

The Ohio State University

Evaluate efficacy of AMVAC soybean herbicides when used in a soybean herbicide program

Trial ID: 21AMVACPRES Location: Western Branch Ent W-1 Trial Year: 2021
 Protocol ID: 21C12H114 Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Trial Status: E established

ARM Trial Created On: Mar-31-2021 **Trial Usage/Type:** DEV Development/Registration
Initiation Date: May-23-2021 **Planned Completion Date:** Sep-1-2021

Trial Location

City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368

Latitude of LL Corner °: 39.85569 N
Longitude of LL Corner °: -83.66813 W
Altitude of LL Corner: 1117.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:

Evaluate efficacy of AMVAC herbicides Scepter, Python, and FirstRate in tank-mixes for preemergence control in soybean

Crop Description

Crop 1: C GLXMA Glycine max Soybean **BBCH Scale:** BSOY
Entry Date: May-25-2021 **Stage Scale:** BBCH
Variety: Seed Consultants SC8379X
Attributes: glyphosate, dicamba resistant
Seed Size: 2750 S/LB
Planting Date: May-23-2021 **Planting Rate:** 155000 S/A
Depth: 1 IN
Rows per Plot: 4 **Planting Method:** PLANTD planted
Row Spacing: 30 IN **Planting Equipment:** FE field equipment
Seed Bed: MEDIUM medium
Soil Temperature: 70 F **Soil Moisture:** DRY dry
Emergence Date: Jun-7-2021

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi* **Entry Date:** May-25-2021
Common Name: Giant foxtail **Stage Scale:** BBCH

Pest 2 Type: W **Code:** ECHCG *Echinochloa crus-galli* **Entry Date:** May-25-2021
Common Name: Common barnyard grass **Stage Scale:** BBCH

Pest 3 Type: W **Code:** AMBTR *Ambrosia trifida* **Entry Date:** Jun-28-2021
Common Name: Giant ragweed **Stage Scale:** BBCH

Pest 4 Type: W **Code:** CHEAL *Chenopodium album* **Entry Date:** Jun-28-2021
Common Name: common lambsquarters **Stage Scale:** BBCH

Pest 5 Type: W **Code:** AMARE *Amaranthus retroflexus* **Entry Date:** Jun-28-2021
Common Name: Redroot pigweed **Stage Scale:** BBCH

Pest 6 Type: W **Code:** IPOHE *Ipomoea hederacea* **Entry Date:** Jun-28-2021
Common Name: ivy-leaf morning glory **Stage Scale:** BBCH

Pest 7 Type: W **Code:** AMATA *Amaranthus x tamariscinus* **Entry Date:** Jun-28-2021
Common Name: Common waterhemp **Stage Scale:** BBCH

Pest 8 Type: W **Code:** ABUTH *Abutilon theophrasti* **Entry Date:** Jun-28-2021
Common Name: velvetleaf **Stage Scale:** BBCH

Site and Design

Treated Plot Width: 6.67 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 4 ROW row
Treated Plot Area: 200.1 FT² **Treatments:** 6 **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)

Previous

No. Crop Year
 1. PUMPKINS 2020

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Field Prep./Maintenance:

Conventional tillage required for the trial. Soybean crop should be managed using local practices to ensure optimum soybean growth.

Conventional Tillage required. Maintain soybean crop using local practices for optimum soybean growth and yield

Soil Description

Description Name: Entomology W-1
 % Sand: 35 % OM: 2.3 Texture: L loam
 % Silt: 40 pH: 6.6 Soil Name: Crosby
 % Clay: 25 CEC: 12.7 Fert. Level: G good
 Soil Drainage: G good

Application Description

	A
Application Date	May-24-2021
Appl. Start Time	10:30 AM
Appl. Stop Time	10:45 AM
Application Method	SPRAY
Application Timing	PRE
Application Placement	BROSOI
Appl. Entry Date	May-25-2021
Air Temperature Start, Stop	83 83 F
% Relative Humidity Start, Stop	50 50
Wind Velocity+Dir. Start	3 MPH E
Wind Velocity+Dir. Stop	3 MPH E
Wind Velocity+Dir. Max	3 MPH E
Wet Leaves (Y/N)	N no
Soil Temperature	70 F
Soil Moisture	DRY
Soil Surface Condition	MEDTRA
% Cloud Cover	85
Next Moisture Occurred On	May-24-2021
Time to Next Moisture	3.0 HR
Moisture 6 Hours after Appl.	0.5 IN
Moisture 1 Week after Appl.	1.29 IN

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Protocol Application Directions:

Apply herbicide to bare ground before crop and weeds have emerged **Application Timing:**

PREPRE : Apply to bare ground before crop and weeds have emerged

POSPOS: Apply when weeds are 2-4" in height

Application water volume: 15 GPA

Nozzle types:

For PRE applications in all treatments, use a nozzles that produces medium to coarse spray droplets.

