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RESEARCH AND DEVELOPMENT PROJECT REPORT

Evaluation of the Efficacy of Different Rates of Albion B5 Compared to Brandt Smart Trio on Weed Control and Corn Yield Parameters

Trial ID: ALB1601M

Albion, MI – Michgan Ag Research Station

Prepared for:

Jeremy O'Brien / Albion Minerals

Prepared by:

Pacific Ag Research

June – October, 2016

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ABSTRACT

Objective: Evaluate the efficacy of different rates of Albion B5 compared to Brandt Smart Trio

on weed control and corn yield improvement.

Product(s) tested: Buccaneer Plus, Brandt Smart Trio, and Albion B5

Location: Albion, MI – Michigan Ag Research Station

Project Duration: June 2 (Planting) to October 18 (Harvest), 2016

Key Findings:

No phytotoxic effects observed on corn treated with any treatment

- Weed control was not significantly different among the treatments
- Yields were not significantly impacted by Albion B5 at either rate but higher than using just herbicide alone

Narrative:

Here we evaluate the efficacy of 0.5 and 1 qt/a rates of Albion B5 compared to Brandt Smart Trio on weed control and corn yield improvement. No phytotoxic effects observed for any product applied.

Weed control for green foxtail, velvetleaf, common lambsquarter and common ragweed were evaluated 9 and 24 DA-A. Control for each species was high, greater than 80% for velvetleaf and >90% for foxtail. At 9 DA-A, lambsquarter control was numerically higher (91%) on the untreated plots and lowest on the plots treated with the low rate of Albion B5 (71%, P=0.22). By 24 DA-A, lambsquarter control was above 91% for all treatments.

Corn was harvested mid-October and total yields were calculated in bushels/acre, with an average of 145 from all plots. No treatments significantly improved or reduced yields compared to the untreated check though the Albion product had higher yields.

MATERIALS AND METHODS

Treatments:

This study consisted of four treatments with applications on July 1 (A), and July 19 (B), 2016.

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

Experimental Unit:

This trial was conducted on DRC-46-18 variety corn in a field. Plants were spaced 30 inches apart, and the field had a planting density of 32,000 plants per acre. Plots were 10 feet by 40 feet, and four treatments were replicated four times in a randomized complete block design for a total experiment size of 6,400 square-feet. The soil had a pH of 5.9, a cation exchange capacity of 3.70 meq/100g soil, and 1.7% organic matter. The soil texture consisted of 54% sand, 28% silt, and 18% clay particles.

Pest Description:

Green foxtail (*Staria viridis*), common lambsquarter (*Chenopodium album*), velvetleaf (*Abutilon theophrasti*), and Common Ragweed (*Ambrosia artemisiifolia*) were occurring naturally in the field.

Application Equipment:

Two foliar spray applications were made with a CO2 pressurized sprayer equipped with a four flat fan XR8002 nozzle boom operating at 23 PSI. Each treatment had a spray volume of 20 gallons per acre and a mix size of 3 liters.

Evaluations:

The number of weeds per two square feet was counted to determine the weed density on July 1 (9DA-A), 2016.

The control of weed species was evaluated on a scale of 0 to 100 percent where 0% indicates no weed control and 100% indicates no evidence of that species of weed on July 1 (9DA-A) and July 16 (24 DA-A), 2016.

Phytotoxicity was evaluated on a scale 0 to 100 percent where 0% indicates a healthy plant and 100% indicates a plant that has died from chemical spray on July 16 (24 DA-A), 2016.

Corn was harvested, weighed in pounds, tested for percent moisture, and busheled and weighed for a test weight on October 18 (91 DA-B), 2016.

RESULTS

Table 1. Phytotoxicity (%). Phytotoxicity was evaluated on a scale 0 to 100 percent where 0% indicates a healthy plant and 100% indicates a plant that has died from chemical spray on July 16 (24 DA-A), 2016.

Phytotoxicity (%)

Trt	Treatment		Rate	Appl	07/16/16
No.	Name	Rate	Unit	Code	24 DA-A
1	Buccaneer Plus	1	qt/a	Α	0.0% a
2	Brandt Smart Trio	1	qt/a	AB	0.0% a
	Buccaneer Plus	1	qt/a	Α	
3	Albion B5	16	fl oz/a	AB	0.0% a
	Buccaneer Plus	1	qt/a	Α	
4	Albion B5	1	qt/a	AB	0.0% a
	Buccaneer Plus	1	qt/a	Α	

Table 2. Green Foxtail Control (%). The control of green foxtails was evaluated on a scale of 0 to 100 percent where 0% indicates no weed control and 100% indicates no evidence of green foxtail on July 1 (9DA-A) and July 16 (24 DA-A), 2016.

Green Foxtail Control (%)

010	cit i oxtail conti oi (70)				
Trt	Treatment	R	ate Appl	07/01/16	07/16/16
No.	Name	Rate U	nit Code	9 DA-A	24 DA-A
1	Buccaneer Plus	1 qt/	a A	100.0% a	100.0% a
2	Brandt Smart Trio	1 qt/	a AB	87.5% a	95.0% a
	Buccaneer Plus	1 qt/	a A		
3	Albion B5	16 fl c	z/a AB	92.5% a	100.0% a
	Buccaneer Plus	1 qt/	a A		
4	Albion B5	1 qt/	a AB	95.0% a	96.3% a
	Buccaneer Plus	1 qt/	a A		

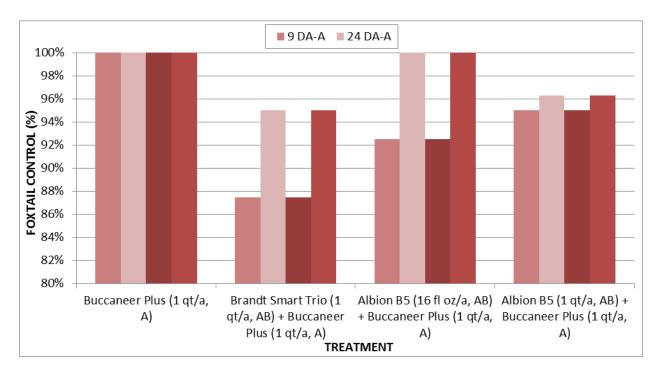


Chart 2. Green Foxtail Control (%). The control of green foxtails was evaluated on a scale of 0 to 100 percent where 0% indicates no weed control and 100% indicates no evidence of green foxtail on July 1 (9DA-A) and July 16 (24 DA-A), 2016.

Table 3. Common Lambsquarter Control (%). The control of common lambsquarter was evaluated on a scale of 0 to 100 percent where 0% indicates no weed control and 100% indicates no evidence of that weed on July 1 (9DA-A) and July 16 (24 DA-A), 2016.

Common Lambsquarter Control (%)

Trt	Treatment		Rate	Appl	07/01/16	07/16/16
No.	Name	Rate	Unit	Code	9 DA-A	24 DA-A
1	Buccaneer Plus	1	qt/a	Α	91.3% a	97.0% a
2	Brandt Smart Trio	1	qt/a	AB	80.0% a	93.8% a
	Buccaneer Plus	1	qt/a	Α		
3	Albion B5	16	fl oz/a	AB	71.3% a	93.8% a
	Buccaneer Plus	1	qt/a	Α		
4	Albion B5	1	qt/a	AB	75.0% a	91.3% a
	Buccaneer Plus	1	qt/a	Α		

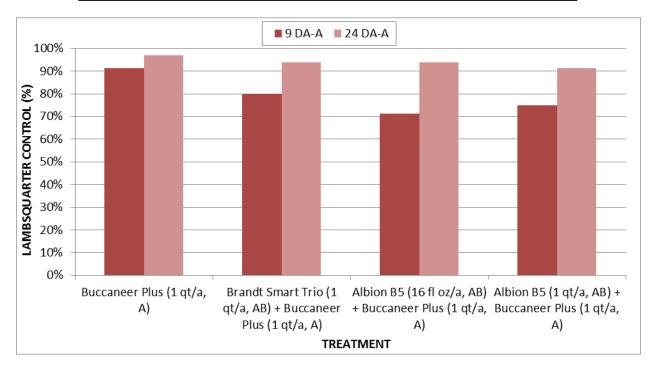


Chart 3. Common Lambsquarter Control (%). The control of common lambsquarter was evaluated on a scale of 0 to 100 percent where 0% indicates no weed control and 100% indicates no evidence of that weed on July 1 (9DA-A) and July 16 (24 DA-A), 2016.

Table 4. Velvetleaf Control (%). The control of velvetleaf was evaluated on a scale of 0 to 100 percent where 0% indicates no weed control and 100% indicates no evidence of that weed on July 1 (9DA-A) and July 16 (24 DA-A), 2016.

Velvetleaf Control (%)

Trt	Treatment		Rate	Appl	07/01/16	07/16/16
No.	Name	Rate	Unit	Code	9 DA-A	24 DA-A
1	Buccaneer Plus	1	qt/a	Α	88.8% a	98.8% a
2	Brandt Smart Trio	1	qt/a	AB	82.5% a	95.0% a
	Buccaneer Plus	1	qt/a	Α		
3	Albion B5	16	fl oz/a	AB	81.3% a	100.0% a
	Buccaneer Plus	1	qt/a	Α		
4	Albion B5	1	qt/a	AB	88.8% a	100.0% a
	Buccaneer Plus	1	qt/a	Α		

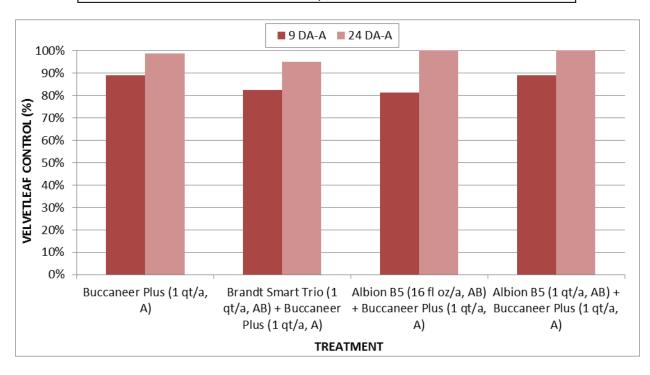


Chart 4. Velvetleaf Control (%). The control of velvetleaf was evaluated on a scale of 0 to 100 percent where 0% indicates no weed control and 100% indicates no evidence of that weed on July 1 (9DA-A) and July 16 (24 DA-A), 2016.

Table 5. Weed Density. The number of weeds per two square feet was counted to determine the weed density on July 1 (9DA-A), 2016. No replication.

Weed Density, July 1, 2016 (9 DA-A) (plant/ft2)

Trt	Treatment		Rate	Appl	Giant Green	Common	Velvetleaf
No.	Name	Rate	Unit	Code	Foxtail	Lambsquarter	vervetiear
1	Buccaneer Plus	1	qt/a	Α	5.0	19.0	5.0
2	Brandt Smart Trio	1	qt/a	AB	15.0	48.0	3.0
	Buccaneer Plus	1	qt/a	Α			
3	Albion B5	16	fl oz/a	AB	6.0	19.0	5.0
	Buccaneer Plus	1	qt/a	Α			
4	Albion B5	1	qt/a	AB	6.0	14.0	2.0
	Buccaneer Plus	1	qt/a	Α			

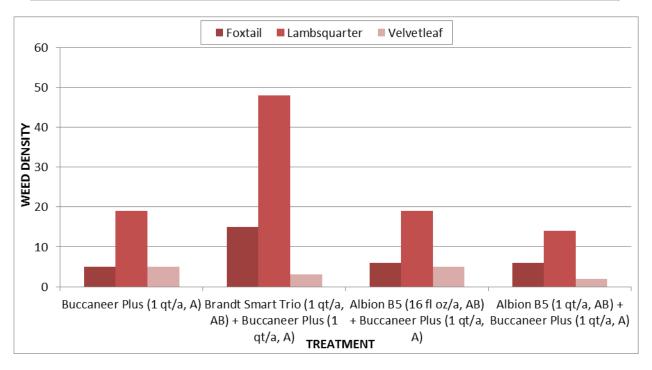


Chart 5. Weed Density. The number of weeds per two square feet was counted to determine the weed density on July 1 (9DA-A), 2016.

Table 6. Yield Weight. Corn was harvested on October 19 (91 DA-B), 2016. Yield weight per plot, in pounds was recorded.

Trt	Treatment	Rat	e Appl	10/18/16
No.	Name	Rate Un	it Code	91 DA-B
1	Buccaneer Plus	1 qt/a	Α	39.15 a
2	Brandt Smart Trio	1 qt/a	AB	36.09 a
	Buccaneer Plus	1 qt/a	Α	
3	Albion B5	16 fl oz	/a AB	39.81 a
	Buccaneer Plus	1 qt/a	Α	
4	Albion B5	1 qt/a	AB	39.91 a
	Buccaneer Plus	1 qt/a	Α	

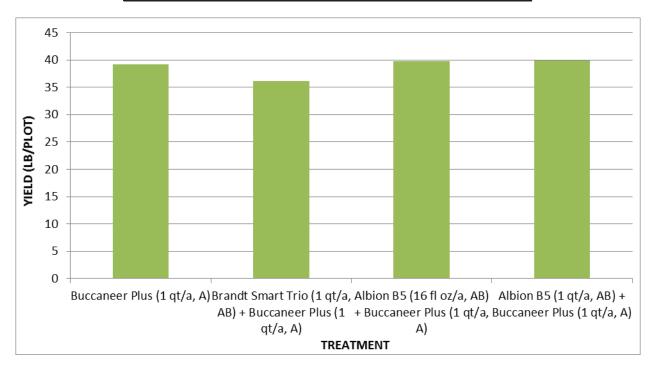


Chart 6. Yield Weight. Corn was harvested on October 19 (91 DA-B), 2016. Yield weight per plot, in pounds was recorded.

