

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
Trial ID: 20RRXFYLD Location: Western Branch Big E Trial Year: 2020  
Protocol ID: HP20USAJU1 Investigator: Dr. Mark M. Loux  
Project ID: LOCAL\_PROJ 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:** Mar-26-2020  
**Initiation Date:** May-13-2020

### 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 °:** 39.85611 N  
**Longitude of LL Corner °:** -83.67024 W  
**Altitude of LL Corner:** 1097.00 FT

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

**Keywords:** PHYTOTOX EFFICACY YIELD  
EFFICACY PHYTOTOX

### Objectives:

Evaluate multiple herbicide programs to provide recommendations for XtendFlex Soybean launch. The primary objective is to evaluate POST XtendFlex soybeans safety and weed control with XtendiMax and Roundup PowerMAX plus tank-mix products.

2. Evaluate performance of MON 301286 with and without the adjuvants on weed control and crop safety.

3. Does addition of Liberty to the tank help the system or antagonizes the weed control.

Rate crop injury 3, 7, 14 DAT and weed efficacy for individual species present at 14 and 21 DAT.

MON 301286 is a premix of MEA salt of dicamba and MEA salt of glyphosate. The reason for the update in MON # from MON 119151 to MON 301286 is due to a change in the manufacturing process that required to generate a new MON#.

Treatments 1 through 11 were conducted in 2019 also, this is year 2 data on safety and weed control of XtendiMax + Roundup PowerMAX with various tank-mix combinations and MON 301286 with different adjuvants and tank-mixes.

### Contacts

**Study Director:** Pollard, Justin

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

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**Crop Description**

<p><b>Crop 1:</b> C GLXMA Glycine max Soybean  <b>Entry Date:</b> May-14-2020  <b>Variety:</b> AG30XF0  <b>Attributes:</b> Glyphosate, Glufosinate, and Dicamba  <b>Seed Lot No:</b> WN9SLG11  <b>% Germination:</b> 90</p>	<p><b>Stage Scale:</b> BBCH</p> <p><b>Seed Size:</b> 2600 S/LB  <b>Seed Treatment Products:</b> Fluxapyroxad Imidacloprid Metalaxyl Pyraclostrobin  <b>Planting Rate:</b> 160000 S/A</p> <p><b>Planting Method:</b> PLANTD planted  <b>Planting Equipment:</b> FE field equipment  <b>Seed Bed:</b> MEDIUM medium  <b>Soil Moisture:</b> NORMAL normal, adequate</p>
<p><b>Planting Date:</b> May-13-2020  <b>Depth:</b> 2 IN  <b>Rows per Plot:</b> 8  <b>Row Spacing:</b> 15 IN</p> <p><b>Soil Temperature:</b> 62 F  <b>Emergence Date:</b> May-25-2020</p>	

**Pest Description**

<p><b>Pest 1 Type:</b> W <b>Code:</b> AMBTR Ambrosia trifida  <b>Common Name:</b> ragweed, giant</p>	<b>Entry Date:</b> Jun-25-2020
<p><b>Pest 2 Type:</b> W <b>Code:</b> SETPU Setaria helvola  <b>Common Name:</b> yellow foxtail</p>	<b>Entry Date:</b> Jun-25-2020
<p><b>Pest 3 Type:</b> W <b>Code:</b> SETFA Setaria faberi  <b>Common Name:</b> foxtail, giant</p>	<b>Entry Date:</b> Jun-25-2020
<p><b>Pest 4 Type:</b> W <b>Code:</b> SIDSP Sida spinosa  <b>Common Name:</b> sida, prickly</p>	<b>Entry Date:</b> Jun-25-2020
<p><b>Pest 5 Type:</b> W <b>Code:</b> CHEAL Chenopodium album  <b>Common Name:</b> lambsquarters, common</p>	<b>Entry Date:</b> Jun-25-2020
<p><b>Pest 6 Type:</b> W <b>Code:</b> ABUTH Abutilon theophrasti  <b>Common Name:</b> velvetleaf</p>	<b>Entry Date:</b> Jun-25-2020
<p><b>Pest 7 Type:</b> W <b>Code:</b> AMARE Amaranthus retroflexus  <b>Common Name:</b> pigweed, redroot</p>	<b>Entry Date:</b> Jul-9-2020

**Site and Design**

<p><b>Treated Plot Width:</b> 10 FT  <b>Treated Plot Length:</b> 30 FT  <b>Treated Plot Area:</b> 300 FT2  <b>Replications:</b> 4</p>	<p><b>Site Type:</b> RESPLO research plot  <b>Experimental Unit:</b> 1 PLOT plot  <b>Tillage Type:</b> CONTIL conventional-till  <b>Study Design:</b> RACOB� Randomized Complete Block (RCB)</p>
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**Previous**

No.	Crop	Year
1.	CORN	2019

**Soil Description**

**Description Name:** Big E

<p><b>% Sand:</b> 44  <b>% Silt:</b> 45  <b>% Clay:</b> 11</p>	<p><b>% OM:</b> 3.1  <b>pH:</b> 6.6  <b>CEC:</b> 15.2</p>	<p><b>Texture:</b> L loam  <b>Soil Name:</b> Kokomo  <b>Fert. Level:</b> G good</p>
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**Soil Drainage:** G good

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### Application Description

	A	B	C
Application Date	May-13-2020	Jun-24-2020	Jul-8-2020
Appl. Start Time	4:00 AM	8:00 AM	8:15 AM
Appl. Stop Time	4:30 AM	8:30 AM	8:30 AM
Interval to Prev. Appl.		42 DAYS	14 DAYS
Application Method	SPRAY	SPRAY	SPRAY
Application Timing	PREPRE	EAPOCR	POSPOS
Application Placement	BROSOI	BROFOL	BROFOL
Applied By	Ackley and Essman	Dobbels	Kimmet
Appl. Entry Date	May-14-2020	Jun-25-2020	Jul-9-2020
Air Temperature Start, Stop	64 64 F	66 66 F	74 74 F
% Relative Humidity Start, Stop	32 32	80 80	89 89
Wind Velocity+Dir. Start	10 MPH SE	8 MPH W	4 MPH ESE
Wind Velocity+Dir. Stop	10 MPH SE	8 MPH W	4 MPH ESE
Wind Velocity+Dir. Max	11 MPH SE	8 MPH W	4 MPH ESE
Wet Leaves (Y/N)	N no	Y yes	N no
Soil Temperature	62 F	69 F	72 F
Soil Moisture	NORMAL	SLIWET	MOIST
Soil Surface Condition	MEDIUM	MEDIUM	MEDIUM
% Cloud Cover	25	30	0
Next Moisture Occurred On	May-14-2020	Jun-25-2020	Jul-10-2020
Time to Next Moisture	14 HR	1 DAY	2 DAY
Moisture 6 Hours after Appl.	0 IN	0 IN	0 IN
Moisture 1 Week after Appl.	2.52 IN	0.09 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 stewarded and must comply with appropriate GST-OPS.

#### Seeding Considerations:

**Use XtendFlex soybean.** 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.

A=PREPRE: Apply at planting

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

C=POSPOS: 4 inch weeds or 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 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 = At Canopy or August 1st whichever comes first = E1 Assessment Code

EE22AD3 = At Harvest = H1 Assessment Code

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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

Experimental Field Trials must be clearly and continuously marked to avoid unauthorized entry or accidental harvest. Any harvestable portion of the crop treated with non-registered compounds or registered products experimentally tested off-label must be destroyed. Crop destruction date and method shall be reported to Bayer.

### Objective:

The primary objective is to evaluate POST XtendFlex soybeans safety and weed control with XtendiMax and Roundup PowerMAX plus tank-mix products and with dicamba and glyphosate PREMIX formulations.

Start clean with tillage or a blanket burndown herbicide application across entire study prior to planting. Use burndown herbicides that are effective and DO NOT have residual activity.

Apply a blanket PRE herbicide application (A timing) of Warrant (1.125 lb ai/A) + Metribuzin (0.25 lb ai/A).

Uniform weed pressure of grass and/or broadleaf weeds is ideal, with waterhemp or Palmer amaranth preferred for the POST (B timing).

Please make "B" applications with a TTI nozzle set to deliver coarse droplets for ALL treatments in the study.

### Agronomics and Trial Setup:

XtendFlex Soybean Stewarded and 10 Acre Soybean trial. Plant at your local population seeding rate. Please note soybean emergence date.

### APPLICATION:

A=PREPRE = apply pre emergence after planting before weeds or crop emerges

B=EAPOCR= early POST to crop. TARGET V3-V4 soybean or no more than 45 days after planting,

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whichever comes first

### TREATMENTS:

Please evaluate all treatments in the protocol. All treatments (1-15) are core. **Please DO NOT alter rates or change treatment order of the core set of treatments (1-15).**

### CROP DESTRUCT REQUIREMENTS:

**This is a XtendFlex Stewarded and 10 acre regulated trial.** Crop destruct after final rating. It is a stewarded and 10 Acre Trial and grain CANNOT enter commerce. Please follow ALL requirements.

Trial must be conducted in accordance with "10 Acre Rule" regulations; USC-OPS-007 NONREGISTERED CROP PROTECTION PRODUCT (CPP) FIELD TRIAL REQUIREMENTS FOR THE U.S.

### ASSESSMENT:

Photos would be appreciated throughout the season

**Crop tolerance** - PE12AD1- percent crop injury on 0-100% scale of all inclusive crop injury vs. the baseline in the untreated control plots. This needs to be just a general crop injury evaluation. Do not separate into various types (chlorosis, necrosis, etc).

