

# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

### General Trial Information

**Study Director:** Pollard, Justin  
**Investigator:** Dr. Mark M. Loux

**Trial Status:** E established

**ARM Trial Created On:** Jun-2-2020  
**Initiation Date:** Jun-1-2020

### Trial Location

**Address (Location):** 7721 South Charleston Pike  
**City:** South Charleston **Country:** USA United States  
**State/Prov.:** Ohio  
**Postal Code:** 45368

**Latitude of LL Corner °:** 39.85601 N  
**Longitude of LL Corner °:** -83.67167 W  
**Altitude of LL Corner:** 830.00 FT

### Directions:

Latitude

LL 39.85601 -83.67176  
 UL 39.85656 -83.67155  
 UR 39.85654 -83.67101  
 LR 39.85598 -83.67107

**Conducted Under GLP:** No  
**Conducted Under GEP:** Yes

**Keywords:** PHYTOTOX EFFICACY YIELD

### Contacts

**Study Director:** Pollard, Justin

**Investigator:** Dr. Mark M. Loux

### Crop Description

**Crop 1:** C GLXMA Glycine max  
**Entry Date:** May-14-2020  
**Variety:** AG30XF0  
**Attributes:** DICAMBA, GLYPHOSATE, GLUFOSINATE TOL  
**Seed Lot No:** WN9SLG11  
**% Germination:** 90

Soybean

**Stage Scale:** BBCH  
**Maturity Group:** 3.0

**BBCH Scale:** BSOY

**Seed Source:** Asgrow

**Seed Size:** 2600 S/LB

**Seed Treatment Products:** Acceleron plus llevo

**Planting Rate:** 160000 S/A

**Planting Date:** Jun-1-2020

**Depth:** 1 IN

**Rows per Plot:** 8

**Row Spacing:** 15 IN

**Planting Method:** PLANTD planted

**Planting Equipment:** FE field equipment

**Seed Bed:** MEDIUM medium

**Soil Moisture:** NORMAL normal, adequate

**Soil Temperature:** 70 F

**Emergence Date:** Jun-12-2020

**Crop 2:** C GLXMA Glycine max  
**Entry Date:** May-28-2020  
**Variety:** AG36XF0  
**Attributes:** DICAMBA, GLYPHOSATE, GLUFOSINATE TOL  
**Seed Lot No:** MC9SAV11  
**% Germination:** 90

Soybean

**Stage Scale:** BBCH  
**Maturity Group:** 3.6

**BBCH Scale:** BSOY

**Seed Source:** Asgrow

**Seed Size:** 2280 S/LB

**Seed Treatment Products:** Acceleron plus llevo

**Planting Rate:** 160000 S/A

**Planting Date:** Jun-1-2020

**Depth:** 1 IN

**Rows per Plot:** 8

**Row Spacing:** 15 IN

**Planting Method:** PLANTD planted

**Planting Equipment:** FE field equipment

**Seed Bed:** MEDIUM medium

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**Soil Temperature:** 70 F  
**Emergence Date:** Jun-12-2020

**Soil Moisture:** NORMAL normal, adequate

**Crop 3:** C GLXMA Glycine max  
**Entry Date:** May-28-2020  
**Variety:** AG38XF0  
**Attributes:** DICAMBA, GLYPHOSATE, GLUFOSINATE TOL  
**Seed Lot No:** MC9SEY12  
**% Germination:** 90

Soybean **BBCH Scale:** BSOY  
**Stage Scale:** BBCH  
**Maturity Group:** 3.8  
**Seed Source:** Asgrow

**Seed Size:** 2500 S/LB  
**Seed Treatment Products:** Acceleron plus llevo  
**Planting Rate:** 160000 S/A

**Planting Date:** Jun-1-2020  
**Depth:** 1 IN  
**Rows per Plot:** 8  
**Row Spacing:** 15 IN

**Planting Method:** PLANTD planted  
**Planting Equipment:** FE field equipment  
**Seed Bed:** MEDIUM medium  
**Soil Moisture:** NORMAL normal, adequate

**Soil Temperature:** 70 F  
**Emergence Date:** Jun-12-2020

**Crop 4:** C GLXMA Glycine max  
**Entry Date:** May-28-2020  
**Variety:** CZ 3250GTLL  
**Attributes:** HPPD, GLYPHOSATE, GLUFOSINATE TOL  
**Seed Lot No:** XS0TGV045R  
**% Germination:** 90

Soybean **BBCH Scale:** BSOY  
**Stage Scale:** BBCH  
**Maturity Group:** 3.2  
**Seed Source:** Credenze

**Seed Size:** 2850 S/LB  
**Seed Treatment Products:** Poncho Votivo, llevo  
**Planting Rate:** 160000 S/A

**Planting Date:** Jun-1-2020  
**Depth:** 1 IN  
**Rows per Plot:** 8  
**Row Spacing:** 15 IN

**Planting Method:** PLANTD planted  
**Planting Equipment:** FE field equipment  
**Seed Bed:** MEDIUM medium  
**Soil Moisture:** NORMAL normal, adequate

**Soil Temperature:** 70 F  
**Emergence Date:** Jun-12-2020

**Crop 5:** C GLXMA Glycine max  
**Entry Date:** May-28-2020  
**Variety:** 3442FP  
**Attributes:** HPPD, GLYPHOSATE, GLUFOSINATE TOL  
**Seed Lot No:** F2012703  
**% Germination:** 90

Soybean **BBCH Scale:** BSOY  
**Stage Scale:** BBCH  
**Maturity Group:** 3.4  
**Seed Source:** Becks

**Seed Size:** 2572 S/LB  
**Seed Treatment Products:** Escalate  
**Planting Rate:** 160000 S/A

**Planting Date:** Jun-1-2020  
**Depth:** 1 IN  
**Rows per Plot:** 8  
**Row Spacing:** 15 IN

**Planting Method:** PLANTD planted  
**Planting Equipment:** FE field equipment  
**Seed Bed:** MEDIUM medium  
**Soil Moisture:** NORMAL normal, adequate

**Soil Temperature:** 70 F  
**Emergence Date:** Jun-12-2020

**Crop 6:** C GLXMA Glycine max  
**Entry Date:** May-28-2020  
**Variety:** 35GB20  
**Attributes:** HPPD, GLYPHOSATE, GLUFOSINATE TOL  
**Seed Lot No:** SWI932  
**% Germination:** 90

Soybean **BBCH Scale:** BSOY  
**Stage Scale:** BBCH  
**Maturity Group:** 3.5  
**Seed Source:** Stine

**Seed Size:** 2871 S/LB  
**Seed Treatment Products:** None  
**Planting Rate:** 160000 S/A

**Planting Date:** Jun-1-2020  
**Depth:** 1 IN  
**Rows per Plot:** 8  
**Row Spacing:** 15 IN

**Planting Method:** PLANTD planted  
**Planting Equipment:** FE field equipment  
**Seed Bed:** MEDIUM medium  
**Soil Moisture:** NORMAL normal, adequate

**Soil Temperature:** 70 F  
**Emergence Date:** Jun-12-2020

**Crop 7:** C GLXMA Glycine max  
**Entry Date:** May-28-2020  
**Variety:** 30T99E  
**Attributes:** 2,4-D Choline, Glyphosate, Glufosinate Tol  
**Seed Lot No:** B3WOO13049-00-0597  
**% Germination:** 90

Soybean **BBCH Scale:** BSOY  
**Stage Scale:** BBCH  
**Maturity Group:** 3.0  
**Seed Source:** Pioneer

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**Planting Date:** Jun-1-2020  
**Depth:** 1 IN  
**Rows per Plot:** 8  
**Row Spacing:** 15 IN  
**Soil Temperature:** 70 F  
**Emergence Date:** Jun-12-2020

**Crop 8:** C GLXMA Glycine max  
**Entry Date:** May-28-2020  
**Variety:** 35EB32  
**Attributes:** 2,4-D Choline, Glyphosate, Glufosinate Tol  
**Seed Lot No:** SW1916  
**% Germination:** 90