Table 7. Moisture Content. Moisture content for corn samples from each plot were taken at harvest.

Trt	Treatment	Rate	Appl	10/18/16
No.	Name	Rate Unit	Code	91 DA-B
1	Buccaneer Plus	1 qt/a	Α	18.7% a
2	Brandt Smart Trio	1 qt/a	AB	18.9% a
	Buccaneer Plus	1 qt/a	Α	
3	Albion B5	16 fl oz/a	AB	18.8% a
	Buccaneer Plus	1 qt/a	Α	
4	Albion B5	1 qt/a	AB	18.6% a
	Buccaneer Plus	1 qt/a	Α	

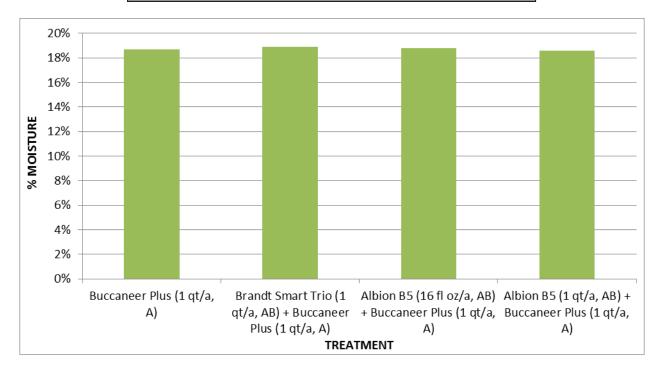


Chart 7. Moisture Content. Moisture content for corn samples from each plot were taken at harvest.

Table 8. Test Weight (Lbs/Bushel). The test weight (in pounds/bushel) of corn at harvest was recorded for each plot

Trt	Treatment	Rate	Appl	10/18/16
No.	Name	Rate Unit	Code	91 DA-B
1	Buccaneer Plus	1 qt/a	Α	57.3 a
2	Brandt Smart Trio	1 qt/a	AB	56.5 a
	Buccaneer Plus	1 qt/a	Α	
3	Albion B5	16 fl oz/a	AB	57.0 a
	Buccaneer Plus	1 qt/a	Α	
4	Albion B5	1 qt/a	AB	57.2 a
	Buccaneer Plus	1 qt/a	Α	

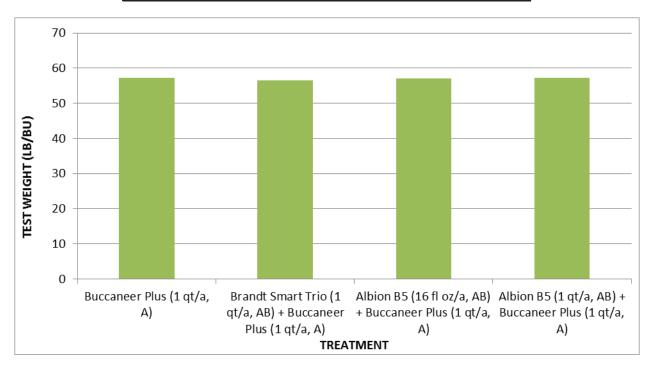


Chart 8. Test Weight (Lbs/Bushel). The test weight (in pounds/bushel) of corn at harvest was recorded for each plot

Table 9. Moisture-Adjusted Bushels per Acre. An estimate of the number of bushels per acre was adjusted to 15.5% moisture content for corn.

Yield (Bu/Ac)

Trt Treatment		Rate	Appl	10/18/16
No. Name	Rate	Unit	Code	91 DA-B
1 Buccaneer Pl	us 1	qt/a	Α	146.57 a
2 Brandt Smart	Trio 1	qt/a	AB	134.86 a
Buccaneer Pl	us 1	qt/a	Α	
3 Albion B5	16	fl oz/a	AB	148.82 a
Buccaneer Pl	us 1	qt/a	Α	
4 Albion B5	1	qt/a	AB	149.97 a
Buccaneer Pl	us 1	qt/a	Α	

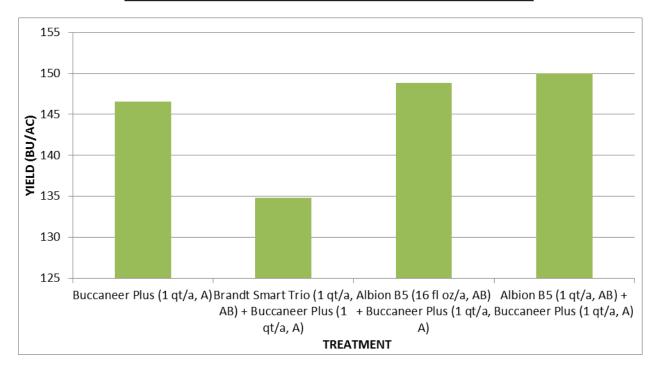


Chart 9. Moisture-Adjusted Bushels per Acre. An estimate of the number of bushels per acre was adjusted to 15.5% moisture content for corn.

Table 10. Estimated Gross Returns (\$/Ac). The estimated gross return per acre was based on a market price of \$3.50 per bushel of corn as listed by QuoteCorn.com for November 1, 2016 and the number of bushels harvested per acre on October 18 (91 DA-B).

Estimated Gross Returns (\$/Ac)

Trt	Treatment		Rate	Appl	ESTIMA	ΓED
No.	Name	Rate	Unit	Code	\$/ACRE	
1	Buccaneer Plus	1	qt/a	Α	\$512.98	а
2	Brandt Smart Trio	1	qt/a	AB	\$472.01	а
	Buccaneer Plus	1	qt/a	Α		
3	Albion B5	16	fl oz/a	AB	\$520.87	а
	Buccaneer Plus	1	qt/a	Α		
4	Albion B5	1	qt/a	AB	\$524.89	а
	Buccaneer Plus	1	qt/a	Α		

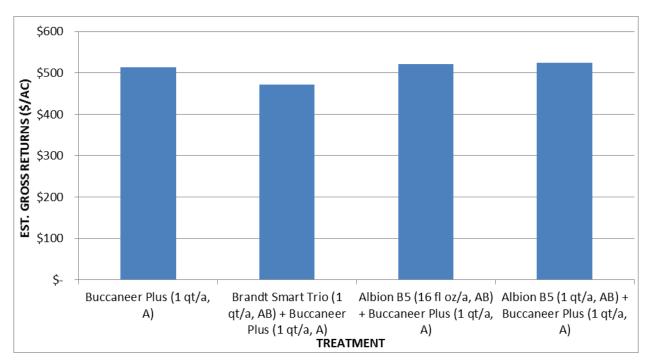


Chart 10. Estimated Gross Returns (\$/Ac). The estimated gross return per acre was based on a market price of \$3.50 per bushel of corn as listed by QuoteCorn.com for November 1, 2016 and the number of bushels harvested per acre on October 18 (91 DA-B).

TRIAL INFORMATION SHEET

Trial Setup Info:

Trial ID:	ALB1601M	Statistical Design:	RCBD
Discipline:	Fertilizer/Weed	Location:	Albion Block 4
Principal Investigator:	Brian Cortright	Plot Width:	10 Feet
Client Contact:	Jeremy O'Brien	Plot Length:	40 Feet
Grower:	Michigan Ag Research	Irrigation Method:	Drip Line
# Treatments:	4	Soil pH:	5.9
# Replicates:	4	Soil CEC:	3.70
Trial Initiation Date:	6/2/2016	Soil % OM:	1.7%
Trial End Date:	10/18/2016	Soil % Sand, Silt, Clay:	54%, 28%, 18%

Objective:

Evaluation of the efficacy of different rates of Albion B5 compared to Brandt Smart Trio on weed control and corn yield improvement.

Crop and Pest Info:

Crop:	Field Corn	Pest(s):	Green Foxtail
Variety:	DRC-46-18		Setaria viridis
Planting Date:	6/2/2016		Common Lambsquarter
Planting Method:	Planter		Chenopodium album
Planting Equipment:	JD7000		Velvetleaf
Row Spacing:	30 Inches		Abutilon theophrasti
Harvested Area:	200 FT2		Common Ragweed
Planting Density:	32,000 Plants / Acre		Ambrosia artemisiifolia.

Evaluations:

Weed Evaluations:	7/1, 7/16
Harvest:	10/18

Applications:

A - 07/01/16:	Foliar Spray; 23 PSI; 20 GPA; 3 Liters
B - 07/19/16:	Foliar Spray; 23 PSI; 20 GPA; 3 Liters

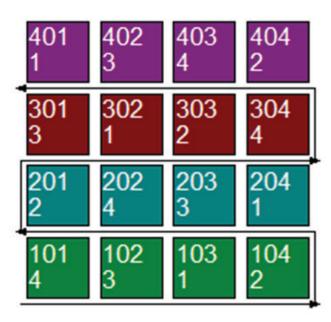
Two foliar spray applications were made with a CO2 pressurized sprayer equipped with a four flat fan XR8002 nozzle boom operating at 23 PSI. Each treatment had a spray volume of 20 gallons per acre and a mix size of 3 liters.

TREATMENT LIST

Reps: 4 Plots: 10 by 40 feet
Spray vol: 20 GAL/AC Mix Size: 3 liters (3.476 liters calculated mix size)

Trt	Treatment	Form		Rate	Appl	Spray	Volume	Mix	Mix	Amt Product		Re	p	
No.	Name	Туре	Rate	Unit	Code	Volume	Unit	Size	Unit	to Measure	1	2	3	4
1	. Buccaneer Plus	EC	1	qt/a	Α	20	GAL/AC	3	liters	37.5 ml/mx	103	204	302	401
2	Brandt Smart Trio	L	1	qt/a	AB	20	GAL/AC	3	liters	37.5 ml/mx	104	201	303	404
	Buccaneer Plus	EC	1	qt/a	Α	20	GAL/AC	3	liters	37.5 ml/mx				
3	Albion B5	L	16	fl oz/a	AB	20	GAL/AC	3	liters	18.75 ml/mx	102	203	301	402
	Buccaneer Plus	EC	1	qt/a	Α	20	GAL/AC	3	liters	37.5 ml/mx				
4	Albion B5	L	1	qt/a	AB	20	GAL/AC	3	liters	37.5 ml/mx	101	202	304	403
	Buccaneer Plus	EC	1	qt/a	Α	20	GAL/AC	3	liters	37.5 ml/mx				

PLOT MAP



APPENDIX A: DAILY METEROLOGICAL SUMMARY

ALBION, CA
MAWN ALBION STATION, 8 MILES AWAY

		Cumul.	Max Air	Min Air	Avg Air	Max	Min	Avg	Max Wind
Date	Precip. (in)	Precip. (in)	Temp (F)	Temp (F)	Temp (F)	RH (%)	RH (%)	RH (%)	Speed (MPH)
06/28/16	0.00	0.00	66.9	53.2	60.1	91.4	55.0	73.2	13.5
06/29/16	0.00	0.00	81.0	46.2	63.6	94.9	20.5	57.7	18.6
06/30/16	0.00	0.00	81.4	40.2	64.7	93.8	24.7	59.3	11.5
07/01/16	0.47	0.00	75.6	54.9	65.3	94.3	34.7	64.5	17.9
07/01/16	0.47	0.47	73.0 77.5	49.2	63.4	94.3	28.4	61.4	9.5
07/02/16	0.00	0.47	77.5 78.5	50.0	64.3	94.4	24.5	59.5	9.5
07/03/16	0.00	0.47	78.3 79.7	53.2	66.5	90.9	51.3	71.1	11.2
07/04/16	0.00	0.47	84.7	63.3	74.0	94.5	42.2	68.4	13.9
	0.00	0.47		63.5					
07/06/16			87.5		75.5	93.9	37.0	65.5	12.5
07/07/16	0.10	0.57	88.8	64.6	76.7	93.7	45.2	69.5	11.5
07/08/16	1.45	2.02	86.7	65.7	76.2	95.3	35.5	65.4	17.2
07/09/16	0.00	2.02	78.4	61.4	69.9	89.6	47.8	68.7	15.9
07/10/16	0.00	2.02	83.1	55.9	69.5	95.0	32.4	63.7	8.2
07/11/16	0.06	2.08	87.6	63.5	75.6	87.7	44.2	66.0	8.8
07/12/16	0.01	2.09	90.6	65.4	78.0	91.7	39.5	65.6	14.5
07/13/16	0.05	2.14	88.0	68.2	78.1	94.2	51.1	72.7	12.2
07/14/16	0.00	2.14	86.1	67.0	76.6	90.9	32.6	61.8	16.9
07/15/16	0.00	2.14	77.2	60.7	69.0	92.6	52.5	72.6	13.9
07/16/16	0.00	2.14	78.7	57.6	68.2	90.2	34.5	62.4	9.5
07/17/16	0.00	2.14	84.9	52.2	68.6	95.1	48.3	71.7	15.5
07/18/16	0.22	2.36	85.9	64.5	75.2	94.7	32.9	63.8	18.9
07/19/16	0.00	2.36	88.5	58.6	73.6	95.1	32.2	63.7	10.2
07/20/16	0.00	2.36	90.1	60.1	75.1	93.3	32.4	62.9	9.5
07/21/16	0.47	2.83	89.1	65.0	77.1	94.7	52.5	73.6	21.6
07/22/16	0.00	2.83	90.6	71.7	81.2	93.4	48.4	70.9	11.2
07/23/16	0.00	2.83	92.9	63.9	78.4	95.6	28.9	62.3	7.5
07/24/16	0.78	3.61	85.4	67.6	76.5	95.2	69.1	82.2	15.9
07/25/16	0.01	3.62	88.4	68.3	78.4	91.3	38.0	64.7	11.5
07/26/16	0.00	3.62	87.4	60.1	73.8	95.7	31.4	63.6	8.2
07/27/16	0.00	3.62	88.5	62.1	75.3	95.8	34.1	65.0	13.9
07/28/16	0.00	3.62	86.8	61.8	74.3	94.7	45.2	70.0	11.5
07/29/16	0.14	3.76	79.8	64.7	72.3	91.9	62.1	77.0	11.9
07/30/16	0.53	4.29	76.6	61.9	69.3	94.9	64.8	79.9	11.2
07/31/16	0.00	4.29	81.2	63.8	72.5	93.7	53.8	73.8	8.8
08/01/16	0.00	4.29	85.6	58.7	72.2	95.7	33.7	64.7	8.5
08/02/16	0.00	4.29	88.6	60.1	74.4	95.5	36.6	66.1	9.5
08/03/16	0.00	4.29	91.3	62.3	76.8	95.6	34.9	65.3	6.5
08/04/16	0.00	4.29	91.2	63.1	77.2	94.4	30.7	62.6	7.8
08/05/16	0.00	4.29	86.1	64.8	75.5	93.9	53.5	73.7	13.5
08/06/16	0.00	4.29	83.9	58.1	71.0	95.7	33.0	64.4	11.2

