

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Reps: 4

Plots: 6 by 25 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L, overage=300 mL)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Rate Unit	Appl Code	Appl Timing	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	Untreated Check									-	101	206	303	407
2	Python 80 WG NIS	80 WG 100 SL		0.125 oz wt/a 0.25 % v/v	A		POSPOS		.09361 g/mx 3.75 mL/mx	1496.2 mL	102	205	311	402
3	Python 80 WG NIS	80 WG 100 SL		0.3 oz wt/a 0.25 % v/v	A		POSPOS		0.2247 g/mx 3.75 mL/mx	1496 mL	103	213	304	409
4	Python 80 WG NIS	80 WG 100 SL		0.6 oz wt/a 0.25 % v/v	A		POSPOS		0.4493 g/mx 3.75 mL/mx	1495.8 mL	104	209	310	406
5	FirstRate 84 WG NIS	84 WG 100 SL		0.3 oz wt/a 0.25 % v/v	A		POSPOS		0.2247 g/mx 3.75 mL/mx	1496 mL	105	207	309	413
6	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL		0.125 oz wt/a 0.3 oz wt/a 0.25 % v/v	A		POSPOS POSPOS POSPOS		.09361 g/mx 0.2247 g/mx 3.75 mL/mx	1495.9 mL	106	211	302	403
7	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL		0.3 oz wt/a 0.3 oz wt/a 0.25 % v/v	A		POSPOS POSPOS POSPOS		0.2247 g/mx 0.2247 g/mx 3.75 mL/mx	1495.8 mL	107	210	308	410
8	Classic 25 DF NIS	25 DF 100 SL		0.5 oz wt/a 0.25 % v/v	A		POSPOS		0.3745 g/mx 3.75 mL/mx	1495.9 mL	108	212	307	414
9	Python 80 WG Classic 25 DF NIS	80 WG 25 DF 100 SL		0.3 oz wt/a 0.5 oz wt/a 0.25 % v/v	A		POSPOS POSPOS POSPOS		0.2247 g/mx 0.3745 g/mx 3.75 mL/mx	1495.7 mL	109	201	314	408
10	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL .88 EC 100 D 100 SL		32 fl oz/a 8.4 fl oz/a 3 lb/a 1 % v/v	A		POSPOS POSPOS POSPOS POSPOS		25.0 mL/mx 6.562 mL/mx 35.95 g/mx 15.0 mL/mx	1417.5 mL	110	204	312	401
11	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL		32 fl oz/a 3 lb/a 1 % v/v	A		POSPOS POSPOS POSPOS		25.0 mL/mx 35.95 g/mx 15.0 mL/mx	1424.1 mL	111	203	305	412
12	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL 0.88 EC 100 D 100 SL		43 fl oz/a 11.2 fl oz/a 3 lb/a 1 % v/v	A		POSPOS POSPOS POSPOS POSPOS		33.59 mL/mx 8.75 mL/mx 35.95 g/mx 15.0 mL/mx	1406.7 mL	112	214	313	411
13	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL		43 fl oz/a 3 lb/a 1 % v/v	A		POSPOS POSPOS POSPOS		33.59 mL/mx 35.95 g/mx 15.0 mL/mx	1415.5 mL	113	208	306	404
14	Python 80 WG Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	80 WG 2.52 SL 100 D 100 SL		0.3 oz wt/a 32 fl oz/a 3 lb/a 1 % v/v	A		POSPOS POSPOS POSPOS POSPOS		0.2247 g/mx 25.0 mL/mx 35.95 g/mx 15.0 mL/mx	1423.8 mL	114	202	301	405

Sort Order: Treatment

Trial Comments

**SUBSTITUTED LIQUID AMSOL @ 2% V/V FOR DRY AMS IN ALL APPROPRIATE TREATMENTS (30 MLS/MIX)

OVERSEEDED PRICKLY SIDA (5 QTS)

USED DUAL MAGNUM @ 16 OZ/A OVER ENTIRE TEST TO HELP ESTABLISH SIDA AND CONTROL PIGWEED/GRASSES (05/28/24)

PLANTED 3 SOYBEAN VARIETIES/PLOT

BOLT = PIONEER P68A41BE (ROW 1)

STS = AG57FX1 (SR) - ROW 2

NO BOLT OR STS = AG66XF2 (ROW 3)

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Protocol ID: 24HC136US

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ZALO = GLUFOSINATE (2.29 LBS/GAL) + QUIZALOFOP (0.23 LBS/GAL)

NIS = INDUCE (HELENA)

COC = AGRIDEX (HELENA)

SUNRISE ON JUNE 3: 6:29 AM

MISSING SOYBEAN STUNTING DATA DUE TO DEER DAMAGE.

GPS FOR FIELD: 31.507163/-83.658522

SUMMARY:

1) GENERALLY, LESS SOYBEAN INJURY (CHLOROSIS) WAS OBSERVED IN THE BOLT VARIETY IN COMPARISON TO STS/NON-STs VARIETIES. NOT MUCH DIFFERENCE WAS OBSERVED BETWEEN VARIETIES WITH RESPECT TO SOYBEAN STUNTING.

2) WILD RADISH CONTROL ON JUNE 18 (15 DAT) WITH ALL TREATMENTS WAS EXCELLENT (>95%).

2) ON JULY 1 (28 DAT), THE FOLLOWING WEED CONTROL OBSERVATIONS WERE MADE:

A) THE ONLY TREATMENTS THAT PROVIDED AT LEAST 78% CONTROL OF PALMER AMARANTH INCLUDED THE FOLLOWING:

LIBERTY @ 32 OZ/A + ASSURE @ 8.4 OZ/A = 90% CONTROL. ANTAGONISM AT HIGHER RATES???????

ZALO @ 32 OZ/A = 80% CONTROL

PYTHON 0.3 OZ/A + ZALO @ 32 OZ/A = 79% CONTROL

B) COMMON RAGWEED CONTROL WAS GREATER THAN 94% WITH ALL TREATMENTS EXCEPT FOR THE FOLLOWING:

PYTHON AT ANY RATE: 25-44% CONTROL

CLASSIC @ 0.5 OZ/A: 69% CONTROL

PYTHON @ 0.3 OZ/A + CLASSIC @ 0.5 OZ/A: 61% CONTROL

C) PRICKLY SIDA CONTROL EXCEEDED 86% WITH ALL TREATMENTS EXCEPT FOR THE FOLLOWING:

FIRSTRATE @ 0.3 OZ/A: 13% CONTROL

CLASSIC @ 0.5 OZ/A: 0% CONTROL

LIBERTY @ 32 OZ/A + ASSURE @ 8.4 OZ/A: 79% CONTROL

LIBERTY @ 43 OZ/A + ASSURE @ 11.2 OZ/A: 80% CONTROL

ZALO @ 32 OZ/A: 66% CONTROL

ZALO @ 43 OZ/A: 78% CONTROL

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Study Director: Gary Cundiff, Ph.D.

Investigator: Gary Cundiff, Ph.D.

Location: Trial Year: 2023

Sponsor Contact:

Trial Origin: P public institution trial

Establishing a Python rate for Sida species control in Soybean production

Conducted Under GEP: No

General Trial Information

Study Director: Gary Cundiff, Ph.D.

Investigator: Gary Cundiff, Ph.D.

Title: Product Development Research Repres

Title: Product Development Research Repres

Discipline: _____

Status: F one-year/final

ARM Trial Created On: Mar-20-24

Meets All Objectives: _____

Reliability: _____

Initiation Date: _____

Planned Completion Date: Sep-20-24

Interim Data Due: Sep-20-24

Completion Date: _____

Last Possible Tour Visit: _____

Trial Location

City: _____

Country: USA

United States

State/Prov.: _____

County: _____

Postal Code: _____

Climate Zone: _____

Latitude of LL Corner °: _____

Longitude of LL Corner °: _____

GPS Accuracy of LL Corner: _____

Altitude of LL Corner: _____

Angle y-axis to North °: _____

Directions:

Keywords:

Regulations

Test Facility: _____

GEP Accreditation Number: _____

GEP Accreditation Link: _____

Certificate Expiration: _____

Conducted Under GLP: No

Official Trial ID: _____

Conducted Under GEP: No

Official Protocol ID: _____

No.	Destroyed?	Crop No.	Crop Code	Crop Stage	Part Destroyed	Explanation	Method	Destruction Date	Verified By
1.									

No.	Guideline	Discipline	Description
1.			

No.	Permit Number	Permit Description
1.		

Objectives:

Establishing a Python rate for Sida species control in Soybean production.

Soybean crop response as well as weed control is the objective in this trial.

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Conducted Under GEP: No

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Materials and Methods

Establishing a Python rate for Sida species control in Soybean production.

Soybean crop response as well as weed control is the objective in this trial.

Applications should begin at V3-V5 for soybean unless target species height reaches 3" before this growth stage.

Target growth stage for sida species is no greater than 3", Please note the sida height at application as well as other pest species in trial.

This trial should be conducted as a multispecies trial, with crop and weed species planted across plots.

We ask that this trial be in a place with access to water, lateral or pivot, to ensure adequate germination of both crop and weed species.

Contractor must have the ability to acquire seed and plant all listed crop and weed species in trial, we ask that populations are artificially populated. If this cannot be obtained, please place in a field with a known history of species of interest.

Evaluations:

- % Phyto
- % Control

Evaluation Timing:

- % Phyto at 7, 14, 28 DAT
- % Control at 14, 28 DAT

Record the following information in Protocol Description tabs/sections:

- **Application details:** Date, time, etc,
- **Crop Information:** Crop growth stage for each application.
- **Pest Information:** Pest growth stage for each application.
- **Environmental Conditions:** Air and soil temp, humidity.
- **Soil Characteristics:** Soil type/texture, pH, CEC, OM, etc.
- **Deviations:** Please describe deviations, errors and variables that may influence crop health.
- Rainfall/Irrigation
- GPS points
- **Yield: NO**

- Please use only the .dat file that is supplied by the AMVAC representative as this will ensure a seamless review of the data supplied.

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Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Results:

Conclusions:

Contacts

Role: STYDIR

study director

Study Director: Gary Cundiff, Ph.D.

Organization: Amvac

Address 1: 521 Frederick Dr.

Address 2:

Country:

City: Cleveland

Role: INVEST

investigator

Investigator: Gary Cundiff, Ph.D.

Organization: Amvac

Address 1: 521 Frederick Dr.

Address 2:

Country:

City: Cleveland

Role: SPONSR

sponsor

Sponsor:

Organization:

Address 1:

Address 2:

Country:

City:

Role: COOPER

cooperator

Cooperator:

Organization:

Address 1:

Address 2:

Country:

City:

Role:

Contact Name 5:

Organization:

Address 1:

Address 2:

Country:

City:

Title: Product Development Research R

Org. Type:

Phone No.:

Mobil

E-mail: garyc@amvac.com

State/Prov: MS

Postal

Title: Product Development Research Re

Org. Type:

Phone No.:

Mobile

E-mail: garyc@amvac.com

State/Prov: MS

Postal C

Title:

Org. Type:

Phone No.:

E-mail:

State/Prov:

Title:

Org. Type:

Phone No.:

E-mail:

State/Prov:

Title:

Org. Type:

Phone No.:

E-mail:

State/Prov:

Crop Description

Crop 1: C GLXMA Glycine max

Soybean

Entry Date: Jun-11-24

Stage Scale: BBCH

Variety: P68A41BE/AG57FX1/AG66XF2

Attributes:

Seed Shape:

Perennial Age:

Seed Size:

Perennial Height:

Nursery Date:

Planting Date: May-7-24

Depth: 2 IN

Rows per Plot: 3

Row Spacing: 15 IN

Spacing within Row:

Soil Temperature:

Planting Rate: 126000

S/A

Planting Method:

Planting Equipment:

Seed Bed:

Soil Moisture:

Emergence Date:

Harvest Date:

Moisture Meter:

% Standard Moisture:

Weighing Equipment:

Harvest Equipment:

Harvested Width:

Harvested Length:

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Study Director: Gary Cundiff, Ph.D.	Sponsor Contact: Conducted Under GEP: No
Investigator: Gary Cundiff, Ph.D.	Trial Origin: P public institution trial

Crop 2: C GLXMA Glycine max	Soybean
Entry Date: _____	Stage Scale: BBCH
Variety: STS soybean	
Attributes: _____	
Seed Shape: _____	Seed Size: _____
Perennial Age: _____	Perennial Height: _____
Nursery Date: _____	
Planting Date: _____	Planting Rate: _____
Depth: _____	
Rows per Plot: _____	Planting Method: _____
Row Spacing: _____	Planting Equipment: _____
Spacing within Row: _____	Seed Bed: _____
Soil Temperature: _____	Soil Moisture: _____
Emergence Date: _____	
Harvest Date: _____	Harvest Equipment: _____
Moisture Meter: _____	Harvested Width: _____
% Standard Moisture: _____	Harvested Length: _____
Weighing Equipment: _____	

Crop 3: C GLXMA Glycine max	Soybean
Entry Date: _____	Stage Scale: BBCH
Variety: Bolt soybean	
Attributes: _____	
Seed Shape: _____	Seed Size: _____
Perennial Age: _____	Perennial Height: _____
Nursery Date: _____	
Planting Date: _____	Planting Rate: _____
Depth: _____	
Rows per Plot: _____	Planting Method: _____
Row Spacing: _____	Planting Equipment: _____
Spacing within Row: _____	Seed Bed: _____
Soil Temperature: _____	Soil Moisture: _____
Emergence Date: _____	
Harvest Date: _____	Harvest Equipment: _____
Moisture Meter: _____	Harvested Width: _____
% Standard Moisture: _____	Harvested Length: _____
Weighing Equipment: _____	

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Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D.