### **Target evaluations (CI):**

4 days after "B" (B1- range 3-5 days)  
7 days after "B" (B2- range 6-10 days)  
14 days after "B" (B3- range 11-18 days)  
Note if injury persists

**Weed Control** - EE22AD3 - percent weed control on 0-100% scale. Please rate % weed control for each individual species. Record percent ground cover of each weed in UTC.

### Target evaluations (WC):

14 days after "B" (B3- range 11-18 days)  
21 days after "B" (B4- range 19-25 days)

### **Reporting Dates:**

Final reports due: **August 1st, 2020**

### **Sample Orders:**

All herbicides for this protocol should be ordered by the crop protection TDR for internal and external locations that have been assigned in SCOUT.

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**Crop Stage At Each Application**

Crop 1 Code, BBCH Scale	A		B		C	
	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Days after Emergence	-12		30		44	
Stage Scale Used	BBCH		BBCH		BBCH	
Stage Majority, Percent			14	100	16	100
Height Average			8	IN	12	IN
Height Minimum, Maximum			6	10	10	13

**Pest Stage At Each Application**

Pest 1 Code, Type, Scale	A		B		C	
	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent			18	80	19	100
Stage Minimum, Percent			16	10		
Stage Maximum, Percent			19	10		
Height Average			10	IN	10	IN
Height Minimum, Maximum			4	16	8	12
Density Average			10	PLA/m2	10	PLA/m2
Density Min, Max			4	16	4	16
Pest 2 Code, Type, Scale	SETPU		SETPU		SETPU	
Stage Majority, Percent			16	80	23	100
Stage Minimum, Percent			14	10		
Stage Maximum, Percent			19	10		
Height Average			4	IN	3	IN
Height Minimum, Maximum			2	6	2	6
Density Average			93	PLA/m2	5	PLA/m2
Density Min, Max			50	300	1	12
Pest 3 Code, Type, Scale	SETFA		SETFA		SETFA	
Stage Majority, Percent			13	80		
Stage Minimum, Percent			13	80		
Stage Maximum, Percent			15	10		
Height Average			4	IN		
Height Minimum, Maximum			2	6		
Density Average			380	PLA/m2		
Density Min, Max			72	1000		
Pest 4 Code, Type, Scale	SIDSP		SIDSP		SIDSP	
Stage Majority, Percent			18	80		
Stage Minimum, Percent			16	10		
Stage Maximum, Percent			19	10		
Height Average			2	IN		
Height Minimum, Maximum			2	4		
Density Average			9	PLA/m2		
Density Min, Max			0	24		
Pest 5 Code, Type, Scale	CHEAL		CHEAL		CHEAL	
Stage Majority, Percent			16	80		
Stage Minimum, Percent			14	10		
Stage Maximum, Percent			19	10		
Height Average			16	80		
Height Minimum, Maximum			14	19		
Density Average			17	PLA/m2		
Density Min, Max			3	48		
Pest 6 Code, Type, Scale	ABUTH		ABUTH		ABUTH	
Stage Majority, Percent			16	80		
Stage Minimum, Percent			14	10		
Stage Maximum, Percent			18	10		
Height Average			4	IN		
Height Minimum, Maximum			2	4		
Density Average			1	PLA/m2		
Density Min, Max			0.25	2		
Pest 7 Code, Type, Scale	AMARE		AMARE		AMARE	
Density Average			10	PLA/m2		
Density Min, Max			1	40		

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### Application Equipment

	A	B	C
<b>Appl. Equipment</b>	10' TTI	10' TTI	10' TTI
<b>Equipment Type</b>	BACCAI	BACCAI	BACCAI
<b>Operation Pressure</b>	44 PSI	44 PSI	44 PSI
<b>Nozzle Type</b>	TTI	TTI	TTI
<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 MPH	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>	2 L	2 L	2 L
<b>Propellant</b>	COMCO2	COMCO2	COMCO2
<b>Tank Mix (Y/N)</b>	Y yes	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	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 Planting Date entered.
STATUS	May-14-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Application Date entered.

### SE Definitions

	1.	2.	3.	4.	5.	6.	7.	8.	9.
<b>Rating Timing</b>	B1	C1	E1	H1	H2	B1	B2	B3	B3
<b>SE Name</b>	PE12AD1	PE12AD1	EE22AD3	EE22AD3	HM41NA3	PE12AD1	PE12AD1	PE12AD1	EE22AD3
<b>SE Description</b>	Estimation % phytotoxicity (PHYGEN) (symptoms) describe in co	Estimation % phytotoxicity (PHYGEN) (symptoms) describe in co	1 weed, % efficacy, in untreated % coverage	1 weed, % efficacy, in untreated % coverage	harvest, measurement BU/Acre, weight-standard moisture KG/HA	Estimation % phytotoxicity (PHYGEN) (symptoms) describe in co	Estimation % phytotoxicity (PHYGEN) (symptoms) describe in co	Estimation % phytotoxicity (PHYGEN) (symptoms) describe in co	1 weed, % efficacy, in untreated % coverage

	10.
<b>Rating Timing</b>	B4
<b>SE Name</b>	EE22AD3
<b>SE Description</b>	1 weed, % efficacy, in untreated % coverage

<b>Pest Type</b>	W Weed	W Weed	W Weed	W Weed
<b>Pest Code</b>	SETFA	SETPU	AMBTR	CHEAL
<b>Pest Scientific Name</b>	Setaria faberi	Setaria helvola	Ambrosia trifida	Chenopodium album
<b>Pest Name</b>	Giant foxtail	yellow foxtail	Giant common ragweed	
<b>Crop Type, Code</b>				
<b>BBCH Scale</b>				
<b>Crop Scientific Name</b>				
<b>Crop Name</b>				
<b>Rating Date</b>	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
<b>Rating Type</b>	CONTRO	CONTRO	CONTRO	CONTRO
<b>Rating Unit</b>	%	%	%	%
<b>Number of Subsamples</b>	1	1	1	1
<b>Data Entry Date</b>	Jun-23-2020	Jun-23-2020	Jun-23-2020	Jun-23-2020
<b>Days After First/Last Applic.</b>	40 40	40 40	40 40	40 40
<b>Trt-Eval Interval</b>	40 DA-A	40 DA-A	40 DA-A	40 DA-A
<b>Plant-Eval Interval</b>	40 DP-1	40 DP-1	40 DP-1	40 DP-1
<b>Days After Emergence</b>	28 DE-1	28 DE-1	28 DE-1	28 DE-1
<b>Number of Decimals</b>	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	1*	2*	3*	4*
1	UNTREATED						0 c	0 f	0 -	0 c

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	SETPU	AMBTR	CHEAL
Pest Scientific Name	Setaria faberi	Setaria helvola	Ambrosia trifida	Chenopodium al-
Pest Name	Giant foxtail	yellow foxtail	Giant common lambsqu- ragweed	
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-23-2020	Jun-23-2020	Jun-23-2020	Jun-23-2020
Days After First/Last Applic.	40 40	40 40	40 40	40 40
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate Rate Unit	Other Rate Rate Unit	Appl Code	1*	2*	3*	4*
2 XTENDIMAX	828 g ae/ha	22 oz/a		A	70 ab	61 a	31 -	100 a
2 WARRANT	1259 g ai/ha	48 oz/a		A				
2 MAULER	280.6 g ai/ha	8 oz/a		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	0.5 % v/v	0.5 % v/v		B				
3 XTENDIMAX	828 g ae/ha	22 oz/a		A	68 ab	48 a-e	41 -	100 a
3 WARRANT	1259 g ai/ha	48 oz/a		A				
3 MAULER	280.6 g ai/ha	8 oz/a		A				
3 LIBERTY 280 SL	655 g ai/ha	32 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 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
4 XTENDIMAX	828 g ae/ha	22 oz/a		A	71 ab	55 a-d	33 -	100 a
4 WARRANT	1259 g ai/ha	48 oz/a		A				
4 MAULER	280.6 g ai/ha	8 oz/a		A				
4 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B				
4 WARRANT	1259 g ai/ha	48 oz/a		B				
4 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
5 XTENDIMAX	828 g ae/ha	22 oz/a		A	65 ab	48 a-e	38 -	100 a
5 WARRANT	1259 g ai/ha	48 oz/a		A				
5 MAULER	280.6 g ai/ha	8 oz/a		A				
5 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B				
5 WARRANT	1259 g ai/ha	48 oz/a		B				
5 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
5 LIBERTY 280 SL	655 g ai/ha	32 oz/a		C				
5 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				
6 XTENDIMAX	828 g ae/ha	22 oz/a		A	75 a	54 a-d	30 -	100 a
6 WARRANT	1259 g ai/ha	48 oz/a		A				
6 MAULER	280.6 g ai/ha	8 oz/a		A				
6 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B				
6 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a		B				
6 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
6 LIBERTY 280 SL	655 g ai/ha	32 oz/a		C				
6 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				