For POST applications in treatments 2, 3, 4, 9, and 10, use a nozzle that produces medium to coarse droplets. Avoid ultra coarse or extremely coarse droplet producing nozzles

For POST applications in treatments 5, 6, 7, and 8, use an Engenia approved nozzles (such as air-induction nozzle types), and include and Engenia- approved drift reduction agent (DRA) and pH buffering adjuvant

Please record following information in **SITE DESCRIPTION** sections: pH, CEC, OM%, texture

Application details: Date, time, sprayer type, water pH, GPA, PSI, nozzle type and orifice.

Crop Stage At Each Application

A
 Crop 1 Code, BBCH Scale GLXMA BSOY
 Days after Emergence -14

Pest Stage At Each Application

A

Pest 1 Code, Type, Scale	SETFA W BBCH
Density Average	111 PLA/m2
Density Minimum, Maximum	80 128
Pest 2 Code, Type, Scale	ECHCG W BBCH
Density Average	377 PLA/m2
Density Minimum, Maximum	212 576
Pest 3 Code, Type, Scale	AMBTR W BBCH
Density Average	0 PLA/m2
Density Minimum, Maximum	0 0
Pest 4 Code, Type, Scale	CHEAL W BBCH
Density Average	47 PLA/m2
Density Minimum, Maximum	28 68
Pest 5 Code, Type, Scale	AMARE W BBCH
Density Average	0 PLA/m2
Density Minimum, Maximum	0 0
Pest 6 Code, Type, Scale	IPOHE W BBCH
Density Average	4 PLA/m2
Density Minimum, Maximum	0 12
Pest 7 Code, Type, Scale	AMATA W BBCH
Density Average	299 PLA/m2
Density Minimum, Maximum	184 508
Pest 8 Code, Type, Scale	ABUTH W BBCH
Density Average	0 PLA/m2
Density Minimum, Maximum	0 0

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Application Equipment

A

Appl. Equipment 6' TTI
 Equipment Type BACCAI
 Operation Pressure 44 PSI
 Nozzle Model 110015
 Nozzle Type TTI
 Nozzle Spacing 18 IN
 Boom Length 6.67 FT
 Boom Height 20 IN
 Ground Speed 3 MPH
 Carrier WATER
 Application Amount 15 GAL/AC
 Mix Size 1 L
 Propellant COMCO2

Treatment Appl. Comments

Trt No Treatment Application Comment

- 4 Scepter rate should be adjusted based on soil type or geographical rate restrictions
- 6 Use correct metribuzin rate for soil type
- 5 Use an Engenia approved DRA and pH buffer
- 6 Use an Engenia approved DRA and pH buffer
- 7 Use an Engenia approved DRA and pH buffer
- 8 Use an Engenia approved DRA and pH buffer

Notes

Context	Date	By	Notes
STATUS	Mar-31-2021	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	May-25-2021	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Application Date entered.
STATUS	May-25-2021	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Application Date entered.

Geographic Area/Environmental Considerations:

Plant in area with even populations of economically important weeds. E.g., Palmer amaranth, waterhemp, velvetleaf, sicklepod, common ragweed, giant ragweed, common lambsquarters, etc. Your AMVAC Technical Product Manager will identify the target weeds for your location.

Plant in area with even populations of economically important weeds. E.g., Palmer amaranth, waterhemp, velvetleaf, sicklepod, common ragweed, giant ragweed, common lambsquarters, etc. Your AMVAC Technical Product Manager will identify the target weeds for your location.

Cropping Considerations:

Conventional tillage should be used. Plant a locally significant soybean variety that has glyphosate, glufosinate, and dicamba resistance.

Use conventional tillage and apply PRE treatments to bare ground.

Use row widths and seeding rates that are standard for your soybean herbicide research program.