Trial Origin: P public institution trial

Pest Description

Pest 1 Type: W

Code: SIDSP

Sida spinosa

Entry Date: _____

Common Name: Prickly sida

Stage Scale: BBCH

Attributes: _____

Artificial Population: Y yes

Establishment Date: _____

Time: _____

Stage at Establishment: 00

Establishment Rate: _____

Concentration: _____

Establishment Method/Description: _____

Crop: _____

Stage at Infestation: _____

Pest 2 Type: W

Code: AMAPA

Amaranthus palmeri

Entry Date: Jun-11-24

Common Name: Palmer amaranth

Stage Scale: BBCH

Attributes: _____

Artificial Population: _____

Establishment Date: _____

Time: _____

Stage at Establishment: _____

Establishment Rate: _____

Concentration: _____

Establishment Method/Description: _____

Crop: _____

Stage at Infestation: _____

Pest 3 Type: W

Code: AMBEL

Ambrosia artemisiifolia

Entry Date: Jun-11-24

Common Name: Common ragweed

Stage Scale: BBCH

Attributes: _____

Artificial Population: _____

Establishment Date: _____

Time: _____

Stage at Establishment: _____

Establishment Rate: _____

Concentration: _____

Establishment Method/Description: _____

Crop: _____

Stage at Infestation: _____

Pest 4 Type: W

Code: RAPRA

Raphanus raphanistrum

Entry Date: Jun-11-24

Common Name: Wild radish

Stage Scale: BBCH

Attributes: _____

Artificial Population: _____

Establishment Date: _____

Time: _____

Stage at Establishment: _____

Establishment Rate: _____

Concentration: _____

Establishment Method/Description: _____

Crop: _____

Stage at Infestation: _____

Pest 5 Type: W

Code: MOLVE

Mollugo verticillata

Entry Date: Jun-11-24

Common Name: carpetweed

Stage Scale: BBCH

Attributes: _____

Artificial Population: _____

Establishment Date: _____

Time: _____

Stage at Establishment: _____

Establishment Rate: _____

Concentration: _____

Establishment Method/Description: _____

Crop: _____

Stage at Infestation: _____

Site and Design

Treated Plot Width: 6 FT

Treated Plot Length: 25 FT

Treated Plot Area: 150.0 FT²

Replications: 4

Treatments: 14

Plots: 56

% Slope: _____

Site Type: FIELD field

Experimental Unit: 1 PLOT plot

Tillage Type: CONTIL conventional-till

Study Design: RACOB� Randomized Complete Block (RCB)

Trial Initiation Comments:

400 LBS/A 5-15-30 PREPLANT

Location Quality:

University of Georgia

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Conducted Under GEP: No

No.	Previous Crop	Previous Pest Type	Previous Pest	Previous Pesticides	Year	Month	Comment
1.	SORGHUM				2023		
2.							

Maintenance

No.	Date	Type	Maintenance Product Name	Form Conc	Form Unit	Form Type	Description	Rate	Rate Unit	Tank Mix (Yes/No)	Comment
1.											

Comment:

Field Prep./Maintenance:
400 LBS/A 5-15-30 PREPLANT

Soil Description

Description Name: _____

% Sand: 94

% Silt: 4

% Clay: 2

% OM: 0.9

% Carbon: _____

% Lime: _____

pH: _____

Texture: S sand

Soil Name: TIFTON

Fert. Level: G good

CEC: 3.7

Soil Drainage: _
Comment:

Additional Measured Elements

Date	Element	Quantity	Unit	Depth	Unit	Comment

Weather Conditions

Overall Moisture Conditions: _____

Weather Station Name: _____ Code: _____

Irrigation Type: _____ Distance: _____

No.	Date	Time	Moisture Total	Unit	Min Temp	Max Temp	Avg Temp	Temp Unit	Min % Relative Humidity	Max % Relative Humidity	Avg % Relative Humidity	Min Wind	Max Wind	Avg Wind
1.														

Comment:

MAY 9: 0.75" RAINFALL
MAY 10: 0.75" RAINFALL
MAY 13: 1.1" RAINFALL
MAY 17: 0.96" RAINFALL
MAY 18: 1.35" RAINFALL
MAY 19: 0.69" RAINFALL
MAY 25: 0.44" RAINFALL
MAY 27: 0.62" RAINFALL
JUNE 11: 0.45" IRRIGATIN
JUNE 17: 0.4" IRRIGATION
JUNE 27: 0.9" RAINFAL

Greenhouse Information

No.
1.

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Location:

Trial Year: 2023

Sponsor Contact:

Trial Origin: P public institution trial

Establishing a Python rate for Sida species control in Soybean production

Conducted Under GEP: No

Application Description

	A
Date	Jun-3-24
Start Time	
Stop Time	7:24 AM
Standard	
Method	BROADC
Timing	POSPOS
Placement	BROFOL
Mixed/Prepared By	EP/NS
Applied By	EP
Entry Date	Jun-11-24
Air Temperature Start, Stop	, 69 F
% Relative Humidity Start, Stop	, 94
Wind Velocity+Dir. Start	1 MPH,
Wind Velocity+Dir. Stop	
Wind Velocity+Dir. Max	
Wet Leaves (Y/N)	Y, yes
Soil Temperature	75 F
Soil Temperature Depth	
Soil Moisture	OPTIMUM
Soil Surface Condition	
% Ground Cover	
% Cloud Cover	0
First Moisture Occurred On	
Time to First Moisture	
Amount of First Moisture	
Moisture 1 Week Before Appl.	
Moisture 6 Hours After Appl.	
Moisture 24 Hours After Appl.	
Moisture 1 Week After Appl.	
Problems with Application?	

Comment:

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Conducted Under GEP: No

Crop Stage At Each Application	
	A
Crop 1 Code, BBCH Scale	GLXMA, BSOY
Days after Emergence	
Stage Majority, Percent	13,
Stage Minimum, Percent	14,
Stage Maximum, Percent	14,
Diameter Average	
Diameter Minimum, Maximum	
Height Average	7 IN
Height Minimum, Maximum	6, 8
Density Average	
Density Minimum, Maximum	
Coverage	
Crop 2 Code, BBCH Scale	GLXMA, BSOY
Days after Emergence	
Stage Majority, Percent	15,
Stage Minimum, Percent	13,
Stage Maximum, Percent	15,
Diameter Average	
Diameter Minimum, Maximum	
Height Average	
Height Minimum, Maximum	
Density Average	
Density Minimum, Maximum	
Coverage	
Crop 3 Code, BBCH Scale	GLXMA, BSOY
Days after Emergence	
Stage Majority, Percent	15,
Stage Minimum, Percent	13,
Stage Maximum, Percent	15,
Diameter Average	
Diameter Minimum, Maximum	
Height Average	
Height Minimum, Maximum	
Density Average	
Density Minimum, Maximum	
Coverage	

Pest Stage At Each Application	
	A
Pest 1 Code, Type, Scale	SIDSP, W, BBCH
Establishment Date	

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Location:

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Conducted Under GEP: No

Application Equipment	
	A
Equipment Name	BOOM
Equipment Type	BACCAI
Operation Pressure	35 PSI
Nozzle Model	
Nozzle Type	AIXR
Nozzle TradeName	
Nozzle Tip Size, Color	11002,
Nozzle Spacing	20.0 IN
Nozzles/Row	
Nozzle Count	
Band Width	
Spray Swath	
% Coverage	
Boom ID	
Boom Length	60.0 IN
Boom Height	20.0 IN
Ground Speed	3.5 MPH
Carrier	WATER
Water Hardness (ppm CaCO3)	
Application Amount	15 GAL/AC
Mix Overage	25 %
Mix Size	1.5 L
Spray pH	
Propellant	COMCO2
Tank Mix (Y/N)	

Equipment Comment:

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Equipment

	1.
Equipment Name	
Platform Type	
Platform Trade Name	
Platform Model	
Sensor Type	
Sensor Trade Name	
Sensor Model	
Resolution	
Sensor Height	
Sensor Speed	
Original Data Location	
Analysis Company	
Analysis Method	
Software Version	
Scale Trade Name	
Scale Model	

Treatment Appl. Comments

Trt No	Treatment Application Comment
10	Must use AMS, if AMS substitute is used please note in the comments as to what was used.
11	Must use AMS, if AMS substitute is used please note in the comments as to what was used.
12	Must use AMS, if AMS substitute is used please note in the comments as to what was used.
13	Must use AMS, if AMS substitute is used please note in the comments as to what was used.
14	Must use AMS, if AMS substitute is used please note in the comments as to what was used.

Notes

No.	Context	Date	Time	By	Notes
1.	STATUS	Mar-20-24		Gregory Armel	Automatically added by ARM: Trial Status updated to 'S' during trial creation by (XAVARG).
2.	STATUS	Jun-11-24		Eric P. Prostko	Automatically added by ARM: Trial Status updated to 'E' when Planting Date was entered by (EGAPRE).
3.					

Deviations

No. 1: Date: _____ By: _____
Deviations: _____
Reasons: _____

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SE Definitions		
	1.	
Rating Timing		
SE Name		
SE Description		
Part Rated		
Rating Type		
Rating Unit		
Rating Min/Max/Interval		
Sample Size		
Collection Basis		
Reporting Basis		
Number of Subsamples		
Untreated Rating Type		
ARM Action Codes		
Pest Type, Code		
Crop Type, Code		
Required		
No.	Task	Comment
1.		

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Establishing a Python rate for Sida species control in Soybean production.

Soybean crop response as well as weed control is the objective in this trial.

Applications should begin at V3-V5 for soybean unless target species height reaches 3" before this growth stage.

Target growth stage for sida species is no greater than 3", Please note the sida height at application as well as other pest species in trial.

This trial should be conducted as a multispecies trial, with crop and weed species planted across plots.

We ask that this trial be in a place with access to water, lateral or pivot, to ensure adequate germination of both crop and weed species.

Contractor must have the ability to acquire seed and plant all listed crop and weed species in trial, we ask that populations are artificially populated. If this cannot be obtained, please place in a field with a known history of species of interest.

Evaluations:

- % Phyto
- % Control

Evaluation Timing:

- % Phyto at 7, 14, 28 DAT
- % Control at 14, 28 DAT

Record the following information in Protocol Description tabs/sections:

- **Application details:** Date, time, etc,
- **Crop Information:** Crop growth stage for each application.
- **Pest Information:** Pest growth stage for each application.
- **Environmental Conditions:** Air and soil temp, humidity.
- **Soil Characteristics:** Soil type/texture, pH, CEC, OM, etc.
- **Deviations:** Please describe deviations, errors and variables that may influence crop health.
- Rainfall/Irrigation
- GPS points
- Yield: NO

- Please use only the .dat file that is supplied by the AMVAC representative as this will ensure a seamless review of the data supplied.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production		
Trial ID: 24HC136USGA02		
Protocol ID: 24HC136US	Location:	Trial Year: 2023
Project ID: 136		
Study Director: Gary Cundiff, Ph.D.	Sponsor Contact:	Conducted Under GEP: No
Investigator: Gary Cundiff, Ph.D.		Trial Origin: P public institution trial

Yield Required: _

Geographic Area/Environmental Considerations:

Cropping Considerations:
Plant STS, Non STS and Bolt soybean varieties so that there is a good representation of each in each plot.