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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	SETPU	AMBTR	CHEAL
Pest Scientific Name	Setaria faberi	Setaria Ambrosia trifida	Chenopodium al-	
Pest Name	Giant foxtail	yellow foxtail	Giant common lambsqu-	ragweed
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-23-2020	Jun-23-2020	Jun-23-2020	Jun-23-2020
Days After First/Last Applic.	40 40	40 40	40 40	40 40
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	1*	2*	3*	4*
7 WARRANT	1259 g ai/ha	48 oz/a	A	63 ab	38 de	33 -	100 a
7 MAULER	280.6 g ai/ha	8 oz/a	A				
7 XTENDIMAX	828 g ae/ha	22 oz/a	B				
7 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
7 WARRANT	1259 g ai/ha	48 oz/a	B				
7 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
7 INTACT	0.5 % v/v	0.5 % v/v	B				
8 WARRANT	1259 g ai/ha	48 oz/a	A	70 ab	50 a-e	35 -	100 a
8 MAULER	280.6 g ai/ha	8 oz/a	A				
8 XTENDIMAX	828 g ae/ha	22 oz/a	B				
8 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
8 WARRANT	1259 g ai/ha	48 oz/a	B				
8 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
8 INTACT	0.5 % v/v	0.5 % v/v	B				
8 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C				
8 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				
9 WARRANT	1259 g ai/ha	48 oz/a	A	68 ab	60 ab	38 -	95 ab
9 MAULER	280.6 g ai/ha	8 oz/a	A				
9 XTENDIMAX	828 g ae/ha	22 oz/a	B				
9 WARRANT	1259 g ai/ha	48 oz/a	B				
9 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
9 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	C				
9 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				
10 WARRANT	1259 g ai/ha	48 oz/a	A	63 ab	48 a-e	43 -	100 a
10 MAULER	280.6 g ai/ha	8 oz/a	A				
10 XTENDIMAX	828 g ae/ha	22 oz/a	B				
10 WARRANT	1259 g ai/ha	48 oz/a	B				
10 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
10 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C				
10 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	C				
10 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				
11 WARRANT	1259 g ai/ha	48 oz/a	A	73 ab	53 a-e	40 -	100 a
11 MAULER	280.6 g ai/ha	8 oz/a	A				
11 XTENDIMAX	828 g ae/ha	22 oz/a	B				
11 WARRANT	1259 g ai/ha	48 oz/a	B				
11 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
11 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C				
11 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	SETPU	AMBTR	CHEAL
Pest Scientific Name	Setaria faberi	Setaria helvola	Ambrosia trifida	Chenopodium album
Pest Name	Giant foxtail	yellow foxtail	Giant common lambsquagweed	
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-23-2020	Jun-23-2020	Jun-23-2020	Jun-23-2020
Days After First/Last Applic.	40 40	40 40	40 40	40 40
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	1*	2*	3*	4*
12 WARRANT	1259 g ai/ha	48 oz/a	A	63 ab	40 cde	25 -	95 ab
12 MAULER	280.6 g ai/ha	8 oz/a	A				
12 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B				
12 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
12 WARRANT	1259 g ai/ha	48 oz/a	B				
12 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
13 WARRANT	1259 g ai/ha	48 oz/a	A	65 ab	48 a-e	30 -	100 a
13 MAULER	280.6 g ai/ha	8 oz/a	A				
13 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B				
13 WARRANT	1259 g ai/ha	48 oz/a	B				
13 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
14 XTENDIMAX	828 g ae/ha	22 oz/a	A	60 b	35 e	71 -	83 b
14 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a	A				
14 INTACT	0.5 % v/v	0.5 % v/v	A				
14 XTENDIMAX	828 g ae/ha	22 oz/a	B				
14 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
14 WARRANT	1259 g ai/ha	48 oz/a	B				
14 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
14 INTACT	0.5 % v/v	0.5 % v/v	B				
15 XTENDIMAX	828 g ae/ha	22 oz/a	A	63 ab	43 b-e	59 -	95 ab
15 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a	A				
15 INTACT	0.5 % v/v	0.5 % v/v	A				
15 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B				
15 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
15 WARRANT	1259 g ai/ha	48 oz/a	B				
15 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
16 WARRANT	1259 g ai/ha	48 oz/a	A	73 ab	56 abc	43 -	95 ab
16 MAULER	280.6 g ai/ha	8 oz/a	A				
LSD P=.05				12.5	18.5	31.5	14.4
Standard Deviation				8.8	13.0	22.1	10.1
CV				13.96	28.37	60.25	11.06
Grand Mean				62.9	45.9	36.7	91.4
Levene's F				1.507	0.949	1.355	0.836
Levene's Prob(F)				0.141	0.52	0.208	0.635
Rank X2				.	.	.	.
P(Rank X2)				.	.	.	.
Skewness				-2.0819*	-0.5982	-0.1318	-3.1259*
Kurtosis				5.1342*	0.9659	-1.1812*	8.5195*
Replicate F				7.555	2.299	2.589	0.913
Replicate Prob(F)				0.0003	0.0902	0.0645	0.4423
Treatment F				15.621	4.884	1.864	24.089
Treatment Prob(F)				0.0001	0.0001	0.0544	0.0001

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	AMARE	ABUTH	SIDSP	SETFA	
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Sida spinosa	Setaria faberi	
Pest Name	Redroot pigweed	velvetleaf	Prickly sida	Giant foxtail	
Crop Type, Code				C GLXMA	
BBCH Scale				BSOY	
Crop Scientific Name				Glycine max	
Crop Name				Soybean	
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jul-7-2020	
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC	
Rating Unit	%	%	%	%	
Number of Subsamples	1	1	1	1	
Data Entry Date	Jun-23-2020	Jun-23-2020	Jun-23-2020	Jul-7-2020	
Days After First/Last Applic.	40 40	40 40	40 40	55 13	
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	13 DA-B	
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	55 DP-1	
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	43 DE-1	
Number of Decimals	0	0	0	0	
Trt Treatment No. Name	Rate	Other	Other	Appl	
	Rate	Rate	Rate	Unit Code	
	5*	6*	7*	8*	9*
1 UNTREATED	0 b	0 b	0 c	0 c	0 c

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed		W Weed
Pest Code	AMARE	ABUTH	SIDSP		SETFA
Pest Scientific Name	Amaranthus ret> Abutilon theop> Sida spinosa				Setaria faberi
Pest Name	Redroot pigweed	velvetleaf	Prickly sida		Giant foxtail
Crop Type, Code					C GLXMA
BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020		Jul-7-2020
Rating Type	CONTRO	CONTRO	CONTRO		PHYNEC
Rating Unit	%	%	%		%
Number of Subsamples	1	1	1		1
Data Entry Date	Jun-23-2020	Jun-23-2020	Jun-23-2020		Jul-7-2020
Days After First/Last Applic.	40 40	40 40	40 40		55 13
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A		13 DA-B
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1		55 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1		43 DE-1
Number of Decimals	0	0	0		0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	5*	6*	7*	8*	9*
2	XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	100 a	53 ab	1 abc	100 a
2	WARRANT	1259 g ai/ha	48 oz/a		A					
2	MAULER	280.6 g ai/ha	8 oz/a		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	0.5 % v/v	0.5 % v/v		B					
3	XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	100 a	55 ab	1 bc	100 a
3	WARRANT	1259 g ai/ha	48 oz/a		A					
3	MAULER	280.6 g ai/ha	8 oz/a		A					
3	LIBERTY 280 SL	655 g ai/ha	32 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	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B					
4	XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	99 a	43 ab	1 bc	94 a
4	WARRANT	1259 g ai/ha	48 oz/a		A					
4	MAULER	280.6 g ai/ha	8 oz/a		A					
4	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B					
4	WARRANT	1259 g ai/ha	48 oz/a		B					
4	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B					
5	XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	100 a	43 ab	1 abc	98 a
5	WARRANT	1259 g ai/ha	48 oz/a		A					
5	MAULER	280.6 g ai/ha	8 oz/a		A					
5	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B					
5	WARRANT	1259 g ai/ha	48 oz/a		B					
5	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B					
5	LIBERTY 280 SL	655 g ai/ha	32 oz/a		C					
5	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C					
6	XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	97 a	55 ab	3 a	100 a
6	WARRANT	1259 g ai/ha	48 oz/a		A					
6	MAULER	280.6 g ai/ha	8 oz/a		A					
6	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B					
6	WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a		B					
6	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B					
6	LIBERTY 280 SL	655 g ai/ha	32 oz/a		C					
6	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C					

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	ABUTH	SIDSP	SETFA
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Sida spinosa	Setaria faberi
Pest Name	Redroot pigweed	velvetleaf	Prickly sida	Giant foxtail
Crop Type, Code				C GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jul-7-2020
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-23-2020	Jun-23-2020	Jun-23-2020	Jul-7-2020
Days After First/Last Applic.	40 40	40 40	40 40	55 13
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	13 DA-B
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	55 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	43 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	5*	6*	7*	8*	9*
7 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	43 ab	1 bc	100 a
7 MAULER	280.6 g ai/ha	8 oz/a	A					
7 XTENDIMAX	828 g ae/ha	22 oz/a	B					
7 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B					
7 WARRANT	1259 g ai/ha	48 oz/a	B					
7 CLASS ACT RIDION	1 % v/v	1 % v/v	B					
7 INTACT	0.5 % v/v	0.5 % v/v	B					
8 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	40 ab	0 c	100 a
8 MAULER	280.6 g ai/ha	8 oz/a	A					
8 XTENDIMAX	828 g ae/ha	22 oz/a	B					
8 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B					
8 WARRANT	1259 g ai/ha	48 oz/a	B					
8 CLASS ACT RIDION	1 % v/v	1 % v/v	B					
8 INTACT	0.5 % v/v	0.5 % v/v	B					
8 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C					
8 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C					
9 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	43 ab	0 c	75 b
9 MAULER	280.6 g ai/ha	8 oz/a	A					
9 XTENDIMAX	828 g ae/ha	22 oz/a	B					
9 WARRANT	1259 g ai/ha	48 oz/a	B					
9 CLASS ACT RIDION	1 % v/v	1 % v/v	B					
9 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	C					
9 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C					
10 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	62 a	0 c	72 b
10 MAULER	280.6 g ai/ha	8 oz/a	A					
10 XTENDIMAX	828 g ae/ha	22 oz/a	B					
10 WARRANT	1259 g ai/ha	48 oz/a	B					
10 CLASS ACT RIDION	1 % v/v	1 % v/v	B					
10 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C					
10 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	C					
10 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C					
11 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	88 a	37 b	0 c	75 b
11 MAULER	280.6 g ai/ha	8 oz/a	A					
11 XTENDIMAX	828 g ae/ha	22 oz/a	B					
11 WARRANT	1259 g ai/ha	48 oz/a	B					
11 CLASS ACT RIDION	1 % v/v	1 % v/v	B					
11 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C					
11 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C					

