

University of Georgia

WEED CONTROL IN CLEARFIELD SUNFLOWERS														
Trial ID: SN-01-24		Study Dir.: N. SHAY/J. SMITH												
Location: PONDER FARM		Investigator: Eric P. Prostko												
Reps: 4		Plots: 6 by 25 feet												
		Mix Size: 1.5 L												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code	Appl. Amount	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	NTC									-	101	207	309	401
2	SPARTAN	4 F		3.75 oz/a		PRE	A	15 GPA	2.93 mL/mx	1495.1 mL	102	203	301	409
	ZIDUA	4.17 SC		2.5 oz/a		PRE	A	15 GPA	1.953 mL/mx					
	CADRE	2 AS		4.0 oz/a		POST	B	15 GAL/AC	3.125 mL/mx					
	INDUCE			0.25 % v/v		POST	B	15 GAL/AC	3.75 mL/mx					
3	SPARTAN	4 F		3.75 oz/a		PRE	A	15 GPA	2.93 mL/mx	1495.1 mL	103	211	302	403
	ZIDUA	4.17 SC		2.5 oz/a		PRE	A	15 GPA	1.953 mL/mx					
	CADRE	2 AS		4.0 oz/a		POST	B	15 GAL/AC	3.125 mL/mx					
	ZIDUA	4.17 SC		2.5 oz/a		POST	B	15 GAL/AC	1.953 mL/mx					
	INDUCE			0.25 % v/v		POST	B	15 GAL/AC	3.75 mL/mx	1491.2 mL				
4	SPARTAN	4 F		3.75 oz/a		PRE	A	15 GPA	2.93 mL/mx	1484.6 mL	104	206	304	402
	DUAL MAGNUM	7.62 EC		16.0 oz/a		PRE	A	15 GPA	12.5 mL/mx					
	CADRE	2 AS		4.0 oz/a		POST	B	15 GAL/AC	3.125 mL/mx					
	INDUCE			0.25 % v/v		POST	B	15 GAL/AC	3.75 mL/mx					
5	SPARTAN	4 F		3.75 oz/a		PRE	A	15 GPA	2.93 mL/mx	1484.6 mL	105	208	306	410
	DUAL MAGNUM	7.62 EC		16.0 oz/a		PRE	A	15 GPA	12.5 mL/mx					
	CADRE	2 AS		4.0 oz/a		POST	B	15 GAL/AC	3.125 mL/mx					
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	B	15 GAL/AC	12.5 mL/mx					
6	SPARTAN	4 F		3.75 oz/a		PRE	A	15 GPA	2.93 mL/mx	1495.1 mL	106	205	311	404
	ZIDUA	4.17 SC		2.5 oz/a		PRE	A	15 GPA	1.953 mL/mx					
	BEYOND	1 AS		4.0 oz/a		POST	B	15 GAL/AC	3.125 mL/mx					
	INDUCE			0.25 % v/v		POST	B	15 GAL/AC	3.75 mL/mx					
7	SPARTAN	4 F		3.75 oz/a		PRE	A	15 GPA	2.93 mL/mx	1495.1 mL	107	204	305	408
	ZIDUA	4.17 SC		2.5 oz/a		PRE	A	15 GPA	1.953 mL/mx					
	BEYOND	1 AS		4.0 oz/a		POST	B	15 GAL/AC	3.125 mL/mx					
	ZIDUA	4.17 SC		2.5 oz/a		POST	B	15 GAL/AC	1.953 mL/mx					
	INDUCE			0.25 % v/v		POST	B	15 GAL/AC	3.75 mL/mx	1491.2 mL				
8	SPARTAN	4 F		3.75 oz/a		PRE	A	15 GPA	2.93 mL/mx	1484.6 mL	108	201	303	406
	DUAL MAGNUM	7.62 EC		16.0 oz/a		PRE	A	15 GPA	12.5 mL/mx					
	BEYOND	1 AS		4.0 oz/a		POST	B	15 GAL/AC	3.125 mL/mx					
	INDUCE			0.25 % v/v		POST	B	15 GAL/AC	3.75 mL/mx					
9	SPARTAN	4 F		3.75 oz/a		PRE	A	15 GPA	2.93 mL/mx	1484.6 mL	109	202	307	411
	DUAL MAGNUM	7.62 EC		16.0 oz/a		PRE	A	15 GPA	12.5 mL/mx					
	BEYOND	1 AS		4.0 oz/a		POST	B	15 GAL/AC	3.125 mL/mx					
	DUAL MAGNUM	7.62 EC		16.0 oz/a		POST	B	15 GAL/AC	12.5 mL/mx					
10	SURTAIN	1.63 ZC		11.0 oz/a		PRE	A	15 GPA	8.594 mL/mx	1491.4 mL	110	209	310	407
11	VALOR EZ	4 SC		3.0 oz/a		PRE	A	15 GPA	2.344 mL/mx	1497.7 mL	111	210	308	405