Plant crop and weed species perpendicular to plot orientation (across plots).

Data to Collect:
Evaluations:
- % Phyto
- % Control

Evaluation Timing:
- % Phyto at 7, 14, 28 DAT
- % Control at 14, 28 DAT

Statistical Analysis:
Not Requested

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date Rating Type Rating Unit Rating Min/Max/Interval Crop Name Crop Variety Pest Code							Jun-10-24 STUNTING % 0, 100, - Soybean BOLT	Jun-10-24 CHLOROSIS % 0, 100, - Soybean BOLT	Jun-10-24 STUNTING % 0, 100, - Soybean STS	Jun-10-24 CHLOROSIS % 0, 100, - Soybean STS
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit	Appl Code Timing	1	2	3	4
1	Untreated Check						0.0 e	0.0 -	0.0 e	0.0 c
2	Python 80 WG NIS	80 WG 100 SL	0.125 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		1.3 de	0.0 -	1.3 de	0.0 c
3	Python 80 WG NIS	80 WG 100 SL	0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		6.3 bcd	0.0 -	6.3 bcd	5.0 ab
4	Python 80 WG NIS	80 WG 100 SL	0.6 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		7.5 abc	0.0 -	7.5 abc	7.5 a
5	FirstRate 84 WG NIS	84 WG 100 SL	0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		13.3 a	0.0 -	13.3 a	2.5 bc
6	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL	0.125 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		8.8 abc	0.0 -	8.8 ab	1.3 c
7	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL	0.3 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		8.8 abc	1.3 -	8.8 ab	5.0 ab
8	Classic 25 DF NIS	25 DF 100 SL	0.5 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		0.0 e	0.0 -	0.0 e	2.5 bc
9	Python 80 WG Classic 25 DF NIS	80 WG 25 DF 100 SL	0.3 oz wt/a 0.5 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		10.0 ab	0.0 -	10.0 ab	5.0 ab
10	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL .88 EC 100 D 100 SL	32 fl oz/a 8.4 fl oz/a 3 lb/a 1 % v/v	A A A A	POSPOS POSPOS POSPOS POSPOS		7.5 abc	1.3 -	7.5 abc	1.3 c
11	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL	32 fl oz/a 3 lb/a 1 % v/v	A A A	POSPOS POSPOS POSPOS		3.8 cde	0.0 -	5.0 b-e	0.0 c
12	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL 0.88 EC 100 D 100 SL	43 fl oz/a 11.2 fl oz/a 3 lb/a 1 % v/v	A A A A	POSPOS POSPOS POSPOS POSPOS		5.0 b-e	0.0 -	5.0 b-e	0.0 c
13	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL	43 fl oz/a 3 lb/a 1 % v/v	A A A	POSPOS POSPOS POSPOS		3.3 cde	1.3 -	1.7 cde	0.0 c

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date							Jun-10-24	Jun-10-24	Jun-10-24	Jun-10-24
Rating Type							STUNTING	CHLOROSIS	STUNTING	CHLOROSIS
Rating Unit							%	%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Name							Soybean	Soybean	Soybean	Soybean
Crop Variety							BOLT	BOLT	STS	STS
Pest Code										
Trt	Treatment	Form	Form	Rate	Appl	Appl	1	2	3	4
No.	Name	Conc	Type	Rate	Unit	Code	Timing			
14	Python 80 WG	80	WG	0.3 oz	wt/a	A	POSPOS	8.3 abc	0.0 -	8.3 ab
	Zalo 2.52 SL	2.52	SL	32 fl	oz/a	A	POSPOS			5.0 ab
	AMS 100 D	100	D	3 lb/a		A	POSPOS			
	Crop Oil Concentrate	100	SL	1 %	v/v	A	POSPOS			
LSD P=.10							5.87	1.37	5.95	2.69
Standard Deviation							4.91	1.15	4.98	2.25
CV							82.12	428.34	83.65	90.18
Grand Mean							5.98	0.27	5.95	2.50
Bartlett's X2^							19.917	57.495*	18.521	45.402*
P(Bartlett's X2)							0.097	0.00*	0.139	0.00*
Replicate F							1.010	1.243	1.105	0.937
Replicate Prob(F)							0.4001	0.3071	0.3607	0.4321
Treatment F							2.583	0.861	2.609	5.108
Treatment Prob(F)							0.0132	0.5976	0.0125	0.0001

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date							Jun-10-24	Jun-10-24	Jun-10-24	Jun-10-24
Rating Type							STUNTING	CHLOROSIS	CONTROL	CONTROL
Rating Unit							%	%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Name							Soybean	Soybean		
Crop Variety							NO BOLT OR STS	NO BOLT OR STS		
Pest Code									AMAPA	AMBEL
Trt	Treatment	Form	Form	Rate	Appl	Appl	5	6	7	8
No.	Name	Conc	Type	Unit	Code	Timing				
1	Untreated Check						0.0 e	0.0 g	0.0 d	0.0 d
2	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	1.3 e	5.0 efg	15.0 bc	12.5 c
	NIS	100 SL		0.25 % v/v	A	POSPOS				
3	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	7.5 bcd	15.0 c	17.5 bc	20.0 c
	NIS	100 SL		0.25 % v/v	A	POSPOS				
4	Python 80 WG	80 WG		0.6 oz wt/a	A	POSPOS	13.8 a	30.0 a	20.0 b	20.0 c
	NIS	100 SL		0.25 % v/v	A	POSPOS				
5	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	13.3 a	5.0 efg	10.0 c	35.0 b
	NIS	100 SL		0.25 % v/v	A	POSPOS				
6	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	8.8 abc	6.3 def	15.0 bc	42.5 b
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS				
	NIS	100 SL		0.25 % v/v	A	POSPOS				
7	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	10.0 ab	11.3 cd	15.0 bc	35.0 b
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS				
	NIS	100 SL		0.25 % v/v	A	POSPOS				
8	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS	0.0 e	10.0 cde	10.0 c	37.5 b
	NIS	100 SL		0.25 % v/v	A	POSPOS				
9	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	10.0 ab	21.3 b	20.0 b	37.5 b
	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS				
	NIS	100 SL		0.25 % v/v	A	POSPOS				
10	Liberty 280 SL	280 SL		32 fl oz/a	A	POSPOS	2.5 de	1.3 fg	97.0 a	99.0 a
	Assure II 0.88 EC	.88 EC		8.4 fl oz/a	A	POSPOS				
	AMS 100 D	100 D		3 lb/a	A	POSPOS				
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS				
11	Zalo 2.52 SL	2.52 SL		32 fl oz/a	A	POSPOS	2.5 de	6.3 def	96.0 a	98.0 a
	AMS 100 D	100 D		3 lb/a	A	POSPOS				
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS				
12	Liberty 280 SL	280 SL		43 fl oz/a	A	POSPOS	3.3 cde	2.5 fg	96.0 a	98.0 a
	Assure II 0.88 EC	0.88 EC		11.2 fl oz/a	A	POSPOS				
	AMS 100 D	100 D		3 lb/a	A	POSPOS				
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS				
13	Zalo 2.52 SL	2.52 SL		43 fl oz/a	A	POSPOS	3.3 cde	1.3 fg	96.0 a	98.0 a
	AMS 100 D	100 D		3 lb/a	A	POSPOS				
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS				

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date							Jun-10-24	Jun-10-24	Jun-10-24	Jun-10-24
Rating Type							STUNTING	CHLOROSIS	CONTROL	CONTROL
Rating Unit							%	%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Name							Soybean	Soybean		
Crop Variety							NO BOLT OR STS	NO BOLT OR STS		
Pest Code									AMAPA	AMBEL
Trt	Treatment	Form	Form	Rate	Appl	Appl	5	6	7	8
No.	Name	Conc	Type	Unit	Code	Timing				
14	Python 80 WG	80	WG	0.3 oz wt/a	A	POSPOS	13.3 a	32.5 a	96.0 a	96.0 a
	Zalo 2.52 SL	2.52	SL	32 fl oz/a	A	POSPOS				
	AMS 100 D	100	D	3 lb/a	A	POSPOS				
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS				
LSD P=.10							5.63	6.00	7.97	8.98
Standard Deviation							4.71	5.04	6.69	7.54
CV							73.6	47.8	15.52	14.48
Grand Mean							6.40	10.54	43.11	52.07
Bartlett's X2^							19.296	32.598*	38.562*	19.735
P(Bartlett's X2)							0.114	0.002*	0.00*	0.102
Replicate F							1.410	0.962	0.700	5.453
Replicate Prob(F)							0.2568	0.4203	0.5579	0.0031
Treatment F							4.723	17.502	152.927	96.824
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date						Jun-10-24 CONTROL %	Jun-10-24 CONTROL %	Jun-10-24 CONTROL %	Jun-18-24 STUNTING %	Jun-18-24 STUNTING %
Rating Type						0, 100, -	0, 100, -	0, 100, -	0, 100, - SOYBEAN BOLT	0, 100, - SOYBEAN STS
Rating Unit						SIDSP	RAPRA	MOLVE		
Rating Min/Max/Interval										
Crop Name										
Crop Variety										
Pest Code										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Appl Timing			
1	Untreated Check							9	10	11
2	Python 80 WG NIS	80 WG 100 SL		0.125 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		0.0 e	0.0 d	0.0 b
3	Python 80 WG NIS	80 WG 100 SL		0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		0.0 b	0.0 f	0.0 e
4	Python 80 WG NIS	80 WG 100 SL		0.6 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		0.0 b	10.0 b-e	7.5 bcd
5	FirstRate 84 WG NIS	84 WG 100 SL		0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		0.0 b	8.8 b-e	12.5 abc
6	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL		0.125 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		0.0 b	10.0 b-e	13.8 ab
7	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL		0.3 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		0.0 b	11.7 a-d	16.7 a
8	Classic 25 DF NIS	25 DF 100 SL		0.5 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		0.0 b	13.8 abc	12.5 abc
9	Python 80 WG Classic 25 DF NIS	80 WG 25 DF 100 SL		0.3 oz wt/a 0.5 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		0.0 b	15.0 ab	15.0 a
10	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL .88 EC 100 D 100 SL		32 fl oz/a 8.4 fl oz/a 3 lb/a 1 % v/v	A A A A	POSPOS POSPOS POSPOS POSPOS		0.0 b	12.5 a-d	7.5 bcd
11	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL		32 fl oz/a 3 lb/a 1 % v/v	A A A	POSPOS POSPOS POSPOS		0.0 b	16.7 a	11.7 abc
12	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL 0.88 EC 100 D 100 SL		43 fl oz/a 11.2 fl oz/a 3 lb/a 1 % v/v	A A A A	POSPOS POSPOS POSPOS POSPOS		0.0 b	15.0 ab	15.0 a
13	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL		43 fl oz/a 3 lb/a 1 % v/v	A A A	POSPOS POSPOS POSPOS		0.0 b	13.8 abc	12.5 abc

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date						Jun-10-24	Jun-10-24	Jun-10-24	Jun-18-24	Jun-18-24
Rating Type						CONTROL	CONTROL	CONTROL	STUNTING	STUNTING
Rating Unit						%	%	%	%	%
Rating Min/Max/Interval						0, 100, -	0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Name									SOYBEAN	SOYBEAN
Crop Variety									BOLT	STS
Pest Code						SIDSP	RAPRA	MOLVE		
Trt Treatment	Form Form	Rate	Appl	Appl		9	10	11	12	13
No. Name	Conc Type	Unit	Code	Timing						
14 Python 80 WG	80 WG	0.3 oz wt/a	A	POSPOS		98.0 a	91.0 c	98.0 a	6.7 de	6.7 cd
Zalo 2.52 SL	2.52 SL	32 fl oz/a	A	POSPOS						
AMS 100 D	100 D	3 lb/a	A	POSPOS						
Crop Oil Concentrate	100 SL	1 % v/v	A	POSPOS						
LSD P=.10						6.03	4.12	1.12	6.64	6.30
Standard Deviation						5.06	3.46	0.94	5.55	5.26
CV						11.23	3.92	2.67	59.34	56.79
Grand Mean						45.02	88.32	35.07	9.35	9.26
Bartlett's X2^						52.505*	57.21*	14.739	.	.
P(Bartlett's X2)						0.00*	0.00*	0.324	.	.
Replicate F						1.337	0.658	5.200	0.760	1.975
Replicate Prob(F)						0.2769	0.5831	0.0041	0.5247	0.1375
Treatment F						254.028	216.677	10848.925	2.553	3.048
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0154	0.0051