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed		W Weed
Pest Code	AMARE	ABUTH	SIDSP		SETFA
Pest Scientific Name	Amaranthus ret> Abutilon theop> Sida spinosa				Setaria faberi
Pest Name	Redroot pigweed	velvetleaf	Prickly sida		Giant foxtail
Crop Type, Code					C GLXMA
BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020		Jul-7-2020
Rating Type	CONTRO	CONTRO	CONTRO		PHYNEC
Rating Unit	%	%	%		%
Number of Subsamples	1	1	1		1
Data Entry Date	Jun-23-2020	Jun-23-2020	Jun-23-2020		Jul-7-2020
Days After First/Last Applic.	40 40	40 40	40 40		55 13
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A		13 DA-B
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1		55 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1		43 DE-1
Number of Decimals	0	0	0		0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	5*	6*	7*	8*	9*
12 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	45 ab	2 ab	100 a
12 MAULER	280.6 g ai/ha	8 oz/a	A					
12 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B					
12 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B					
12 WARRANT	1259 g ai/ha	48 oz/a	B					
12 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B					
13 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	96 a	48 ab	1 abc	98 a
13 MAULER	280.6 g ai/ha	8 oz/a	A					
13 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B					
13 WARRANT	1259 g ai/ha	48 oz/a	B					
13 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B					
14 XTENDIMAX	828 g ae/ha	22 oz/a	A	100 a	88 a	45 ab	1 bc	100 a
14 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a	A					
14 INTACT	0.5 % v/v	0.5 % v/v	A					
14 XTENDIMAX	828 g ae/ha	22 oz/a	B					
14 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B					
14 WARRANT	1259 g ai/ha	48 oz/a	B					
14 CLASS ACT RIDION	1 % v/v	1 % v/v	B					
14 INTACT	0.5 % v/v	0.5 % v/v	B					
15 XTENDIMAX	828 g ae/ha	22 oz/a	A	100 a	100 a	40 ab	2 ab	100 a
15 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a	A					
15 INTACT	0.5 % v/v	0.5 % v/v	A					
15 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B					
15 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B					
15 WARRANT	1259 g ai/ha	48 oz/a	B					
15 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B					
16 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	48 ab	0 c	80 b
16 MAULER	280.6 g ai/ha	8 oz/a	A					
LSD P=.05					13.6	22.0	1.7	9.1
Standard Deviation				0.0	9.5	15.4	1.2	6.4
CV				0.0	10.04	36.21	146.8	7.33
Grand Mean				93.8	94.7	42.4	0.8	86.9
Levene's F				0.00	0.811	0.689	1.863	2.068
Levene's Prob(F)				.	0.66	0.779	0.053	0.029*
Rank X2				.	.	.	.	.
P(Rank X2)				.	.	.	.	.
Skewness				-3.7021*	-4.1283*	-0.0277	1.2874*	-2.5969*
Kurtosis				12.0825*	16.9404*	1.67*	0.4205	6.4312*
Replicate F				0.000	0.717	1.189	0.773	1.324
Replicate Prob(F)				1.0000	0.5476	0.3280	0.5154	0.2783
Treatment F				0.000	14.456	2.742	2.027	63.945
Treatment Prob(F)				1.0000	0.0001	0.0070	0.0345	0.0001

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type Pest Code Pest Scientific Name  Pest Name  Crop Type, Code BBCH Scale Crop Scientific Name Crop Name Rating Date Rating Type Rating Unit Number of Subsamples Data Entry Date Days After First/Last Applic. Trt-Eval Interval Plant-Eval Interval Days After Emergence Number of Decimals	W Weed SETPU Setaria helvola  W Weed AMBTR Ambrosia trifi>  W Weed CHEAL Chenopodium al>  W Weed AMARE Amaranthus ret>  yellow foxtail Giant ragweed common lambsqu> Redroot pigweed	Jul-7-2020 CONTRO % 1 Jul-7-2020 CONTRO % 1 Jul-7-2020 Jul-7-2020 55 13 13 DA-B 55 DP-1 43 DE-1 0	Jul-7-2020 CONTRO % 1 Jul-7-2020 Jul-7-2020 55 13 13 DA-B 55 DP-1 43 DE-1 0	Jul-7-2020 CONTRO % 1 Jul-7-2020 Jul-7-2020 55 13 13 DA-B 55 DP-1 43 DE-1 0	Jul-7-2020 CONTRO % 1 Jul-7-2020 Jul-7-2020 55 13 13 DA-B 55 DP-1 43 DE-1 0			
Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit Code	Appl Code	10*	11*	12*	13*
1 UNTREATED	0 d	0 e	0 c	0 b				

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETPU	AMBTR	CHEAL	AMARE
Pest Scientific Name	Setaria helvola	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>

Pest Name yellow foxtail Giant ragweed common lambsqu> Redroot pigweed

Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020
Days After First/Last Applic.	55 13	55 13	55 13	55 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	43 DE-1	43 DE-1	43 DE-1	43 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	10*	11*	12*	13*
2 XTENDIMAX	828 g ae/ha	22 oz/a	A	95 a	87 ab	100 a	100 a
2 WARRANT	1259 g ai/ha	48 oz/a	A				
2 MAULER	280.6 g ai/ha	8 oz/a	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	0.5 % v/v	0.5 % v/v	B				
3 XTENDIMAX	828 g ae/ha	22 oz/a	A	98 a	92 a	100 a	100 a
3 WARRANT	1259 g ai/ha	48 oz/a	A				
3 MAULER	280.6 g ai/ha	8 oz/a	A				
3 LIBERTY 280 SL	655 g ai/ha	32 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 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
4 XTENDIMAX	828 g ae/ha	22 oz/a	A	70 b	85 ab	100 a	100 a
4 WARRANT	1259 g ai/ha	48 oz/a	A				
4 MAULER	280.6 g ai/ha	8 oz/a	A				
4 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B				
4 WARRANT	1259 g ai/ha	48 oz/a	B				
4 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
5 XTENDIMAX	828 g ae/ha	22 oz/a	A	70 b	87 ab	100 a	100 a
5 WARRANT	1259 g ai/ha	48 oz/a	A				
5 MAULER	280.6 g ai/ha	8 oz/a	A				
5 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B				
5 WARRANT	1259 g ai/ha	48 oz/a	B				
5 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
5 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C				
5 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				
6 XTENDIMAX	828 g ae/ha	22 oz/a	A	100 a	60 c	100 a	100 a
6 WARRANT	1259 g ai/ha	48 oz/a	A				
6 MAULER	280.6 g ai/ha	8 oz/a	A				
6 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
6 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a	B				
6 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
6 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C				
6 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				



# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETPU	AMBTR	CHEAL	AMARE
Pest Scientific Name	Setaria helvola	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name	yellow foxtail Giant ragweed common lambsqu> Redroot pigweed			

Crop Type, Code	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020
BBCH Scale	CONTRO	CONTRO	CONTRO	CONTRO
Crop Scientific Name	%	%	%	%
Crop Name	1	1	1	1
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020
Rating Type	55 13	55 13	55 13	55 13
Rating Unit	13 DA-B	13 DA-B	13 DA-B	13 DA-B
Number of Subsamples	55 DP-1	55 DP-1	55 DP-1	55 DP-1
Data Entry Date	43 DE-1	43 DE-1	43 DE-1	43 DE-1
Days After First/Last Applic.	0	0	0	0
Trt-Eval Interval				
Plant-Eval Interval				
Days After Emergence				
Number of Decimals				

