0.1883	0.4363	0.4363	0.4363	1.0000	0.0279
Treatment F			1.390	1.000	1.000	1.000	0.000	0.375
Treatment Prob(F)			0.3076	0.4363	0.4363	0.4363	1.0000	0.7733
			0.0070	0.4000	0.4000	0.4000	1.0000	0.1700

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pacific Agricultural Research

Evaluate the efficacy of Albion B5 compared to Brandt Smart Trio when applied with glyphosate for weed control and yield enhancement on corn under field conditions.

Trial ID:	ALB1502M	Location:	Albion, MI	Trial Year:	2015
Protocol ID:	ALB1502M	Investigator:	Brian Cortrig	ght	
Project ID:		Study Director:	Brian Cortrig	ght	
-		Sponsor Contact:	Jeremy O'B	rien	

Pest Type			W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code			ERICA					
Pest Scientific Name			Conyza canaden>					
Pest Name			Canada horsewe>					
Crop Code			ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale			BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name			Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name			Corn	Corn	Corn	Corn	Corn	Corn
Crop Variety			DK-43-30	DK-43-30	DK-43-30	DK-43-30	DK-43-30	DK-43-30
Description			% Control Mare>	Yield	% Moisture	Test Weight (L>	Bushels/Acre	Est Gross Retu>
Part Assessed			CANOPY C	YIELD C	YIELD C	YIELD C	YIELD C	YIELD C
Assessment Date			Jun-28-2015	Oct-15-2015	Oct-15-2015	Oct-15-2015	Oct-15-2015	Oct-15-2015
Assessment Type			PERCEN	WEIGHT	MOICON	WEITES	YIELD	COMPRO
Assessment Unit			0-100	LB	%	LB	BU	DOLLAR
Sample Size, Unit			1 PLOT	80 ROWFT	80 ROWFT	80 ROWFT	1 A	1 A
Collection Basis, Unit			1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 A	1 A
Number of Subsamples			1	1	1	1	1	1
Days After First/Last Ap	plic.		99	118 118	118 118	118 118	118 118	118 118
Trt-Eval Interval			9 DA-A	118 DA-A	118 DA-A	118 DA-A	118 DA-A	118 DA-A
Plant-Eval Interval			39 DP-1	148 DP-1	148 DP-1	148 DP-1	148 DP-1	148 DP-1
ARM Action Codes							TY1	T2
Number of Decimals			2	2	2	2	2	2
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	7	8	9	10	11	12
1Buccaneer Plus	1qt/a	А	67.50a	53.28a	15.83a	66.10a	206.35a	758.84a
2Brandt Smart Trio	1qt/a	А	70.00a	52.53a	16.60a	60.93a	201.62a	741.45a
Buccaneer Plus	1qt/a	А						
3Albion B5	16fl oz/a	A	67.50a	55.84a	15.95a	64.23a	215.98a	794.27a
Buccaneer Plus	1qt/a	А						
4Albion B5	1qt/a	А	67.50a	53.26a	16.48a	60.70a	204.70a	752.79a
Buccaneer Plus	1qt/a	A						
LSD P=.05			3.999	5.157	1.255	5.678	19.358	71.188
Standard Deviation			2.500	3.224	0.785	3.550	12.103	44.507
CV			3.67	6.0	4.84	5.64	5.84	5.84
Bartlett's X2			0.542	5.74	9.159	6.723	7.146	7.146
P(Bartlett's X2)			0.91	0.125	0.027*	0.081	0.067	0.067
Skewness			0.4213	0.648	-1.5776*	2.0059*	0.3564	0.3564
Kurtosis			-0.4537	0.0771	3.4325*	5.2603*	-0.1223	-0.1223
Kultoolo			0.4007	0.0771	0.4020	0.2000	0.1220	0.1220
Replicate F			3.667	1.058	2.935	2.072	0.869	0.869
Replicate Prob(F)			0.0565	0.4138	0.0918	0.1743	0.4920	0.4920
Treatment F			1.000	0.4138	0.949	2.191	1.049	1.049
Treatment Prob(F)			0.4363	0.809	0.4573	0.1588	0.4172	0.4172
reatment FIOD(F)			0.4303	0.5199	0.4373	0.1300	0.4172	0.4172

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ARM 2014.7 AOV Means Table Page 4 of 4

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Pacific Agricultural Research

corn under field condition	f Albion B5 compared to Brandt Smart Trio when applied with glyphosate for weed control and yield enhanceme ons.	
Trial ID: ALB1502M Protocol ID: ALB1502M Project ID:	Location:Albion, MITrial Year:2015Investigator:Brian CortrightStudy Director:Brian CortrightSponsor Contact:Jeremy O'Brien	
Pest Type		
	WedStg = Weed or volunteer crop	
Pest Code CHEAL, Chenopodium al		
DIGSS, Digitaria sp., = L		
OXASS, Oxalis sp., = US		
SETSS, Setaria sp., = U		
AMBEL, Ambrosia artemi	sijolia. = US	
ERICA, Conyza canaden		
Crop Code		
ZEAMX, BCOR, Zea may	rs, = US	
Part Assessed		
CANOPY = canopy		
YIELD = yield		
C = Crop is Part Rated		
<u>Assessment Type</u> PERCEN = percent		
WEIGHT = weight		
MOICON = moisture conf	tent	
WEITES = weight - test		
YIELD = yield		
COMPRO = commercial	product, general	
Assessment Unit		
0-100 = 0-100 index/scale	3-percent	
LB = pound		
% = percent BU = bushel		
DOLLAR = dollar		
PLOT = total plot		
ROWFT = row-foot		
A = acre		
PLOT = total plot		
A = acre		
Plant-Eval Interval		
39 DP-1 = 1 ZEAMX May		
148 DP-1 = 1 ZEAMX Ma	ıy-20-2015	
ARM Action Codes		
TY1 = 3.889286*[C8]*(10	U-[C9])/84.5	
T2 = [C11]*3.6775		



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