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Data to Collect:

Phytotoxicity – general (PHYGEN, %): 14 DAT; Take photos if > 5%

Weed control (CONTRO, %): 14, 28, 42 DAT. List exact species (avoid 'annual grasses', 'Amaranthus spp.', etc).

Weather data: Daily rainfall (in), daily high/low temps (F), daily Humidity (%)
 NO YIELD DATA REQUIRED

Phytotoxicity – general (PHYGEN, %): 7, 14 DA-B; Take photos if > 5%

Weed control (CONTRO, %): 14, 28, 42 DA-B. List exact species (avoid 'annual grasses', 'Amaranthus spp.', etc).

Weather data: Daily rainfall (in), daily high/low temps (F), daily Humidity (%)
 NO YIELD DATA REQUIRED

Pest Type		W Weed	W Weed	W Weed	W Weed		
Pest Code		SETFA	ECHSS	AMBTR	CHEAL		
Pest Name		Giant foxtail	Barnyardgrass	Giant ragweed	common lambsqua>		
Crop Type, Code	C GLXMA						
Crop Name	Soybean						
Rating Date	Jun-21-2021	Jun-21-2021	Jun-21-2021	Jun-21-2021	Jun-21-2021		
Part Rated	PLANT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Type	PHYGEN	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit/Min/Max	%VISUAL 0	%VISUAL 0	%VISUAL 0	%VISUAL 0	%VISUAL 0 100		
	100	100	100	100			
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021		
Days After First/Last Applic.	28 28	28 28	28 28	28 28	28 28		
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A		
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1	14 DE-1		
Number of Decimals	0	0	0	0	0		
Trt Treatment No. Name	Other Rate	Other Rate Unit Code	1*	2*	3*	4*	5* dAS
1 NTC			0 -	0	0	0 b	0 c
2 Dual II Magnum	1.19 lb ai/a	A	0 -	72 b	72 b	88 a	46 b
3 Dual II Magnum	1.19 lb ai/a	A	0 -	77 b	77 b	93 a	100 a
FirstRate	0.0263 lb ai/a	A					
4 Dual II Magnum	1.19 lb ai/a	A	0 -	82 b	82 b	85 a	100 a
Scepter	0.123 lb ai/a	A					
5 Dual II Magnum	1.19 lb ai/a	A	0 -	73 b	73 b	93 a	100 a
Python	0.05 lb ai/a	A					
6 Dual II Magnum	1.19 lb ai/a	A	0 -	92 a	92 a	100 a	100 a
FirstRate	0.0263 lb ai/a	A					
Glory	0.375 lb ai/a	A					
LSD P=.05				7.7	7.7	23.7	12.4 - 16.5
Standard Deviation			0.0	4.1	4.1	13.0	0.5t
CV			0.0	5.17	5.17	16.96	5.96t
Levene's F^			.	0.125	0.125	0.495	1.431
Levene's Prob(F)			.	0.97	0.97	0.774	0.282
Skewness^			.	-0.4674	-0.4674	-0.7889	-0.878
Kurtosis^			.	-0.4038	-0.4038	0.5817	4.8663*
Replicate F			0.000	0.000	0.000	0.025	1.000
Replicate Prob(F)			1.0000	1.0000	1.0000	0.9757	0.4019
Treatment F			0.000	11.650	11.650	25.478	190.582
Treatment Prob(F)			1.0000	0.0020	0.0020	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMATA	CONSS	SETFA	ECHSS			
Pest Name	common water he>	Morningglory	Giant foxtail	Barnyardgrass			
Crop Type, Code			C GLXMA				
Crop Name			Soybean				
Rating Date	Jun-21-2021	Jun-21-2021	Jun-28-2021	Jun-28-2021			
Part Rated	PLOT -	PLOT -	PLANT -	PLOT -			
Rating Type	CONTROL	CONTROL	PHYGEN	CONTROL			
Rating Unit/Min/Max	%VISUAL 0	%VISUAL 0	%VISUAL 0	%VISUAL 0			
	100	100	100	100			
Number of Subsamples	1	1	1	1			
Data Entry Date	Jun-24-2021	Jun-24-2021	Jun-28-2021	Jun-28-2021			
Days After First/Last Applic.	28 28	28 28	35 35	35 35			
Trt-Eval Interval	28 DA-A	28 DA-A	35 DA-A	35 DA-A			
Days After Emergence	14 DE-1	14 DE-1	21 DE-1	21 DE-1			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate Unit Code	6*	7*	8*	9*	10*
1 NTC			0 c	0	0 -	0	0 b
2 Dual II Magnum	1.19 lb ai/a	A	58 b	67 b	0 -	78 -	73 a
3 Dual II Magnum	1.19 lb ai/a	A	60	82 ab	0 -	82 -	73 a
FirstRate	0.0263 lb ai/a	A					
4 Dual II Magnum	1.19 lb ai/a	A	62 b	88 a	0 -	88 -	77 a
Scepter	0.123 lb ai/a	A					
5 Dual II Magnum	1.19 lb ai/a	A	57 b	90 a	0 -	83 -	72 a
Python	0.05 lb ai/a	A					
6 Dual II Magnum	1.19 lb ai/a	A	83 a	93 a	0 -	90 -	84 a
FirstRate	0.0263 lb ai/a	A					
Glory	0.375 lb ai/a	A					
LSD P=.05			9.1	15.6	.	8.5	9.5
Standard Deviation			4.8	8.3	0.0	4.5	5.2
CV			9.29	9.84	0.0	5.36	8.25
Levene's F^			0.426	0.515	.	0.24	1.044
Levene's Prob(F)			0.787	0.726	.	0.909	0.436