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	10*	11*	12*	13*
7	WARRANT	1259 g ai/ha	48 oz/a		A	93 a	85 ab	100 a	100 a
7	MAULER	280.6 g ai/ha	8 oz/a		A				
7	XTENDIMAX	828 g ae/ha	22 oz/a		B				
7	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B				
7	WARRANT	1259 g ai/ha	48 oz/a		B				
7	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
7	INTACT	0.5 % v/v	0.5 % v/v		B				
8	WARRANT	1259 g ai/ha	48 oz/a		A	93 a	87 ab	100 a	100 a
8	MAULER	280.6 g ai/ha	8 oz/a		A				
8	XTENDIMAX	828 g ae/ha	22 oz/a		B				
8	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B				
8	WARRANT	1259 g ai/ha	48 oz/a		B				
8	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
8	INTACT	0.5 % v/v	0.5 % v/v		B				
8	LIBERTY 280 SL	655 g ai/ha	32 oz/a		C				
8	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				
9	WARRANT	1259 g ai/ha	48 oz/a		A	35 c	82 b	100 a	100 a
9	MAULER	280.6 g ai/ha	8 oz/a		A				
9	XTENDIMAX	828 g ae/ha	22 oz/a		B				
9	WARRANT	1259 g ai/ha	48 oz/a		B				
9	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
9	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		C				
9	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				
10	WARRANT	1259 g ai/ha	48 oz/a		A	38 c	83 ab	100 a	100 a
10	MAULER	280.6 g ai/ha	8 oz/a		A				
10	XTENDIMAX	828 g ae/ha	22 oz/a		B				
10	WARRANT	1259 g ai/ha	48 oz/a		B				
10	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
10	LIBERTY 280 SL	655 g ai/ha	32 oz/a		C				
10	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		C				
10	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				
11	WARRANT	1259 g ai/ha	48 oz/a		A	35 c	83 ab	100 a	100 a
11	MAULER	280.6 g ai/ha	8 oz/a		A				
11	XTENDIMAX	828 g ae/ha	22 oz/a		B				
11	WARRANT	1259 g ai/ha	48 oz/a		B				
11	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
11	LIBERTY 280 SL	655 g ai/ha	32 oz/a		C				
11	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETPU	AMBTR	CHEAL	AMARE
Pest Scientific Name	Setaria helvola	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name	yellow foxtail Giant ragweed common lambsqu> Redroot pigweed			

Crop Type, Code	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020
BBCH Scale	CONTRO	CONTRO	CONTRO	CONTRO
Crop Scientific Name	%	%	%	%
Crop Name	1	1	1	1
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020
Rating Type	55 13	55 13	55 13	55 13
Rating Unit	13 DA-B	13 DA-B	13 DA-B	13 DA-B
Number of Subsamples	55 DP-1	55 DP-1	55 DP-1	55 DP-1
Data Entry Date	43 DE-1	43 DE-1	43 DE-1	43 DE-1
Days After First/Last Applic.	0	0	0	0
Trt-Eval Interval				
Plant-Eval Interval				
Days After Emergence				
Number of Decimals				

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	10*	11*	12*	13*
12 WARRANT	1259 g ai/ha	48 oz/a	A	99 a	83 ab	100 a	100 a
12 MAULER	280.6 g ai/ha	8 oz/a	A				
12 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B				
12 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
12 WARRANT	1259 g ai/ha	48 oz/a	B				
12 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
13 WARRANT	1259 g ai/ha	48 oz/a	A	66 b	92 ab	100 a	100 a
13 MAULER	280.6 g ai/ha	8 oz/a	A				
13 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B				
13 WARRANT	1259 g ai/ha	48 oz/a	B				
13 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
14 XTENDIMAX	828 g ae/ha	22 oz/a	A	94 a	90 ab	100 a	100 a
14 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a	A				
14 INTACT	0.5 % v/v	0.5 % v/v	A				
14 XTENDIMAX	828 g ae/ha	22 oz/a	B				
14 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
14 WARRANT	1259 g ai/ha	48 oz/a	B				
14 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
14 INTACT	0.5 % v/v	0.5 % v/v	B				
15 XTENDIMAX	828 g ae/ha	22 oz/a	A	96 a	90 ab	100 a	100 a
15 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a	A				
15 INTACT	0.5 % v/v	0.5 % v/v	A				
15 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B				
15 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
15 WARRANT	1259 g ai/ha	48 oz/a	B				
15 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
16 WARRANT	1259 g ai/ha	48 oz/a	A	50 c	15 d	95 b	100 a
16 MAULER	280.6 g ai/ha	8 oz/a	A				
LSD P=.05				15.3	10.1	3.6	.
Standard Deviation				10.8	7.1	2.5	0.0
CV				15.23	9.45	2.67	0.0
Grand Mean				70.6	75.0	93.4	93.8
Levene's F				1.136	3.091	0.987	0.00
Levene's Prob(F)				0.353	0.002*	0.483	.
Rank X2				.	.	.	.
P(Rank X2)				.	.	.	.
Skewness				-0.8008*	-2.0197*	-3.644*	-3.7021*
Kurtosis				-0.5283	2.9893*	11.7662*	12.0825*
Replicate F				0.054	0.789	1.214	0.000
Replicate Prob(F)				0.9832	0.5062	0.3155	1.0000
Treatment F				32.701	60.122	399.395	0.000
Treatment Prob(F)				0.0001	0.0001	0.0001	1.0000

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SIDSP	SETFA	SETPU	AMBTR
Pest Scientific Name	Sida spinosa	Setaria faberi	Setaria helvola	Ambrosia trifida
Pest Name	Prickly sida	foxtail, giant	yellow foxtail	ragweed, giant
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-7-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-7-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	55 13	68 12	68 12	68 12
Trt-Eval Interval	13 DA-B	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	55 DP-1	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	43 DE-1	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Other	Other	Appl
No. Name	Rate	Unit	Rate	Rate Unit Code
1 UNTREATED	14*		15*	
	0 c		0 e	
			16*	
			0 e	
				17*
				0 f

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SIDSP	SETFA	SETPU	AMBTR
Pest Scientific Name	Sida spinosa	Setaria faberi	Setaria helvola	Ambrosia trifida
Pest Name	Prickly sida	foxtail, giant	yellow foxtail	ragweed, giant
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-7-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-7-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	55 13	68 12	68 12	68 12
Trt-Eval Interval	13 DA-B	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	55 DP-1	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	43 DE-1	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate Rate Unit	Other Rate Rate Unit	Appl Code	14*	15*	16*	17*
2 XTENDIMAX	828 g ae/ha	22 oz/a		A	74 ab	99 a	99 a	98 ab
2 WARRANT	1259 g ai/ha	48 oz/a		A				
2 MAULER	280.6 g ai/ha	8 oz/a		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	0.5 % v/v	0.5 % v/v		B				
3 XTENDIMAX	828 g ae/ha	22 oz/a		A	83 a	96 ab	91 ab	88 bc
3 WARRANT	1259 g ai/ha	48 oz/a		A				
3 MAULER	280.6 g ai/ha	8 oz/a		A				
3 LIBERTY 280 SL	655 g ai/ha	32 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 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
4 XTENDIMAX	828 g ae/ha	22 oz/a		A	75 ab	83 c	73 c	76 cd
4 WARRANT	1259 g ai/ha	48 oz/a		A				
4 MAULER	280.6 g ai/ha	8 oz/a		A				
4 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B				
4 WARRANT	1259 g ai/ha	48 oz/a		B				
4 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
5 XTENDIMAX	828 g ae/ha	22 oz/a		A	60 ab	100 a	96 a	100 a
5 WARRANT	1259 g ai/ha	48 oz/a		A				
5 MAULER	280.6 g ai/ha	8 oz/a		A				
5 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B				
5 WARRANT	1259 g ai/ha	48 oz/a		B				
5 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
5 LIBERTY 280 SL	655 g ai/ha	32 oz/a		C				
5 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				
6 XTENDIMAX	828 g ae/ha	22 oz/a		A	69 ab	99 a	99 a	73 de
6 WARRANT	1259 g ai/ha	48 oz/a		A				
6 MAULER	280.6 g ai/ha	8 oz/a		A				
6 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B				
6 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a		B				
6 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
6 LIBERTY 280 SL	655 g ai/ha	32 oz/a		C				
6 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SIDSP	SETFA	SETPU	AMBTR
Pest Scientific Name	Sida spinosa	Setaria faberi	Setaria helvola	Ambrosia trifi->
Pest Name	Prickly sida	foxtail, giant	yellow foxtail	ragweed, giant
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-7-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-7-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	55 13	68 12	68 12	68 12
Trt-Eval Interval	13 DA-B	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	55 DP-1	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	43 DE-1	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	14*	15*	16*	17*
7 WARRANT	1259 g ai/ha	48 oz/a	A	87 a	96 ab	93 a	96 ab
7 MAULER	280.6 g ai/ha	8 oz/a	A				
7 XTENDIMAX	828 g ae/ha	22 oz/a	B				
7 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
7 WARRANT	1259 g ai/ha	48 oz/a	B				
7 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
7 INTACT	0.5 % v/v	0.5 % v/v	B				
8 WARRANT	1259 g ai/ha	48 oz/a	A	79 ab	100 a	100 a	100 a
8 MAULER	280.6 g ai/ha	8 oz/a	A				
8 XTENDIMAX	828 g ae/ha	22 oz/a	B				
8 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
8 WARRANT	1259 g ai/ha	48 oz/a	B				
8 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
8 INTACT	0.5 % v/v	0.5 % v/v	B				
8 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C				
8 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				
9 WARRANT	1259 g ai/ha	48 oz/a	A	52 b	83 c	78 bc	99 ab
9 MAULER	280.6 g ai/ha	8 oz/a	A				
9 XTENDIMAX	828 g ae/ha	22 oz/a	B				
9 WARRANT	1259 g ai/ha	48 oz/a	B				
9 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
9 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	C				
9 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				
10 WARRANT	1259 g ai/ha	48 oz/a	A	49 b	100 a	100 a	100 a
10 MAULER	280.6 g ai/ha	8 oz/a	A				
10 XTENDIMAX	828 g ae/ha	22 oz/a	B				
10 WARRANT	1259 g ai/ha	48 oz/a	B				
10 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
10 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C				
10 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	C				
10 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				
11 WARRANT	1259 g ai/ha	48 oz/a	A	54 b	98 a	86 abc	100 a
11 MAULER	280.6 g ai/ha	8 oz/a	A				
11 XTENDIMAX	828 g ae/ha	22 oz/a	B				
11 WARRANT	1259 g ai/ha	48 oz/a	B				
11 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
11 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C				
11 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SIDSP	SETFA	SETPU	AMBTR
Pest Scientific Name	Sida spinosa	Setaria faberi	Setaria helvola	Ambrosia trifida
Pest Name	Prickly sida	foxtail, giant	yellow foxtail	ragweed, giant
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-7-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-7-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	55 13	68 12	68 12	68 12
Trt-Eval Interval	13 DA-B	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	55 DP-1	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	43 DE-1	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	14*	15*	16*	17*
12	WARRANT	1259 g ai/ha	48 oz/a			A	90 a	100 a	98 a	64 e
12	MAULER	280.6 g ai/ha	8 oz/a			A				
12	LIBERTY 280 SL	655 g ai/ha	32 oz/a			B				
12	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a			B				
12	WARRANT	1259 g ai/ha	48 oz/a			B				
12	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v			B				
13	WARRANT	1259 g ai/ha	48 oz/a			A	82 a	86 bc	74 c	75 de
13	MAULER	280.6 g ai/ha	8 oz/a			A				
13	LIBERTY 280 SL	655 g ai/ha	32 oz/a			B				
13	WARRANT	1259 g ai/ha	48 oz/a			B				
13	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v			B				
14	XTENDIMAX	828 g ae/ha	22 oz/a			A	68 ab	98 a	95 a	100 a
14	WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a			A				
14	INTACT	0.5 % v/v	0.5 % v/v			A				
14	XTENDIMAX	828 g ae/ha	22 oz/a			B				
14	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a			B				
14	WARRANT	1259 g ai/ha	48 oz/a			B				
14	CLASS ACT RIDION	1 % v/v	1 % v/v			B				
14	INTACT	0.5 % v/v	0.5 % v/v			B				
15	XTENDIMAX	828 g ae/ha	22 oz/a			A	77 ab	97 a	96 a	89 abc
15	WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a			A				
15	INTACT	0.5 % v/v	0.5 % v/v			A				
15	LIBERTY 280 SL	655 g ai/ha	32 oz/a			B				
15	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a			B				
15	WARRANT	1259 g ai/ha	48 oz/a			B				
15	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v			B				
16	WARRANT	1259 g ai/ha	48 oz/a			A	50 b	63 d	45 d	0 f
16	MAULER	280.6 g ai/ha	8 oz/a			A				
LSD P=.05							23.2	10.7	13.9	12.3
Standard Deviation							16.1	7.5	9.8	8.7
CV							25.55	8.64	11.85	11.03
Grand Mean							63.0	87.2	82.6	78.5
Levene's F							1.273	4.43	5.402	2.772
Levene's Prob(F)							0.271	0.001*	0.001*	0.004*
Rank X2							.	.	.	.
P(Rank X2)							.	.	.	.
Skewness							-1.1699*	-2.6143*	-1.9708*	-1.6467*
Kurtosis							0.3405	6.3472*	3.2804*	1.5084*
Replicate F							2.044	1.992	1.405	0.473
Replicate Prob(F)							0.1281	0.1288	0.2536	0.7024
Treatment F							6.468	45.243	29.231	57.581
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	SIDSP
Pest Scientific Name	Chenopodium al> Amaranthus ret> Abutilon theop>			Sida spinosa
Pest Name	lambsquarters,> pigweed, redro>		velvetleaf	sida, prickly
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	68 12	68 12	68 12	68 12
Trt-Eval Interval	26 DA-B	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	68 DP-1	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	56 DE-1	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0
Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	
	18*	19*	20*	21*
1 UNTREATED	0 b	0 b	0 b	0 d