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date Rating Type Rating Unit Rating Min/Max/Interval Crop Name Crop Variety Pest Code							Jun-18-24 STUNTING % 0, 100, - SOYBEAN NON BOLT OR STS	Jun-18-24 CHLOROSIS % 0, 100, - SOYBEAN BOLT	Jun-18-24 CHLOROSIS % 0, 100, - SOYBEAN STS
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Appl Code Appl Timing	14	15	16
1	Untreated Check						0.0 d	0.0 na	0.0 e
2	Python 80 WG NIS	80 WG 100 SL	0.125 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		5.0 bcd	0.0 na	12.5 a
3	Python 80 WG NIS	80 WG 100 SL	0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		8.8 abc	0.0 na	8.8 ab
4	Python 80 WG NIS	80 WG 100 SL	0.6 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		16.3 a	0.0 na	12.5 a
5	FirstRate 84 WG NIS	84 WG 100 SL	0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		11.7 abc	0.0 na	2.5 cde
6	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL	0.125 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		11.3 abc	0.0 na	6.3 bcd
7	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL	0.3 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		11.7 abc	0.0 na	8.8 ab
8	Classic 25 DF NIS	25 DF 100 SL	0.5 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		5.0 bcd	0.0 na	7.5 abc
9	Python 80 WG Classic 25 DF NIS	80 WG 25 DF 100 SL	0.3 oz wt/a 0.5 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		13.3 ab	0.0 na	11.3 ab
10	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL .88 EC 100 D 100 SL	32 fl oz/a 8.4 fl oz/a 3 lb/a 1 % v/v	A A A A	POSPOS POSPOS POSPOS POSPOS		0.0 d	0.0 na	2.5 cde
11	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL	32 fl oz/a 3 lb/a 1 % v/v	A A A	POSPOS POSPOS POSPOS		7.5 bcd	0.0 na	1.3 de
12	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL 0.88 EC 100 D 100 SL	43 fl oz/a 11.2 fl oz/a 3 lb/a 1 % v/v	A A A A	POSPOS POSPOS POSPOS POSPOS		3.3 cd	0.0 na	2.5 cde
13	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL	43 fl oz/a 3 lb/a 1 % v/v	A A A	POSPOS POSPOS POSPOS		6.3 bcd	0.0 na	2.5 cde

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date							Jun-18-24	Jun-18-24	Jun-18-24
Rating Type							STUNTING	CHLOROSIS	CHLOROSIS
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Crop Name							SOYBEAN	SOYBEAN	SOYBEAN
Crop Variety							NON BOLT OR STS	BOLT	STS
Pest Code									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Appl Code	Appl Timing		
14	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS		14	15
	Zalo 2.52 SL	2.52 SL		32 fl oz/a	A	POSPOS		10.0 abc	0.0 na
	AMS 100 D	100 D		3 lb/a	A	POSPOS			7.5 abc
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS			
LSD P=.10							8.45	.	5.82
Standard Deviation							7.06	0.00	4.89
CV							89.82	0.0	79.34
Grand Mean							7.86	0.00	6.16
Bartlett's X2^							.	.	24.502*
P(Bartlett's X2)							.	.	0.027*
Replicate F							1.493	NaN	0.168
Replicate Prob(F)							0.2352	NaN	0.9172
Treatment F							1.911	NaN	3.078
Treatment Prob(F)							0.0674	NaN	0.0033

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date Rating Type Rating Unit Rating Min/Max/Interval Crop Name Crop Variety Pest Code							Jun-18-24 CHLOROSIS % 0, 100, - SOYBEAN NO BOLT OR STS	Jun-18-24 CONTROL % 0, 100, - AMAPA	Jun-18-24 CONTROL % 0, 100, - AMBEL	Jun-18-24 CONTROL % 0, 100, - SIDSP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Code	Appl Timing	17	18	19	20
1	Untreated Check							0.0 e	0.0 d	0.0 g	0.0 h
2	Python 80 WG NIS	80 WG 100 SL		0.125 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		2.5 de	20.0 c	45.0 f	76.3 e
3	Python 80 WG NIS	80 WG 100 SL		0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		11.3 ab	12.5 cd	56.3 e	81.3 b-e
4	Python 80 WG NIS	80 WG 100 SL		0.6 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		15.0 a	12.5 cd	58.8 e	88.8 a-d
5	FirstRate 84 WG NIS	84 WG 100 SL		0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		3.8 cde	0.0 d	87.5 c	46.3 f
6	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL		0.125 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		6.3 cd	12.5 cd	88.8 bc	72.5 e
7	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL		0.3 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		7.5 bc	25.0 c	85.0 c	78.8 cde
8	Classic 25 DF NIS	25 DF 100 SL		0.5 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		2.5 de	0.0 d	81.3 cd	23.3 g
9	Python 80 WG Classic 25 DF NIS	80 WG 25 DF 100 SL		0.3 oz wt/a 0.5 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		12.5 a	16.3 cd	75.0 d	77.5 de
10	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL .88 EC 100 D 100 SL		32 fl oz/a 8.4 fl oz/a 3 lb/a 1 % v/v	A A A A	POSPOS POSPOS POSPOS POSPOS		2.5 de	82.5 ab	98.0 ab	91.0 ab
11	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL		32 fl oz/a 3 lb/a 1 % v/v	A A A	POSPOS POSPOS POSPOS		5.0 cd	72.5 ab	98.0 ab	90.0 abc
12	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL 0.88 EC 100 D 100 SL		43 fl oz/a 11.2 fl oz/a 3 lb/a 1 % v/v	A A A A	POSPOS POSPOS POSPOS POSPOS		5.0 cd	63.8 b	99.0 a	93.8 a
13	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL		43 fl oz/a 3 lb/a 1 % v/v	A A A	POSPOS POSPOS POSPOS		2.5 de	70.0 ab	99.0 a	98.0 a

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date						Jun-18-24	Jun-18-24	Jun-18-24	Jun-18-24
Rating Type						CHLOROSIS	CONTROL	CONTROL	CONTROL
Rating Unit						%	%	%	%
Rating Min/Max/Interval						0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Name						SOYBEAN			
Crop Variety						NO BOLT OR STS			
Pest Code							AMAPA	AMBEL	SIDSP
Trt Treatment	Form	Form	Rate	Appl	Appl	17	18	19	20
No. Name	Conc	Type	Unit	Code	Timing				
14 Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	15.0 a	86.0 a	97.0 ab	98.0 a
Zalo 2.52 SL	2.52 SL		32 fl oz/a	A	POSPOS				
AMS 100 D	100 D		3 lb/a	A	POSPOS				
Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS				
LSD P=.10						4.38	19.16	9.35	12.05
Standard Deviation						3.67	16.08	7.85	10.10
CV						56.36	47.55	10.28	13.92
Grand Mean						6.52	33.82	76.32	72.52
Bartlett's X2^						23.739*	5.311	40.674*	34.705*
P(Bartlett's X2)						0.034*	0.968	0.00*	0.001*
Replicate F						0.739	9.049	0.473	0.271
Replicate Prob(F)						0.5353	0.0001	0.7025	0.8459
Treatment F						7.351	16.856	51.419	33.747
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date						Jun-18-24	Jun-18-24	Jul-1-24	Jul-1-24
Rating Type						CONTROL	CONTROL	CHLOROSIS	CHLOROSIS
Rating Unit						%	%	%	%
Rating Min/Max/Interval						0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Name								Soybean	Soybean
Crop Variety								BOLT	STS
Pest Code						MOLVE	RAPRA		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Appl Code	Appl Timing		
1	Untreated Check							21	22
2	Python 80 WG NIS	80 WG 100 SL		0.125 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		23	24
3	Python 80 WG NIS	80 WG 100 SL		0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS			
4	Python 80 WG NIS	80 WG 100 SL		0.6 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS			
5	FirstRate 84 WG NIS	84 WG 100 SL		0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS			
6	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL		0.125 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS			
7	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL		0.3 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS			
8	Classic 25 DF NIS	25 DF 100 SL		0.5 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS			
9	Python 80 WG Classic 25 DF NIS	80 WG 25 DF 100 SL		0.3 oz wt/a 0.5 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS			
10	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL .88 EC 100 D 100 SL		32 fl oz/a 8.4 fl oz/a 3 lb/a 1 % v/v	A A A A	POSPOS POSPOS POSPOS POSPOS			
11	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL		32 fl oz/a 3 lb/a 1 % v/v	A A A	POSPOS POSPOS POSPOS			
12	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL 0.88 EC 100 D 100 SL		43 fl oz/a 11.2 fl oz/a 3 lb/a 1 % v/v	A A A A	POSPOS POSPOS POSPOS POSPOS			
13	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL		43 fl oz/a 3 lb/a 1 % v/v	A A A	POSPOS POSPOS POSPOS			

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date						Jun-18-24	Jun-18-24	Jul-1-24	Jul-1-24
Rating Type						CONTROL	CONTROL	CHLOROSIS	CHLOROSIS
Rating Unit						%	%	%	%
Rating Min/Max/Interval						0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Name								Soybean	Soybean
Crop Variety								BOLT	STS
Pest Code						MOLVE	RAPRA		
Trt Treatment	Form	Form	Rate	Appl	Appl	21	22	23	24
No. Name	Conc	Type	Unit	Code	Timing				
14 Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	98.0 a	99.0 a	0.0 na	0.0 na
Zalo 2.52 SL	2.52 SL		32 fl oz/a	A	POSPOS				
AMS 100 D	100 D		3 lb/a	A	POSPOS				
Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS				
LSD P=.10						19.78	0.64	.	.
Standard Deviation						16.61	0.53	0.00	0.00
CV						36.83	0.58	0.0	0.0
Grand Mean						45.09	91.71	0.00	0.00
Bartlett's X2^						23.831*	82.515*	.	.
P(Bartlett's X2)						0.033*	0.00*	.	.
Replicate F						1.953	1.000	NaN	NaN
Replicate Prob(F)						0.1371	0.4031	NaN	NaN
Treatment F						25.423	9764.308	NaN	NaN
Treatment Prob(F)						0.0001	0.0001	NaN	NaN

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date Rating Type Rating Unit Rating Min/Max/Interval Crop Name Crop Variety Pest Code							Jul-1-24 CHLOROSIS % 0, 100, - Soybean NON BOLT OR STS	Jul-1-24 CONTROL % 0, 100, - AMAPA	Jul-1-24 CONTROL % 0, 100, - AMBEL	Jul-1-24 CONTROL % 0, 100, - SIDSP
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Appl Code Appl Timing	25	26	27	28
1	Untreated Check						0.0 -	0.0 e	0.0 e	0.0 e
2	Python 80 WG NIS	80 WG 100 SL	0.125 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		0.0 -	13.8 d	25.0 d	86.3 abc
3	Python 80 WG NIS	80 WG 100 SL	0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		0.0 -	7.5 de	42.5 c	95.0 a
4	Python 80 WG NIS	80 WG 100 SL	0.6 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		0.0 -	7.5 de	43.8 c	95.0 a
5	FirstRate 84 WG NIS	84 WG 100 SL	0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		0.0 -	0.0 e	98.0 a	12.5 e
6	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL	0.125 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		0.0 -	5.0 de	93.5 a	88.8 abc
7	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL	0.3 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		0.0 -	17.5 d	97.0 a	88.8 abc
8	Classic 25 DF NIS	25 DF 100 SL	0.5 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS		0.0 -	0.0 e	68.5 b	0.0 e
9	Python 80 WG Classic 25 DF NIS	80 WG 25 DF 100 SL	0.3 oz wt/a 0.5 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS		0.0 -	12.5 de	61.3 b	92.5 ab
10	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL .88 EC 100 D 100 SL	32 fl oz/a 8.4 fl oz/a 3 lb/a 1 % v/v	A A A A	POSPOS POSPOS POSPOS POSPOS		0.0 -	90.0 a	96.0 a	78.8 bcd
11	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL	32 fl oz/a 3 lb/a 1 % v/v	A A A	POSPOS POSPOS POSPOS		2.5 -	80.0 ab	94.8 a	66.3 d
12	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL 0.88 EC 100 D 100 SL	43 fl oz/a 11.2 fl oz/a 3 lb/a 1 % v/v	A A A A	POSPOS POSPOS POSPOS POSPOS		0.0 -	61.3 c	99.0 a	80.0 bcd
13	Zalo 2.52 SL AMS 100 D Crop Oil Concentrate	2.52 SL 100 D 100 SL	43 fl oz/a 3 lb/a 1 % v/v	A A A	POSPOS POSPOS POSPOS		0.0 -	70.0 bc	98.0 a	77.5 cd