Skewness^			-0.5756	0.1081	.	0.3723	0.7426
Kurtosis^			-0.4093	-0.1582	.	-0.5335	2.1329*
Replicate F			0.643	4.902	0.000	7.429	1.600
Replicate Prob(F)			0.5509	0.0408	1.0000	0.0150	0.2495
Treatment F			123.464	4.915	0.000	3.388	107.984
Treatment Prob(F)			0.0001	0.0269	1.0000	0.0667	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	CHEAL	AMATA	CONSS			
Pest Name	Giant ragweed	common water he> lambsq>	common water he>	Morningglory			
Crop Type, Code					C GLXMA		
Crop Name					Soybean		
Rating Date	Jun-28-2021	Jun-28-2021	Jun-28-2021	Jun-28-2021	Jul-12-2021		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLANT -		
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	PHYGEN		
Rating Unit/Min/Max	%VISUAL 0	%VISUAL 0 100	%VISUAL 0	%VISUAL 0	%VISUAL 0		
	100		100	100	100		
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jun-28-2021	Jun-28-2021	Jun-28-2021	Jun-28-2021	Jul-14-2021		
Days After First/Last Applic.	35 35	35 35	35 35	35 35	49 49		
Trt-Eval Interval	35 DA-A	35 DA-A	35 DA-A	35 DA-A	49 DA-A		
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	35 DE-1		
Number of Decimals	0	0	0	0	0		
Trt Treatment No. Name	Other Rate	Other Rate Unit Code	11*	12*	13*	14*	15*
1 NTC			0 c	0 c	0 c	0	0 -
2 Dual II Magnum	1.19 lb ai/a	A	95 ab	50 b	60 b	72 -	0 -
3 Dual II Magnum	1.19 lb ai/a	A	90 ab	93 a	53 b	87 -	0 -
FirstRate	0.0263 lb ai/a	A					
4 Dual II Magnum	1.19 lb ai/a	A	80 b	100 a	43 b	85 -	0 -
Scepter	0.123 lb ai/a	A					
5 Dual II Magnum	1.19 lb ai/a	A	93 ab	100 a	47 b	77 -	0 -
Python	0.05 lb ai/a	A					
6 Dual II Magnum	1.19 lb ai/a	A	100 a	100 a	80 a	93 -	0 -
FirstRate	0.0263 lb ai/a	A					
Glory	0.375 lb ai/a	A					
LSD P=.05			13.3	11.1	16.2	15.7	.
Standard Deviation			7.3	4.3	8.9	8.3	0.0
CV			9.54	5.87	18.91	10.06	0.0
Levene's F^			0.499	0.846	0.515	0.594	.
Levene's Prob(F)			0.772	0.543	0.76	0.675	.
Skewness^			-0.6016	-1.1204	-0.5813	0.0365	.
Kurtosis^			0.1166	1.9668	-0.5554	-0.2291	.
Replicate F			0.812	1.000	2.840	3.349	0.000
Replicate Prob(F)			0.4714	0.3632	0.1055	0.0877	1.0000
Treatment F			81.702	179.667	26.495	3.169	0.000
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0774	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	ECHSS	AMBTR	CHEAL	AMATA		
Pest Name	Giant foxtail	Barnyardgrass	Giant ragweed	common lambsqua	common water he		
Crop Type, Code							
Crop Name							
Rating Date	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit/Min/Max	%VISUAL 0 100	%VISUAL 0 100	%VISUAL 0 100	%VISUAL 0 100	%VISUAL 0 100		
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jul-14-2021	Jul-14-2021	Jul-14-2021	Jul-14-2021	Jul-14-2021		
Days After First/Last Applic.	49 49	49 49	49 49	49 49	49 49		
Trt-Eval Interval	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A		
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1		
Number of Decimals	0	0	0	0	0		
Trt Treatment No. Name	Other Rate	Other Rate Unit Code	16*	17*	18*	19* dAS	20*
1 NTC			0	0	0 b	0 c	0 d
2 Dual II Magnum	1.19 lb ai/a	A	72 -	70 -	92 a	23 b	47 b
3 Dual II Magnum	1.19 lb ai/a	A	70 -	67 -	93 a	100 a	27 c
FirstRate	0.0263 lb ai/a	A					
4 Dual II Magnum	1.19 lb ai/a	A	68 -	68 -	82 a	100 a	23 c
Scepter	0.123 lb ai/a	A					
5 Dual II Magnum	1.19 lb ai/a	A	67 -	65 -	90 a	100 a	20 c
Python	0.05 lb ai/a	A					
6 Dual II Magnum	1.19 lb ai/a	A	65 -	65 -	100 a	100 a	70 a
FirstRate	0.0263 lb ai/a	A					
Glory	0.375 lb ai/a	A					
LSD P=.05			9.1	9.7	20.7	4.3 - 8.4	9.6
Standard Deviation			4.8	5.2	11.4	0.2t	5.3
CV			7.07	7.71	14.96	3.08t	17.03
Levene's F^			1.099	0.802	0.404	0.533	0.377
Levene's Prob(F)			0.409	0.551	0.837	0.747	0.855
Skewness^			0.1016	0.5819	-0.4397	1.3829*	0.6184
Kurtosis^			0.7445	0.9907	0.144	4.8663*	0.0559
Replicate F			3.500	2.250	0.396	1.000	3.020
Replicate Prob(F)			0.0809	0.1678	0.6830	0.4019	0.0942
Treatment F			0.893	0.531	32.959	856.846	62.574
Treatment Prob(F)			0.5105	0.7169	0.0001	0.0001	0.0001