**Planting Date:** Jun-1-2020  
**Depth:** 1 IN  
**Rows per Plot:** 8  
**Row Spacing:** 15 IN  
**Soil Temperature:** 70 F  
**Emergence Date:** Jun-12-2020

**Crop 9:** C GLXMA Glycine max  
**Entry Date:** May-28-2020  
**Variety:** 3714ES  
**Attributes:** 2,4-D Choline, Glyphosate, Glufosinate Tol  
**Seed Lot No:** 36E3WF19  
**% Germination:** 90

**Planting Date:** Jun-1-2020  
**Depth:** 1 IN  
**Rows per Plot:** 8  
**Row Spacing:** 15 IN  
**Soil Temperature:** 70 F  
**Emergence Date:** Jun-12-2020

### Pest Description

**Pest 1 Type:** W **Code:** SETFA **Setaria faberi**  
**Common Name:** foxtail, giant **Entry Date:** Jun-29-2020

**Pest 2 Type:** W **Code:** AMBTR **Ambrosia trifida**  
**Common Name:** ragweed, giant **Entry Date:** Jun-29-2020

**Pest 3 Type:** W **Code:** AMARE **Amaranthus retroflexus**  
**Common Name:** pigweed, redroot **Entry Date:** Jun-29-2020

**Pest 4 Type:** W **Code:** CHEAL **Chenopodium album**  
**Common Name:** lambsquarters, common **Entry Date:** Jun-29-2020

**Pest 5 Type:** W **Code:** HIBTR **Hibiscus trionum**  
**Common Name:** mallow, Venice **Entry Date:** Jun-29-2020

### Site and Design

**Treated Plot Width:** 10 FT  
**Treated Plot Length:** 250 FT  
**Treated Plot Area:** 2500 FT<sup>2</sup> **Treatments:** 9  
**Replications:** 1

**Site Type:** RESPLO research plot  
**Experimental Unit:** 1 PLOT plot  
**Tillage Type:** CONTIL conventional-till  
**Study Design:** NONRAN Non-Randomized

**Previous**  
**No. Crop Year**  
 1. SOYBEAN 2019

### Soil Description

**Description Name:** F-6  
**% Sand:** 37 **% OM:** 1.7 **Texture:** L loam  
**% Silt:** 49 **pH:** 6.1 **Soil Name:** Strawn-Crosby  
**% Clay:** 15 **CEC:** 10.3 **Fert. Level:** G good

**Seed Size:** 2476 S/LB  
**Seed Treatment Products:** Lumige, Lumisena, llevo  
**Planting Rate:** 160000 S/A  
**Planting Method:** PLANTD planted  
**Planting Equipment:** FE field equipment  
**Seed Bed:** MEDIUM medium  
**Soil Moisture:** NORMAL normal, adequate

Soybean **BBCH Scale:** BSOY  
**Stage Scale:** BBCH  
**Maturity Group:** 3.5  
**Seed Source:** Stine

**Seed Size:** 2600 S/LB  
**Seed Treatment Products:** None  
**Planting Rate:** 160000 S/A  
**Planting Method:** PLANTD planted  
**Planting Equipment:** FE field equipment  
**Seed Bed:** MEDIUM medium  
**Soil Moisture:** NORMAL normal, adequate

Soybean **BBCH Scale:** BSOY  
**Stage Scale:** BBCH  
**Maturity Group:** 3.7  
**Seed Source:** Genesis

**Seed Size:** 2850 S/LB  
**Seed Treatment Products:** Swamp Master XT  
**Planting Rate:** 160000 S/A  
**Planting Method:** PLANTD planted  
**Planting Equipment:** FE field equipment  
**Seed Bed:** MEDIUM medium  
**Soil Moisture:** NORMAL normal, adequate

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**Analyzed By:**

Spectrum Analytic, Washington Court House, OH 11-27-2017

**Application Description**

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Application Date</b>	Jun-1-2020	Jun-29-2020	Jul-8-2020
<b>Appl. Start Time</b>	2:30 PM	8:30 AM	8:30 AM
<b>Appl. Stop Time</b>	3:00 PM	9:00 AM	8:45 AM
<b>Application Method</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing</b>	PREPRE	POSPOS	LAPOCR
<b>Application Placement</b>	BROSOI	BROFOL	BROFOL
<b>Applied By</b>	Dobbels	Dobbels	Kimmet
<b>Appl. Entry Date</b>	Jun-2-2020	Jun-29-2020	Jul-9-2020
<b>Air Temperature Start, Stop</b>	71 71 F	73 73 F	74 74 F
<b>% Relative Humidity Start, Stop</b>	28 28	93 93	89 89
<b>Wind Velocity+Dir. Start</b>	5 MPH SSW 1	MPH ENE 4	MPH ESE
<b>Wind Velocity+Dir. Stop</b>	5 MPH SSW 1	MPH ENE 4	MPH ESE
<b>Wind Velocity+Dir. Max</b>	5 MPH SSW 1	MPH ENE 4	MPH ESE
<b>Wet Leaves (Y/N)</b>	N no	Y yes	N no
<b>Soil Temperature</b>	71 F	69 F	72 F
<b>Soil Moisture</b>	NORMAL	DRY	MOIST
<b>Soil Surface Condition</b>	MEDIUM	MEDIUM	MEDIUM
<b>% Cloud Cover</b>	50	3	0
<b>Next Moisture Occurred On</b>	Jun-4-2020	Jul-1-2020	Jul-10-2020
<b>Time to Next Moisture</b>	3 DAY	2 DAY	2 DAY
<b>Moisture 6 Hours after Appl.</b>	0 IN	0 IN	0 IN
<b>Moisture 1 Week after Appl.</b>	0.01 IN	0.02 IN	0.49 IN

**Protocol Application Directions:****Site Considerations:**

Select site that is uniform for the region with moderate to high weed pressure.  
 Trial is designed to be a strip trial.  
 It may be beneficial to leave buffer areas between the 3 different trait blocks.  
 Trial is stewarded and must comply with appropriate GST-OPS.

**Seeding Considerations:**

**For germplasm 1, TRT 1-3: select three locally proven XtendFlex soybean varieties.**

**For germplasm 2, TRT 4-6: select three locally proven LLGT27 varieties.**

**For germplasm 3, TRT 7-9: select three locally proven E3 varieties.**

Use local standards for seeding rates.

Stewarded seeds will be delivered in double containments to indicated SRRs addresses and it should be stored in locked rooms until planting.

**Application Code Description:**

Start clean with tillage or if no-till/minimum tillage add glyphosate for burndown in your PREPRE (A) application.

A=PREPRE: Apply at planting

B=POSPOS: V3-V5 soybean or 4 inch weeds, whichever comes first

C=LAPOCR: as needed but prior to R1

All applications to be made at 15 GPA.

Any treatments including dicamba must use TTI nozzles. All other treatments should be applied using nozzles recommended by the herbicide label.

**Spray all rows of plot, yield center 2 rows.**

**Assessment Codes:**

PE12AD1 = When rating soybean injury, please give an overall % injury rating (%CI).

EE22AD3 = Please rate % weed control for all broadleaf and grass weeds present (w/ somewhat uniform population) by individual weed species using BAYER code for each species, DO NOT lump weeds together

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under one code (**%WC**).

HM41NA3 = Please provide yield data already corrected for 13% moisture.

### Rating Timings:

PE12AD1 = 14 DAT "B" application = B1 Assessment Code

PE12AD1 = 14 DAT "C" application = C1 Assessment Code

EE22AD3 = Just prior to "C" application = B2 Assessment Code

EE22AD3 = At Canopy or August 1st whichever comes first = E1 Assessment Code

EE22AD3 = At Harvest = H1 Assessment Code

HM41NA3 = Harvest Yield = H2 Assessment Code

### Photos:

Please take photos of 1st replication in treatment order (or representative rep) just prior to "C" application.

Please take photos of 1st replication in treatment order (or representative rep) at E1 (Canopy) Assessment Code Timing.