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date							Jul-1-24	Jul-1-24	Jul-1-24	Jul-1-24	
Rating Type							CHLOROSIS	CONTROL	CONTROL	CONTROL	
Rating Unit							%	%	%	%	
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -	0, 100, -	
Crop Name							Soybean				
Crop Variety							NON BOLT OR STS				
Pest Code								AMAPA	AMBEL	SIDSP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Appl Code	Appl Timing	25	26	27	28
14	Python 80 WG	80	WG	0.3	oz wt/a	A	POSPOS	0.0 -	78.8 ab	97.0 a	92.5 ab
	Zalo 2.52 SL	2.52	SL	32	fl oz/a	A	POSPOS				
	AMS 100 D	100	D	3	lb/a	A	POSPOS				
	Crop Oil Concentrate	100	SL	1	% v/v	A	POSPOS				
LSD P=.10							1.59	13.72	12.62	14.07	
Standard Deviation							1.34	11.51	10.60	11.81	
CV							748.33	36.32	14.63	17.34	
Grand Mean							0.18	31.70	72.45	68.13	
Bartlett's X2^							82.515*	16.981	31.844*	26.366*	
P(Bartlett's X2)							0.00*	0.20	0.003*	0.015*	
Replicate F							1.000	10.782	1.650	1.198	
Replicate Prob(F)							0.4031	0.0001	0.1935	0.3234	
Treatment F							1.000	37.322	38.562	36.455	
Treatment Prob(F)							0.4697	0.0001	0.0001	0.0001	

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

Missing data estimates are included in columns: Average=1,3,5,9,12,13,14,20

Could not calculate LSD (% mean diff) or mean separation letters for columns 15,23,24 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

University of Georgia

Establishing a Python rate for Sida species control in Soybean production	
Trial ID: 24HC136USGA02	
Protocol ID: 24HC136US	Location: Trial Year: 2023
Project ID: 136	
Study Director: Gary Cundiff, Ph.D.	Sponsor Contact: Conducted Under GEP: No
Investigator: Gary Cundiff, Ph.D.	Trial Origin: P public institution trial
<u>Rating Unit</u>	
%, 0, 100, = percent	
<u>Pest Code</u>	
AMAPA, Amaranthus palmeri, Palmer amaranth = US	
AMBEL, Ambrosia artemisiifolia, Common ragweed = US	
SIDSP, Sida spinosa, Prickly sida = US	
RAPRA, Raphanus raphanistrum, Wild radish = US	
MOLVE, Mollugo verticillata, carpetweed = US	

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date								Jun-10-24	Jun-10-24	Jun-10-24	Jun-10-24
Rating Type								STUNTING	CHLOROSIS	STUNTING	CHLOROSIS
Rating Unit								%	%	%	%
Rating Min/Max/Interval								0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Name								Soybean	Soybean	Soybean	Soybean
Crop Variety								BOLT	BOLT	STS	STS
Pest Code											
Trt	Treatment	Form	Form	Rate	Appl	Appl	Plot	1	2	3	4
No.	Name	Conc	Type	Rate	Unit	Code	Timing				
1	Untreated Check						101	0.0	0.0	0.0	0.0
							206	0.0	0.0	0.0	0.0
							303	0.0	0.0	0.0	0.0
							407	0.0	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0	0.0
2	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	102	0.0	0.0	0.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	205	0.0	0.0	0.0	0.0
							311	0.0	0.0	0.0	0.0
							402	5.0	0.0	5.0	0.0
							Mean =	1.3	0.0	1.3	0.0
3	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	103	0.0	0.0	0.0	5.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	213	5.0	0.0	5.0	5.0
							304	5.0	0.0	5.0	5.0
							409	15.0	0.0	15.0	5.0
							Mean =	6.3	0.0	6.3	5.0
4	Python 80 WG	80 WG		0.6 oz wt/a	A	POSPOS	104	0.0	0.0	0.0	5.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	209	10.0	0.0	10.0	10.0
							310	15.0	0.0	15.0	5.0
							406	5.0	0.0	5.0	10.0
							Mean =	7.5	0.0	7.5	7.5
5	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	105	10.0	0.0	10.0	5.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	207	.	0.0	.	5.0
							309	10.0	0.0	10.0	0.0
							413	20.0	0.0	20.0	0.0
							Mean =	13.3	0.0	13.3	2.5
6	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	106	20.0	0.0	20.0	0.0
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	211	0.0	0.0	0.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	302	5.0	0.0	5.0	5.0
							403	10.0	0.0	10.0	0.0
							Mean =	8.8	0.0	8.8	1.3
7	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	107	10.0	0.0	10.0	5.0
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	210	0.0	0.0	0.0	5.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	308	10.0	5.0	10.0	5.0
							410	15.0	0.0	15.0	5.0
							Mean =	8.8	1.3	8.8	5.0
8	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS	108	0.0	0.0	0.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	212	0.0	0.0	0.0	0.0
							307	0.0	0.0	0.0	10.0
							414	0.0	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0	2.5
9	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	109	5.0	0.0	5.0	0.0
	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS	201	15.0	0.0	15.0	5.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	314	.	0.0	.	10.0
							408	10.0	0.0	10.0	5.0
							Mean =	10.0	0.0	10.0	5.0
10	Liberty 280 SL	280 SL		32 fl oz/a	A	POSPOS	110	0.0	0.0	0.0	0.0
	Assure II 0.88 EC	.88 EC		8.4 fl oz/a	A	POSPOS	204	10.0	0.0	10.0	0.0
	AMS 100 D	100 D		3 lb/a	A	POSPOS	312	5.0	0.0	5.0	0.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS	401	15.0	5.0	15.0	5.0
							Mean =	7.5	1.3	7.5	1.3

University of Georgia

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Project ID: 136

Study Director: Gary Cundiff, Ph.D.

Investigator: Gary Cundiff, Ph.D.

Location:

Trial Year: 2023

Sponsor Contact:

Trial Origin: P public institution trial

Establishing a Python rate for Sida species control in Soybean production

Conducted Under GEP: No

Rating Date								Jun-10-24	Jun-10-24	Jun-10-24	Jun-10-24	
Rating Type								STUNTING	CHLOROSIS	STUNTING	CHLOROSIS	
Rating Unit								%	%	%	%	
Rating Min/Max/Interval								0, 100, -	0, 100, -	0, 100, -	0, 100, -	
Crop Name								Soybean	Soybean	Soybean	Soybean	
Crop Variety								BOLT	BOLT	STS	STS	
Pest Code												
Trt	Treatment	Form	Form	Rate	Appl	Appl						
No.	Name	Conc	Type	Rate	Unit	Code	Timing	Plot	1	2	3	4
11	Zalo 2.52 SL	2.52	SL	32 fl oz/a	A	POSPOS	111		5.0	0.0	5.0	0.0
	AMS 100 D	100	D	3 lb/a	A	POSPOS	203		5.0	0.0	5.0	0.0
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS	305		5.0	0.0	10.0	0.0
							412		0.0	0.0	0.0	0.0
							Mean =		3.8	0.0	5.0	0.0
12	Liberty 280 SL	280	SL	43 fl oz/a	A	POSPOS	112		5.0	0.0	5.0	0.0
	Assure II 0.88 EC	0.88	EC	11.2 fl oz/a	A	POSPOS	214		.	0.0	.	0.0
	AMS 100 D	100	D	3 lb/a	A	POSPOS	313		5.0	0.0	5.0	0.0
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS	411		5.0	0.0	5.0	0.0
							Mean =		5.0	0.0	5.0	0.0
13	Zalo 2.52 SL	2.52	SL	43 fl oz/a	A	POSPOS	113		.	0.0	.	0.0
	AMS 100 D	100	D	3 lb/a	A	POSPOS	208		5.0	0.0	0.0	0.0
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS	306		5.0	5.0	5.0	0.0
							404		0.0	0.0	0.0	0.0
							Mean =		3.3	1.3	1.7	0.0
14	Python 80 WG	80	WG	0.3 oz wt/a	A	POSPOS	114		.	0.0	.	5.0
	Zalo 2.52 SL	2.52	SL	32 fl oz/a	A	POSPOS	202		10.0	0.0	10.0	5.0
	AMS 100 D	100	D	3 lb/a	A	POSPOS	301		5.0	0.0	5.0	5.0
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS	405		10.0	0.0	10.0	5.0
							Mean =		8.3	0.0	8.3	5.0

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date								Jun-10-24	Jun-10-24	Jun-10-24
Rating Type								STUNTING	CHLOROSIS	CONTROL
Rating Unit								%	%	%
Rating Min/Max/Interval								0, 100, -	0, 100, -	0, 100, -
Crop Name								Soybean	Soybean	
Crop Variety								NO BOLT OR STS	NO BOLT OR STS	
Pest Code										AMAPA
Trt	Treatment	Form	Form	Rate	Appl	Appl	Plot	5	6	7
No.	Name	Conc	Type	Rate	Unit	Code	Timing			
1	Untreated Check									
							101	0.0	0.0	0.0
							206	0.0	0.0	0.0
							303	0.0	0.0	0.0
							407	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0
2	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	102	0.0	5.0	20.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	205	0.0	5.0	20.0
							311	0.0	5.0	0.0
							402	5.0	5.0	20.0
							Mean =	1.3	5.0	15.0
3	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	103	0.0	15.0	20.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	213	10.0	10.0	20.0
							304	5.0	20.0	10.0
							409	15.0	15.0	20.0
							Mean =	7.5	15.0	17.5
4	Python 80 WG	80 WG		0.6 oz wt/a	A	POSPOS	104	10.0	30.0	20.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	209	10.0	30.0	20.0
							310	15.0	30.0	20.0
							406	20.0	30.0	20.0
							Mean =	13.8	30.0	20.0
5	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	105	10.0	5.0	20.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	207	.	10.0	0.0
							309	10.0	0.0	0.0
							413	20.0	5.0	20.0
							Mean =	13.3	5.0	10.0
6	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	106	20.0	5.0	0.0
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	211	0.0	5.0	20.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	302	5.0	5.0	20.0
							403	10.0	10.0	20.0
							Mean =	8.8	6.3	15.0
7	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	107	15.0	15.0	20.0
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	210	0.0	10.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	308	10.0	10.0	20.0
							410	15.0	10.0	20.0
							Mean =	10.0	11.3	15.0
8	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS	108	0.0	0.0	20.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	212	0.0	10.0	20.0
							307	0.0	20.0	0.0
							414	0.0	10.0	0.0
							Mean =	0.0	10.0	10.0
9	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	109	5.0	15.0	20.0
	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS	201	15.0	20.0	20.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	314	.	30.0	20.0
							408	10.0	20.0	20.0
							Mean =	10.0	21.3	20.0
10	Liberty 280 SL	280 SL		32 fl oz/a	A	POSPOS	110	0.0	0.0	95.0
	Assure II 0.88 EC	.88 EC		8.4 fl oz/a	A	POSPOS	204	10.0	0.0	99.0
	AMS 100 D	100 D		3 lb/a	A	POSPOS	312	0.0	0.0	99.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS	401	0.0	5.0	95.0
							Mean =	2.5	1.3	97.0