Sort Order: Treatment

Trial Comments	
SURTAIN = PYROXASULFONE (1.0 LBS/GAL) + SAFLUFENACIL (0.63 LBS/GAL)	
<u>SUMMARY:</u>	
1) PRE APPLICATIONS OF SURTAIN AND VALOR CAUSED SIGNIFICANT SUNFLOWER STAND REDUCTIONS AND INJURY. <u>THESE HERBICIDES SHOULD NOT BE USED FOR WEED CONTROL IN SUNFLOWERS.</u> BOTH HERBICDES PROVIDED EXCELLENT RESIDUAL CONTROL OF PALMER AMARANTH AND WILD RADISH.	
2) PRE APPLICATIONS OF SPARTAN + ZIDUA WERE MORE INJURIOUS THAN SPARTAN + DUAL MAGNUM.	
3) ON MAY 27 (20 DAT), THE FOLLOWING WEED CONTROL OBSERVATIONS ABOUT THE PRE TREATMENTS WERE MADE:	
A) NO DIFFERENCES IN PALMER AMARANTH CONTROL BETWEEN SPARTAN + ZIDUA OR SPARTAN + DUAL MAGNUM (AT LEAST 91% CONTROL).	

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B) WILD RADISH CONTROL WITH SPARTAN + ZIDUA OR SPARTAN + DUAL WAS VARIABLE AND RANGED BETWEEN 36-77%.

C) NO REAL DIFFERENCES IN ANNUAL GRASS, CARPETWEED, AND CORN SPURRY CONTROL BETWEEN SPARTAN + ZIDUA AND SPARTAN + DUAL MAGNUM.

4) ON JUNE 14, 9 DAYS AFTER THE POST APPLICATIONS, THE FOLLOWING OBSERVATIONS WERE MADE:

A) ZIDUA OR DUAL MAGNUM TANK-MIXED WITH POST APPLICATIONS OF CADRE OR BEYOND DID NOT INCREASE SUNFLOWER STUNTING OR LEAF CHLOROSIS.

B) ZIDUA TANK-MIXED WITH CADRE OR BEYOND INCREASED LEAF NECROSIS BUT DUAL MAGNUM DID NOT.

C) NO REAL DIFFERENCES IN PALMER AMARANTH CONTROL WAS OBSERVED BETWEEN TREATMENTS.

D) GENERALLY, ZIDUA OR DUAL TANK-MIXED WITH CADRE OR BEYOND IMPROVED THE CONTROL OF WILD RADISH.