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	SIDSP
Pest Scientific Name	Chenopodium al> Amaranthus ret> Abutilon theop>			
Pest Name	lambsquarters,> pigweed, redro>		velvetleaf	sida, prickly
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	68 12	68 12	68 12	68 12
Trt-Eval Interval	26 DA-B	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	68 DP-1	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	56 DE-1	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	18*	19*	20*	21*
2 XTENDIMAX	828 g ae/ha	22 oz/a	A	100 a	100 a	100 a	90 ab
2 WARRANT	1259 g ai/ha	48 oz/a	A				
2 MAULER	280.6 g ai/ha	8 oz/a	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	0.5 % v/v	0.5 % v/v	B				
3 XTENDIMAX	828 g ae/ha	22 oz/a	A	100 a	100 a	100 a	90 ab
3 WARRANT	1259 g ai/ha	48 oz/a	A				
3 MAULER	280.6 g ai/ha	8 oz/a	A				
3 LIBERTY 280 SL	655 g ai/ha	32 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 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
4 XTENDIMAX	828 g ae/ha	22 oz/a	A	95 a	100 a	100 a	80 bc
4 WARRANT	1259 g ai/ha	48 oz/a	A				
4 MAULER	280.6 g ai/ha	8 oz/a	A				
4 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B				
4 WARRANT	1259 g ai/ha	48 oz/a	B				
4 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
5 XTENDIMAX	828 g ae/ha	22 oz/a	A	100 a	100 a	100 a	100 a
5 WARRANT	1259 g ai/ha	48 oz/a	A				
5 MAULER	280.6 g ai/ha	8 oz/a	A				
5 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B				
5 WARRANT	1259 g ai/ha	48 oz/a	B				
5 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
5 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C				
5 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				
6 XTENDIMAX	828 g ae/ha	22 oz/a	A	100 a	100 a	100 a	95 ab
6 WARRANT	1259 g ai/ha	48 oz/a	A				
6 MAULER	280.6 g ai/ha	8 oz/a	A				
6 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
6 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a	B				
6 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B				
6 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C				
6 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				



# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	SIDSP
Pest Scientific Name	Chenopodium al> Amaranthus ret> Abutilon theop>			
Pest Name	lambsquarters,> pigweed, redro>		velvetleaf	sida, prickly
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	68 12	68 12	68 12	68 12
Trt-Eval Interval	26 DA-B	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	68 DP-1	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	56 DE-1	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	18*	19*	20*	21*
7 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	100 a	100 a
7 MAULER	280.6 g ai/ha	8 oz/a	A				
7 XTENDIMAX	828 g ae/ha	22 oz/a	B				
7 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
7 WARRANT	1259 g ai/ha	48 oz/a	B				
7 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
7 INTACT	0.5 % v/v	0.5 % v/v	B				
8 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	100 a	100 a
8 MAULER	280.6 g ai/ha	8 oz/a	A				
8 XTENDIMAX	828 g ae/ha	22 oz/a	B				
8 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B				
8 WARRANT	1259 g ai/ha	48 oz/a	B				
8 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
8 INTACT	0.5 % v/v	0.5 % v/v	B				
8 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C				
8 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				
9 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	100 a	90 ab
9 MAULER	280.6 g ai/ha	8 oz/a	A				
9 XTENDIMAX	828 g ae/ha	22 oz/a	B				
9 WARRANT	1259 g ai/ha	48 oz/a	B				
9 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
9 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	C				
9 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				
10 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	100 a	100 a
10 MAULER	280.6 g ai/ha	8 oz/a	A				
10 XTENDIMAX	828 g ae/ha	22 oz/a	B				
10 WARRANT	1259 g ai/ha	48 oz/a	B				
10 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
10 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C				
10 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	C				
10 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				
11 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	100 a	100 a
11 MAULER	280.6 g ai/ha	8 oz/a	A				
11 XTENDIMAX	828 g ae/ha	22 oz/a	B				
11 WARRANT	1259 g ai/ha	48 oz/a	B				
11 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
11 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C				
11 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C				

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	SIDSP
Pest Scientific Name	Chenopodium al> Amaranthus ret> Abutilon theop>			
Pest Name	lambsquarters,>	pigweed, redro>	velvetleaf	sida, prickly
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	68 12	68 12	68 12	68 12
Trt-Eval Interval	26 DA-B	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	68 DP-1	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	56 DE-1	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	18*	19*	20*	21*
12	WARRANT	1259 g ai/ha	48 oz/a			A	100 a	100 a	100 a	90 ab
12	MAULER	280.6 g ai/ha	8 oz/a			A				
12	LIBERTY 280 SL	655 g ai/ha	32 oz/a			B				
12	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a			B				
12	WARRANT	1259 g ai/ha	48 oz/a			B				
12	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v			B				
13	WARRANT	1259 g ai/ha	48 oz/a			A	100 a	100 a	100 a	100 a
13	MAULER	280.6 g ai/ha	8 oz/a			A				
13	LIBERTY 280 SL	655 g ai/ha	32 oz/a			B				
13	WARRANT	1259 g ai/ha	48 oz/a			B				
13	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v			B				
14	XTENDIMAX	828 g ae/ha	22 oz/a			A	100 a	100 a	100 a	73 c
14	WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a			A				
14	INTACT	0.5 % v/v	0.5 % v/v			A				
14	XTENDIMAX	828 g ae/ha	22 oz/a			B				
14	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a			B				
14	WARRANT	1259 g ai/ha	48 oz/a			B				
14	CLASS ACT RIDION	1 % v/v	1 % v/v			B				
14	INTACT	0.5 % v/v	0.5 % v/v			B				
15	XTENDIMAX	828 g ae/ha	22 oz/a			A	100 a	100 a	100 a	85 abc
15	WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a			A				
15	INTACT	0.5 % v/v	0.5 % v/v			A				
15	LIBERTY 280 SL	655 g ai/ha	32 oz/a			B				
15	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a			B				
15	WARRANT	1259 g ai/ha	48 oz/a			B				
15	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v			B				
16	WARRANT	1259 g ai/ha	48 oz/a			A	95 a	100 a	100 a	0 d
16	MAULER	280.6 g ai/ha	8 oz/a			A				
LSD P=.05							5.1	.	.	15.7
Standard Deviation							3.6	0.0	0.0	11.0
CV							3.84	0.0	0.0	13.66
Grand Mean							93.1	93.8	93.8	80.8
Levene's F							0.933	0.00	0.00	2.023
Levene's Prob(F)							0.535	.	.	0.033*
Rank X2							.	.	.	.
P(Rank X2)							.	.	.	.
Skewness							-3.5891*	-3.7021*	-3.7021*	-1.759*
Kurtosis							11.4701*	12.0825*	12.0825*	1.756*
Replicate F							0.652	0.000	0.000	2.714
Replicate Prob(F)							0.5858	1.0000	1.0000	0.0559
Treatment F							193.957	0.000	0.000	34.792
Treatment Prob(F)							0.0001	1.0000	1.0000	0.0001