08/07/16 0.00	ı									
08/09/16 0.00 4.29 87.8 56.1 72.0 91.6 44.5 68.1 7.2 08/10/16 0.00 4.29 92.5 62.7 77.6 95.5 31.7 63.6 7.5 08/11/16 0.30 4.64 93.2 72.8 83.0 95.0 47.0 71.0 14.2 08/14/16 0.80 5.44 85.1 69.4 77.3 95.6 62.2 78.9 13.2 08/14/16 0.00 5.44 81.7 65.0 73.4 95.5 55.8 75.7 7.2 08/15/16 1.75 7.19 79.6 63.1 71.4 95.6 63.3 79.5 95.5 08/16/16 0.11 9.51 83.7 63.1 73.4 95.7 54.5 75.1 16.2 08/17/16 0.11 9.51 82.8 59.3 71.1 95.7 54.5 75.1 16.2 08/20/16 0.00 9.51 81.0	08/07/16	0.00	4.29	83.7	55.5	69.6	95.5	32.1	63.8	11.5
08/10/16 0.00 4.29 92.5 62.7 77.6 95.5 31.7 63.6 7.5 08/11/16 0.00 4.29 93.3 71.3 82.3 91.5 42.0 66.8 12.9 08/12/16 0.80 5.44 81.7 65.0 73.4 95.5 55.8 75.7 7.2 08/14/16 0.00 5.44 81.7 65.0 73.4 95.5 55.8 75.7 7.2 08/15/16 1.75 7.19 79.6 63.1 71.4 95.6 63.3 79.5 95.5 08/15/16 0.11 95.1 83.7 63.1 73.4 95.7 54.5 75.1 17.6 08/11/16 0.00 9.51 82.8 59.3 71.1 95.7 54.3 75.0 75.2 08/19/16 0.00 9.64 73.6 58.2 73.1 95.4 59.6 77.5 98. 08/20/16 0.03 9.64 76.8	08/08/16	0.00	4.29	85.7	54.6	70.2	94.0	23.6	58.8	13.9
08/11/16 0.00 4.29 93.3 71.3 82.3 91.5 42.0 66.8 12.9 08/12/16 0.35 4.64 93.2 72.8 83.0 95.0 47.0 71.0 14.2 08/13/16 0.80 5.44 85.1 69.4 77.3 95.6 62.2 78.9 13.2 08/15/16 0.00 5.44 81.7 65.0 73.4 95.5 55.8 75.7 7.2 08/15/16 1.75 7.19 79.6 63.1 71.4 95.6 63.3 79.5 9.5 08/15/16 0.21 9.40 84.1 66.6 75.4 95.6 48.1 71.9 17.6 08/17/16 0.11 9.51 82.8 59.3 71.1 95.7 54.3 75.1 16.2 08/29/16 0.01 9.51 82.8 59.3 71.1 95.7 54.3 75.1 16.2 08/21/16 0.00 9.64 76.8	08/09/16	0.00	4.29	87.8	56.1	72.0	91.6	44.5	68.1	7.2
08/12/16 0.35 4.64 93.2 72.8 83.0 95.0 47.0 71.0 14.2 08/13/16 0.80 5.44 85.1 69.4 77.3 95.6 62.2 78.9 13.2 08/15/16 0.00 5.44 81.7 65.0 73.4 95.5 55.8 75.7 7.2 08/16/16 2.21 9.40 84.1 66.6 75.4 95.6 48.1 71.9 17.6 08/16/16 0.21 9.51 83.7 63.1 73.4 95.7 54.5 75.1 16.2 08/16/16 0.01 9.51 83.7 63.1 73.4 95.6 48.1 71.9 17.6 08/17/16 0.00 9.51 83.7 63.1 73.1 95.6 67.5 75.1 16.2 08/21/16 0.00 9.64 73.6 58.2 65.9 94.2 50.2 72.2 13.5 08/23/16 0.00 9.64 73.6	08/10/16	0.00	4.29	92.5	62.7	77.6	95.5	31.7	63.6	7.5
08/13/16 0.80 5.44 85.1 69.4 77.3 95.6 62.2 78.9 13.2 08/14/16 0.00 5.44 81.7 65.0 73.4 95.5 55.8 75.7 7.2 08/15/16 1.75 7.19 79.6 63.1 71.4 95.6 63.3 79.5 9.5 08/15/16 0.01 9.51 83.7 63.1 73.4 95.7 54.3 75.0 7.2 08/18/16 0.00 9.51 81.0 65.2 73.1 95.6 64.0 77.5 9.8 08/20/16 0.03 9.64 80.2 64.8 72.5 95.6 64.0 79.8 15.9 08/21/16 0.00 9.64 73.6 58.2 65.9 94.2 50.2 72.2 13.5 08/22/16 0.00 9.64 76.8 52.1 64.5 95.9 36.1 66.0 8.5 08/23/16 0.00 9.65 81.1	08/11/16	0.00	4.29	93.3	71.3	82.3	91.5	42.0	66.8	12.9
08/14/16 0.00 5.44 81.7 65.0 73.4 95.5 55.8 75.7 7.2 08/15/16 1.75 7.19 79.6 63.1 71.4 95.6 63.3 79.5 95.5 08/16/16 2.21 9.40 84.1 66.6 75.4 95.6 48.1 71.9 17.6 08/17/16 0.11 9.51 83.7 63.1 73.4 95.7 54.3 75.1 16.2 08/19/16 0.00 9.51 81.0 65.2 73.1 95.4 59.6 77.5 9.8 08/20/16 0.13 9.64 80.2 64.8 72.5 95.6 64.0 79.8 15.9 08/21/16 0.00 9.64 76.8 52.1 64.5 95.9 36.1 66.0 8.5 08/23/16 0.00 9.64 80.5 53.9 67.2 95.8 45.0 70.4 9.5 08/24/16 0.01 9.65 81.1	08/12/16	0.35	4.64	93.2	72.8	83.0	95.0	47.0	71.0	14.2
08/15/16 1.75 7.19 79.6 63.1 71.4 95.6 63.3 79.5 9.5 08/16/16 2.21 9.40 84.1 66.6 75.4 95.6 48.1 71.9 17.6 08/11/16 0.11 9.51 83.7 63.1 73.4 95.7 54.5 75.1 16.2 08/18/16 0.00 9.51 81.0 65.2 73.1 95.7 54.3 75.0 7.2 08/20/16 0.13 9.64 80.2 64.8 72.5 95.6 64.0 79.8 15.9 08/21/16 0.00 9.64 73.6 58.2 65.9 94.2 50.2 72.2 13.5 08/22/16 0.00 9.64 76.8 52.1 64.5 95.9 36.1 66.0 8.5 08/23/16 0.00 9.65 81.1 58.9 70.0 95.0 66.2 80.6 12.5 08/25/16 0.00 9.65 82.4	08/13/16	0.80	5.44	85.1	69.4	77.3	95.6	62.2	78.9	13.2
08/16/16 2.21 9.40 84.1 66.6 75.4 95.6 48.1 71.9 17.6 08/17/16 0.11 9.51 83.7 63.1 73.4 95.7 54.5 75.1 16.2 08/18/16 0.00 9.51 81.0 65.2 73.1 95.4 59.6 77.5 9.8 08/20/16 0.00 9.64 80.2 64.8 72.5 95.6 64.0 77.9 8 15.9 08/21/16 0.00 9.64 73.6 58.2 65.9 94.2 50.2 72.2 13.5 08/22/16 0.00 9.64 76.8 52.1 64.5 95.9 36.1 66.0 8.5 08/23/16 0.00 9.65 81.1 58.9 70.0 95.0 66.2 80.6 14.5 08/24/16 0.01 9.65 82.4 63.2 72.8 95.7 61.4 78.6 12.5 08/27/16 0.84 10.49	08/14/16	0.00	5.44	81.7	65.0	73.4	95.5	55.8	75.7	7.2
08/17/16 0.11 9.51 83.7 63.1 73.4 95.7 54.5 75.1 16.2 08/18/16 0.00 9.51 82.8 59.3 71.1 95.7 54.3 75.0 7.2 08/19/16 0.00 9.51 81.0 65.2 73.1 95.4 59.6 77.5 9.8 08/20/16 0.13 9.64 80.2 64.8 72.5 95.6 64.0 79.8 15.9 08/21/16 0.00 9.64 73.6 58.2 65.9 94.2 50.2 72.2 13.5 08/23/16 0.00 9.64 80.5 53.9 67.2 95.8 45.0 70.4 9.5 08/24/16 0.01 9.65 81.1 58.9 70.0 95.0 66.2 80.6 14.5 08/25/16 0.00 9.65 85.6 57.8 71.7 95.3 46.1 78.6 12.5 08/27/16 0.84 10.49 77.8	08/15/16	1.75	7.19	79.6	63.1	71.4	95.6	63.3	79.5	9.5
08/18/16 0.00 9.51 82.8 59.3 71.1 95.7 54.3 75.0 7.2 08/19/16 0.00 9.51 81.0 65.2 73.1 95.4 59.6 77.5 9.8 08/20/16 0.00 9.64 73.6 58.2 65.9 94.2 50.2 72.2 13.5 08/23/16 0.00 9.64 76.8 52.1 64.5 95.9 36.1 66.0 8.5 08/23/16 0.00 9.64 80.5 53.9 67.2 95.8 45.0 70.4 9.5 08/24/16 0.01 9.65 81.1 58.9 70.0 95.0 66.2 80.6 14.5 08/25/16 0.00 9.65 82.4 63.2 72.8 95.7 61.4 78.6 12.5 08/25/16 0.00 9.65 85.6 57.8 71.7 95.9 41.1 68.5 7.8 08/27/16 0.00 10.49 87.4	08/16/16	2.21	9.40	84.1	66.6	75.4	95.6	48.1	71.9	17.6
08/19/16 0.00 9.51 81.0 65.2 73.1 95.4 59.6 77.5 9.8 08/20/16 0.13 9.64 80.2 64.8 72.5 95.6 64.0 79.8 15.9 08/21/16 0.00 9.64 73.6 58.2 65.9 94.2 50.2 72.2 13.5 08/22/16 0.00 9.64 76.8 52.1 64.5 95.9 36.1 66.0 8.5 08/23/16 0.00 9.65 81.1 58.9 70.0 95.0 66.2 80.6 14.5 08/24/16 0.00 9.65 82.4 63.2 72.8 95.7 61.4 78.6 12.5 08/26/16 0.00 9.65 85.6 57.8 71.7 95.9 41.1 68.5 7.8 08/27/16 0.84 10.49 77.8 64.6 71.2 95.3 66.7 81.0 10.8 08/29/16 0.00 10.49 84.9	08/17/16	0.11	9.51	83.7	63.1	73.4	95.7	54.5	75.1	16.2
08/20/16 0.13 9.64 80.2 64.8 72.5 95.6 64.0 79.8 15.9 08/21/16 0.00 9.64 73.6 58.2 65.9 94.2 50.2 72.2 13.5 08/22/16 0.00 9.64 76.8 52.1 64.5 95.9 36.1 66.0 8.5 08/23/16 0.00 9.64 80.5 53.9 67.2 95.8 45.0 70.4 9.5 08/24/16 0.01 9.65 81.1 58.9 70.0 95.0 66.2 80.6 14.5 08/25/16 0.00 9.65 82.4 63.2 72.8 95.7 61.4 78.6 12.5 08/26/16 0.00 10.49 87.4 67.6 77.5 95.6 50.3 73.0 8.8 08/28/16 0.00 10.49 87.4 67.6 77.5 95.6 50.3 73.0 8.8 08/29/16 0.00 10.49 84.9	08/18/16	0.00	9.51	82.8	59.3	71.1	95.7	54.3	75.0	7.2
08/21/16 0.00 9.64 73.6 58.2 65.9 94.2 50.2 72.2 13.5 08/22/16 0.00 9.64 76.8 52.1 64.5 95.9 36.1 66.0 8.5 08/23/16 0.00 9.64 80.5 53.9 67.2 95.8 45.0 70.4 9.5 08/24/16 0.01 9.65 81.1 58.9 70.0 95.0 66.2 80.6 14.5 08/25/16 0.00 9.65 82.4 63.2 72.8 95.7 61.4 78.6 12.5 08/26/16 0.00 10.49 87.4 67.6 77.2 95.3 66.7 81.0 10.8 08/29/16 0.00 10.49 87.4 67.6 77.5 95.6 50.3 73.0 8.8 08/30/16 0.00 10.49 82.8 64.6 73.7 94.3 57.0 75.7 9.5 08/31/16 0.00 10.49 74.8	08/19/16	0.00	9.51	81.0	65.2	73.1	95.4	59.6	77.5	9.8