Study Director: N. SHAY/J. SMITH

Affiliation:

Postal Code:

Investigator: Eric P. Prostko

Affiliation: UGA

Postal Code: 31794

City:

State/Prov.:

Postal Code:

Country:

E-Longitude of LL Corner °:

Altitude of LL Corner:

Directions:

Trial Status:

Trial Reliability:

Initiation Date:

Planned Completion Date:

N-Latitude of LL Corner °:

Angle y-axis to North °:

Cooperator:

Org:

Address 1:

Address 2:

City:

State/Prov:

Postal Code:

Country:

Phone No:

Fax No:

Conducted Under GLP (Y/N): N

Guidelines:

Conducted Under GEP (Y/N): N

Guideline Description:

Objective:

Conclusions:

CROP AND WEED DESCRIPTION			
Weed	Code	Common Name	Scientific Name
1.	AGRASS	TX	APN/CRB/GOOSE/CROW
2.	AMAPA	PA	LMER AMARANTH
3.	RAPRA	WI	LD RADISH
4.	MOLVE	CA	RPETWEED
5.	SPEAR	CO	RN SPURRY

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Crop 1: HELAN

SUNFLOWER

Variety: BARNBURNER CL

Planting Date: May-8-24

Planting Method: MONOSEM

Rate: 29869

S/A

Depth: 1

IN

Perennial Age:

Row Spacing: 30 in

Spacing Within Row:

Seed Bed:

Soil Temperature:

Soil Moisture: OPTIMUM

Emergence Date:

Plot Width, Unit: 6 FT

SITE AND DESIGN

Plot Length, Unit: 25 FT

Reps: 4

Site Type:

Tillage Type: CONVENTIONAL

Study Design: RACOB

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.	SOYBEAN	2023	2023

MAINTENANCE

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

50-0-0 LBS/A SIDEDRESS: 06/17/24

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.							

% Sand: 94

% OM: 0.78

Texture: SAND

% Silt: 4

pH: 6.7

Soil Name: tifton

% Clay: 2

CEC: 3.33

Fert. Level: GOOD

SOIL DESCRIPTION

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	May-9-24		0.75	IN	RAINFALL		
2.	May-10-24		0.75	IN	RAINFALL		
3.	May-13-24		1.1	IN	RAINFALL		
4.	May-25-24		0.44	IN	RAINFALL		
5.	May-27-24		0.62	IN	RAINFALL		
6.	Jun-4-24		0.5	IN	SPRINKLER - LATERAL MOVE		
7.	Jun-11-24		0.45	IN	SPRINKLER - LATERAL MOVE		
8.	Jun-17-24		0.4	IN	SPRINKLER - LATERAL MOVE		
9.	Jun-27-24		0.9	IN	RAINFALL		

Overall Moisture Conditions:

Closest Weather Station:

Distance:

Unit:

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APPLICATION DESCRIPTION

	A	B
Application Date:	May-9-24	Jun-5-24
Time of Day:	6:30 AM	6:51 AM
Application Method:	BROADCAST	BROADCAST
Application Timing:	PRE	POST
Applic. Placement:	SOIL	FOLIAGE
Air Temp., Unit:	73 F	71 F
% Relative Humidity:	97	98
Wind Velocity, Unit:	1 MPH	1 MPH
Dew Presence (Y/N):	N	Y
Water Hardness:	--	--
Soil Temp., Unit:	78 F	80 F
Soil Moisture:	OPTIMUM	WET
% Cloud Cover:	15	40

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	HELAN,	HELAN,
Stage Scale:		3 NODES
Height, Unit:		12, IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AGRAS,	AGRAS,
Stage Scale:		
Density, Unit:		
Weed 2 Code, Stage:	AMAPA,	AMAPA,
Stage Scale:		
Density, Unit:		
Weed 3 Code, Stage:	RAPRA,	RAPRA,
Stage Scale:		
Density, Unit:		
Weed 4 Code, Stage:	MOLVE,	MOLVE,
Stage Scale:		
Density, Unit:		
Weed 5 Code, Stage:	SPEAR,	SPEAR,
Stage Scale:		
Density, Unit:		