Establishing a Python rate for Sida species control in Soybean production									
Trial ID: 24HC136USGA02									
Protocol ID: 24HC136US		Location:		Trial Year: 2023					
Project ID: 136									
Study Director: Gary Cundiff, Ph.D.		Sponsor Contact:		Conducted Under GEP: No					
Investigator: Gary Cundiff, Ph.D.		Trial Origin: P		public institution trial					
Rating Date							Jun-10-24	Jun-10-24	Jun-10-24
Rating Type							STUNTING	CHLOROSIS	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Crop Name							Soybean	Soybean	
Crop Variety							NO BOLT OR STS	NO BOLT OR STS	
Pest Code									AMAPA
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Code	Appl Timing Plot	5	6	7
11	Zalo 2.52 SL	2.52	SL	32 fl oz/a	A	POSPOS 111	5.0	0.0	95.0
	AMS 100 D	100	D	3 lb/a	A	POSPOS 203	5.0	0.0	99.0
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS 305	0.0	0.0	95.0
						412	0.0	25.0	95.0
						Mean =	2.5	6.3	96.0
12	Liberty 280 SL	280	SL	43 fl oz/a	A	POSPOS 112	5.0	0.0	99.0
	Assure II 0.88 EC	0.88	EC	11.2 fl oz/a	A	POSPOS 214	.	5.0	95.0
	AMS 100 D	100	D	3 lb/a	A	POSPOS 313	0.0	0.0	95.0
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS 411	5.0	5.0	95.0
						Mean =	3.3	2.5	96.0
13	Zalo 2.52 SL	2.52	SL	43 fl oz/a	A	POSPOS 113	.	5.0	95.0
	AMS 100 D	100	D	3 lb/a	A	POSPOS 208	0.0	0.0	99.0
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS 306	5.0	0.0	95.0
						404	5.0	0.0	95.0
						Mean =	3.3	1.3	96.0
14	Python 80 WG	80	WG	0.3 oz wt/a	A	POSPOS 114	.	30.0	95.0
	Zalo 2.52 SL	2.52	SL	32 fl oz/a	A	POSPOS 202	10.0	40.0	95.0
	AMS 100 D	100	D	3 lb/a	A	POSPOS 301	15.0	30.0	99.0
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS 405	15.0	30.0	95.0
						Mean =	13.3	32.5	96.0

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date Rating Type Rating Unit Rating Min/Max/Interval Crop Name Crop Variety Pest Code								Jun-10-24 CONTROL % 0, 100, - AMBEL	Jun-10-24 CONTROL % 0, 100, - SIDSP	Jun-10-24 CONTROL % 0, 100, - RAPRA	Jun-10-24 CONTROL % 0, 100, - MOLVE	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Appl Code	Appl Timing	Plot	8	9	10	11
1	Untreated Check							101 206 303 407 Mean =	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
2	Python 80 WG NIS	80 WG 100 SL		0.125 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS	102 205	102 205 311 402 Mean =	20.0 20.0 10.0 0.0 12.5	20.0 20.0 10.0 20.0 17.5	85.0 95.0 95.0 95.0 92.5	0.0 0.0 0.0 0.0 0.0
3	Python 80 WG NIS	80 WG 100 SL		0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS	103 213	103 213 304 409 Mean =	20.0 20.0 20.0 20.0 20.0	20.0 20.0 20.0 20.0 20.0	95.0 95.0 95.0 95.0 95.0	0.0 0.0 0.0 0.0 0.0
4	Python 80 WG NIS	80 WG 100 SL		0.6 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS	104 209	104 209 310 406 Mean =	20.0 20.0 20.0 20.0 20.0	20.0 20.0 20.0 20.0 20.0	95.0 95.0 95.0 95.0 95.0	0.0 0.0 0.0 0.0 0.0
5	FirstRate 84 WG NIS	84 WG 100 SL		0.3 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS	105 207	105 207 309 413 Mean =	50.0 50.0 20.0 20.0 35.0	20.0 20.0 20.0 20.0 20.0	95.0 95.0 95.0 95.0 95.0	0.0 0.0 0.0 0.0 0.0
6	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL		0.125 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS	106 211 302	106 211 302 403 Mean =	50.0 50.0 40.0 30.0 42.5	20.0 20.0 20.0 20.0 20.0	95.0 95.0 95.0 95.0 95.0	0.0 0.0 0.0 0.0 0.0
7	Python 80 WG FirstRate 84 WG NIS	80 WG 84 WG 100 SL		0.3 oz wt/a 0.3 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS	107 210 308	107 210 308 410 Mean =	50.0 30.0 30.0 30.0 35.0	20.0 20.0 20.0 20.0 20.0	95.0 95.0 95.0 95.0 95.0	0.0 0.0 0.0 0.0 0.0
8	Classic 25 DF NIS	25 DF 100 SL		0.5 oz wt/a 0.25 % v/v	A A	POSPOS POSPOS	108 212	108 212 307 414 Mean =	30.0 50.0 50.0 20.0 37.5	0.0 20.0 10.0 . . 10.0	95.0 95.0 95.0 99.0 96.0	0.0 0.0 0.0 0.0 0.0
9	Python 80 WG Classic 25 DF NIS	80 WG 25 DF 100 SL		0.3 oz wt/a 0.5 oz wt/a 0.25 % v/v	A A A	POSPOS POSPOS POSPOS	109 201 314	109 201 314 408 Mean =	50.0 50.0 20.0 30.0 37.5	20.0 20.0 20.0 20.0 20.0	95.0 95.0 95.0 95.0 95.0	0.0 0.0 0.0 0.0 0.0
10	Liberty 280 SL Assure II 0.88 EC AMS 100 D Crop Oil Concentrate	280 SL .88 EC 100 D 100 SL		32 fl oz/a 8.4 fl oz/a 3 lb/a 1 % v/v	A A A A	POSPOS POSPOS POSPOS POSPOS	110 204 312 401	110 204 312 401 Mean =	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	99.0 99.0 95.0 99.0 98.0	99.0 99.0 99.0 99.0 99.0

University of Georgia

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Project ID: 136

Study Director: Gary Cundiff, Ph.D.

Investigator: Gary Cundiff, Ph.D.

Location:

Trial Year: 2023

Sponsor Contact:

Trial Origin: P public institution trial

Establishing a Python rate for Sida species control in Soybean production

Conducted Under GEP: No

Rating Date								Jun-10-24	Jun-10-24	Jun-10-24	Jun-10-24	
Rating Type								CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit								%	%	%	%	
Rating Min/Max/Interval								0, 100, -	0, 100, -	0, 100, -	0, 100, -	
Crop Name												
Crop Variety												
Pest Code								AMBEL	SIDSP	RAPRA	MOLVE	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Rate	Appl Code	Appl Timing	Plot	8	9	10	11
11	Zalo 2.52 SL	2.52 SL			32 fl oz/a	A	POSPOS 111		99.0	99.0	99.0	99.0
	AMS 100 D	100 D			3 lb/a	A	POSPOS 203		99.0	99.0	95.0	99.0
	Crop Oil Concentrate	100 SL			1 % v/v	A	POSPOS 305		99.0	66.0	95.0	99.0
							412		95.0	95.0	95.0	95.0
							Mean =		98.0	89.8	96.0	98.0
12	Liberty 280 SL	280 SL			43 fl oz/a	A	POSPOS 112		99.0	99.0	99.0	99.0
	Assure II 0.88 EC	0.88 EC			11.2 fl oz/a	A	POSPOS 214		99.0	99.0	95.0	99.0
	AMS 100 D	100 D			3 lb/a	A	POSPOS 313		99.0	99.0	95.0	99.0
	Crop Oil Concentrate	100 SL			1 % v/v	A	POSPOS 411		95.0	95.0	95.0	95.0
							Mean =		98.0	98.0	96.0	98.0
13	Zalo 2.52 SL	2.52 SL			43 fl oz/a	A	POSPOS 113		99.0	99.0	99.0	99.0
	AMS 100 D	100 D			3 lb/a	A	POSPOS 208		99.0	99.0	99.0	99.0
	Crop Oil Concentrate	100 SL			1 % v/v	A	POSPOS 306		99.0	99.0	95.0	99.0
							404		95.0	95.0	95.0	95.0
							Mean =		98.0	98.0	97.0	98.0
14	Python 80 WG	80 WG			0.3 oz wt/a	A	POSPOS 114		95.0	99.0	75.0	99.0
	Zalo 2.52 SL	2.52 SL			32 fl oz/a	A	POSPOS 202		99.0	99.0	95.0	99.0
	AMS 100 D	100 D			3 lb/a	A	POSPOS 301		95.0	99.0	99.0	99.0
	Crop Oil Concentrate	100 SL			1 % v/v	A	POSPOS 405		95.0	95.0	95.0	95.0
							Mean =		96.0	98.0	91.0	98.0

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date								Jun-18-24	Jun-18-24	Jun-18-24
Rating Type								STUNTING	STUNTING	STUNTING
Rating Unit								%	%	%
Rating Min/Max/Interval								0, 100, -	0, 100, -	0, 100, -
Crop Name								SOYBEAN	SOYBEAN	SOYBEAN
Crop Variety								BOLT	STS	NON BOLT OR STS
Pest Code										
Trt	Treatment	Form	Form	Rate	Appl	Appl	Plot	12	13	14
No.	Name	Conc	Type	Rate	Unit	Code	Timing			
1	Untreated Check						101	0.0	0.0	0.0
							206	0.0	0.0	0.0
							303	0.0	0.0	0.0
							407	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0
2	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	102	10.0	0.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	205	10.0	5.0	5.0
							311	5.0	15.0	0.0
							402	15.0	10.0	15.0
							Mean =	10.0	7.5	5.0
3	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	103	5.0	5.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	213	10.0	10.0	10.0
							304	0.0	15.0	5.0
							409	20.0	20.0	20.0
							Mean =	8.8	12.5	8.8
4	Python 80 WG	80 WG		0.6 oz wt/a	A	POSPOS	104	0.0	5.0	15.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	209	10.0	15.0	20.0
							310	15.0	20.0	10.0
							406	15.0	15.0	20.0
							Mean =	10.0	13.8	16.3
5	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	105	10.0	15.0	20.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	207	.	.	.
							309	15.0	20.0	5.0
							413	10.0	15.0	10.0
							Mean =	11.7	16.7	11.7
6	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	106	25.0	25.0	25.0
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	211	10.0	5.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	302	5.0	5.0	5.0
							403	15.0	15.0	15.0
							Mean =	13.8	12.5	11.3
7	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	107	.	.	.
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	210	10.0	10.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	308	15.0	15.0	15.0
							410	20.0	20.0	20.0
							Mean =	15.0	15.0	11.7
8	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS	108	15.0	5.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	212	10.0	10.0	10.0
							307	.	.	.
							414	.	.	.
							Mean =	12.5	7.5	5.0
9	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	109	15.0	10.0	10.0
	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS	201	20.0	10.0	10.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	314	.	.	.
							408	15.0	15.0	20.0
							Mean =	16.7	11.7	13.3
10	Liberty 280 SL	280 SL		32 fl oz/a	A	POSPOS	110	0.0	0.0	0.0
	Assure II 0.88 EC	.88 EC		8.4 fl oz/a	A	POSPOS	204	0.0	0.0	0.0
	AMS 100 D	100 D		3 lb/a	A	POSPOS	312	10.0	10.0	0.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS	401	10.0	10.0	0.0
							Mean =	5.0	5.0	0.0

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date								Jun-18-24	Jun-18-24	Jun-18-24
Rating Type								STUNTING	STUNTING	STUNTING
Rating Unit								%	%	%
Rating Min/Max/Interval								0, 100, -	0, 100, -	0, 100, -
Crop Name								SOYBEAN	SOYBEAN	SOYBEAN
Crop Variety								BOLT	STS	NON BOLT OR STS
Pest Code										
Trt	Treatment	Form	Form	Rate	Appl	Appl				
No.	Name	Conc	Type	Rate	Unit	Code	Timing	Plot		
								12	13	14
11	Zalo 2.52 SL	2.52 SL		32 fl oz/a	A	POSPOS	111	0.0	0.0	0.0
	AMS 100 D	100 D		3 lb/a	A	POSPOS	203	10.0	5.0	5.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS	305	5.0	10.0	5.0
							412	10.0	5.0	20.0
							Mean =	6.3	5.0	7.5
12	Liberty 280 SL	280 SL		43 fl oz/a	A	POSPOS	112	10.0	5.0	0.0
	Assure II 0.88 EC	0.88 EC		11.2 fl oz/a	A	POSPOS	214	.	.	.
	AMS 100 D	100 D		3 lb/a	A	POSPOS	313	5.0	5.0	5.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS	411	10.0	15.0	5.0
							Mean =	8.3	8.3	3.3
13	Zalo 2.52 SL	2.52 SL		43 fl oz/a	A	POSPOS	113	15.0	15.0	20.0
	AMS 100 D	100 D		3 lb/a	A	POSPOS	208	5.0	5.0	0.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS	306	5.0	5.0	5.0
							404	0.0	5.0	0.0
							Mean =	6.3	7.5	6.3
14	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	114	.	.	.
	Zalo 2.52 SL	2.52 SL		32 fl oz/a	A	POSPOS	202	5.0	5.0	10.0
	AMS 100 D	100 D		3 lb/a	A	POSPOS	301	10.0	10.0	15.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS	405	5.0	5.0	5.0
							Mean =	6.7	6.7	10.0