08/22/16 0.00 9.64 76.8 52.1 64.5 95.9 36.1 66.0 8.5 08/23/16 0.00 9.64 80.5 53.9 67.2 95.8 45.0 70.4 9.5 08/24/16 0.01 9.65 81.1 58.9 70.0 95.0 66.2 80.6 14.5 08/25/16 0.00 9.65 82.4 63.2 72.8 95.7 61.4 78.6 12.5 08/26/16 0.00 9.65 85.6 57.8 71.7 95.9 41.1 68.5 7.8 08/27/16 0.84 10.49 77.8 64.6 71.2 95.3 66.7 81.0 10.8 08/28/16 0.00 10.49 87.4 67.6 77.5 95.6 50.3 73.0 8.8 08/29/16 0.00 10.49 82.8 64.6 73.7 94.3 57.0 75.7 9.5 08/31/16 0.00 10.49 78.6	08/20/16	0.13	9.64	80.2	64.8	72.5	95.6	64.0	79.8	15.9
08/23/16 0.00 9.64 80.5 53.9 67.2 95.8 45.0 70.4 9.5 08/24/16 0.01 9.65 81.1 58.9 70.0 95.0 66.2 80.6 14.5 08/25/16 0.00 9.65 82.4 63.2 72.8 95.7 61.4 78.6 12.5 08/26/16 0.00 9.65 85.6 57.8 71.7 95.9 41.1 68.5 7.8 08/27/16 0.84 10.49 77.8 64.6 71.2 95.3 66.7 81.0 10.8 08/29/16 0.00 10.49 84.9 63.1 74.0 95.7 46.8 71.3 8.5 08/30/16 0.00 10.49 82.8 64.6 73.7 94.3 57.0 75.7 9.5 08/31/16 0.00 10.49 78.6 59.4 69.0 94.9 50.8 72.9 13.2 09/02/16 0.00 10.49 75.9 <td>08/21/16</td> <td>0.00</td> <td>9.64</td> <td>73.6</td> <td>58.2</td> <td>65.9</td> <td>94.2</td> <td>50.2</td> <td>72.2</td> <td>13.5</td>	08/21/16	0.00	9.64	73.6	58.2	65.9	94.2	50.2	72.2	13.5
08/24/16 0.01 9.65 81.1 58.9 70.0 95.0 66.2 80.6 14.5 08/25/16 0.00 9.65 82.4 63.2 72.8 95.7 61.4 78.6 12.5 08/26/16 0.00 9.65 85.6 57.8 71.7 95.9 41.1 68.5 7.8 08/27/16 0.84 10.49 77.8 64.6 71.2 95.3 66.7 81.0 10.8 08/28/16 0.00 10.49 84.9 63.1 74.0 95.7 46.8 71.3 8.5 08/30/16 0.00 10.49 82.8 64.6 73.7 94.3 57.0 75.7 9.5 08/31/16 0.00 10.49 78.6 59.4 69.0 94.9 50.8 72.9 13.2 09/01/16 0.00 10.49 74.8 55.3 65.1 91.9 41.0 66.5 14.9 09/03/16 0.00 10.49 78.6 </td <td>08/22/16</td> <td>0.00</td> <td>9.64</td> <td>76.8</td> <td>52.1</td> <td>64.5</td> <td>95.9</td> <td>36.1</td> <td>66.0</td> <td>8.5</td>	08/22/16	0.00	9.64	76.8	52.1	64.5	95.9	36.1	66.0	8.5
08/25/16 0.00 9.65 82.4 63.2 72.8 95.7 61.4 78.6 12.5 08/26/16 0.00 9.65 85.6 57.8 71.7 95.9 41.1 68.5 7.8 08/27/16 0.84 10.49 77.8 64.6 71.2 95.3 66.7 81.0 10.8 08/28/16 0.00 10.49 87.4 67.6 77.5 95.6 50.3 73.0 8.8 08/29/16 0.00 10.49 84.9 63.1 74.0 95.7 46.8 71.3 8.5 08/30/16 0.00 10.49 78.6 59.4 69.0 94.9 50.8 72.9 13.2 09/01/16 0.00 10.49 78.6 59.4 69.0 94.9 50.8 72.9 13.2 09/02/16 0.00 10.49 75.9 51.5 63.7 93.0 41.4 67.2 14.2 09/03/16 0.00 10.49 78.6<	08/23/16	0.00	9.64	80.5	53.9	67.2	95.8	45.0	70.4	9.5
08/26/16 0.00 9.65 85.6 57.8 71.7 95.9 41.1 68.5 7.8 08/27/16 0.84 10.49 77.8 64.6 71.2 95.3 66.7 81.0 10.8 08/28/16 0.00 10.49 87.4 67.6 77.5 95.6 50.3 73.0 8.8 08/29/16 0.00 10.49 84.9 63.1 74.0 95.7 46.8 71.3 8.5 08/30/16 0.00 10.49 78.6 59.4 69.0 94.9 50.8 72.9 13.2 09/01/16 0.00 10.49 78.6 59.4 69.0 94.9 50.8 72.9 13.2 09/02/16 0.00 10.49 75.9 51.5 63.7 93.0 41.4 67.2 14.2 09/03/16 0.00 10.49 78.6 48.6 63.6 96.0 37.8 66.9 9.8 09/05/16 0.00 10.49 89.1<	08/24/16	0.01	9.65	81.1	58.9	70.0	95.0	66.2	80.6	14.5
08/27/16 0.84 10.49 77.8 64.6 71.2 95.3 66.7 81.0 10.8 08/28/16 0.00 10.49 87.4 67.6 77.5 95.6 50.3 73.0 8.8 08/29/16 0.00 10.49 84.9 63.1 74.0 95.7 46.8 71.3 8.5 08/30/16 0.00 10.49 78.6 59.4 69.0 94.9 50.8 72.9 13.2 09/01/16 0.00 10.49 78.6 59.4 69.0 94.9 50.8 72.9 13.2 09/01/16 0.00 10.49 74.8 55.3 65.1 91.9 41.0 66.5 14.9 09/02/16 0.00 10.49 75.9 51.5 63.7 93.0 41.4 67.2 14.2 09/03/16 0.00 10.49 80.1 49.5 64.8 96.2 38.1 67.2 7.8 09/05/16 0.00 10.49 89.	08/25/16	0.00	9.65	82.4	63.2	72.8	95.7	61.4	78.6	12.5
08/28/16 0.00 10.49 87.4 67.6 77.5 95.6 50.3 73.0 8.8 08/29/16 0.00 10.49 84.9 63.1 74.0 95.7 46.8 71.3 8.5 08/30/16 0.00 10.49 78.6 59.4 69.0 94.9 50.8 72.9 13.2 09/01/16 0.00 10.49 74.8 55.3 65.1 91.9 41.0 66.5 14.9 09/02/16 0.00 10.49 75.9 51.5 63.7 93.0 41.4 67.2 14.2 09/03/16 0.00 10.49 78.6 48.6 63.6 96.0 37.8 66.9 9.8 09/04/16 0.00 10.49 85.4 54.6 70.0 95.5 47.0 71.3 10.2 09/05/16 0.00 10.49 89.9 68.7 79.3 93.1 52.1 72.6 9.5 09/07/16 0.00 10.49 90.6	08/26/16	0.00	9.65	85.6	57.8	71.7	95.9	41.1	68.5	7.8
08/29/16 0.00 10.49 84.9 63.1 74.0 95.7 46.8 71.3 8.5 08/30/16 0.00 10.49 82.8 64.6 73.7 94.3 57.0 75.7 9.5 08/31/16 0.00 10.49 78.6 59.4 69.0 94.9 50.8 72.9 13.2 09/01/16 0.00 10.49 74.8 55.3 65.1 91.9 41.0 66.5 14.9 09/02/16 0.00 10.49 75.9 51.5 63.7 93.0 41.4 67.2 14.2 09/03/16 0.00 10.49 80.1 49.5 64.8 96.2 38.1 67.2 7.8 09/05/16 0.00 10.49 85.4 54.6 70.0 95.5 47.0 71.3 10.2 09/06/16 0.00 10.49 89.9 68.7 79.3 93.1 52.1 72.6 9.5 09/07/16 0.00 10.49 90.6	08/27/16	0.84	10.49	77.8	64.6	71.2	95.3	66.7	81.0	10.8
08/30/16 0.00 10.49 82.8 64.6 73.7 94.3 57.0 75.7 9.5 08/31/16 0.00 10.49 78.6 59.4 69.0 94.9 50.8 72.9 13.2 09/01/16 0.00 10.49 74.8 55.3 65.1 91.9 41.0 66.5 14.9 09/02/16 0.00 10.49 75.9 51.5 63.7 93.0 41.4 67.2 14.2 09/03/16 0.00 10.49 78.6 48.6 63.6 96.0 37.8 66.9 9.8 09/04/16 0.00 10.49 80.1 49.5 64.8 96.2 38.1 67.2 7.8 09/05/16 0.00 10.49 89.9 68.7 79.3 93.1 52.1 72.6 9.5 09/07/16 0.00 10.49 90.6 72.3 81.5 92.8 52.5 72.7 11.2 09/08/16 0.11 10.60 80.2	08/28/16	0.00	10.49	87.4	67.6	77.5	95.6	50.3	73.0	8.8
08/31/16 0.00 10.49 78.6 59.4 69.0 94.9 50.8 72.9 13.2 09/01/16 0.00 10.49 74.8 55.3 65.1 91.9 41.0 66.5 14.9 09/02/16 0.00 10.49 75.9 51.5 63.7 93.0 41.4 67.2 14.2 09/03/16 0.00 10.49 78.6 48.6 63.6 96.0 37.8 66.9 9.8 09/04/16 0.00 10.49 80.1 49.5 64.8 96.2 38.1 67.2 7.8 09/05/16 0.00 10.49 85.4 54.6 70.0 95.5 47.0 71.3 10.2 09/06/16 0.00 10.49 89.9 68.7 79.3 93.1 52.1 72.6 9.5 09/07/16 0.00 10.49 90.6 72.3 81.5 92.8 52.5 72.7 11.2 09/08/16 0.11 10.60 80.	08/29/16	0.00	10.49	84.9	63.1	74.0	95.7	46.8	71.3	8.5
09/01/16 0.00 10.49 74.8 55.3 65.1 91.9 41.0 66.5 14.9 09/02/16 0.00 10.49 75.9 51.5 63.7 93.0 41.4 67.2 14.2 09/03/16 0.00 10.49 78.6 48.6 63.6 96.0 37.8 66.9 9.8 09/04/16 0.00 10.49 80.1 49.5 64.8 96.2 38.1 67.2 7.8 09/05/16 0.00 10.49 85.4 54.6 70.0 95.5 47.0 71.3 10.2 09/06/16 0.00 10.49 89.9 68.7 79.3 93.1 52.1 72.6 9.5 09/07/16 0.00 10.49 90.6 72.3 81.5 92.8 52.5 72.7 11.2 09/08/16 0.11 10.60 80.2 67.4 73.8 93.9 63.8 78.9 13.2 09/09/16 0.08 10.68 81.	08/30/16	0.00	10.49	82.8	64.6	73.7	94.3	57.0	75.7	9.5
09/02/16 0.00 10.49 75.9 51.5 63.7 93.0 41.4 67.2 14.2 09/03/16 0.00 10.49 78.6 48.6 63.6 96.0 37.8 66.9 9.8 09/04/16 0.00 10.49 80.1 49.5 64.8 96.2 38.1 67.2 7.8 09/05/16 0.00 10.49 85.4 54.6 70.0 95.5 47.0 71.3 10.2 09/06/16 0.00 10.49 89.9 68.7 79.3 93.1 52.1 72.6 9.5 09/07/16 0.00 10.49 90.6 72.3 81.5 92.8 52.5 72.7 11.2 09/08/16 0.11 10.60 80.2 67.4 73.8 93.9 63.8 78.9 13.2 09/09/16 0.08 10.68 81.0 62.9 72.0 95.9 58.2 77.1 6.5 09/10/16 1.01 11.69 70.0	08/31/16	0.00	10.49	78.6	59.4	69.0	94.9	50.8	72.9	13.2