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APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	SAME AS A
Operating Pressure:	35	
Nozzle Type:	AIXR	
Nozzle Size:	11002	
Nozzle Spacing, Unit:	20 IN	
Nozzles/Row:		
Band Width, Unit:		
Boom Length, Unit:	20 IN	
Boom Height, Unit:	20 IN	
Ground Speed, Unit:	3.5 MPH	
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	WATER	
Spray Volume, Unit:	15 GPA	
Spray pH:		
Propellant:	CO2	
Tank Mix (Y/N):		

Trt No	Treatment Application Comment

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Location: PONDER FARM		Investigator: Eric P. Prostko										
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date							Helan STAND #/5 FT May-21-24	Helan Stunt % May-27-24	Amapa Control % May-27-24	Rapra Control % May-27-24	Agrass Control % May-27-24	Molve Control % May-27-24
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6
1	NTC						12.8 ab	0.0 h	0.0 e	0.0 d	0.0 e	0.0 d
2	SPARTAN	4 F	3.75 oz/a	PRE	A		11.3 b	18.8 c	95.8 ab	49.8 bc	81.3 d	98.0 a
	ZIDUA	4.17 SC	2.5 oz/a	PRE	A							
	CADRE	2 AS	4.0 oz/a	POST	B							
	INDUCE		0.25 % v/v	POST	B							
3	SPARTAN	4 F	3.75 oz/a	PRE	A		11.8 ab	13.8 de	94.8 bc	70.0 ab	86.0 cd	99.0 a
	ZIDUA	4.17 SC	2.5 oz/a	PRE	A							
	CADRE	2 AS	4.0 oz/a	POST	B							
	ZIDUA	4.17 SC	2.5 oz/a	POST	B							
	INDUCE		0.25 % v/v	POST	B							
4	SPARTAN	4 F	3.75 oz/a	PRE	A		12.5 ab	6.3 g	94.8 bc	51.3 bc	94.8 abc	83.5 b
	DUAL MAGNUM	7.62 EC	16.0 oz/a	PRE	A							
	CADRE	2 AS	4.0 oz/a	POST	B							
	INDUCE		0.25 % v/v	POST	B							
5	SPARTAN	4 F	3.75 oz/a	PRE	A		10.8 b	7.5 g	98.0 ab	77.3 ab	93.3 abc	88.5 ab
	DUAL MAGNUM	7.62 EC	16.0 oz/a	PRE	A							
	CADRE	2 AS	4.0 oz/a	POST	B							
	DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	B							
6	SPARTAN	4 F	3.75 oz/a	PRE	A		11.8 ab	11.3 ef	91.3 cd	68.8 ab	87.0 cd	97.0 a
	ZIDUA	4.17 SC	2.5 oz/a	PRE	A							
	BEYOND	1 AS	4.0 oz/a	POST	B							
	INDUCE		0.25 % v/v	POST	B							
7	SPARTAN	4 F	3.75 oz/a	PRE	A		14.0 a	16.3 cd	96.0 ab	67.5 b	88.5 bcd	98.0 a
	ZIDUA	4.17 SC	2.5 oz/a	PRE	A							
	BEYOND	1 AS	4.0 oz/a	POST	B							
	ZIDUA	4.17 SC	2.5 oz/a	POST	B							
	INDUCE		0.25 % v/v	POST	B							
8	SPARTAN	4 F	3.75 oz/a	PRE	A		11.5 b	7.5 g	90.0 d	57.5 bc	91.0 abc	72.5 c
	DUAL MAGNUM	7.62 EC	16.0 oz/a	PRE	A							
	BEYOND	1 AS	4.0 oz/a	POST	B							
	INDUCE		0.25 % v/v	POST	B							
9	SPARTAN	4 F	3.75 oz/a	PRE	A		12.3 ab	8.8 fg	96.8 ab	36.3 c	91.0 abc	91.8 ab
	DUAL MAGNUM	7.62 EC	16.0 oz/a	PRE	A							
	BEYOND	1 AS	4.0 oz/a	POST	B							
	DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	B							
10	SURTAIN	1.63 ZC	11.0 oz/a	PRE	A		2.3 c	93.8 a	99.0 a	99.0 a	96.8 ab	99.0 a
11	VALOR EZ	4 SC	3.0 oz/a	PRE	A		2.8 c	87.5 b	99.0 a	99.0 a	99.0 a	99.0 a
LSD P=.10							2.36	3.03	3.61	30.95	9.74	10.98
Standard Deviation							1.96	2.52	3.01	25.79	8.12	9.15
CV							19.04	10.23	3.47	41.95	9.83	10.86
Grand Mean							10.32	24.66	86.84	61.48	82.59	84.20
Bartlett's X2^							15.452	5.677	14.892	7.83	8.538	25.036*
P(Bartlett's X2)							0.116	0.842	0.136	0.645	0.576	0.005*
Replicate F							0.542	0.804	2.489	7.663	8.899	2.275
Replicate Prob(F)							0.6572	0.5018	0.0794	0.0006	0.0002	0.1001
Treatment F							16.268	686.143	369.535	4.752	47.142	40.675
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0004	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.