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	SETPU	AMBTR	CHEAL
Pest Scientific Name	Setaria faberi	Setaria helvola	Ambrosia trifi>	Chenopodium al>
Pest Name	foxtail, giant	yellow foxtail	ragweed, giant	lambsquarters,>
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Aug-5-2020	Aug-5-2020	Aug-5-2020	Aug-5-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Aug-6-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020
Days After First/Last Applic.	84 28	84 28	84 28	84 28
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	72 DE-1	72 DE-1	72 DE-1	72 DE-1
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Other	Other	Appl
No. Name	Rate Unit	Rate	Rate	Unit Code
1 UNTREATED				
	22*	23*	24*	25*
	0 d	0 d	0 e	0 b

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	SETPU	AMBTR	CHEAL
Pest Scientific Name	Setaria faberi	Setaria helvola	Ambrosia trifida	Chenopodium al-
Pest Name	foxtail, giant	yellow foxtail	ragweed,	lambsquarters,>
			giant	
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Aug-5-2020	Aug-5-2020	Aug-5-2020	Aug-5-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Aug-6-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020
Days After First/Last Applic.	84 28	84 28	84 28	84 28
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	72 DE-1	72 DE-1	72 DE-1	72 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate Rate Unit	Other Rate Rate Unit	Appl Code	22*	23*	24*	25*
2 XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	92 a	100 a	100 a
2 WARRANT	1259 g ai/ha	48 oz/a		A				
2 MAULER	280.6 g ai/ha	8 oz/a		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	0.5 % v/v	0.5 % v/v		B				
3 XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	84 ab	75 bc	100 a
3 WARRANT	1259 g ai/ha	48 oz/a		A				
3 MAULER	280.6 g ai/ha	8 oz/a		A				
3 LIBERTY 280 SL	655 g ai/ha	32 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 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
4 XTENDIMAX	828 g ae/ha	22 oz/a		A	95 ab	70 b	73 bc	100 a
4 WARRANT	1259 g ai/ha	48 oz/a		A				
4 MAULER	280.6 g ai/ha	8 oz/a		A				
4 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B				
4 WARRANT	1259 g ai/ha	48 oz/a		B				
4 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
5 XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	100 a	100 a	100 a
5 WARRANT	1259 g ai/ha	48 oz/a		A				
5 MAULER	280.6 g ai/ha	8 oz/a		A				
5 LIBERTY 280 SL	655 g ai/ha	32 oz/a		B				
5 WARRANT	1259 g ai/ha	48 oz/a		B				
5 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
5 LIBERTY 280 SL	655 g ai/ha	32 oz/a		C				
5 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				
6 XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	100 a	65 cd	100 a
6 WARRANT	1259 g ai/ha	48 oz/a		A				
6 MAULER	280.6 g ai/ha	8 oz/a		A				
6 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B				
6 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a		B				
6 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
6 LIBERTY 280 SL	655 g ai/ha	32 oz/a		C				
6 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	SETPU	AMBTR	CHEAL
Pest Scientific Name	Setaria faberi	Setaria helvola	Ambrosia trifida	Chenopodium albidum
Pest Name	foxtail, giant	yellow foxtail	ragweed, giant	lambsquarters, giant
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Aug-5-2020	Aug-5-2020	Aug-5-2020	Aug-5-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Aug-6-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020
Days After First/Last Applic.	84 28	84 28	84 28	84 28
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	72 DE-1	72 DE-1	72 DE-1	72 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	22*	23*	24*	25*
7	WARRANT	1259 g ai/ha	48 oz/a		A	100 a	96 a	100 a	100 a
7	MAULER	280.6 g ai/ha	8 oz/a		A				
7	XTENDIMAX	828 g ae/ha	22 oz/a		B				
7	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B				
7	WARRANT	1259 g ai/ha	48 oz/a		B				
7	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
7	INTACT	0.5 % v/v	0.5 % v/v		B				
8	WARRANT	1259 g ai/ha	48 oz/a		A	100 a	100 a	100 a	100 a
8	MAULER	280.6 g ai/ha	8 oz/a		A				
8	XTENDIMAX	828 g ae/ha	22 oz/a		B				
8	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B				
8	WARRANT	1259 g ai/ha	48 oz/a		B				
8	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
8	INTACT	0.5 % v/v	0.5 % v/v		B				
8	LIBERTY 280 SL	655 g ai/ha	32 oz/a		C				
8	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				
9	WARRANT	1259 g ai/ha	48 oz/a		A	89 b	65 b	100 a	100 a
9	MAULER	280.6 g ai/ha	8 oz/a		A				
9	XTENDIMAX	828 g ae/ha	22 oz/a		B				
9	WARRANT	1259 g ai/ha	48 oz/a		B				
9	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
9	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		C				
9	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				
10	WARRANT	1259 g ai/ha	48 oz/a		A	100 a	100 a	100 a	100 a
10	MAULER	280.6 g ai/ha	8 oz/a		A				
10	XTENDIMAX	828 g ae/ha	22 oz/a		B				
10	WARRANT	1259 g ai/ha	48 oz/a		B				
10	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
10	LIBERTY 280 SL	655 g ai/ha	32 oz/a		C				
10	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		C				
10	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				
11	WARRANT	1259 g ai/ha	48 oz/a		A	100 a	100 a	100 a	100 a
11	MAULER	280.6 g ai/ha	8 oz/a		A				
11	XTENDIMAX	828 g ae/ha	22 oz/a		B				
11	WARRANT	1259 g ai/ha	48 oz/a		B				
11	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
11	LIBERTY 280 SL	655 g ai/ha	32 oz/a		C				
11	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C				

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

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

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	SETPU	AMBTR	CHEAL					
Pest Scientific Name	Setaria faberi	Setaria helvola	Ambrosia trifida	Chenopodium albidum					
Pest Name	foxtail, giant	yellow foxtail	ragweed, giant	lambsquarters, giant					
Crop Type, Code	Aug-5-2020	Aug-5-2020	Aug-5-2020	Aug-5-2020					
BBCH Scale	CONTRO	CONTRO	CONTRO	CONTRO					
Crop Scientific Name	%	%	%	%					
Crop Name	1	1	1	1					
Rating Date	Aug-6-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020					
Rating Type	84 28	84 28	84 28	84 28					
Rating Unit	28 DA-C	28 DA-C	28 DA-C	28 DA-C					
Number of Subsamples	84 DP-1	84 DP-1	84 DP-1	84 DP-1					
Data Entry Date	72 DE-1	72 DE-1	72 DE-1	72 DE-1					
Days After First/Last Applic.	0	0	0	0					
Trt-Eval Interval									
Plant-Eval Interval									
Days After Emergence									
Number of Decimals									
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	22*	23*	24*	25*
12	WARRANT	1259 g ai/ha	48 oz/a		A	100 a	100 a	54 d	100 a
12	MAULER	280.6 g ai/ha	8 oz/a		A				
12	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B				
12	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B				
12	WARRANT	1259 g ai/ha	48 oz/a		B				
12	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
13	WARRANT	1259 g ai/ha	48 oz/a		A	93 ab	68 b	65 cd	100 a
13	MAULER	280.6 g ai/ha	8 oz/a		A				
13	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B				
13	WARRANT	1259 g ai/ha	48 oz/a		B				
13	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
14	XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	96 a	100 a	100 a
14	WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a		A				
14	INTACT	0.5 % v/v	0.5 % v/v		A				
14	XTENDIMAX	828 g ae/ha	22 oz/a		B				
14	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B				
14	WARRANT	1259 g ai/ha	48 oz/a		B				
14	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
14	INTACT	0.5 % v/v	0.5 % v/v		B				
15	XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	100 a	84 b	100 a
15	WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a		A				
15	INTACT	0.5 % v/v	0.5 % v/v		A				
15	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B				
15	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B				
15	WARRANT	1259 g ai/ha	48 oz/a		B				
15	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B				
16	WARRANT	1259 g ai/ha	48 oz/a		A	53 c	40 c	0 e	100 a
16	MAULER	280.6 g ai/ha	8 oz/a		A				
LSD P=.05		8.3	19.2	15.0					
Standard Deviation		5.8	13.5	10.6					0.0
CV		6.53	16.45	13.92					0.0
Grand Mean		89.3	81.9	75.9					93.8
Levene's F		2.048	6.328	5.808					0.00
Levene's Prob(F)		0.031*	0.001*	0.001*					.
Rank X2		.	.	.					.
P(Rank X2)		.	.	.					.
Skewness		-2.6577*	-1.6314*	-1.3431*					-3.7021*
Kurtosis		6.2293*	1.6196*	0.5398					12.0825*
Replicate F		0.379	0.110	0.560					0.000
Replicate Prob(F)		0.7685	0.9538	0.6444					1.0000
Treatment F		83.377	17.499	40.526					0.000
Treatment Prob(F)		0.0001	0.0001	0.0001					1.0000