09/03/16 0.00 10.49 78.6 48.6 63.6 96.0 37.8 66.9 9.8 09/04/16 0.00 10.49 80.1 49.5 64.8 96.2 38.1 67.2 7.8 09/05/16 0.00 10.49 85.4 54.6 70.0 95.5 47.0 71.3 10.2 09/06/16 0.00 10.49 89.9 68.7 79.3 93.1 52.1 72.6 9.5 09/07/16 0.00 10.49 90.6 72.3 81.5 92.8 52.5 72.7 11.2 09/08/16 0.11 10.60 80.2 67.4 73.8 93.9 63.8 78.9 13.2 09/09/16 0.08 10.68 81.0 62.9 72.0 95.9 58.2 77.1 6.5 09/10/16 1.01 11.69 70.0 59.3 64.7 95.9 70.2 83.1 16.9 09/11/16 0.00 11.69 74.3	09/01/16	0.00	10.49	74.8	55.3	65.1	91.9	41.0	66.5	14.9
09/04/16 0.00 10.49 80.1 49.5 64.8 96.2 38.1 67.2 7.8 09/05/16 0.00 10.49 85.4 54.6 70.0 95.5 47.0 71.3 10.2 09/06/16 0.00 10.49 89.9 68.7 79.3 93.1 52.1 72.6 9.5 09/07/16 0.00 10.49 90.6 72.3 81.5 92.8 52.5 72.7 11.2 09/08/16 0.11 10.60 80.2 67.4 73.8 93.9 63.8 78.9 13.2 09/09/16 0.08 10.68 81.0 62.9 72.0 95.9 58.2 77.1 6.5 09/10/16 1.01 11.69 70.0 59.3 64.7 95.9 70.2 83.1 16.9 09/11/16 0.00 11.69 74.3 50.2 62.3 96.1 33.4 64.8 8.8 09/13/16 0.00 11.69 76.1	09/02/16	0.00	10.49	75.9	51.5	63.7	93.0	41.4	67.2	14.2
09/05/16 0.00 10.49 85.4 54.6 70.0 95.5 47.0 71.3 10.2 09/06/16 0.00 10.49 89.9 68.7 79.3 93.1 52.1 72.6 9.5 09/07/16 0.00 10.49 90.6 72.3 81.5 92.8 52.5 72.7 11.2 09/08/16 0.11 10.60 80.2 67.4 73.8 93.9 63.8 78.9 13.2 09/09/16 0.08 10.68 81.0 62.9 72.0 95.9 58.2 77.1 6.5 09/10/16 1.01 11.69 70.0 59.3 64.7 95.9 70.2 83.1 16.9 09/11/16 0.00 11.69 74.3 50.2 62.3 96.1 33.4 64.8 8.8 09/12/16 0.00 11.69 76.1 49.7 62.9 96.0 41.4 68.7 10.8 09/13/16 0.00 11.69 82.	09/03/16	0.00	10.49	78.6	48.6	63.6	96.0	37.8	66.9	9.8
09/06/16 0.00 10.49 89.9 68.7 79.3 93.1 52.1 72.6 9.5 09/07/16 0.00 10.49 90.6 72.3 81.5 92.8 52.5 72.7 11.2 09/08/16 0.11 10.60 80.2 67.4 73.8 93.9 63.8 78.9 13.2 09/09/16 0.08 10.68 81.0 62.9 72.0 95.9 58.2 77.1 6.5 09/10/16 1.01 11.69 70.0 59.3 64.7 95.9 70.2 83.1 16.9 09/11/16 0.00 11.69 74.3 50.2 62.3 96.1 33.4 64.8 8.8 09/12/16 0.00 11.69 76.1 49.7 62.9 96.0 41.4 68.7 10.8 09/13/16 0.00 11.69 82.2 52.4 67.3 96.1 50.1 73.1 10.8 09/15/16 0.00 11.71 74.	09/04/16	0.00	10.49	80.1	49.5	64.8	96.2	38.1	67.2	7.8
09/07/16 0.00 10.49 90.6 72.3 81.5 92.8 52.5 72.7 11.2 09/08/16 0.11 10.60 80.2 67.4 73.8 93.9 63.8 78.9 13.2 09/09/16 0.08 10.68 81.0 62.9 72.0 95.9 58.2 77.1 6.5 09/10/16 1.01 11.69 70.0 59.3 64.7 95.9 70.2 83.1 16.9 09/11/16 0.00 11.69 74.3 50.2 62.3 96.1 33.4 64.8 8.8 09/12/16 0.00 11.69 76.1 49.7 62.9 96.0 41.4 68.7 10.8 09/13/16 0.00 11.69 82.2 52.4 67.3 96.1 50.1 73.1 10.8 09/14/16 0.02 11.71 74.9 57.0 66.0 93.5 42.7 68.1 12.2 09/15/16 0.00 11.71 74	09/05/16	0.00	10.49	85.4	54.6	70.0	95.5	47.0	71.3	10.2
09/08/16 0.11 10.60 80.2 67.4 73.8 93.9 63.8 78.9 13.2 09/09/16 0.08 10.68 81.0 62.9 72.0 95.9 58.2 77.1 6.5 09/10/16 1.01 11.69 70.0 59.3 64.7 95.9 70.2 83.1 16.9 09/11/16 0.00 11.69 74.3 50.2 62.3 96.1 33.4 64.8 8.8 09/12/16 0.00 11.69 76.1 49.7 62.9 96.0 41.4 68.7 10.8 09/13/16 0.00 11.69 82.2 52.4 67.3 96.1 50.1 73.1 10.8 09/14/16 0.02 11.71 74.9 57.0 66.0 93.5 42.7 68.1 12.2 09/15/16 0.00 11.71 74.7 52.8 63.8 94.3 34.5 64.4 9.5 09/16/16 0.80 12.51 76.	09/06/16	0.00	10.49	89.9	68.7	79.3	93.1	52.1	72.6	9.5
09/09/16 0.08 10.68 81.0 62.9 72.0 95.9 58.2 77.1 6.5 09/10/16 1.01 11.69 70.0 59.3 64.7 95.9 70.2 83.1 16.9 09/11/16 0.00 11.69 74.3 50.2 62.3 96.1 33.4 64.8 8.8 09/12/16 0.00 11.69 76.1 49.7 62.9 96.0 41.4 68.7 10.8 09/13/16 0.00 11.69 82.2 52.4 67.3 96.1 50.1 73.1 10.8 09/14/16 0.02 11.71 74.9 57.0 66.0 93.5 42.7 68.1 12.2 09/15/16 0.00 11.71 74.7 52.8 63.8 94.3 34.5 64.4 9.5 09/16/16 0.00 11.71 79.0 51.9 65.5 95.7 43.9 69.8 11.2 09/17/16 0.80 12.51 76.	09/07/16	0.00	10.49	90.6	72.3	81.5	92.8	52.5	72.7	11.2
09/10/16 1.01 11.69 70.0 59.3 64.7 95.9 70.2 83.1 16.9 09/11/16 0.00 11.69 74.3 50.2 62.3 96.1 33.4 64.8 8.8 09/12/16 0.00 11.69 76.1 49.7 62.9 96.0 41.4 68.7 10.8 09/13/16 0.00 11.69 82.2 52.4 67.3 96.1 50.1 73.1 10.8 09/14/16 0.02 11.71 74.9 57.0 66.0 93.5 42.7 68.1 12.2 09/15/16 0.00 11.71 74.7 52.8 63.8 94.3 34.5 64.4 9.5 09/16/16 0.00 11.71 79.0 51.9 65.5 95.7 43.9 69.8 11.2 09/17/16 0.80 12.51 76.0 61.6 68.8 95.9 67.0 81.5 8.5	09/08/16	0.11	10.60	80.2	67.4	73.8	93.9	63.8	78.9	13.2
09/11/16 0.00 11.69 74.3 50.2 62.3 96.1 33.4 64.8 8.8 09/12/16 0.00 11.69 76.1 49.7 62.9 96.0 41.4 68.7 10.8 09/13/16 0.00 11.69 82.2 52.4 67.3 96.1 50.1 73.1 10.8 09/14/16 0.02 11.71 74.9 57.0 66.0 93.5 42.7 68.1 12.2 09/15/16 0.00 11.71 74.7 52.8 63.8 94.3 34.5 64.4 9.5 09/16/16 0.00 11.71 79.0 51.9 65.5 95.7 43.9 69.8 11.2 09/17/16 0.80 12.51 76.0 61.6 68.8 95.9 67.0 81.5 8.5	09/09/16	0.08	10.68	81.0	62.9	72.0	95.9	58.2	77.1	6.5
09/12/16 0.00 11.69 76.1 49.7 62.9 96.0 41.4 68.7 10.8 09/13/16 0.00 11.69 82.2 52.4 67.3 96.1 50.1 73.1 10.8 09/14/16 0.02 11.71 74.9 57.0 66.0 93.5 42.7 68.1 12.2 09/15/16 0.00 11.71 74.7 52.8 63.8 94.3 34.5 64.4 9.5 09/16/16 0.00 11.71 79.0 51.9 65.5 95.7 43.9 69.8 11.2 09/17/16 0.80 12.51 76.0 61.6 68.8 95.9 67.0 81.5 8.5	09/10/16	1.01	11.69	70.0	59.3	64.7	95.9	70.2	83.1	16.9
09/13/16 0.00 11.69 82.2 52.4 67.3 96.1 50.1 73.1 10.8 09/14/16 0.02 11.71 74.9 57.0 66.0 93.5 42.7 68.1 12.2 09/15/16 0.00 11.71 74.7 52.8 63.8 94.3 34.5 64.4 9.5 09/16/16 0.00 11.71 79.0 51.9 65.5 95.7 43.9 69.8 11.2 09/17/16 0.80 12.51 76.0 61.6 68.8 95.9 67.0 81.5 8.5	09/11/16	0.00	11.69	74.3	50.2	62.3	96.1	33.4	64.8	8.8
09/14/16 0.02 11.71 74.9 57.0 66.0 93.5 42.7 68.1 12.2 09/15/16 0.00 11.71 74.7 52.8 63.8 94.3 34.5 64.4 9.5 09/16/16 0.00 11.71 79.0 51.9 65.5 95.7 43.9 69.8 11.2 09/17/16 0.80 12.51 76.0 61.6 68.8 95.9 67.0 81.5 8.5	09/12/16	0.00	11.69	76.1	49.7	62.9	96.0	41.4	68.7	10.8
09/15/16 0.00 11.71 74.7 52.8 63.8 94.3 34.5 64.4 9.5 09/16/16 0.00 11.71 79.0 51.9 65.5 95.7 43.9 69.8 11.2 09/17/16 0.80 12.51 76.0 61.6 68.8 95.9 67.0 81.5 8.5	09/13/16	0.00	11.69	82.2	52.4	67.3	96.1	50.1	73.1	10.8
09/16/16 0.00 11.71 79.0 51.9 65.5 95.7 43.9 69.8 11.2 09/17/16 0.80 12.51 76.0 61.6 68.8 95.9 67.0 81.5 8.5	09/14/16	0.02	11.71	74.9	57.0	66.0	93.5	42.7	68.1	12.2
09/17/16 0.80 12.51 76.0 61.6 68.8 95.9 67.0 81.5 8.5	09/15/16	0.00	11.71	74.7	52.8	63.8	94.3	34.5	64.4	9.5
	09/16/16	0.00	11.71	79.0	51.9	65.5	95.7	43.9	69.8	11.2
09/18/16 0.00 12.51 80.0 55.5 67.8 96.5 43.1 69.8 9.5	09/17/16	0.80	12.51	76.0	61.6	68.8	95.9	67.0	81.5	8.5
	09/18/16	0.00	12.51	80.0	55.5	67.8	96.5	43.1	69.8	9.5