Could not calculate LSD (% mean diff) or mean separation letters for columns 7,13 because error variance is 0.

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

^Calculated from residual.

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Location: PONDER FARM		Investigator: Eric P. Prostko											
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date							Spear	Helan	Amapa	Rapra	Agrass	Molve	Spear
							Control % May-27-24	Stunt % Jun-5-24	Control % Jun-5-24	Control % Jun-5-24	Control % Jun-5-24	Control % Jun-5-24	Control % Jun-5-24
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code	7	8	9	10	11	12	13
1	NTC						0.0 na	0.0 f	0.0 d	0.0 d	0.0 e	0.0 f	0.0 na
2	SPARTAN	4 F		3.75 oz/a	PRE	A	99.0 na	16.3 c	67.5 bc	28.8 bc	75.0 cd	85.8 abc	99.0 na
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A							
	CADRE	2 AS		4.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
3	SPARTAN	4 F		3.75 oz/a	PRE	A	99.0 na	16.3 c	63.8 c	29.8 bc	73.8 d	93.5 ab	99.0 na
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A							
	CADRE	2 AS		4.0 oz/a	POST	B							
	ZIDUA	4.17 SC		2.5 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
4	SPARTAN	4 F		3.75 oz/a	PRE	A	99.0 na	3.8 ef	67.5 bc	5.0 cd	85.0 abc	65.0 de	99.0 na
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A							
	CADRE	2 AS		4.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
5	SPARTAN	4 F		3.75 oz/a	PRE	A	99.0 na	8.8 de	70.0 bc	38.8 b	90.0 a	72.3 cde	99.0 na
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A							
	CADRE	2 AS		4.0 oz/a	POST	B							
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	B							
6	SPARTAN	4 F		3.75 oz/a	PRE	A	99.0 na	10.0 cde	67.5 bc	26.3 bcd	77.5 bcd	98.0 a	99.0 na
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A							
	BEYOND	1 AS		4.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
7	SPARTAN	4 F		3.75 oz/a	PRE	A	99.0 na	15.0 cd	71.3 bc	38.8 b	82.5 a-d	93.5 ab	99.0 na
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A							
	BEYOND	1 AS		4.0 oz/a	POST	B							
	ZIDUA	4.17 SC		2.5 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
8	SPARTAN	4 F		3.75 oz/a	PRE	A	99.0 na	6.3 ef	68.8 bc	41.3 b	86.3 ab	58.8 e	99.0 na
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A							
	BEYOND	1 AS		4.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
9	SPARTAN	4 F		3.75 oz/a	PRE	A	99.0 na	8.8 de	72.5 b	21.3 bcd	87.5 ab	77.3 bcd	99.0 na
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A							
	BEYOND	1 AS		4.0 oz/a	POST	B							
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	B							
10	SURTAIN	1.63 ZC		11.0 oz/a	PRE	A	99.0 na	97.3 a	99.0 a	98.0 a	79.8 a-d	99.0 a	99.0 na
11	VALOR EZ	4 SC		3.0 oz/a	PRE	A	99.0 na	73.8 b	99.0 a	98.0 a	83.5 a-d	99.0 a	99.0 na
LSD P=.10							.	6.36	7.66	26.42	10.96	17.09	.
Standard Deviation							0.00	5.30	6.38	22.01	9.13	14.24	0.00
CV							0.0	22.77	9.4	56.88	12.24	18.6	0.0
Grand Mean							90.00	23.27	67.89	38.70	74.61	76.55	90.00
Bartlett's X2^							.	25.562*	10.218	3.172	5.933	12.008	.
P(Bartlett's X2)							.	0.004*	0.422	0.977	0.821	0.285	.
Replicate F							NaN	1.297	6.408	12.593	9.628	2.841	NaN
Replicate Prob(F)							NaN	0.2937	0.0017	0.0001	0.0001	0.0545	NaN
Treatment F							NaN	142.369	64.774	8.511	30.652	16.683	NaN
Treatment Prob(F)							NaN	0.0001	0.0001	0.0001	0.0001	0.0001	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.