### Fate of Plots:

XtendFlex is still under stewardship requirements, so harvest should follow compliance guidelines.

Harvested stewarded grains CANNOT LEAVE PLOT. It must be dumped back into stewarded area and managed accordingly for volunteer control.

**YIELD is required.**

### Additional Comments:

Follow all state and federal application requirements.

**DO NOT DEVIATE FROM THE TREATMENT LIST OR ALTER RATES.**

### Reporting Dates:

In season data due September 1st

Final data due November 15th

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**Crop Stage At Each Application**

	<b>A</b>		<b>B</b>		<b>C</b>	
<b>Crop 1 Code, BBCH Scale</b>	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
<b>Days after Emergence</b>	-11		17		26	
<b>Stage Scale Used</b>	BBCH		BBCH		BBCH	
<b>Stage Majority, Percent</b>			13	100	16	90
<b>Stage Minimum, Percent</b>					16	90
<b>Stage Maximum, Percent</b>					51	10
<b>Height Average</b>			7	IN	11	IN
<b>Height Minimum, Maximum</b>			6	9	10	12
<b>Crop 2 Code, BBCH Scale</b>	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
<b>Days after Emergence</b>	-11		17		26	
<b>Stage Scale Used</b>	BBCH		BBCH		BBCH	
<b>Crop 3 Code, BBCH Scale</b>	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
<b>Days after Emergence</b>	-11		17		26	
<b>Stage Scale Used</b>	BBCH		BBCH		BBCH	
<b>Crop 4 Code, BBCH Scale</b>	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
<b>Days after Emergence</b>	-11		17		26	
<b>Stage Scale Used</b>	BBCH		BBCH		BBCH	
<b>Crop 5 Code, BBCH Scale</b>	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
<b>Days after Emergence</b>	-11		17		26	
<b>Stage Scale Used</b>	BBCH		BBCH		BBCH	
<b>Crop 6 Code, BBCH Scale</b>	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
<b>Days after Emergence</b>	-11		17		26	
<b>Stage Scale Used</b>	BBCH		BBCH		BBCH	
<b>Crop 7 Code, BBCH Scale</b>	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
<b>Days after Emergence</b>	-11		17		26	
<b>Stage Scale Used</b>	BBCH		BBCH		BBCH	
<b>Crop 8 Code, BBCH Scale</b>	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
<b>Days after Emergence</b>	-11		17		26	
<b>Stage Scale Used</b>	BBCH		BBCH		BBCH	
<b>Crop 9 Code, BBCH Scale</b>	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
<b>Days after Emergence</b>	-11		17		26	
<b>Stage Scale Used</b>	BBCH		BBCH		BBCH	

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### Pest Stage At Each Application

	A		B		C	
<b>Pest 1 Code, Type, Scale</b>	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent			18	80		
Stage Minimum, Percent			12			
Stage Maximum, Percent			19			
Height Average			7	IN		
Height Minimum, Maximum			1	18		
Density Average			275	PLA/m2		
Density Min, Max			95	321		
<b>Pest 2 Code, Type, Scale</b>	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent			19	90	19	100
Stage Minimum, Percent			15	10		
Stage Maximum, Percent			19	90		
Height Average			8	IN	8	IN
Height Minimum, Maximum			2	18	6	8
Density Average			5	PLA/m2	2	PLA/m2
Density Min, Max			1	7	0	5
<b>Pest 3 Code, Type, Scale</b>	AMARE	W	AMARE	W	AMARE	W
Stage Majority, Percent			16	80		
Stage Minimum, Percent			13			
Stage Maximum, Percent			17			
Height Average			4	IN		
Height Minimum, Maximum			3	5		
Density Average			6	PLA/m2		
Density Min, Max			3	9		
<b>Pest 4 Code, Type, Scale</b>	CHEAL	W	CHEAL	W	CHEAL	W
Stage Majority, Percent			19	90		
Stage Minimum, Percent			14			
Stage Maximum, Percent			19			
Height Average			7	IN		
Height Minimum, Maximum			2	14		
Density Average			4	PLA/m2		
Density Min, Max			2	6		
<b>Pest 5 Code, Type, Scale</b>	HIBTR	W	HIBTR	W	HIBTR	W
Stage Majority, Percent			16	80	13	90
Stage Minimum, Percent			12	10	12	10
Stage Maximum, Percent			18	10	13	90
Height Average			6	IN	3	IN
Height Minimum, Maximum			2	7	2	3
Density Average			3	PLA/m2	0.33	PLA/m2
Density Min, Max			0	8	0	1

### Application Equipment

	A		B		C	
<b>Appl. Equipment</b>	10'	TTI	10'	TTI	10'	AIXR
<b>Equipment Type</b>	BACCAI		BACCAI		BACCAI	
<b>Operation Pressure</b>	44	PSI	44	PSI	44	PSI
<b>Nozzle Type</b>	TTI		TTI		AIXR	
<b>Nozzle Size</b>	110015		110015		110015	
<b>Nozzle Spacing</b>	18	IN	18	IN	18	IN
<b>Boom Length</b>	10	FT	10	FT	10	FT
<b>Boom Height</b>	20	IN	20	IN	20	IN
<b>Ground Speed</b>	3	KPH	3	MPH	3	MPH
<b>Carrier</b>	WATER		WATER		WATER	
<b>Application Amount</b>	15	GAL/AC	15	GAL/AC	15	GAL/AC
<b>Mix Size</b>	3	GAL	3	GAL	2	L
<b>Propellant</b>	COMCO2		COMCO2		COMCO2	
<b>Tank Mix (Y/N)</b>	Y	yes	Y	yes		

Context	Date	By	Notes
STATUS	Mar-26-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	May-14-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Initiation Date entered.

### SE Definitions

	1.	2.	3.	4.	5.	6.
<b>Rating Timing</b>	B1	B2	C1	E1	H1	H2
<b>SE Name</b>	PE12AD1	EE22AD3	PE12AD1	EE22AD3	EE22AD3	HM41NA3
<b>SE Description</b>	Estimation % phytotoxicity (PHYGEN) (symptoms describe in co	1 weed, % Estimation % efficacy, in phytotoxicity untreated (PHYGEN) % coverage	Estimation % phytotoxicity (symptoms describe in co	1 weed, % efficacy, in untreated (PHYGEN) % coverage	1 weed, % efficacy, in untreated (PHYGEN) % coverage	harvest, BU/Acre, weight-standard moisture KG/HA