09/19/16 0.00 12.51 83.6 51.0 67.3 96.7 32.2 64.5 8.5 09/20/16 0.00 12.51 84.3 56.3 70.3 91.6 26.6 59.1 12.5 09/21/16 0.03 12.54 84.4 55.6 70.0 94.2 46.2 70.2 15.5 09/22/16 0.00 12.54 83.0 58.9 71.0 96.3 43.5 69.9 6.5 09/23/16 0.00 12.54 74.2 59.7 67.0 94.5 71.5 83.0 12.9 09/24/16 0.00 12.54 74.0 53.4 63.7 90.8 47.9 69.4 11.5 09/25/16 0.00 12.54 76.6 49.7 63.2 93.0 32.2 62.6 10.2 09/26/16 0.12 12.66 68.0 49.8 58.9 94.1 32.6 63.4 23.9 09/27/16 0.00 12.54 66.6 49.5 57.6 94.4 50.4 72.4 15.9 09/28/16 0.19 12.85 65.6 49.5 57.6 94.4 50.4 72.4 15.9 09/29/16 0.73 13.58 63.4 55.0 59.2 95.9 79.7 87.8 17.2 09/30/16 0.12 13.70 60.0 56.9 58.5 96.1 91.7 93.9 17.9 10/01/16 0.38 14.08 66.6 51.2 58.9 96.5 59.5 78.0 10.8 10/03/16 0.01 14.09 65.7 52.0 58.9 96.6 68.0 82.3 8.5 10/04/16 0.00 14.09 73.3 50.0 61.7 96.5 46.5 71.5 13.2 10/05/16 0.03 14.12 80.0 55.8 67.9 95.7 50.9 73.3 13.9 10/06/16 0.01 14.13 79.0 55.2 67.1 97.2 56.7 77.0 10.2 10/07/16 0.00 14.13 63.5 36.1 49.8 96.0 34.7 65.4 9.8 10/10/16 0.00 14.13 63.5 36.1 49.8 96.0 34.7 65.4 9.8 10/10/16 0.00 14.45 57.1 48.0 61.6 95.1 54.2 74.7 14.5 10/13/16 0.00 14.45 57.1 48.0 61.6 95.1 54.2 74.7 14.5 10/13/16 0.00 14.45 57.1 48.0 61.6 95.1 54.2 74.7 14.5 10/13/16 0.00 14.45 57.1 48.0 61.6 95.1 54.2 74.7 14.5 10/14/16 0.00 14.45 75.1 48.0 61.6 95.1 54.2 74.7 14.5 10/14/16 0.00 14.45 57.1 48.0 61.6 95.1 54.2 74.7 14.5 10/14/16 0.00 14.45 57.1 48.0 61.6 95.1 54.2 74.7 14.5 10/14/16 0.00 14.45 57.1 48.0 61.6	_									_
09/21/16 0.03 12.54 84.4 55.6 70.0 94.2 46.2 70.2 15.5 09/22/16 0.00 12.54 83.0 58.9 71.0 96.3 43.5 69.9 6.5 09/23/16 0.00 12.54 74.2 59.7 67.0 94.5 71.5 83.0 12.9 09/24/16 0.00 12.54 76.6 49.7 63.2 93.0 32.2 62.6 10.2 09/26/16 0.12 12.66 68.0 49.8 58.9 94.1 32.6 63.4 23.9 09/27/16 0.00 12.66 68.0 49.8 58.9 94.1 32.6 63.4 23.9 09/28/16 0.19 12.85 65.6 49.5 57.6 94.4 50.4 72.4 15.9 09/29/16 0.73 13.58 63.4 55.0 59.2 95.9 79.7 87.8 17.2 09/30/16 0.12 13.70 6	09/19/16	0.00	12.51	83.6	51.0	67.3	96.7	32.2	64.5	8.5
09/22/16 0.00 12.54 83.0 58.9 71.0 96.3 43.5 69.9 6.5 09/23/16 0.00 12.54 74.2 59.7 67.0 94.5 71.5 83.0 12.9 09/24/16 0.00 12.54 74.0 53.4 63.7 90.8 47.9 69.4 11.5 09/25/16 0.00 12.54 76.6 49.7 63.2 93.0 32.2 62.6 10.2 09/26/16 0.12 12.66 68.0 49.8 58.9 94.1 32.6 63.4 23.9 09/27/16 0.00 12.66 68.0 47.4 57.7 83.2 27.5 55.4 16.9 09/28/16 0.19 12.85 65.6 49.5 57.6 94.4 50.4 72.4 15.9 09/29/16 0.33 13.58 63.4 55.0 59.2 95.9 79.7 87.8 17.2 10/01/16 0.38 14.08 6	09/20/16	0.00	12.51	84.3	56.3	70.3	91.6	26.6	59.1	12.5
09/23/16 0.00 12.54 74.2 59.7 67.0 94.5 71.5 83.0 12.9 09/24/16 0.00 12.54 74.0 53.4 63.7 90.8 47.9 69.4 11.5 09/25/16 0.00 12.54 76.6 49.7 63.2 93.0 32.2 62.6 10.2 09/26/16 0.12 12.66 68.0 49.8 58.9 94.1 32.6 63.4 23.9 09/28/16 0.19 12.85 65.6 49.5 57.6 94.4 50.4 72.4 15.9 09/28/16 0.19 12.85 65.6 49.5 57.6 94.4 50.4 72.4 15.9 09/29/16 0.73 13.58 63.4 55.0 59.2 95.9 79.7 87.8 17.2 09/30/16 0.12 13.70 60.0 56.9 58.5 96.1 91.7 93.9 17.9 10/01/16 0.38 14.08	09/21/16	0.03	12.54	84.4	55.6	70.0	94.2	46.2	70.2	15.5
09/24/16 0.00 12.54 74.0 53.4 63.7 90.8 47.9 69.4 11.5 09/25/16 0.00 12.54 76.6 49.7 63.2 93.0 32.2 62.6 10.2 09/26/16 0.12 12.66 68.0 49.8 58.9 94.1 32.6 63.4 23.9 09/27/16 0.00 12.66 68.0 47.4 57.7 83.2 27.5 55.4 16.9 09/28/16 0.19 12.85 65.6 49.5 57.6 94.4 50.4 72.4 15.9 09/29/16 0.73 13.58 63.4 55.0 59.2 95.9 79.7 87.8 17.2 09/30/16 0.12 13.70 60.0 56.9 58.5 96.1 91.7 93.9 17.9 10/01/16 0.38 14.08 66.6 48.1 57.4 96.7 66.8 81.8 6.5 10/03/16 0.01 14.08 6	09/22/16	0.00	12.54	83.0	58.9	71.0	96.3	43.5	69.9	6.5
09/25/16 0.00 12.54 76.6 49.7 63.2 93.0 32.2 62.6 10.2 09/26/16 0.12 12.66 68.0 49.8 58.9 94.1 32.6 63.4 23.9 09/27/16 0.00 12.66 68.0 47.4 57.7 83.2 27.5 55.4 16.9 09/28/16 0.19 12.85 65.6 49.5 57.6 94.4 50.4 72.4 15.9 09/29/16 0.73 13.58 63.4 55.0 59.2 95.9 79.7 87.8 17.2 09/30/16 0.12 13.70 60.0 56.9 58.5 96.1 91.7 93.9 17.9 10/01/16 0.38 14.08 66.6 51.2 58.9 96.5 59.5 78.0 10.8 10/02/16 0.00 14.08 66.6 48.1 57.4 96.7 66.8 81.8 6.5 10/03/16 0.01 14.09 7	09/23/16	0.00	12.54	74.2	59.7	67.0	94.5	71.5	83.0	12.9
09/26/16 0.12 12.66 68.0 49.8 58.9 94.1 32.6 63.4 23.9 09/27/16 0.00 12.66 68.0 47.4 57.7 83.2 27.5 55.4 16.9 09/28/16 0.19 12.85 65.6 49.5 57.6 94.4 50.4 72.4 15.9 09/29/16 0.73 13.58 63.4 55.0 59.2 95.9 79.7 87.8 17.2 09/30/16 0.12 13.70 60.0 56.9 58.5 96.1 91.7 93.9 17.9 10/01/16 0.38 14.08 66.6 51.2 58.9 96.5 59.5 78.0 10.8 10/02/16 0.00 14.08 66.6 48.1 57.4 96.7 66.8 81.8 6.5 10/03/16 0.01 14.09 73.3 50.0 61.7 96.5 46.5 71.5 13.2 10/04/16 0.00 14.13 7	09/24/16	0.00	12.54	74.0	53.4	63.7	90.8	47.9	69.4	11.5
09/27/16 0.00 12.66 68.0 47.4 57.7 83.2 27.5 55.4 16.9 09/28/16 0.19 12.85 65.6 49.5 57.6 94.4 50.4 72.4 15.9 09/29/16 0.73 13.58 63.4 55.0 59.2 95.9 79.7 87.8 17.2 09/30/16 0.12 13.70 60.0 56.9 58.5 96.1 91.7 93.9 17.9 10/01/16 0.38 14.08 66.6 51.2 58.9 96.5 59.5 78.0 10.8 10/02/16 0.00 14.08 66.6 48.1 57.4 96.7 66.8 81.8 6.5 10/03/16 0.01 14.09 65.7 52.0 58.9 96.6 68.0 82.3 8.5 10/04/16 0.00 14.09 73.3 50.0 61.7 96.5 46.5 71.5 13.2 10/05/16 0.03 14.13 79	09/25/16	0.00	12.54	76.6	49.7	63.2	93.0	32.2	62.6	10.2
09/28/16 0.19 12.85 65.6 49.5 57.6 94.4 50.4 72.4 15.9 09/29/16 0.73 13.58 63.4 55.0 59.2 95.9 79.7 87.8 17.2 09/30/16 0.12 13.70 60.0 56.9 58.5 96.1 91.7 93.9 17.9 10/01/16 0.38 14.08 66.6 51.2 58.9 96.5 59.5 78.0 10.8 10/02/16 0.00 14.08 66.6 48.1 57.4 96.7 66.8 81.8 6.5 10/03/16 0.01 14.09 65.7 52.0 58.9 96.6 68.0 82.3 8.5 10/04/16 0.00 14.09 73.3 50.0 61.7 96.5 46.5 71.5 13.2 10/05/16 0.03 14.12 80.0 55.8 67.9 95.7 50.9 73.3 13.9 10/07/16 0.00 14.13 82	09/26/16	0.12	12.66	68.0	49.8	58.9	94.1	32.6	63.4	23.9
09/29/16 0.73 13.58 63.4 55.0 59.2 95.9 79.7 87.8 17.2 09/30/16 0.12 13.70 60.0 56.9 58.5 96.1 91.7 93.9 17.9 10/01/16 0.38 14.08 66.6 51.2 58.9 96.5 59.5 78.0 10.8 10/02/16 0.00 14.08 66.6 48.1 57.4 96.7 66.8 81.8 6.5 10/03/16 0.01 14.09 65.7 52.0 58.9 96.6 68.0 82.3 8.5 10/04/16 0.00 14.09 73.3 50.0 61.7 96.5 46.5 71.5 13.2 10/05/16 0.03 14.12 80.0 55.8 67.9 95.7 50.9 73.3 13.9 10/06/16 0.01 14.13 82.5 53.1 67.8 93.8 44.6 69.2 21.3 10/08/16 0.00 14.13 63	09/27/16	0.00	12.66	68.0	47.4	57.7	83.2	27.5	55.4	16.9
09/30/16 0.12 13.70 60.0 56.9 58.5 96.1 91.7 93.9 17.9 10/01/16 0.38 14.08 66.6 51.2 58.9 96.5 59.5 78.0 10.8 10/02/16 0.00 14.08 66.6 48.1 57.4 96.7 66.8 81.8 6.5 10/03/16 0.01 14.09 65.7 52.0 58.9 96.6 68.0 82.3 8.5 10/04/16 0.00 14.09 73.3 50.0 61.7 96.5 46.5 71.5 13.2 10/05/16 0.03 14.12 80.0 55.8 67.9 95.7 50.9 73.3 13.9 10/06/16 0.01 14.13 79.0 55.2 67.1 97.2 56.7 77.0 10.2 10/07/16 0.00 14.13 82.5 53.1 67.8 93.8 44.6 69.2 21.3 10/08/16 0.00 14.13 63	09/28/16	0.19	12.85	65.6	49.5	57.6	94.4	50.4	72.4	15.9
10/01/16 0.38 14.08 66.6 51.2 58.9 96.5 59.5 78.0 10.8 10/02/16 0.00 14.08 66.6 48.1 57.4 96.7 66.8 81.8 6.5 10/03/16 0.01 14.09 65.7 52.0 58.9 96.6 68.0 82.3 8.5 10/04/16 0.00 14.09 73.3 50.0 61.7 96.5 46.5 71.5 13.2 10/05/16 0.03 14.12 80.0 55.8 67.9 95.7 50.9 73.3 13.9 10/06/16 0.01 14.13 79.0 55.2 67.1 97.2 56.7 77.0 10.2 10/07/16 0.00 14.13 60.0 39.2 49.6 94.9 32.3 63.6 23.6 10/09/16 0.00 14.13 63.5 36.1 49.8 96.0 34.7 65.4 9.8 10/10/16 0.00 14.13 71.0 47.0 59.0 91.8 42.6 67.2 8.8 10/	09/29/16	0.73	13.58	63.4	55.0	59.2	95.9	79.7	87.8	17.2
10/02/16 0.00 14.08 66.6 48.1 57.4 96.7 66.8 81.8 6.5 10/03/16 0.01 14.09 65.7 52.0 58.9 96.6 68.0 82.3 8.5 10/04/16 0.00 14.09 73.3 50.0 61.7 96.5 46.5 71.5 13.2 10/05/16 0.03 14.12 80.0 55.8 67.9 95.7 50.9 73.3 13.9 10/06/16 0.01 14.13 79.0 55.2 67.1 97.2 56.7 77.0 10.2 10/07/16 0.00 14.13 82.5 53.1 67.8 93.8 44.6 69.2 21.3 10/08/16 0.00 14.13 63.5 36.1 49.8 96.0 34.7 65.4 9.8 10/10/16 0.00 14.13 65.5 37.5 51.5 95.3 40.4 67.9 11.2 10/11/16 0.00 14.13 71.0 47.0 59.0 91.8 42.6 67.2 8.8 10/	09/30/16	0.12	13.70	60.0	56.9	58.5	96.1	91.7	93.9	17.9