Could not calculate LSD (% mean diff) or mean separation letters for columns 7,13 because error variance is 0.

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date							Helan	Helan	Helan	Amapa	Rapra	Helan	Amapa
							Stunt %	Chlorosis %	Necrosis %	Control %	Control %	Stunt %	Control %
							Jun-14-24	Jun-14-24	Jun-14-24	Jun-14-24	Jun-14-24	Jul-1-24	Jul-1-24
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	14	15	16	17	18	19	20
1	NTC						0.0 c	0.0 f	0.0 c	0.0 f	0.0 g	0.0 d	0.0 e
2	SPARTAN	4 F		3.75 oz/a	PRE	A	7.5 c	18.8 ab	1.3 bc	82.5 cde	84.8 cde	3.8 cd	88.8 bcd
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A							
	CADRE	2 AS		4.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
3	SPARTAN	4 F		3.75 oz/a	PRE	A	12.5 c	21.3 a	7.5 a	80.0 de	91.3 bc	7.5 c	86.3 cd
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A							
	CADRE	2 AS		4.0 oz/a	POST	B							
	ZIDUA	4.17 SC		2.5 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
4	SPARTAN	4 F		3.75 oz/a	PRE	A	0.0 c	18.8 ab	0.0 c	85.0 cde	75.0 f	0.0 d	85.0 cd
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A							
	CADRE	2 AS		4.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
5	SPARTAN	4 F		3.75 oz/a	PRE	A	3.8 c	15.0 bc	2.5 b	82.5 cde	86.3 cd	7.5 c	86.3 cd
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A							
	CADRE	2 AS		4.0 oz/a	POST	B							
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	B							
6	SPARTAN	4 F		3.75 oz/a	PRE	A	5.0 c	2.5 ef	0.0 c	87.5 bcd	77.5 ef	3.8 cd	82.5 d
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A							
	BEYOND	1 AS		4.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
7	SPARTAN	4 F		3.75 oz/a	PRE	A	11.3 c	11.3 cd	8.8 a	83.8 cde	88.8 c	3.8 cd	91.3 abc
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A							
	BEYOND	1 AS		4.0 oz/a	POST	B							
	ZIDUA	4.17 SC		2.5 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
8	SPARTAN	4 F		3.75 oz/a	PRE	A	2.5 c	7.5 de	0.0 c	78.8 e	80.0 def	1.3 d	87.5 bcd
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A							
	BEYOND	1 AS		4.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
9	SPARTAN	4 F		3.75 oz/a	PRE	A	3.8 c	3.8 ef	0.0 c	88.8 bc	73.8 f	5.0 cd	86.3 cd
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A							
	BEYOND	1 AS		4.0 oz/a	POST	B							
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	B							
10	SURTAIN	1.63 ZC		11.0 oz/a	PRE	A	76.8 a	0.0 f	0.0 c	99.0 a	98.0 ab	100.0 a	98.0 a
11	VALOR EZ	4 SC		3.0 oz/a	PRE	A	53.8 b	0.0 f	0.0 c	96.0 ab	99.0 a	60.0 b	94.5 ab
LSD P=.10							17.99	5.19	2.00	8.62	7.74	6.07	7.85
Standard Deviation							14.99	4.32	1.66	7.18	6.45	5.06	6.54
CV							93.27	48.14	91.46	9.15	8.31	28.92	8.12
Grand Mean							16.07	8.98	1.82	78.52	77.66	17.50	80.57
Bartlett's X2^							47.673*	20.878*	44.154*	8.377	8.653	15.077	13.913
P(Bartlett's X2)							0.00*	0.022*	0.00*	0.592	0.565	0.129	0.177
Replicate F							0.568	0.598	0.548	5.140	6.274	2.041	3.148
Replicate Prob(F)							0.6403	0.6210	0.6534	0.0055	0.0020	0.1292	0.0394
Treatment F							11.288	14.915	15.082	55.660	70.708	162.657	68.645
Treatment Prob(F)							0.0001	0.0001	0.0001	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.