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Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR
Pest Name	foxtail, giant	barnyardgrass	ragweed, giant
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
Rating Timing			
Days After First/Last Applic.	36 8	36 8	36 8
Trt-Eval Interval	8 DA-B	8 DA-B	8 DA-B
Days After Emergence	25 DE-1	25 DE-1	25 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	1	2	3
1	AG30XF0						100	95	95
1	XTENDIMAX	828 g	ae/ha	22 oz/a		A			
1	WARRANT ULTRA HERBICIDE	1449 g	ai/ha	48 oz/a		A			
1	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	A			
1	XTENDIMAX	828 g	ae/ha	22 oz/a		B			
1	ROUNDUP POWER MAX	1263 g	ae/ha	32 oz/a		B			
1	WARRANT	1259 g	ai/ha	48 oz/a		B			
1	CLASS ACT RIDION	1 %	v/v	1 %	v/v	B			
1	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	B			
1	LIBERTY 280 SL	655 g	ai/ha	32 oz/a		C			
1	N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	C			
2	AG36XF0						100	95	95
2	XTENDIMAX	828 g	ae/ha	22 oz/a		A			
2	WARRANT ULTRA HERBICIDE	1449 g	ai/ha	48 oz/a		A			
2	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	A			
2	XTENDIMAX	828 g	ae/ha	22 oz/a		B			
2	ROUNDUP POWER MAX	1263 g	ae/ha	32 oz/a		B			
2	WARRANT	1259 g	ai/ha	48 oz/a		B			
2	CLASS ACT RIDION	1 %	v/v	1 %	v/v	B			
2	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	B			
2	LIBERTY 280 SL	655 g	ai/ha	32 oz/a		C			
2	N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	C			
3	AG38XF0						100	95	95
3	XTENDIMAX	828 g	ae/ha	22 oz/a		A			
3	WARRANT ULTRA HERBICIDE	1449 g	ai/ha	48 oz/a		A			
3	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	A			
3	XTENDIMAX	828 g	ae/ha	22 oz/a		B			
3	ROUNDUP POWER MAX	1263 g	ae/ha	32 oz/a		B			
3	WARRANT	1259 g	ai/ha	48 oz/a		B			
3	CLASS ACT RIDION	1 %	v/v	1 %	v/v	B			
3	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	B			
3	LIBERTY 280 SL	655 g	ai/ha	32 oz/a		C			
3	N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	C			
4	Credenz 3309GTLL						100	99	98
4	VERDICT	244 g	ai/ha	5 oz/a		A			
4	DURANGO DMA	1702 g	ae/ha	36 oz/a		B			
4	LIBERTY 280 SL	655 g	ai/ha	32 oz/a		B			
4	OUTLOOK	630.4 g	ai/ha	12 oz/a		B			
4	N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	B			
5	Becks 3442FP						100	99	98
5	VERDICT	244 g	ai/ha	5 oz/a		A			
5	DURANGO DMA	1702 g	ae/ha	36 oz/a		B			
5	LIBERTY 280 SL	655 g	ai/ha	32 oz/a		B			
5	OUTLOOK	630.4 g	ai/ha	12 oz/a		B			
5	AMS-XTRA	3 %	v/v	3 %	v/v	B			



# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR
Pest Name	foxtail, giant barnyardgrass	ragweed, giant	
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
Rating Timing			
Days After First/Last Applic.	36 8	36 8	36 8
Trt-Eval Interval	8 DA-B	8 DA-B	8 DA-B
Days After Emergence	25 DE-1	25 DE-1	25 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	1	2	3
6	Stine 35GB20					100	99	98
6	VERDICT	244 g ai/ha	5 oz/a		A			
6	DURANGO DMA	1702 g ae/ha	36 oz/a		B			
6	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
6	OUTLOOK	630.4 g ai/ha	12 oz/a		B			
6	N-PAK AMS LIQUID	3 % v/v	3 % v/v		B			
7	Pioneer 30T99E					100	83	90
7	ENLIST ONE	732 g ae/ha	22 oz/a		A			
7	SONIC	196.1 g ai/ha	4 oz/a		A			
7	ENLIST ONE	732 g ae/ha	22 oz/a		B			
7	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
7	DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
7	AMS-XTRA	3 % v/v	3 % v/v		B			
7	DURANGO DMA	1702 g ae/ha	36 oz/a		C			
7	N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			
8	Stine 35EB32					100	83	90
8	ENLIST ONE	732 g ae/ha	22 oz/a		A			
8	SONIC	196.1 g ai/ha	4 oz/a		A			
8	ENLIST ONE	732 g ae/ha	22 oz/a		B			
8	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
8	DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
8	AMS-XTRA	3 % v/v	3 % v/v		B			
8	DURANGO DMA	1702 g ae/ha	36 oz/a		C			
8	N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			
9	Geneis 3714ES					100	83	90
9	ENLIST ONE	732 g ae/ha	22 oz/a		A			
9	SONIC	196.1 g ai/ha	4 oz/a		A			
9	ENLIST ONE	732 g ae/ha	22 oz/a		B			
9	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
9	DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
9	AMS-XTRA	3 % v/v	3 % v/v		B			
9	DURANGO DMA	1702 g ae/ha	36 oz/a		C			
9	N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			

LSD P=.05	.	.	.
Standard Deviation	.	.	.
CV	.	.	.
Grand Mean	100.0	92.3	94.3
Levene's F	.	.	.
Levene's Prob(F)	.	.	.
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	.	-0.64	-0.3574
Kurtosis	.	-1.7143	-1.7143

# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed			
Pest Code	CHEAL	AMARE	ABUTH			
Pest Name	lambsquarters,>	pigweed, redro>	velvetleaf			
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Number of Subsamples	1	1	1			
Data Entry Date	Jul-7-2020	Jul-7-2020	Jul-7-2020			
Rating Timing						
Days After First/Last Applic.	36 8	36 8	36 8			
Trt-Eval Interval	8 DA-B	8 DA-B	8 DA-B			
Days After Emergence	25 DE-1	25 DE-1	25 DE-1			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Other Other	Appl	4	5	6
No. Name	Rate Unit	Rate Rate Unit	Code			
1 AG30XF0				100	100	100
1 XTENDIMAX	828 g ae/ha	22 oz/a	A			
1 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a	A			
1 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v	A			
1 XTENDIMAX	828 g ae/ha	22 oz/a	B			
1 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B			
1 WARRANT	1259 g ai/ha	48 oz/a	B			
1 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
1 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v	B			
1 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C			
1 N-PAK AMS LIQUID	3 % v/v	3 % v/v	C			
2 AG36XF0				100	100	100
2 XTENDIMAX	828 g ae/ha	22 oz/a	A			
2 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a	A			
2 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v	A			
2 XTENDIMAX	828 g ae/ha	22 oz/a	B			
2 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B			
2 WARRANT	1259 g ai/ha	48 oz/a	B			
2 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
2 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v	B			
2 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C			
2 N-PAK AMS LIQUID	3 % v/v	3 % v/v	C			
3 AG38XF0				100	100	100
3 XTENDIMAX	828 g ae/ha	22 oz/a	A			
3 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a	A			
3 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v	A			
3 XTENDIMAX	828 g ae/ha	22 oz/a	B			
3 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B			
3 WARRANT	1259 g ai/ha	48 oz/a	B			
3 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
3 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v	B			
3 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C			
3 N-PAK AMS LIQUID	3 % v/v	3 % v/v	C			
4 Credenz 3309GTLL				99	100	100
4 VERDICT	244 g ai/ha	5 oz/a	A			
4 DURANGO DMA	1702 g ae/ha	36 oz/a	B			
4 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B			
4 OUTLOOK	630.4 g ai/ha	12 oz/a	B			
4 N-PAK AMS LIQUID	3 % v/v	3 % v/v	B			
5 Becks 3442FP				99	100	100
5 VERDICT	244 g ai/ha	5 oz/a	A			
5 DURANGO DMA	1702 g ae/ha	36 oz/a	B			
5 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B			
5 OUTLOOK	630.4 g ai/ha	12 oz/a	B			
5 AMS-XTRA	3 % v/v	3 % v/v	B			

# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH
Pest Name	lambsquarters,>	pigweed, redro>	velvetleaf
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
Rating Timing			
Days After First/Last Applic.	36 8	36 8	36 8
Trt-Eval Interval	8 DA-B	8 DA-B	8 DA-B
Days After Emergence	25 DE-1	25 DE-1	25 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	4	5	6
6 Stine 35GB20					99	100	100
6 VERDICT	244 g ai/ha	5 oz/a		A			
6 DURANGO DMA	1702 g ae/ha	36 oz/a		B			
6 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
6 OUTLOOK	630.4 g ai/ha	12 oz/a		B			
6 N-PAK AMS LIQUID	3 % v/v	3 % v/v		B			
7 Pioneer 30T99E					100	100	100
7 ENLIST ONE	732 g ae/ha	22 oz/a		A			
7 SONIC	196.1 g ai/ha	4 oz/a		A			
7 ENLIST ONE	732 g ae/ha	22 oz/a		B			
7 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
7 DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
7 AMS-XTRA	3 % v/v	3 % v/v		B			
7 DURANGO DMA	1702 g ae/ha	36 oz/a		C			
7 N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			
8 Stine 35EB32					100	100	100
8 ENLIST ONE	732 g ae/ha	22 oz/a		A			
8 SONIC	196.1 g ai/ha	4 oz/a		A			
8 ENLIST ONE	732 g ae/ha	22 oz/a		B			
8 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
8 DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
8 AMS-XTRA	3 % v/v	3 % v/v		B			
8 DURANGO DMA	1702 g ae/ha	36 oz/a		C			
8 N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			
9 Geneis 3714ES					100	100	100
9 ENLIST ONE	732 g ae/ha	22 oz/a		A			
9 SONIC	196.1 g ai/ha	4 oz/a		A			
9 ENLIST ONE	732 g ae/ha	22 oz/a		B			
9 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
9 DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
9 AMS-XTRA	3 % v/v	3 % v/v		B			
9 DURANGO DMA	1702 g ae/ha	36 oz/a		C			
9 N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			

LSD P=.05	.	.	.
Standard Deviation	.	.	.
CV	.	.	.
Grand Mean	99.7	100.0	100.0
Levene's F	.	.	.
Levene's Prob(F)	.	.	.
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	-0.8571	.	.
Kurtosis	-1.7143	.	.

# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

Pest Type		W Weed	W Weed	W Weed
Pest Code		HIBTR	SETFA	ECHCG
Pest Name		mallow, Venice foxtail, giant barnyardgrass		
Rating Date		Jul-7-2020	Jul-20-2020	Jul-20-2020
Rating Type		CONTRO	CONTRO	CONTRO
Rating Unit		%	%	%
Number of Subsamples		1	1	1
Data Entry Date		Jul-7-2020	Jul-20-2020	
Rating Timing				
Days After First/Last Applic.		36 8	49 12	49 12
Trt-Eval Interval		8 DA-B	12 DA-C	12 DA-C
Days After Emergence		25 DE-1	38 DE-1	38 DE-1
Number of Decimals		0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	7	8	9
1	AG30XF0						90	100	100
1	XTENDIMAX	828 g	ae/ha	22 oz/a		A			
1	WARRANT ULTRA HERBICIDE	1449 g	ai/ha	48 oz/a		A			
1	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	A			
1	XTENDIMAX	828 g	ae/ha	22 oz/a		B			
1	ROUNDUP POWER MAX	1263 g	ae/ha	32 oz/a		B			
1	WARRANT	1259 g	ai/ha	48 oz/a		B			
1	CLASS ACT RIDION	1 %	v/v	1 %	v/v	B			
1	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	B			
1	LIBERTY 280 SL	655 g	ai/ha	32 oz/a		C			
1	N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	C			
2	AG36XF0						90	100	100
2	XTENDIMAX	828 g	ae/ha	22 oz/a		A			
2	WARRANT ULTRA HERBICIDE	1449 g	ai/ha	48 oz/a		A			
2	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	A			
2	XTENDIMAX	828 g	ae/ha	22 oz/a		B			
2	ROUNDUP POWER MAX	1263 g	ae/ha	32 oz/a		B			
2	WARRANT	1259 g	ai/ha	48 oz/a		B			
2	CLASS ACT RIDION	1 %	v/v	1 %	v/v	B			
2	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	B			
2	LIBERTY 280 SL	655 g	ai/ha	32 oz/a		C			
2	N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	C			
3	AG38XF0						90	100	100
3	XTENDIMAX	828 g	ae/ha	22 oz/a		A			
3	WARRANT ULTRA HERBICIDE	1449 g	ai/ha	48 oz/a		A			
3	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	A			
3	XTENDIMAX	828 g	ae/ha	22 oz/a		B			
3	ROUNDUP POWER MAX	1263 g	ae/ha	32 oz/a		B			
3	WARRANT	1259 g	ai/ha	48 oz/a		B			
3	CLASS ACT RIDION	1 %	v/v	1 %	v/v	B			
3	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	B			
3	LIBERTY 280 SL	655 g	ai/ha	32 oz/a		C			
3	N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	C			
4	Credenz 3309GTLL						85	100	100
4	VERDICT	244 g	ai/ha	5 oz/a		A			
4	DURANGO DMA	1702 g	ae/ha	36 oz/a		B			
4	LIBERTY 280 SL	655 g	ai/ha	32 oz/a		B			
4	OUTLOOK	630.4 g	ai/ha	12 oz/a		B			
4	N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	B			
5	Becks 3442FP						85	100	100
5	VERDICT	244 g	ai/ha	5 oz/a		A			
5	DURANGO DMA	1702 g	ae/ha	36 oz/a		B			
5	LIBERTY 280 SL	655 g	ai/ha	32 oz/a		B			
5	OUTLOOK	630.4 g	ai/ha	12 oz/a		B			
5	AMS-XTRA	3 %	v/v	3 %	v/v	B			

# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	HIBTR	SETFA	ECHCG
Pest Name	mallow, Venice foxtail, giant barnyardgrass		
Rating Date	Jul-7-2020	Jul-20-2020	Jul-20-2020
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date	Jul-7-2020 Jul-20-2020		
Rating Timing			
Days After First/Last Applic.	36 8	49 12	49 12
Trt-Eval Interval	8 DA-B	12 DA-C	12 DA-C
Days After Emergence	25 DE-1	38 DE-1	38 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	7	8	9
6 Stine 35GB20					85	100	100
6 VERDICT	244 g ai/ha		5 oz/a	A			
6 DURANGO DMA	1702 g ae/ha		36 oz/a	B			
6 LIBERTY 280 SL	655 g ai/ha		32 oz/a	B			
6 OUTLOOK	630.4 g ai/ha		12 oz/a	B			
6 N-PAK AMS LIQUID	3 % v/v		3 % v/v	B			
7 Pioneer 30T99E					100	100	100
7 ENLIST ONE	732 g ae/ha		22 oz/a	A			
7 SONIC	196.1 g ai/ha		4 oz/a	A			
7 ENLIST ONE	732 g ae/ha		22 oz/a	B			
7 LIBERTY 280 SL	655 g ai/ha		32 oz/a	B			
7 DUAL II MAGNUM	1069 g ai/ha		16 oz/a	B			
7 AMS-XTRA	3 % v/v		3 % v/v	B			
7 DURANGO DMA	1702 g ae/ha		36 oz/a	C			
7 N-PAK AMS LIQUID	2 % v/v		2 % v/v	C			
8 Stine 35EB32					100	100	100
8 ENLIST ONE	732 g ae/ha		22 oz/a	A			
8 SONIC	196.1 g ai/ha		4 oz/a	A			
8 ENLIST ONE	732 g ae/ha		22 oz/a	B			
8 LIBERTY 280 SL	655 g ai/ha		32 oz/a	B			
8 DUAL II MAGNUM	1069 g ai/ha		16 oz/a	B			
8 AMS-XTRA	3 % v/v		3 % v/v	B			
8 DURANGO DMA	1702 g ae/ha		36 oz/a	C			
8 N-PAK AMS LIQUID	2 % v/v		2 % v/v	C			
9 Geneis 3714ES					100	100	100
9 ENLIST ONE	732 g ae/ha		22 oz/a	A			
9 SONIC	196.1 g ai/ha		4 oz/a	A			
9 ENLIST ONE	732 g ae/ha		22 oz/a	B			
9 LIBERTY 280 SL	655 g ai/ha		32 oz/a	B			
9 DUAL II MAGNUM	1069 g ai/ha		16 oz/a	B			
9 AMS-XTRA	3 % v/v		3 % v/v	B			
9 DURANGO DMA	1702 g ae/ha		36 oz/a	C			
9 N-PAK AMS LIQUID	2 % v/v		2 % v/v	C			

LSD P=.05	.	.	.
Standard Deviation	.	.	.
CV	.	.	.
Grand Mean	91.7	100.0	100.0
Levene's F	.	.	.
Levene's Prob(F)	.	.	.
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	0.4628	.	.
Kurtosis	-1.7143	.	.

# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed				
Pest Code	AMBTR	CHEAL	AMARE				
Pest Name	ragweed, giant	lambsquarters,>	pigweed, redro>				
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020				
Rating Type	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%				
Number of Subsamples	1	1	1				
Data Entry Date							
Rating Timing							
Days After First/Last Applic.	49 12	49 12	49 12				
Trt-Eval Interval	12 DA-C	12 DA-C	12 DA-C				
Days After Emergence	38 DE-1	38 DE-1	38 DE-1				
Number of Decimals	0	0	0				
Trt Treatment	Rate	Other	Other	Appl	10	11	12
No. Name	Rate	Unit	Rate	Unit	Code		
1 AG30XF0						100	100
1 XTENDIMAX	828 g	ae/ha	22 oz/a		A		
1 WARRANT ULTRA HERBICIDE	1449 g	ai/ha	48 oz/a		A		
1 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	A		
1 XTENDIMAX	828 g	ae/ha	22 oz/a		B		
1 ROUNDUP POWER MAX	1263 g	ae/ha	32 oz/a		B		
1 WARRANT	1259 g	ai/ha	48 oz/a		B		
1 CLASS ACT RIDION	1 %	v/v	1 %	v/v	B		
1 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	B		
1 LIBERTY 280 SL	655 g	ai/ha	32 oz/a		C		
1 N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	C		
2 AG36XF0						100	100
2 XTENDIMAX	828 g	ae/ha	22 oz/a		A		
2 WARRANT ULTRA HERBICIDE	1449 g	ai/ha	48 oz/a		A		
2 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	A		
2 XTENDIMAX	828 g	ae/ha	22 oz/a		B		
2 ROUNDUP POWER MAX	1263 g	ae/ha	32 oz/a		B		
2 WARRANT	1259 g	ai/ha	48 oz/a		B		
2 CLASS ACT RIDION	1 %	v/v	1 %	v/v	B		
2 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	B		
2 LIBERTY 280 SL	655 g	ai/ha	32 oz/a		C		
2 N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	C		
3 AG38XF0						100	100
3 XTENDIMAX	828 g	ae/ha	22 oz/a		A		
3 WARRANT ULTRA HERBICIDE	1449 g	ai/ha	48 oz/a		A		
3 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	A		
3 XTENDIMAX	828 g	ae/ha	22 oz/a		B		
3 ROUNDUP POWER MAX	1263 g	ae/ha	32 oz/a		B		
3 WARRANT	1259 g	ai/ha	48 oz/a		B		
3 CLASS ACT RIDION	1 %	v/v	1 %	v/v	B		
3 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	B		
3 LIBERTY 280 SL	655 g	ai/ha	32 oz/a		C		
3 N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	C		
4 Credenz 3309GTLL						100	100
4 VERDICT	244 g	ai/ha	5 oz/a		A		
4 DURANGO DMA	1702 g	ae/ha	36 oz/a		B		
4 LIBERTY 280 SL	655 g	ai/ha	32 oz/a		B		
4 OUTLOOK	630.4 g	ai/ha	12 oz/a		B		
4 N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	B		
5 Becks 3442FP						100	100
5 VERDICT	244 g	ai/ha	5 oz/a		A		
5 DURANGO DMA	1702 g	ae/ha	36 oz/a		B		
5 LIBERTY 280 SL	655 g	ai/ha	32 oz/a		B		
5 OUTLOOK	630.4 g	ai/ha	12 oz/a		B		
5 AMS-XTRA	3 %	v/v	3 %	v/v	B		

# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	AMARE
Pest Name	ragweed, giant lambsquarters,>	pigweed, redro>	
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date			
Rating Timing			
Days After First/Last Applic.	49 12	49 12	49 12
Trt-Eval Interval	12 DA-C	12 DA-C	12 DA-C
Days After Emergence	38 DE-1	38 DE-1	38 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	10	11	12
6 Stine 35GB20					100	100	100
6 VERDICT	244 g ai/ha	5 oz/a		A			
6 DURANGO DMA	1702 g ae/ha	36 oz/a		B			
6 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
6 OUTLOOK	630.4 g ai/ha	12 oz/a		B			
6 N-PAK AMS LIQUID	3 % v/v	3 % v/v		B			
7 Pioneer 30T99E					100	100	100
7 ENLIST ONE	732 g ae/ha	22 oz/a		A			
7 SONIC	196.1 g ai/ha	4 oz/a		A			
7 ENLIST ONE	732 g ae/ha	22 oz/a		B			
7 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
7 DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
7 AMS-XTRA	3 % v/v	3 % v/v		B			
7 DURANGO DMA	1702 g ae/ha	36 oz/a		C			
7 N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			
8 Stine 35EB32					100	100	100
8 ENLIST ONE	732 g ae/ha	22 oz/a		A			
8 SONIC	196.1 g ai/ha	4 oz/a		A			
8 ENLIST ONE	732 g ae/ha	22 oz/a		B			
8 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
8 DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
8 AMS-XTRA	3 % v/v	3 % v/v		B			
8 DURANGO DMA	1702 g ae/ha	36 oz/a		C			
8 N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			
9 Geneis 3714ES					100	100	100
9 ENLIST ONE	732 g ae/ha	22 oz/a		A			
9 SONIC	196.1 g ai/ha	4 oz/a		A			
9 ENLIST ONE	732 g ae/ha	22 oz/a		B			
9 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
9 DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
9 AMS-XTRA	3 % v/v	3 % v/v		B			
9 DURANGO DMA	1702 g ae/ha	36 oz/a		C			
9 N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			

LSD P=.05	.	.	.
Standard Deviation	.	.	.
CV	.	.	.
Grand Mean	100.0	100.0	100.0
Levene's F	.	.	.
Levene's Prob(F)	.	.	.
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	.	.	.
Kurtosis	.	.	.

# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

Pest Type		W Weed	W Weed	W Weed			
Pest Code		ABUTH	HIBTR	SETFA			
Pest Name		velvetleaf	mallow, Venice	foxtail, giant			
Rating Date		Jul-20-2020	Jul-20-2020	Aug-6-2020			
Rating Type		CONTRO	CONTRO	CONTRO			
Rating Unit		%	%	%			
Number of Subsamples		1	1	1			
Data Entry Date			Jul-20-2020				
Rating Timing				CANOPY			
Days After First/Last Applic.		49 12	49 12	66 29			
Trt-Eval Interval		12 DA-C	12 DA-C	29 DA-C			
Days After Emergence		38 DE-1	38 DE-1	55 DE-1			
Number of Decimals		0	0	0			
Trt Treatment	Rate	Other	Other	Appl	13	14	15
No. Name	Rate Unit	Rate	Rate Unit	Code			
1 AG30XF0					100	100	100
1 XTENDIMAX	828 g ae/ha	22 oz/a		A			
1 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a		A			
1 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v		A			
1 XTENDIMAX	828 g ae/ha	22 oz/a		B			
1 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B			
1 WARRANT	1259 g ai/ha	48 oz/a		B			
1 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
1 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v		B			
1 LIBERTY 280 SL	655 g ai/ha	32 oz/a		C			
1 N-PAK AMS LIQUID	3 % v/v	3 % v/v		C			
2 AG36XF0					100	100	100
2 XTENDIMAX	828 g ae/ha	22 oz/a		A			
2 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a		A			
2 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v		A			
2 XTENDIMAX	828 g ae/ha	22 oz/a		B			
2 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B			
2 WARRANT	1259 g ai/ha	48 oz/a		B			
2 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
2 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v		B			
2 LIBERTY 280 SL	655 g ai/ha	32 oz/a		C			
2 N-PAK AMS LIQUID	3 % v/v	3 % v/v		C			
3 AG38XF0					100	100	100
3 XTENDIMAX	828 g ae/ha	22 oz/a		A			
3 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a		A			
3 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v		A			
3 XTENDIMAX	828 g ae/ha	22 oz/a		B			
3 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B			
3 WARRANT	1259 g ai/ha	48 oz/a		B			
3 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
3 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v		B			
3 LIBERTY 280 SL	655 g ai/ha	32 oz/a		C			
3 N-PAK AMS LIQUID	3 % v/v	3 % v/v		C			
4 Credenz 3309GTLL					100	100	100
4 VERDICT	244 g ai/ha	5 oz/a		A			
4 DURANGO DMA	1702 g ae/ha	36 oz/a		B			
4 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
4 OUTLOOK	630.4 g ai/ha	12 oz/a		B			
4 N-PAK AMS LIQUID	3 % v/v	3 % v/v		B			
5 Becks 3442FP					100	100	100
5 VERDICT	244 g ai/ha	5 oz/a		A			
5 DURANGO DMA	1702 g ae/ha	36 oz/a		B			
5 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
5 OUTLOOK	630.4 g ai/ha	12 oz/a		B			
5 AMS-XTRA	3 % v/v	3 % v/v		B			



# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	ABUTH	HIBTR	SETFA
Pest Name	velvetleaf	mallow, Venice	foxtail, giant
Rating Date	Jul-20-2020	Jul-20-2020	Aug-6-2020
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date		Jul-20-2020	
Rating Timing			CANOPY
Days After First/Last Applic.	49 12	49 12	66 29
Trt-Eval Interval	12 DA-C	12 DA-C	29 DA-C
Days After Emergence	38 DE-1	38 DE-1	55 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	13	14	15
6	Stine 35GB20					100	100	100
6	VERDICT	244 g ai/ha	5 oz/a		A			
6	DURANGO DMA	1702 g ae/ha	36 oz/a		B			
6	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
6	OUTLOOK	630.4 g ai/ha	12 oz/a		B			
6	N-PAK AMS LIQUID	3 % v/v	3 % v/v		B			
7	Pioneer 30T99E					100	100	100
7	ENLIST ONE	732 g ae/ha	22 oz/a		A			
7	SONIC	196.1 g ai/ha	4 oz/a		A			
7	ENLIST ONE	732 g ae/ha	22 oz/a		B			
7	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
7	DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
7	AMS-XTRA	3 % v/v	3 % v/v		B			
7	DURANGO DMA	1702 g ae/ha	36 oz/a		C			
7	N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			
8	Stine 35EB32					100	100	100
8	ENLIST ONE	732 g ae/ha	22 oz/a		A			
8	SONIC	196.1 g ai/ha	4 oz/a		A			
8	ENLIST ONE	732 g ae/ha	22 oz/a		B			
8	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
8	DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
8	AMS-XTRA	3 % v/v	3 % v/v		B			
8	DURANGO DMA	1702 g ae/ha	36 oz/a		C			
8	N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			
9	Geneis 3714ES					100	100	100
9	ENLIST ONE	732 g ae/ha	22 oz/a		A			
9	SONIC	196.1 g ai/ha	4 oz/a		A			
9	ENLIST ONE	732 g ae/ha	22 oz/a		B			
9	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
9	DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
9	AMS-XTRA	3 % v/v	3 % v/v		B			
9	DURANGO DMA	1702 g ae/ha	36 oz/a		C			
9	N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			

LSD P=.05	.	.	.
Standard Deviation	.	.	.
CV	.	.	.
Grand Mean	100.0	100.0	100.0
Levene's F	.	.	.
Levene's Prob(F)	.	.	.
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	.	.	.
Kurtosis	.	.	.

# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	CHEAL
Pest Name	barryardgrass	ragweed, giant	lambsquarters,>
Rating Date	Aug-6-2020	Aug-6-2020	Aug-6-2020
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date			
Rating Timing	CANOPY	CANOPY	CANOPY
Days After First/Last Applic.	66 29	66 29	66 29
Trt-Eval Interval	29 DA-C	29 DA-C	29 DA-C
Days After Emergence	55 DE-1	55 DE-1	55 DE-1
Number of Decimals	0	0	0
Trt Treatment	Rate	Other Other	Appl
No. Name	Rate Unit	Rate Rate Unit	Code
1 AG30XF0			16
1 XTENDIMAX			17
1 WARRANT ULTRA HERBICIDE			18
1 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)			
1 XTENDIMAX	828 g ae/ha	22 oz/a	
1 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	
1 WARRANT	1259 g ai/ha	48 oz/a	
1 CLASS ACT RIDION	1 % v/v	1 % v/v	
1 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v	
1 LIBERTY 280 SL	655 g ai/ha	32 oz/a	
1 N-PAK AMS LIQUID	3 % v/v	3 % v/v	
2 AG36XF0			100
2 XTENDIMAX			100
2 WARRANT ULTRA HERBICIDE			100
2 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)			
2 XTENDIMAX	828 g ae/ha	22 oz/a	
2 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	
2 WARRANT	1259 g ai/ha	48 oz/a	
2 CLASS ACT RIDION	1 % v/v	1 % v/v	
2 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v	
2 LIBERTY 280 SL	655 g ai/ha	32 oz/a	
2 N-PAK AMS LIQUID	3 % v/v	3 % v/v	
3 AG38XF0			100
3 XTENDIMAX			100
3 WARRANT ULTRA HERBICIDE			100
3 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)			
3 XTENDIMAX	828 g ae/ha	22 oz/a	
3 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	
3 WARRANT	1259 g ai/ha	48 oz/a	
3 CLASS ACT RIDION	1 % v/v	1 % v/v	
3 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	0.5 % v/v	
3 LIBERTY 280 SL	655 g ai/ha	32 oz/a	
3 N-PAK AMS LIQUID	3 % v/v	3 % v/v	
4 Credenz 3309GTLL			100
4 VERDICT			100
4 DURANGO DMA			100
4 LIBERTY 280 SL			
4 OUTLOOK			
4 N-PAK AMS LIQUID			
5 Becks 3442FP			100
5 VERDICT			100
5 DURANGO DMA			100
5 LIBERTY 280 SL			
5 OUTLOOK			
5 AMS-XTRA			

# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	CHEAL
Pest Name	barnyardgrass	ragweed, giant	lambsquarters,>
Rating Date	Aug-6-2020	Aug-6-2020	Aug-6-2020
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date			
Rating Timing	CANOPY	CANOPY	CANOPY
Days After First/Last Applic.	66 29	66 29	66 29
Trt-Eval Interval	29 DA-C	29 DA-C	29 DA-C
Days After Emergence	55 DE-1	55 DE-1	55 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	16	17	18
6 Stine 35GB20				100	100	100
6 VERDICT	244 g ai/ha	5 oz/a	A			
6 DURANGO DMA	1702 g ae/ha	36 oz/a	B			
6 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B			
6 OUTLOOK	630.4 g ai/ha	12 oz/a	B			
6 N-PAK AMS LIQUID	3 % v/v	3 % v/v	B			
7 Pioneer 30T99E				100	100	100
7 ENLIST ONE	732 g ae/ha	22 oz/a	A			
7 SONIC	196.1 g ai/ha	4 oz/a	A			
7 ENLIST ONE	732 g ae/ha	22 oz/a	B			
7 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B			
7 DUAL II MAGNUM	1069 g ai/ha	16 oz/a	B			
7 AMS-XTRA	3 % v/v	3 % v/v	B			
7 DURANGO DMA	1702 g ae/ha	36 oz/a	C			
7 N-PAK AMS LIQUID	2 % v/v	2 % v/v	C			
8 Stine 35EB32				100	100	100
8 ENLIST ONE	732 g ae/ha	22 oz/a	A			
8 SONIC	196.1 g ai/ha	4 oz/a	A			
8 ENLIST ONE	732 g ae/ha	22 oz/a	B			
8 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B			
8 DUAL II MAGNUM	1069 g ai/ha	16 oz/a	B			
8 AMS-XTRA	3 % v/v	3 % v/v	B			
8 DURANGO DMA	1702 g ae/ha	36 oz/a	C			
8 N-PAK AMS LIQUID	2 % v/v	2 % v/v	C			
9 Geneis 3714ES				100	100	100
9 ENLIST ONE	732 g ae/ha	22 oz/a	A			
9 SONIC	196.1 g ai/ha	4 oz/a	A			
9 ENLIST ONE	732 g ae/ha	22 oz/a	B			
9 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B			
9 DUAL II MAGNUM	1069 g ai/ha	16 oz/a	B			
9 AMS-XTRA	3 % v/v	3 % v/v	B			
9 DURANGO DMA	1702 g ae/ha	36 oz/a	C			
9 N-PAK AMS LIQUID	2 % v/v	2 % v/v	C			

LSD P=.05	.	.	.
Standard Deviation	.	.	.
CV	.	.	.
Grand Mean	100.0	100.0	100.0
Levene's F	.	.	.
Levene's Prob(F)	.	.	.
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	.	.	.
Kurtosis	.	.	.

# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed				
Pest Code	AMARE	ABUTH	HIBTR				
Pest Name	pigweed, redro>	velvetleaf	mallow, Venice				
Rating Date	Aug-6-2020	Aug-6-2020	Aug-6-2020				
Rating Type	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%				
Number of Subsamples	1	1	1				
Data Entry Date			Aug-6-2020				
Rating Timing	CANOPY	CANOPY	CANOPY				
Days After First/Last Applic.	66 29	66 29	66 29				
Trt-Eval Interval	29 DA-C	29 DA-C	29 DA-C				
Days After Emergence	55 DE-1	55 DE-1	55 DE-1				
Number of Decimals	0	0	0				
Trt Treatment	Rate	Other	Other	Appl	19	20	21
No. Name	Rate	Unit	Rate	Unit	Code		
1 AG30XF0						100	100
1 XTENDIMAX	828 g	ae/ha	22 oz/a		A		
1 WARRANT ULTRA HERBICIDE	1449 g	ai/ha	48 oz/a		A		
1 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	A		
1 XTENDIMAX	828 g	ae/ha	22 oz/a		B		
1 ROUNDUP POWER MAX	1263 g	ae/ha	32 oz/a		B		
1 WARRANT	1259 g	ai/ha	48 oz/a		B		
1 CLASS ACT RIDION	1 %	v/v	1 %	v/v	B		
1 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	B		
1 LIBERTY 280 SL	655 g	ai/ha	32 oz/a		C		
1 N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	C		
2 AG36XF0						100	100
2 XTENDIMAX	828 g	ae/ha	22 oz/a		A		
2 WARRANT ULTRA HERBICIDE	1449 g	ai/ha	48 oz/a		A		
2 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	A		
2 XTENDIMAX	828 g	ae/ha	22 oz/a		B		
2 ROUNDUP POWER MAX	1263 g	ae/ha	32 oz/a		B		
2 WARRANT	1259 g	ai/ha	48 oz/a		B		
2 CLASS ACT RIDION	1 %	v/v	1 %	v/v	B		
2 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	B		
2 LIBERTY 280 SL	655 g	ai/ha	32 oz/a		C		
2 N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	C		
3 AG38XF0						100	100
3 XTENDIMAX	828 g	ae/ha	22 oz/a		A		
3 WARRANT ULTRA HERBICIDE	1449 g	ai/ha	48 oz/a		A		
3 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	A		
3 XTENDIMAX	828 g	ae/ha	22 oz/a		B		
3 ROUNDUP POWER MAX	1263 g	ae/ha	32 oz/a		B		
3 WARRANT	1259 g	ai/ha	48 oz/a		B		
3 CLASS ACT RIDION	1 %	v/v	1 %	v/v	B		
3 INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 %	v/v	0.5 %	v/v	B		
3 LIBERTY 280 SL	655 g	ai/ha	32 oz/a		C		
3 N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	C		
4 Credenz 3309GTLL						100	100
4 VERDICT	244 g	ai/ha	5 oz/a		A		
4 DURANGO DMA	1702 g	ae/ha	36 oz/a		B		
4 LIBERTY 280 SL	655 g	ai/ha	32 oz/a		B		
4 OUTLOOK	630.4 g	ai/ha	12 oz/a		B		
4 N-PAK AMS LIQUID	3 %	v/v	3 %	v/v	B		
5 Becks 3442FP						100	100
5 VERDICT	244 g	ai/ha	5 oz/a		A		
5 DURANGO DMA	1702 g	ae/ha	36 oz/a		B		
5 LIBERTY 280 SL	655 g	ai/ha	32 oz/a		B		
5 OUTLOOK	630.4 g	ai/ha	12 oz/a		B		
5 AMS-XTRA	3 %	v/v	3 %	v/v	B		

# The Ohio State University

## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08  
 Trial ID: 20SOYYLD2  
 Protocol ID: HP20USAJU2  
 Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Pollard, Justin  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMARE	ABUTH	HIBTR
Pest Name	pigweed, redro>	velvetleaf	mallow, Venice
Rating Date	Aug-6-2020	Aug-6-2020	Aug-6-2020
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date			Aug-6-2020
Rating Timing	CANOPY	CANOPY	CANOPY
Days After First/Last Applic.	66 29	66 29	66 29
Trt-Eval Interval	29 DA-C	29 DA-C	29 DA-C
Days After Emergence	55 DE-1	55 DE-1	55 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Appl Unit Code	19	20	21
6	Stine 35GB20					100	100	100
6	VERDICT	244 g ai/ha	5 oz/a		A			
6	DURANGO DMA	1702 g ae/ha	36 oz/a		B			
6	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
6	OUTLOOK	630.4 g ai/ha	12 oz/a		B			
6	N-PAK AMS LIQUID	3 % v/v	3 % v/v		B			
7	Pioneer 30T99E					100	100	100
7	ENLIST ONE	732 g ae/ha	22 oz/a		A			
7	SONIC	196.1 g ai/ha	4 oz/a		A			
7	ENLIST ONE	732 g ae/ha	22 oz/a		B			
7	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
7	DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
7	AMS-XTRA	3 % v/v	3 % v/v		B			
7	DURANGO DMA	1702 g ae/ha	36 oz/a		C			
7	N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			
8	Stine 35EB32					100	100	100
8	ENLIST ONE	732 g ae/ha	22 oz/a		A			
8	SONIC	196.1 g ai/ha	4 oz/a		A			
8	ENLIST ONE	732 g ae/ha	22 oz/a		B			
8	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
8	DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
8	AMS-XTRA	3 % v/v	3 % v/v		B			
8	DURANGO DMA	1702 g ae/ha	36 oz/a		C			
8	N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			
9	Geneis 3714ES					100	100	100
9	ENLIST ONE	732 g ae/ha	22 oz/a		A			
9	SONIC	196.1 g ai/ha	4 oz/a		A			
9	ENLIST ONE	732 g ae/ha	22 oz/a		B			
9	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
9	DUAL II MAGNUM	1069 g ai/ha	16 oz/a		B			
9	AMS-XTRA	3 % v/v	3 % v/v		B			
9	DURANGO DMA	1702 g ae/ha	36 oz/a		C			
9	N-PAK AMS LIQUID	2 % v/v	2 % v/v		C			

LSD P=.05	.	.	.
Standard Deviation	.	.	.
CV	.	.	.
Grand Mean	100.0	100.0	100.0
Levene's F	.	.	.
Levene's Prob(F)	.	.	.
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	.	.	.
Kurtosis	.	.	.

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## Competitive Soybean Systems Comparison

Title No. 2: 2020-01-B7-08

Trial ID: 20SOYYLD2

Protocol ID: HP20USAJU2

Project ID: LOCAL\_PROJ

Location: Western Branch F-6 Trial Year: 2020

Investigator: Dr. Mark M. Loux

Study Director: Pollard, Justin

Sponsor Contact:

### Pest Type

W, Weed = Weed or volunteer crop

### Pest Code

SETFA, Setaria faberi, foxtail, giant = US

ECHCG, Echinochloa crus-galli, barnyardgrass = US

AMBTR, Ambrosia trifida, ragweed, giant = US

CHEAL, Chenopodium album, lambsquarters, common = US

AMARE, Amaranthus retroflexus, pigweed, redroot = US

ABUTH, Abutilon theophrasti, velvetleaf = US

HIBTR, Hibiscus trionum, mallow, Venice = US

### Rating Type

CONTRO = control / burndown or knockdown

### Rating Unit

% = percent