10/03/16 0.01 14.09 65.7 52.0 58.9 96.6 68.0 82.3 8.5 10/04/16 0.00 14.09 73.3 50.0 61.7 96.5 46.5 71.5 13.2 10/05/16 0.03 14.12 80.0 55.8 67.9 95.7 50.9 73.3 13.9 10/06/16 0.01 14.13 79.0 55.2 67.1 97.2 56.7 77.0 10.2 10/07/16 0.00 14.13 82.5 53.1 67.8 93.8 44.6 69.2 21.3 10/08/16 0.00 14.13 60.0 39.2 49.6 94.9 32.3 63.6 23.6 10/09/16 0.00 14.13 63.5 36.1 49.8 96.0 34.7 65.4 9.8 10/10/16 0.00 14.13 71.0 47.0 59.0 91.8 42.6 67.2 8.8 10/12/16 0.32 14.45 75.	10/01/16	0.38	14.08	66.6	51.2	58.9	96.5	59.5	78.0	10.8
10/04/16 0.00 14.09 73.3 50.0 61.7 96.5 46.5 71.5 13.2 10/05/16 0.03 14.12 80.0 55.8 67.9 95.7 50.9 73.3 13.9 10/06/16 0.01 14.13 79.0 55.2 67.1 97.2 56.7 77.0 10.2 10/07/16 0.00 14.13 82.5 53.1 67.8 93.8 44.6 69.2 21.3 10/08/16 0.00 14.13 60.0 39.2 49.6 94.9 32.3 63.6 23.6 10/09/16 0.00 14.13 63.5 36.1 49.8 96.0 34.7 65.4 9.8 10/10/16 0.00 14.13 65.5 37.5 51.5 95.3 40.4 67.9 11.2 10/11/16 0.00 14.13 71.0 47.0 59.0 91.8 42.6 67.2 8.8 10/12/16 0.32 14.45 75	10/02/16	0.00	14.08	66.6	48.1	57.4	96.7	66.8	81.8	6.5
10/05/16 0.03 14.12 80.0 55.8 67.9 95.7 50.9 73.3 13.9 10/06/16 0.01 14.13 79.0 55.2 67.1 97.2 56.7 77.0 10.2 10/07/16 0.00 14.13 82.5 53.1 67.8 93.8 44.6 69.2 21.3 10/08/16 0.00 14.13 60.0 39.2 49.6 94.9 32.3 63.6 23.6 10/09/16 0.00 14.13 63.5 36.1 49.8 96.0 34.7 65.4 9.8 10/10/16 0.00 14.13 65.5 37.5 51.5 95.3 40.4 67.9 11.2 10/11/16 0.00 14.13 71.0 47.0 59.0 91.8 42.6 67.2 8.8 10/12/16 0.32 14.45 75.1 48.0 61.6 95.1 54.2 74.7 14.5 10/13/16 0.00 14.45 59.0 37.6 48.3 95.3 39.0 67.2 11.5 1	10/03/16	0.01	14.09	65.7	52.0	58.9	96.6	68.0	82.3	8.5
10/06/16 0.01 14.13 79.0 55.2 67.1 97.2 56.7 77.0 10.2 10/07/16 0.00 14.13 82.5 53.1 67.8 93.8 44.6 69.2 21.3 10/08/16 0.00 14.13 60.0 39.2 49.6 94.9 32.3 63.6 23.6 10/09/16 0.00 14.13 63.5 36.1 49.8 96.0 34.7 65.4 9.8 10/10/16 0.00 14.13 65.5 37.5 51.5 95.3 40.4 67.9 11.2 10/11/16 0.00 14.13 71.0 47.0 59.0 91.8 42.6 67.2 8.8 10/12/16 0.32 14.45 75.1 48.0 61.6 95.1 54.2 74.7 14.5 10/13/16 0.00 14.45 59.0 37.6 48.3 95.3 39.0 67.2 11.5 10/14/16 0.00 14.45 63.3 34.8 49.1 97.1 38.5 67.8 9.8 10	10/04/16	0.00	14.09	73.3	50.0	61.7	96.5	46.5	71.5	13.2
10/07/16 0.00 14.13 82.5 53.1 67.8 93.8 44.6 69.2 21.3 10/08/16 0.00 14.13 60.0 39.2 49.6 94.9 32.3 63.6 23.6 10/09/16 0.00 14.13 63.5 36.1 49.8 96.0 34.7 65.4 9.8 10/10/16 0.00 14.13 65.5 37.5 51.5 95.3 40.4 67.9 11.2 10/11/16 0.00 14.13 71.0 47.0 59.0 91.8 42.6 67.2 8.8 10/12/16 0.32 14.45 75.1 48.0 61.6 95.1 54.2 74.7 14.5 10/13/16 0.00 14.45 59.0 37.6 48.3 95.3 39.0 67.2 11.5 10/14/16 0.00 14.45 63.3 34.8 49.1 97.1 38.5 67.8 9.8 10/15/16 0.00 14.45 71.4 41.8 56.6 93.4 60.0 76.7 12.9 10	10/05/16	0.03	14.12	80.0	55.8	67.9	95.7	50.9	73.3	13.9
10/08/16 0.00 14.13 60.0 39.2 49.6 94.9 32.3 63.6 23.6 10/09/16 0.00 14.13 63.5 36.1 49.8 96.0 34.7 65.4 9.8 10/10/16 0.00 14.13 65.5 37.5 51.5 95.3 40.4 67.9 11.2 10/11/16 0.00 14.13 71.0 47.0 59.0 91.8 42.6 67.2 8.8 10/12/16 0.32 14.45 75.1 48.0 61.6 95.1 54.2 74.7 14.5 10/13/16 0.00 14.45 59.0 37.6 48.3 95.3 39.0 67.2 11.5 10/14/16 0.00 14.45 63.3 34.8 49.1 97.1 38.5 67.8 9.8 10/15/16 0.00 14.45 71.4 41.8 56.6 93.4 60.0 76.7 12.9 10/16/16 0.58 15.03 65.8 60.9 63.4 96.5 78.8 87.7 11.2 10	10/06/16	0.01	14.13	79.0	55.2	67.1	97.2	56.7	77.0	10.2
10/09/16 0.00 14.13 63.5 36.1 49.8 96.0 34.7 65.4 9.8 10/10/16 0.00 14.13 65.5 37.5 51.5 95.3 40.4 67.9 11.2 10/11/16 0.00 14.13 71.0 47.0 59.0 91.8 42.6 67.2 8.8 10/12/16 0.32 14.45 75.1 48.0 61.6 95.1 54.2 74.7 14.5 10/13/16 0.00 14.45 59.0 37.6 48.3 95.3 39.0 67.2 11.5 10/14/16 0.00 14.45 63.3 34.8 49.1 97.1 38.5 67.8 9.8 10/15/16 0.00 14.45 71.4 41.8 56.6 93.4 60.0 76.7 12.9 10/16/16 0.58 15.03 65.8 60.9 63.4 96.5 78.8 87.7 11.2 10/17/16 0.01 15.04 78.3 59.7 69.0 96.6 61.6 79.1 18.2 10	10/07/16	0.00	14.13	82.5	53.1	67.8	93.8	44.6	69.2	21.3
10/10/16 0.00 14.13 65.5 37.5 51.5 95.3 40.4 67.9 11.2 10/11/16 0.00 14.13 71.0 47.0 59.0 91.8 42.6 67.2 8.8 10/12/16 0.32 14.45 75.1 48.0 61.6 95.1 54.2 74.7 14.5 10/13/16 0.00 14.45 59.0 37.6 48.3 95.3 39.0 67.2 11.5 10/14/16 0.00 14.45 63.3 34.8 49.1 97.1 38.5 67.8 9.8 10/15/16 0.00 14.45 71.4 41.8 56.6 93.4 60.0 76.7 12.9 10/16/16 0.58 15.03 65.8 60.9 63.4 96.5 78.8 87.7 11.2 10/17/16 0.01 15.04 78.3 59.7 69.0 96.6 61.6 79.1 18.2 10/18/16 0.00 15.04 76.8 51.1 64.0 93.3 57.9 75.6 15.9 1	10/08/16	0.00	14.13	60.0	39.2	49.6	94.9	32.3	63.6	23.6
10/11/16 0.00 14.13 71.0 47.0 59.0 91.8 42.6 67.2 8.8 10/12/16 0.32 14.45 75.1 48.0 61.6 95.1 54.2 74.7 14.5 10/13/16 0.00 14.45 59.0 37.6 48.3 95.3 39.0 67.2 11.5 10/14/16 0.00 14.45 63.3 34.8 49.1 97.1 38.5 67.8 9.8 10/15/16 0.00 14.45 71.4 41.8 56.6 93.4 60.0 76.7 12.9 10/16/16 0.58 15.03 65.8 60.9 63.4 96.5 78.8 87.7 11.2 10/17/16 0.01 15.04 78.3 59.7 69.0 96.6 61.6 79.1 18.2 10/18/16 0.00 15.04 76.8 51.1 64.0 93.3 57.9 75.6 15.9 10/19/16 0.04 15.08 72.7 44.7 58.7 96.7 33.4 65.1 8.8	10/09/16	0.00	14.13	63.5	36.1	49.8	96.0	34.7	65.4	9.8
10/12/16 0.32 14.45 75.1 48.0 61.6 95.1 54.2 74.7 14.5 10/13/16 0.00 14.45 59.0 37.6 48.3 95.3 39.0 67.2 11.5 10/14/16 0.00 14.45 63.3 34.8 49.1 97.1 38.5 67.8 9.8 10/15/16 0.00 14.45 71.4 41.8 56.6 93.4 60.0 76.7 12.9 10/16/16 0.58 15.03 65.8 60.9 63.4 96.5 78.8 87.7 11.2 10/17/16 0.01 15.04 78.3 59.7 69.0 96.6 61.6 79.1 18.2 10/18/16 0.00 15.04 76.8 51.1 64.0 93.3 57.9 75.6 15.9 10/19/16 0.04 15.08 72.7 44.7 58.7 96.7 33.4 65.1 8.8	10/10/16	0.00	14.13	65.5	37.5	51.5	95.3	40.4	67.9	11.2
10/13/16 0.00 14.45 59.0 37.6 48.3 95.3 39.0 67.2 11.5 10/14/16 0.00 14.45 63.3 34.8 49.1 97.1 38.5 67.8 9.8 10/15/16 0.00 14.45 71.4 41.8 56.6 93.4 60.0 76.7 12.9 10/16/16 0.58 15.03 65.8 60.9 63.4 96.5 78.8 87.7 11.2 10/17/16 0.01 15.04 78.3 59.7 69.0 96.6 61.6 79.1 18.2 10/18/16 0.00 15.04 76.8 51.1 64.0 93.3 57.9 75.6 15.9 10/19/16 0.04 15.08 72.7 44.7 58.7 96.7 33.4 65.1 8.8	10/11/16	0.00	14.13	71.0	47.0	59.0	91.8	42.6	67.2	8.8
10/14/16 0.00 14.45 63.3 34.8 49.1 97.1 38.5 67.8 9.8 10/15/16 0.00 14.45 71.4 41.8 56.6 93.4 60.0 76.7 12.9 10/16/16 0.58 15.03 65.8 60.9 63.4 96.5 78.8 87.7 11.2 10/17/16 0.01 15.04 78.3 59.7 69.0 96.6 61.6 79.1 18.2 10/18/16 0.00 15.04 76.8 51.1 64.0 93.3 57.9 75.6 15.9 10/19/16 0.04 15.08 72.7 44.7 58.7 96.7 33.4 65.1 8.8	10/12/16	0.32	14.45	75.1	48.0	61.6	95.1	54.2	74.7	14.5
10/15/16 0.00 14.45 71.4 41.8 56.6 93.4 60.0 76.7 12.9 10/16/16 0.58 15.03 65.8 60.9 63.4 96.5 78.8 87.7 11.2 10/17/16 0.01 15.04 78.3 59.7 69.0 96.6 61.6 79.1 18.2 10/18/16 0.00 15.04 76.8 51.1 64.0 93.3 57.9 75.6 15.9 10/19/16 0.04 15.08 72.7 44.7 58.7 96.7 33.4 65.1 8.8	10/13/16	0.00	14.45	59.0	37.6	48.3	95.3	39.0	67.2	11.5
10/16/16 0.58 15.03 65.8 60.9 63.4 96.5 78.8 87.7 11.2 10/17/16 0.01 15.04 78.3 59.7 69.0 96.6 61.6 79.1 18.2 10/18/16 0.00 15.04 76.8 51.1 64.0 93.3 57.9 75.6 15.9 10/19/16 0.04 15.08 72.7 44.7 58.7 96.7 33.4 65.1 8.8	10/14/16	0.00	14.45	63.3	34.8	49.1	97.1	38.5	67.8	9.8
10/17/16 0.01 15.04 78.3 59.7 69.0 96.6 61.6 79.1 18.2 10/18/16 0.00 15.04 76.8 51.1 64.0 93.3 57.9 75.6 15.9 10/19/16 0.04 15.08 72.7 44.7 58.7 96.7 33.4 65.1 8.8	10/15/16	0.00	14.45	71.4	41.8	56.6	93.4	60.0	76.7	12.9
10/18/16 0.00 15.04 76.8 51.1 64.0 93.3 57.9 75.6 15.9 10/19/16 0.04 15.08 72.7 44.7 58.7 96.7 33.4 65.1 8.8	10/16/16	0.58	15.03	65.8	60.9	63.4	96.5	78.8	87.7	11.2
10/19/16 0.04 15.08 72.7 44.7 58.7 96.7 33.4 65.1 8.8	10/17/16	0.01	15.04	78.3	59.7	69.0	96.6	61.6	79.1	18.2
	10/18/16	0.00	15.04	76.8	51.1	64.0	93.3	57.9	75.6	15.9
10/20/16 0.41 15.49 55.7 48.2 52.0 96.1 90.1 93.1 11.5	10/19/16	0.04	15.08	72.7	44.7	58.7	96.7	33.4	65.1	8.8
	10/20/16	0.41	15.49	55.7	48.2	52.0	96.1	90.1	93.1	11.5