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date								Jun-18-24	Jun-18-24	Jun-18-24	Jun-18-24
Rating Type								CHLOROSIS	CHLOROSIS	CHLOROSIS	CONTROL
Rating Unit								%	%	%	%
Rating Min/Max/Interval								0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Name								SOYBEAN	SOYBEAN	SOYBEAN	
Crop Variety								BOLT	STS	NO BOLT OR STS	
Pest Code											AMAPA
Trt	Treatment	Form	Form	Rate	Appl	Appl	Plot	15	16	17	18
No.	Name	Conc	Type	Rate	Unit	Code	Timing				
1	Untreated Check										
							101	0.0	0.0	0.0	0.0
							206	0.0	0.0	0.0	0.0
							303	0.0	0.0	0.0	0.0
							407	0.0	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0	0.0
2	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	102	0.0	15.0	0.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	205	0.0	15.0	5.0	0.0
							311	0.0	10.0	0.0	30.0
							402	0.0	10.0	5.0	50.0
							Mean =	0.0	12.5	2.5	20.0
3	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	103	0.0	0.0	10.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	213	0.0	10.0	10.0	0.0
							304	0.0	10.0	10.0	0.0
							409	0.0	15.0	15.0	50.0
							Mean =	0.0	8.8	11.3	12.5
4	Python 80 WG	80 WG		0.6 oz wt/a	A	POSPOS	104	0.0	10.0	15.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	209	0.0	10.0	15.0	0.0
							310	0.0	20.0	15.0	0.0
							406	0.0	10.0	15.0	50.0
							Mean =	0.0	12.5	15.0	12.5
5	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	105	0.0	0.0	10.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	207	0.0	0.0	0.0	0.0
							309	0.0	10.0	5.0	0.0
							413	0.0	0.0	0.0	0.0
							Mean =	0.0	2.5	3.8	0.0
6	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	106	0.0	5.0	10.0	0.0
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	211	0.0	10.0	5.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	302	0.0	5.0	5.0	0.0
							403	0.0	5.0	5.0	50.0
							Mean =	0.0	6.3	6.3	12.5
7	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	107	0.0	5.0	5.0	0.0
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	210	0.0	5.0	5.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	308	0.0	10.0	5.0	50.0
							410	0.0	15.0	15.0	50.0
							Mean =	0.0	8.8	7.5	25.0
8	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS	108	0.0	15.0	5.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	212	0.0	15.0	5.0	0.0
							307	0.0	0.0	0.0	0.0
							414	0.0	0.0	0.0	0.0
							Mean =	0.0	7.5	2.5	0.0
9	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	109	0.0	20.0	15.0	0.0
	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS	201	0.0	15.0	15.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	314	0.0	0.0	5.0	0.0
							408	0.0	10.0	15.0	65.0
							Mean =	0.0	11.3	12.5	16.3
10	Liberty 280 SL	280 SL		32 fl oz/a	A	POSPOS	110	0.0	5.0	5.0	95.0
	Assure II 0.88 EC	.88 EC		8.4 fl oz/a	A	POSPOS	204	0.0	5.0	5.0	85.0
	AMS 100 D	100 D		3 lb/a	A	POSPOS	312	0.0	0.0	0.0	70.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS	401	0.0	0.0	0.0	80.0
							Mean =	0.0	2.5	2.5	82.5

University of Georgia

Establishing a Python rate for Sida species control in Soybean production											
Trial ID: 24HC136USGA02											
Protocol ID: 24HC136US			Location:		Trial Year: 2023						
Project ID: 136											
Study Director: Gary Cundiff, Ph.D.			Sponsor Contact:			Conducted Under GEP: No					
Investigator: Gary Cundiff, Ph.D.			Trial Origin: P public institution trial								
Rating Date								Jun-18-24	Jun-18-24	Jun-18-24	Jun-18-24
Rating Type								CHLOROSIS	CHLOROSIS	CHLOROSIS	CONTROL
Rating Unit								%	%	%	%
Rating Min/Max/Interval								0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Name								SOYBEAN	SOYBEAN	SOYBEAN	
Crop Variety								BOLT	STS	NO BOLT OR STS	
Pest Code											AMAPA
Trt	Treatment	Form	Form	Rate	Appl	Appl					
No.	Name	Conc	Type	Rate	Unit	Code	Timing	Plot	15	16	
11	Zalo 2.52 SL	2.52	SL	32 fl oz/a	A	POSPOS	111		0.0	0.0	
	AMS 100 D	100	D	3 lb/a	A	POSPOS	203		0.0	5.0	
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS	305		0.0	0.0	
							412		0.0	15.0	
							Mean =		0.0	1.3	
12	Liberty 280 SL	280	SL	43 fl oz/a	A	POSPOS	112		0.0	5.0	
	Assure II 0.88 EC	0.88	EC	11.2 fl oz/a	A	POSPOS	214		0.0	0.0	
	AMS 100 D	100	D	3 lb/a	A	POSPOS	313		0.0	5.0	
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS	411		0.0	5.0	
							Mean =		0.0	2.5	
13	Zalo 2.52 SL	2.52	SL	43 fl oz/a	A	POSPOS	113		0.0	5.0	
	AMS 100 D	100	D	3 lb/a	A	POSPOS	208		0.0	0.0	
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS	306		0.0	5.0	
							404		0.0	0.0	
							Mean =		0.0	2.5	
14	Python 80 WG	80	WG	0.3 oz wt/a	A	POSPOS	114		0.0	5.0	
	Zalo 2.52 SL	2.52	SL	32 fl oz/a	A	POSPOS	202		0.0	5.0	
	AMS 100 D	100	D	3 lb/a	A	POSPOS	301		0.0	10.0	
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS	405		0.0	10.0	
							Mean =		0.0	7.5	

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date									Jun-18-24	Jun-18-24	Jun-18-24	Jun-18-24
Rating Type									CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit									%	%	%	%
Rating Min/Max/Interval									0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Name												
Crop Variety												
Pest Code									AMBEL	SIDSP	MOLVE	RAPRA
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Appl Code	Appl Timing	Plot	19	20	21	22
1	Untreated Check							101	0.0	0.0	0.0	0.0
								206	0.0	0.0	0.0	0.0
								303	0.0	0.0	0.0	0.0
								407	0.0	.	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0
2	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	102	102	50.0	75.0	0.0	99.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	205	205	50.0	60.0	30.0	99.0
							311	311	50.0	85.0	0.0	99.0
							402	402	30.0	85.0	50.0	99.0
								Mean =	45.0	76.3	20.0	99.0
3	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	103	103	60.0	90.0	0.0	99.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	213	213	50.0	65.0	0.0	99.0
							304	304	65.0	85.0	0.0	99.0
							409	409	50.0	85.0	0.0	99.0
								Mean =	56.3	81.3	0.0	99.0
4	Python 80 WG	80 WG		0.6 oz wt/a	A	POSPOS	104	104	65.0	95.0	0.0	99.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	209	209	50.0	85.0	40.0	99.0
							310	310	60.0	90.0	0.0	99.0
							406	406	60.0	85.0	0.0	99.0
								Mean =	58.8	88.8	10.0	99.0
5	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	105	105	85.0	65.0	0.0	99.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	207	207	85.0	40.0	65.0	99.0
							309	309	85.0	50.0	0.0	99.0
							413	413	95.0	30.0	0.0	99.0
								Mean =	87.5	46.3	16.3	99.0
6	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	106	106	85.0	85.0	0.0	99.0
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	211	211	95.0	65.0	30.0	99.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	302	302	85.0	75.0	50.0	99.0
							403	403	90.0	65.0	20.0	99.0
								Mean =	88.8	72.5	25.0	99.0
7	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	107	107	85.0	80.0	0.0	99.0
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	210	210	95.0	65.0	50.0	99.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	308	308	75.0	85.0	30.0	99.0
							410	410	85.0	85.0	20.0	99.0
								Mean =	85.0	78.8	25.0	99.0
8	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS	108	108	65.0	0.0	50.0	99.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	212	212	75.0	50.0	0.0	99.0
							307	307	90.0	20.0	0.0	99.0
							414	414	95.0	.	0.0	99.0
								Mean =	81.3	23.3	12.5	99.0
9	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	109	109	85.0	75.0	0.0	99.0
	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS	201	201	60.0	85.0	50.0	99.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	314	314	95.0	65.0	50.0	99.0
							408	408	60.0	85.0	30.0	99.0
								Mean =	75.0	77.5	32.5	99.0
10	Liberty 280 SL	280 SL		32 fl oz/a	A	POSPOS	110	110	99.0	85.0	99.0	99.0
	Assure II 0.88 EC	.88 EC		8.4 fl oz/a	A	POSPOS	204	204	99.0	99.0	99.0	99.0
	AMS 100 D	100 D		3 lb/a	A	POSPOS	312	312	99.0	95.0	99.0	99.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS	401	401	95.0	85.0	99.0	99.0
								Mean =	98.0	91.0	99.0	99.0

University of Georgia

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Project ID: 136

Study Director: Gary Cundiff, Ph.D.

Investigator: Gary Cundiff, Ph.D.

Location:

Trial Year: 2023

Sponsor Contact:

Trial Origin: P public institution trial

Establishing a Python rate for Sida species control in Soybean production

Conducted Under GEP: No

Rating Date								Jun-18-24	Jun-18-24	Jun-18-24	Jun-18-24
Rating Type								CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit								%	%	%	%
Rating Min/Max/Interval								0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Name											
Crop Variety											
Pest Code								AMBEL	SIDSP	MOLVE	RAPRA
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	Appl Timing	Plot	19	20	21	22
11	Zalo 2.52 SL	2.52 SL		32 fl oz/a	A	POSPOS 111		99.0	95.0	99.0	95.0
	AMS 100 D	100 D		3 lb/a	A	POSPOS 203		99.0	90.0	99.0	99.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS 305		95.0	90.0	95.0	95.0
						412		99.0	85.0	99.0	95.0
						Mean =		98.0	90.0	98.0	96.0
12	Liberty 280 SL	280 SL		43 fl oz/a	A	POSPOS 112		99.0	95.0	99.0	99.0
	Assure II 0.88 EC	0.88 EC		11.2 fl oz/a	A	POSPOS 214		99.0	90.0	95.0	99.0
	AMS 100 D	100 D		3 lb/a	A	POSPOS 313		99.0	95.0	99.0	99.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS 411		99.0	95.0	99.0	99.0
						Mean =		99.0	93.8	98.0	99.0
13	Zalo 2.52 SL	2.52 SL		43 fl oz/a	A	POSPOS 113		99.0	99.0	99.0	99.0
	AMS 100 D	100 D		3 lb/a	A	POSPOS 208		99.0	99.0	95.0	99.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS 306		99.0	95.0	95.0	99.0
						404		99.0	99.0	99.0	99.0
						Mean =		99.0	98.0	97.0	99.0
14	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS 114		95.0	95.0	99.0	99.0
	Zalo 2.52 SL	2.52 SL		32 fl oz/a	A	POSPOS 202		95.0	99.0	99.0	99.0
	AMS 100 D	100 D		3 lb/a	A	POSPOS 301		99.0	99.0	95.0	99.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS 405		99.0	99.0	99.0	99.0
						Mean =		97.0	98.0	98.0	99.0