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Pest Type W Weed
 Pest Code CONSS
 Pest Name Morningglory
 Crop Type, Code
 Crop Name
 Rating Date Jul-12-2021
 Part Rated PLOT -
 Rating Type CONTROL
 Rating Unit/Min/Max %VISUAL 0
 100
 Number of Subsamples 1
 Data Entry Date Jul-14-2021
 Days After First/Last Applic. 49 49
 Trt-Eval Interval 49 DA-A
 Days After Emergence 35 DE-1
 Number of Decimals 0

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	21*
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1	NTC				0
2	Dual II Magnum	1.19 lb ai/a		A	67 -
3	Dual II Magnum	1.19 lb ai/a		A	73 -
	FirstRate	0.0263 lb ai/a		A	
4	Dual II Magnum	1.19 lb ai/a		A	70 -
	Scepter	0.123 lb ai/a		A	
5	Dual II Magnum	1.19 lb ai/a		A	68 -
	Python	0.05 lb ai/a		A	
6	Dual II Magnum	1.19 lb ai/a		A	75 -
	FirstRate	0.0263 lb ai/a		A	
	Glory	0.375 lb ai/a		A	

LSD P=.05 19.8
 Standard Deviation 10.5
 CV 14.9
 Levene's F^ 0.374
 Levene's Prob(F) 0.822
 Skewness^ 0.3908
 Kurtosis^ -0.5884

Replicate F 1.639
 Replicate Prob(F) 0.2532
 Treatment F 0.323
 Treatment Prob(F) 0.8548

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Pest Type

W, Weed = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
ECHSS, Echinochloa sp., Barnyardgrass = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
AMATA, Amaranthus x tamariscinus, common water hemp = US
CONSS, Convolvulus sp., Morningglory = US

Crop Type, Code

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

Part Rated

PLANT = plant

PLOT = plot

Rating Type

PHYGEN = phytotoxicity - general / injury