APPENDIX B: DATA SUMMARIES

ARM 2016.4 AOV Means Table Page 1 of 4

Pacific Ag Research

Evaluation of the efficacy of foliar fertilizers on corn growth and weed control enhancement when used with post emergence herbicides.

Trial ID:ALB1601M

Location: Albion, MI

Trial Year:2016

Protocol ID:ALB1601M Project ID:ALB1601M Corn

Investigator:Eric Flora Study Director:Brian Cortright Sponsor Contact:Jeremy O'Brien

Pest Type Pest Code	W Weed SETVI	W Weed SETVI	W Weed CHEAL	W Weed CHEAL	W Weed ABUTH
Pest Scientific Name	Setaria viridi>	Setaria viridi>	Chenopodium al>	Chenopodium al>	Abutilon theop>
Pest Name	Green fo>	Green fo>	common lambsqu>	common lambsqu>	velvetleaf
Crop Code	Green 102	Green 102	common ambsqu>	common ambsqu>	veivelleai
BBCH Scale					
Crop Scientific Name					
Crop Name					
Crop Variety					
Description	% Control				
Part Assessed	PLANT P				
Assessment Date	07.01.16	07.16.16	07.01.16	07.16.16	07.01.16
Assessment Type	PESCON	PESCON	PESCON	PESCON	PESCON
Assessment Unit	%	%	%	%	%
Sample Size, Unit	1 PLOT				
Collection Basis, Unit	1 PLOT				
Number of Subsamples	1	1	1	1	1
Footnote Number					
SE Group No.	1	1	3	3	4
Days After First/Last Applic.	9 9	24 24	9 9	24 24	9 9
Trt-Eval Interval	9 DA-A	24 DA-A	9 DA-A	24 DA-A	9 DA-A
Plant-Eval Interval	29 DP-1	44 DP-1	29 DP-1	44 DP-1	29 DP-1
ARM Action Codes					
Number of Decimals	1	1	1	1	1
Trt Treatment Rate Appl					
No. Name Rate Unit Code	1	2	3	4	5
1Buccaner Plus 1qt/a A	100.0a	100.0a	91.3a	97.0a	88.8a
2Brandt Smart Trio 1qt/a A	87.5a	95.0a	80.0a	93.8a	82.5a
Buccaneer Plus 1qt/a A					
Brandt Smart Trio 1qt/a B					
3Albion B5 16fl oz/a A	92.5a	100.0a	71.3a	93.8a	81.3a
Buccaneer Plus 1qt/a A					
Albion B5 16fl oz/a B					
4Albion B5 1gt/a A	95.0a	96.3a	75.0a	91.3a	88.8a
· ·	95.0a	90.3a	75.0a	91.3a	00.0a
Buccaneer Plus 1qt/a A					
Albion B5 1qt/a B					
LSD P=.05	19.41	5.03	21.03	6.95	15.10
Standard Deviation	12.13	3.15	13.15	4.35	9.44
CV	12.94	3.22	16.57	4.63	11.06
Bartlett's X2	0.549	0.1	4.529	2.535	4.184
P(Bartlett's X2)	0.76	0.751	0.21	0.469	0.242
Skewness	-1.4656*	-1.5001*	-0.05	-0.6207	-0.6116
Kurtosis	0.4644	0.4729	-1.6936	-0.791	-1.0078
Replicate F	0.736	2.684	1.217	3.602	5.912
Replicate Prob(F)	0.5565	0.1097	0.3586	0.0588	0.0164
Treatment F	0.736	2.684	1.747	1.176	0.719
· · · · · · · · · · · · · · · · · · ·	0.750	0.1097	0.2269	0.3718	0 10

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

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL. Missing data estimates are included in columns:Yates=12,15,16,17

Could not calculate LSD (% mean diff) for columns 7,8,9,10,11 because error mean square = 0.

ARM 2016.4 AOV Means Table Page 2 of 4

Pacific Ag Research

Evaluation of the efficacy of foliar fertilizers on corn growth and weed control enhancement when used with post emergence herbicides.

Trial ID:ALB1601M

Location:Albion, MI

oion, MI Trial Year:2016

Protocol ID:ALB1601M Project ID:ALB1601M Corn Investigator:Eric Flora Study Director:Brian Cortright Sponsor Contact:Jeremy O'Brien

Pest Type Pest Code	W Weed ABUTH	W Weed AMBEL	W Weed SETVI	W Weed CHEAL	W Weed ABUTH
Pest Scientific Name	Abutilon theop>	Ambrosia artem>	Setaria viridi>	Chenopodium al>	Abutilon theop>
Pest Name	velvetleaf	Common ragweed	Green fo>	common lambsqu>	velvetleaf
Crop Code	vervetical	Common ragweed	Olech los	common ambaque	vervetical
BBCH Scale					
Crop Scientific Name					
Crop Name					
Crop Variety					
Description	% Control	% Control	Density	Density	Density
Part Assessed	PLANT P				
Assessment Date	07.16.16	07.01.16	07.01.16	07.01.16	07.01.16
Assessment Type	PESCON	PESCON	DENSITY	DENSITY	DENSITY
Assessment Unit	%	%	2FT2	2FT2	2FT2
Sample Size, Unit	1 PLOT				
Collection Basis, Unit	1 PLOT				
Number of Subsamples	1	1	1	1	1
Footnote Number					
SE Group No.	4	2	5	5	5
Days After First/Last Applic.	24 24	9 9	9 9	9 9	9 9
Trt-Eval Interval	24 DA-A	9 DA-A	9 DA-A	9 DA-A	9 DA-A
Plant-Eval Interval	44 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1
ARM Action Codes					
Number of Decimals	1	1	1	1	1
Trt Treatment Rate Appl					
No. Name Rate Unit Code	6	7	8	9	10
1Buccaner Plus 1qt/a A	98.8a	100.0a	5.0	19.0	5.0
2Brandt Smart Trio 1qt/a A	95.0a	100.0a	15.0	48.0	3.0
Buccaneer Plus 1qt/a A					
Brandt Smart Trio 1qt/a B					
3Albion B5 16fl oz/a A	100.0a	100.0a	6.0	19.0	5.0
Buccaneer Plus 1qt/a A					
Albion B5 16fl oz/a B					
4Albion B5 1qt/a A	100.0a	100.0a	6.0	14.0	2.0
Buccaneer Plus 1qt/a A					
Albion B5 1qt/a B					
LSD P=.05	7.57				
Standard Deviation	4.73	0.00	•	Ī	
CV	4.81	0.0		Ī	
Bartlett's X2	4.342	0.0]	
P(Bartlett's X2)	0.037*				
Skewness	-3.6516*		1.9382	1.8577	-0.3704
Kurtosis	13.7173*		3.814	3.5967	-3.9012
Replicate F	1.744	0.000			
Replicate Prob(F)	0.2275	1.0000			
Treatment F	1.000	0.000			
Treatment Prob(F)	0.4363	1.0000			
Treatment Tob(I)	0.4303	1.0000			

ARM 2016.4 AOV Means Table Page 3 of 4

Pacific Ag Research

Evaluation of the efficacy of foliar fertilizers on corn growth and weed control enhancement when used with post emergence herbicides.

Trial ID:ALB1601M Loca

Protocol ID:ALB1601M Project ID:ALB1601M Corn Location:Albion, MI Trial Year:2016
Investigator:Eric Flora

Study Director:Brian Cortright Sponsor Contact:Jeremy O'Brien

Pest Type Pest Code Pest Scientific Name Pest Name Crop Code BBCH Scale Crop Scientific Name Crop Variety Description Part Assessment Date Assessment Unit Sample Size, Unit Collection Basis, Unit	ZEAMX BCOR Zea mays Corn Phytotoxicity > PLANT C 07.16.16 PHYGEN % 1 PLOT 1 PLANT	ZEAMX BCOR Zea mays Corn Yield Weight EARHAR C 10.18.16 WEIGHT LB 1 ROW 1 PLOT	ZEAMX BCOR Zea mays Corn Percent Moistu> EARHAR C 10.18.16 MOICON % 1 ROW 1 PLOT	BCOR Zea mays Corn Test Weight (I> EARHAR C 10.18.16	ZEAMX BCOR Zea mays Corn Bu/Acre EARHAR C 10.18.16 YIELD BU 1 A 1 PLOT	ZEAMX BCOR Zea mays Com Yield (lb/Ac) EARHAR C 10.18.16 YIELD LB 1 A 1 PLOT	ZEAMX BCOR Zea mays Com \$3.5 per BU \$/ACRE EARHAR C 10.18.16 INCGRO DOLLAR 1 A 1 PLOT
Number of Subsamples Footnote Number SE Group No. Days After First/Last Applic. Trt-Eval Interval Plant-Eval Interval ARM Action Codes Number of Decimals Trt Treatment Rate Appl	1 6 24 24 24 DA-A 44 DP-1 1	1 1 7 118 91 91 DA-B 138 DP-1	1 8 118 91 91 DA-B 138 DP-1	1 9 118 91 91 DA-B 138 DP-1	1 10 118 91 91 DA-B 138 DP-1 TY1	1 11 118 91 91 DA-B 138 DP-1 TY2 2	1 12 118 91 91 DA-B 138 DP-1 T3
No. Name Rate Unit Code	11	12	13	14	15	16	17
1Buccaner Plus 1qt/a A	0.0a	39.15a	18.7A	57.3a	146.57a	8207.64a	512.98a
2Brandt Smart Trio 1qt/a A Buccaneer Plus 1qt/a A Brandt Smart Trio 1qt/a B	0.0a	36.09a	18.9A	56.5a	134.86a	7552.08a	472.01a
3Albion B5 16fl oz/a A Buccaneer Plus 1qt/a A Albion B5 16fl oz/a B	0.0a	39.81a	18.8A	57.0a	148.82a	8333.92a	520.87a
4Albion B5 1qt/a A Buccaneer Plus 1qt/a A Albion B5 1qt/a B	0.0a	39.91a	18.6A	57.2a	149.97a	8398.25a	524.89a
LSD P=.05 Standard Deviation CV Bartlett's X2 P(Bartlett's X2) Skewness Kurtosis	0.00 0.0 0.0	10.302 6.318 16.31 3.708 0.295 -1.5207* 3.8565*	1.28 0.80 4.29 6.116 0.106 0.2892 -0.5562		38.697 23.732 16.36 3.409 0.333 -1.5949* 4.1165*	2167.042 1328.991 16.36 3.409 0.333 -1.5949* 4.1165*	135.440 83.062 16.36 3.409 0.333 -1.5949* 4.1165*
Replicate F Replicate Prob(F) Treatment F Treatment Prob(F)	0.000 1.0000 0.000 1.0000	1.240 0.3573 0.324 0.8083	2.757 0.1041 0.105 0.9551	3.592 0.0592 0.130 0.9399	1.269 0.3485 0.342 0.7957	1.269 0.3485 0.342 0.7957	1.269 0.3485 0.342 0.7957

ARM 2016.4 AOV Means Table Page 4 of 4

Pacific Ag Research

Evaluation of the efficacy of foliar fertilizers on corn growth and weed control enhancement when used with post emergence herbicides.

Trial Year:2016

Trial ID:ALB1601M

Location:Albion, MI

Protocol ID:ALB1601M Project ID:ALB1601M Corn Investigator:Eric Flora Study Director:Brian Cortright Sponsor Contact:Jeremy O'Brien

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETVI, Setaria viridis, = US

CHEAL, Chenopodium album, = US

ABUTH, Abutilon theophrasti, = US

AMBEL, Ambrosia artemisiifolia, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Part Assessed

PLANT = plant

EARHAR = ear - harvestable

P = Pest is Part Rated

C = Crop is Part Rated

Assessment Type

PESCON = pest control

PHYGEN = phytotoxicity - general / injury

WEIGHT = weight

MOICON = moisture content

YIELD = yield

INCGRO = income - gross / value

Assessment Unit

% = percent

LB = pound

BU = bushel

DOLLAR = dollar

PLOT = total plot

ROW = row

BU = bushel

A = acre

PLOT = total plot

PLANT = plant/plant biomass/shrub

Plant-Eval Interval

29 DP-1 = 1 ZEAMX 06.02.16

44 DP-1 = 1 ZEAMX 06.02.16

138 DP-1 = 1 ZEAMX 06.02.16

ARM Action Codes

TY1 = 3.889286*[C12]*(100-[C13])/84.5

TY2 = 217.8*[C12]*(100-[C13])/84.5

T3 = 3.5*[C15]

Footnote 1: Plot 202 data was lost and there was no remaining crop for harvest. All 40 rowft of one 5 ft row per plot was harvested (200 ft2).