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date								Jul-1-24	Jul-1-24	Jul-1-24
Rating Type								CHLOROSIS	CHLOROSIS	CHLOROSIS
Rating Unit								%	%	%
Rating Min/Max/Interval								0, 100, -	0, 100, -	0, 100, -
Crop Name								Soybean	Soybean	Soybean
Crop Variety								BOLT	STS	NON BOLT OR STS
Pest Code										
Trt	Treatment	Form	Form	Rate	Appl	Appl	Plot	23	24	25
No.	Name	Conc	Type	Rate	Unit	Code	Timing			
1	Untreated Check						101	0.0	0.0	0.0
							206	0.0	0.0	0.0
							303	0.0	0.0	0.0
							407	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0
2	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	102	0.0	0.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	205	0.0	0.0	0.0
							311	0.0	0.0	0.0
							402	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0
3	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	103	0.0	0.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	213	0.0	0.0	0.0
							304	0.0	0.0	0.0
							409	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0
4	Python 80 WG	80 WG		0.6 oz wt/a	A	POSPOS	104	0.0	0.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	209	0.0	0.0	0.0
							310	0.0	0.0	0.0
							406	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0
5	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	105	0.0	0.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	207	0.0	0.0	0.0
							309	0.0	0.0	0.0
							413	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0
6	Python 80 WG	80 WG		0.125 oz wt/a	A	POSPOS	106	0.0	0.0	0.0
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	211	0.0	0.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	302	0.0	0.0	0.0
							403	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0
7	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	107	0.0	0.0	0.0
	FirstRate 84 WG	84 WG		0.3 oz wt/a	A	POSPOS	210	0.0	0.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	308	0.0	0.0	0.0
							410	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0
8	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS	108	0.0	0.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	212	0.0	0.0	0.0
							307	0.0	0.0	0.0
							414	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0
9	Python 80 WG	80 WG		0.3 oz wt/a	A	POSPOS	109	0.0	0.0	0.0
	Classic 25 DF	25 DF		0.5 oz wt/a	A	POSPOS	201	0.0	0.0	0.0
	NIS	100 SL		0.25 % v/v	A	POSPOS	314	0.0	0.0	0.0
							408	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0
10	Liberty 280 SL	280 SL		32 fl oz/a	A	POSPOS	110	0.0	0.0	0.0
	Assure II 0.88 EC	.88 EC		8.4 fl oz/a	A	POSPOS	204	0.0	0.0	0.0
	AMS 100 D	100 D		3 lb/a	A	POSPOS	312	0.0	0.0	0.0
	Crop Oil Concentrate	100 SL		1 % v/v	A	POSPOS	401	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0

University of Georgia

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Project ID: 136

Study Director: Gary Cundiff, Ph.D.

Investigator: Gary Cundiff, Ph.D.

Location:

Trial Year: 2023

Sponsor Contact:

Trial Origin: P public institution trial

Establishing a Python rate for Sida species control in Soybean production

Conducted Under GEP: No

Rating Date									Jul-1-24	Jul-1-24	Jul-1-24
Rating Type									CHLOROSIS	CHLOROSIS	CHLOROSIS
Rating Unit									%	%	%
Rating Min/Max/Interval									0, 100, -	0, 100, -	0, 100, -
Crop Name									Soybean	Soybean	Soybean
Crop Variety									BOLT	STS	NON BOLT OR STS
Pest Code											
Trt	Treatment	Form	Form	Rate	Appl	Appl			23	24	25
No.	Name	Conc	Type	Rate	Unit	Code	Timing	Plot			
11	Zalo 2.52 SL	2.52	SL	32 fl oz/a	A	POSPOS	111		0.0	0.0	0.0
	AMS 100 D	100	D	3 lb/a	A	POSPOS	203		0.0	0.0	0.0
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS	305		0.0	0.0	0.0
							412		0.0	0.0	10.0
							Mean =		0.0	0.0	2.5
12	Liberty 280 SL	280	SL	43 fl oz/a	A	POSPOS	112		0.0	0.0	0.0
	Assure II 0.88 EC	0.88	EC	11.2 fl oz/a	A	POSPOS	214		0.0	0.0	0.0
	AMS 100 D	100	D	3 lb/a	A	POSPOS	313		0.0	0.0	0.0
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS	411		0.0	0.0	0.0
							Mean =		0.0	0.0	0.0
13	Zalo 2.52 SL	2.52	SL	43 fl oz/a	A	POSPOS	113		0.0	0.0	0.0
	AMS 100 D	100	D	3 lb/a	A	POSPOS	208		0.0	0.0	0.0
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS	306		0.0	0.0	0.0
							404		0.0	0.0	0.0
							Mean =		0.0	0.0	0.0
14	Python 80 WG	80	WG	0.3 oz wt/a	A	POSPOS	114		0.0	0.0	0.0
	Zalo 2.52 SL	2.52	SL	32 fl oz/a	A	POSPOS	202		0.0	0.0	0.0
	AMS 100 D	100	D	3 lb/a	A	POSPOS	301		0.0	0.0	0.0
	Crop Oil Concentrate	100	SL	1 % v/v	A	POSPOS	405		0.0	0.0	0.0
							Mean =		0.0	0.0	0.0

University of Georgia

Establishing a Python rate for Sida species control in Soybean production

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Location: Trial Year: 2023

Project ID: 136

Study Director: Gary Cundiff, Ph.D. Sponsor Contact:

Conducted Under GEP: No

Investigator: Gary Cundiff, Ph.D. Trial Origin: P public institution trial

Rating Date							Jul-1-24 CONTROL	Jul-1-24 CONTROL	Jul-1-24 CONTROL
Rating Type							%	%	%
Rating Unit							0, 100, -	0, 100, -	0, 100, -
Rating Min/Max/Interval									
Crop Name							AMAPA	AMBEL	SIDSP
Crop Variety									
Pest Code									
Trt	Treatment	Form	Form	Rate	Appl	Appl			
No.	Name	Conc	Type	Rate	Unit	Code	Timing	Plot	
1	Untreated Check							26	27
								28	
								101	0.0
								206	0.0
								303	0.0
								407	0.0
								Mean =	0.0
2	Python 80 WG	80 WG	0.125 oz wt/a	A	POSPOS	102		0.0	30.0
	NIS	100 SL	0.25 % v/v	A	POSPOS	205		0.0	20.0
						311		15.0	50.0
						402		40.0	0.0
						Mean =		13.8	25.0
3	Python 80 WG	80 WG	0.3 oz wt/a	A	POSPOS	103		0.0	50.0
	NIS	100 SL	0.25 % v/v	A	POSPOS	213		0.0	40.0
						304		0.0	50.0
						409		30.0	30.0
						Mean =		7.5	42.5
4	Python 80 WG	80 WG	0.6 oz wt/a	A	POSPOS	104		0.0	65.0
	NIS	100 SL	0.25 % v/v	A	POSPOS	209		0.0	30.0
						310		0.0	50.0
						406		30.0	30.0
						Mean =		7.5	43.8
5	FirstRate 84 WG	84 WG	0.3 oz wt/a	A	POSPOS	105		0.0	99.0
	NIS	100 SL	0.25 % v/v	A	POSPOS	207		0.0	99.0
						309		0.0	95.0
						413		0.0	99.0
						Mean =		0.0	98.0
6	Python 80 WG	80 WG	0.125 oz wt/a	A	POSPOS	106		0.0	99.0
	FirstRate 84 WG	84 WG	0.3 oz wt/a	A	POSPOS	211		0.0	95.0
	NIS	100 SL	0.25 % v/v	A	POSPOS	302		0.0	95.0
						403		20.0	85.0
						Mean =		5.0	93.5
7	Python 80 WG	80 WG	0.3 oz wt/a	A	POSPOS	107		0.0	99.0
	FirstRate 84 WG	84 WG	0.3 oz wt/a	A	POSPOS	210		0.0	99.0
	NIS	100 SL	0.25 % v/v	A	POSPOS	308		20.0	95.0
						410		50.0	95.0
						Mean =		17.5	97.0
8	Classic 25 DF	25 DF	0.5 oz wt/a	A	POSPOS	108		0.0	50.0
	NIS	100 SL	0.25 % v/v	A	POSPOS	212		0.0	50.0
						307		0.0	75.0
						414		0.0	99.0
						Mean =		0.0	68.5
9	Python 80 WG	80 WG	0.3 oz wt/a	A	POSPOS	109		0.0	65.0
	Classic 25 DF	25 DF	0.5 oz wt/a	A	POSPOS	201		0.0	50.0
	NIS	100 SL	0.25 % v/v	A	POSPOS	314		0.0	80.0
						408		50.0	50.0
						Mean =		12.5	61.3
10	Liberty 280 SL	280 SL	32 fl oz/a	A	POSPOS	110		95.0	95.0
	Assure II 0.88 EC	.88 EC	8.4 fl oz/a	A	POSPOS	204		90.0	95.0
	AMS 100 D	100 D	3 lb/a	A	POSPOS	312		85.0	95.0
	Crop Oil Concentrate	100 SL	1 % v/v	A	POSPOS	401		90.0	99.0
						Mean =		90.0	96.0

University of Georgia

Trial ID: 24HC136USGA02

Protocol ID: 24HC136US

Project ID: 136

Study Director: Gary Cundiff, Ph.D.

Investigator: Gary Cundiff, Ph.D.

Location:

Trial Year: 2023

Sponsor Contact:

Trial Origin: P public institution trial

Establishing a Python rate for Sida species control in Soybean production

Conducted Under GEP: No

Rating Date									Jul-1-24	Jul-1-24	Jul-1-24
Rating Type									CONTROL	CONTROL	CONTROL
Rating Unit									%	%	%
Rating Min/Max/Interval									0, 100, -	0, 100, -	0, 100, -
Crop Name											
Crop Variety											
Pest Code									AMAPA	AMBEL	SIDSP
Trt	Treatment	Form	Form	Rate	Appl	Appl					
No.	Name	Conc	Type	Rate	Unit	Code	Timing	Plot	26	27	28
11	Zalo 2.52 SL	2.52	SL	32	fl oz/a	A	POSPOS 111		85.0	95.0	85.0
	AMS 100 D	100	D	3	lb/a	A	POSPOS 203		85.0	90.0	65.0
	Crop Oil Concentrate	100	SL	1	% v/v	A	POSPOS 305		65.0	95.0	65.0
							412		85.0	99.0	50.0
							Mean =		80.0	94.8	66.3
12	Liberty 280 SL	280	SL	43	fl oz/a	A	POSPOS 112		65.0	99.0	95.0
	Assure II 0.88 EC	0.88	EC	11.2	fl oz/a	A	POSPOS 214		40.0	99.0	65.0
	AMS 100 D	100	D	3	lb/a	A	POSPOS 313		50.0	99.0	75.0
	Crop Oil Concentrate	100	SL	1	% v/v	A	POSPOS 411		90.0	99.0	85.0
							Mean =		61.3	99.0	80.0
13	Zalo 2.52 SL	2.52	SL	43	fl oz/a	A	POSPOS 113		50.0	99.0	65.0
	AMS 100 D	100	D	3	lb/a	A	POSPOS 208		85.0	99.0	85.0
	Crop Oil Concentrate	100	SL	1	% v/v	A	POSPOS 306		60.0	99.0	75.0
							404		85.0	95.0	85.0
							Mean =		70.0	98.0	77.5
14	Python 80 WG	80	WG	0.3	oz wt/a	A	POSPOS 114		60.0	95.0	95.0
	Zalo 2.52 SL	2.52	SL	32	fl oz/a	A	POSPOS 202		85.0	99.0	95.0
	AMS 100 D	100	D	3	lb/a	A	POSPOS 301		85.0	95.0	90.0
	Crop Oil Concentrate	100	SL	1	% v/v	A	POSPOS 405		85.0	99.0	90.0
							Mean =		78.8	97.0	92.5

University of Georgia

Establishing a Python rate for Sida species control in Soybean production			
Trial ID: 24HC136USGA02			
Protocol ID: 24HC136US	Location:	Trial Year: 2023	
Project ID: 136			
Study Director: Gary Cundiff, Ph.D.		Sponsor Contact:	Conducted Under GEP: No
Investigator: Gary Cundiff, Ph.D.		Trial Origin: P public institution trial	

Rating Unit
%, 0, 100, = percent
Pest Code
AMAPA, Amaranthus palmeri, Palmer amaranth = US
AMBEL, Ambrosia artemisiifolia, Common ragweed = US
SIDSP, Sida spinosa, Prickly sida = US
RAPRA, Raphanus raphanistrum, Wild radish = US
MOLVE, Mollugo verticillata, carpetweed = US