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

Location: Western Branch Big E 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	SIDSP		
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Sida spinosa		
Pest Name	pigweed, redro>	velvetleaf	sida, prickly		
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Aug-5-2020	Aug-5-2020	Aug-5-2020		
Rating Type	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%		
Number of Subsamples	1	1	1		
Data Entry Date	Aug-6-2020	Aug-6-2020	Aug-6-2020		
Days After First/Last Applic.	84 28	84 28	84 28		
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C		
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1		
Days After Emergence	72 DE-1	72 DE-1	72 DE-1		
Number of Decimals	0	0	0		
Trt Treatment	Rate	Other	Other	Appl	
No. Name	Rate	Rate	Rate	Unit Code	
1 UNTREATED	26*			27*	28*
		0 b		0 b	0 b

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

Location: Western Branch Big E 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	SIDSP
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Sida spinosa
Pest Name	pigweed, redro>	velvetleaf	sida, prickly
Crop Type, Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	Aug-5-2020	Aug-5-2020	Aug-5-2020
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date	Aug-6-2020	Aug-6-2020	Aug-6-2020
Days After First/Last Applic.	84 28	84 28	84 28
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	72 DE-1	72 DE-1	72 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Appl Code	26*	27*	28*
2	XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	100 a	100 a
2	WARRANT	1259 g ai/ha	48 oz/a		A			
2	MAULER	280.6 g ai/ha	8 oz/a		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	0.5 % v/v	0.5 % v/v		B			
3	XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	100 a	100 a
3	WARRANT	1259 g ai/ha	48 oz/a		A			
3	MAULER	280.6 g ai/ha	8 oz/a		A			
3	LIBERTY 280 SL	655 g ai/ha	32 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	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B			
4	XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	100 a	100 a
4	WARRANT	1259 g ai/ha	48 oz/a		A			
4	MAULER	280.6 g ai/ha	8 oz/a		A			
4	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
4	WARRANT	1259 g ai/ha	48 oz/a		B			
4	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B			
5	XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	100 a	100 a
5	WARRANT	1259 g ai/ha	48 oz/a		A			
5	MAULER	280.6 g ai/ha	8 oz/a		A			
5	LIBERTY 280 SL	655 g ai/ha	32 oz/a		B			
5	WARRANT	1259 g ai/ha	48 oz/a		B			
5	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B			
5	LIBERTY 280 SL	655 g ai/ha	32 oz/a		C			
5	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C			
6	XTENDIMAX	828 g ae/ha	22 oz/a		A	100 a	100 a	100 a
6	WARRANT	1259 g ai/ha	48 oz/a		A			
6	MAULER	280.6 g ai/ha	8 oz/a		A			
6	ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a		B			
6	WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a		B			
6	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		B			
6	LIBERTY 280 SL	655 g ai/ha	32 oz/a		C			
6	N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v		C			



# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

Location: Western Branch Big E 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	SIDSP
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Sida spinosa
Pest Name	pigweed, redro>	velvetleaf	sida, prickly
Crop Type, Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	Aug-5-2020	Aug-5-2020	Aug-5-2020
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date	Aug-6-2020	Aug-6-2020	Aug-6-2020
Days After First/Last Applic.	84 28	84 28	84 28
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	72 DE-1	72 DE-1	72 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate	Other Other Rate Rate Unit	Appl Code	26*	27*	28*
7 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	100 a
7 MAULER	280.6 g ai/ha	8 oz/a	A			
7 XTENDIMAX	828 g ae/ha	22 oz/a	B			
7 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B			
7 WARRANT	1259 g ai/ha	48 oz/a	B			
7 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
7 INTACT	0.5 % v/v	0.5 % v/v	B			
8 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	100 a
8 MAULER	280.6 g ai/ha	8 oz/a	A			
8 XTENDIMAX	828 g ae/ha	22 oz/a	B			
8 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B			
8 WARRANT	1259 g ai/ha	48 oz/a	B			
8 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
8 INTACT	0.5 % v/v	0.5 % v/v	B			
8 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C			
8 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C			
9 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	100 a
9 MAULER	280.6 g ai/ha	8 oz/a	A			
9 XTENDIMAX	828 g ae/ha	22 oz/a	B			
9 WARRANT	1259 g ai/ha	48 oz/a	B			
9 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
9 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	C			
9 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C			
10 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	100 a
10 MAULER	280.6 g ai/ha	8 oz/a	A			
10 XTENDIMAX	828 g ae/ha	22 oz/a	B			
10 WARRANT	1259 g ai/ha	48 oz/a	B			
10 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
10 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C			
10 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	C			
10 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C			
11 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	100 a
11 MAULER	280.6 g ai/ha	8 oz/a	A			
11 XTENDIMAX	828 g ae/ha	22 oz/a	B			
11 WARRANT	1259 g ai/ha	48 oz/a	B			
11 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
11 LIBERTY 280 SL	655 g ai/ha	32 oz/a	C			
11 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	C			

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
 Trial ID: 20RRXFYLD  
 Protocol ID: HP20USAJU1  
 Project ID: LOCAL\_PROJ

Location: Western Branch Big E 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	SIDSP
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Sida spinosa
Pest Name	pigweed, redro>	velvetleaf	sida, prickly
Crop Type, Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	Aug-5-2020	Aug-5-2020	Aug-5-2020
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date	Aug-6-2020	Aug-6-2020	Aug-6-2020
Days After First/Last Applic.	84 28	84 28	84 28
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	72 DE-1	72 DE-1	72 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate	Other Other Rate Rate Unit	Appl Unit Code	26*	27*	28*
12 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	100 a
12 MAULER	280.6 g ai/ha	8 oz/a	A			
12 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B			
12 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B			
12 WARRANT	1259 g ai/ha	48 oz/a	B			
12 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B			
13 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	100 a
13 MAULER	280.6 g ai/ha	8 oz/a	A			
13 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B			
13 WARRANT	1259 g ai/ha	48 oz/a	B			
13 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B			
14 XTENDIMAX	828 g ae/ha	22 oz/a	A	100 a	100 a	100 a
14 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a	A			
14 INTACT	0.5 % v/v	0.5 % v/v	A			
14 XTENDIMAX	828 g ae/ha	22 oz/a	B			
14 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B			
14 WARRANT	1259 g ai/ha	48 oz/a	B			
14 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
14 INTACT	0.5 % v/v	0.5 % v/v	B			
15 XTENDIMAX	828 g ae/ha	22 oz/a	A	100 a	100 a	100 a
15 WARRANT ULTRA HERBICIDE	1449 g ai/ha	48 oz/a	A			
15 INTACT	0.5 % v/v	0.5 % v/v	A			
15 LIBERTY 280 SL	655 g ai/ha	32 oz/a	B			
15 ROUNDUP POWER MAX	1263 g ae/ha	32 oz/a	B			
15 WARRANT	1259 g ai/ha	48 oz/a	B			
15 N-PAK AMS LIQUID	2.5 % v/v	2.5 % v/v	B			
16 WARRANT	1259 g ai/ha	48 oz/a	A	100 a	100 a	0 b
16 MAULER	280.6 g ai/ha	8 oz/a	A			
LSD P=.05				.	.	.
Standard Deviation				0.0	0.0	0.0
CV				0.0	0.0	0.0
Grand Mean				93.8	93.8	87.5
Levene's F				0.00	0.00	0.00
Levene's Prob(F)				.	.	.
Rank X2				.	.	.
P(Rank X2)				.	.	.
Skewness				-3.7021*	-3.7021*	-2.3226*
Kurtosis				12.0825*	12.0825*	3.5029*
Replicate F				0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000

# The Ohio State University

## XtendFlex Soybean Herbicide Recommendations

Title No. 2: 2020-01-N8-08  
Trial ID: 20RRXFYLD  
Protocol ID: HP20USAJU1  
Project ID: LOCAL\_PROJ

Location: Western Branch Big E 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, Giant foxtail = US  
SETPU, Setaria helvola, yellow foxtail = US  
AMBTR, Ambrosia trifida, Giant ragweed = US  
CHEAL, Chenopodium album, common lambsquarters = US  
AMARE, Amaranthus retroflexus, Redroot pigweed = US  
ABUTH, Abutilon theophrasti, velvetleaf = US  
SIDSP, Sida spinosa, Prickly sida = US  
SETFA, Setaria faberi, foxtail, giant = US  
AMBTR, Ambrosia trifida, ragweed, giant = US  
CHEAL, Chenopodium album, lambsquarters, common = US  
AMARE, Amaranthus retroflexus, pigweed, redroot = US  
SIDSP, Sida spinosa, sida, prickly = US

### Crop Type Code

C = EPPO species (Bayer) codes  
GLXMA, BSOY, Glycine max, Soybean = US

### Rating Type

CONTRO = control / burndown or knockdown  
PHYNEC = phytotoxicity - necrosis /burn

### Rating Unit

% = percent

### Plant-Eval Interval

40 DP-1 = 1 GLXMA May-13-2020  
55 DP-1 = 1 GLXMA May-13-2020  
68 DP-1 = 1 GLXMA May-13-2020  
84 DP-1 = 1 GLXMA May-13-2020