Could not calculate LSD (% mean diff) or mean separation letters for columns 7,13 because error variance is 0.

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

^Calculated from residual.

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WEED CONTROL IN CLEARFIELD SUNFLOWERS

Trial ID: SN-01-24 Study Dir.: N. SHAY/J. SMITH
Location: PONDER FARM Investigator: Eric P. Prostko

Crop Code
Helan = SUNFLOWER / HELIANTHUS ANNUUS L.
Rating Unit
% = PERCENT

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WEED CONTROL IN CLEARFIELD SUNFLOWERS										
Trial ID: SN-01-24		Study Dir.: N. SHAY/J. SMITH								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date						Helan STAND #/5 FT May-21-24	Helan Stunt % May-27-24	Amapa Control % May-27-24	Rapra Control % May-27-24	Agrass Control % May-27-24
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot		
1	NTC									
							101	11.0	0.0	0.0
							207	12.0	0.0	0.0
							309	14.0	0.0	0.0
							401	14.0	0.0	0.0
							Mean =	12.8	0.0	0.0
2	SPARTAN	4 F		3.75 oz/a	PRE	A	102	12.0	15.0	95.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A	203	12.0	20.0	99.0
	CADRE	2 AS		4.0 oz/a	POST	B	301	11.0	20.0	90.0
	INDUCE			0.25 % v/v	POST	B	409	10.0	20.0	99.0
							Mean =	11.3	18.8	95.8
3	SPARTAN	4 F		3.75 oz/a	PRE	A	103	11.0	10.0	95.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A	211	13.0	15.0	99.0
	CADRE	2 AS		4.0 oz/a	POST	B	302	13.0	15.0	95.0
	ZIDUA	4.17 SC		2.5 oz/a	POST	B	403	10.0	15.0	90.0
	INDUCE			0.25 % v/v	POST	B				
							Mean =	11.8	13.8	94.8
4	SPARTAN	4 F		3.75 oz/a	PRE	A	104	13.0	5.0	95.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	206	11.0	10.0	99.0
	CADRE	2 AS		4.0 oz/a	POST	B	304	14.0	5.0	90.0
	INDUCE			0.25 % v/v	POST	B	402	12.0	5.0	95.0
							Mean =	12.5	6.3	94.8
5	SPARTAN	4 F		3.75 oz/a	PRE	A	105	9.0	5.0	99.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	208	14.0	5.0	99.0
	CADRE	2 AS		4.0 oz/a	POST	B	306	12.0	10.0	95.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	B	410	8.0	10.0	99.0
							Mean =	10.8	7.5	98.0
6	SPARTAN	4 F		3.75 oz/a	PRE	A	106	12.0	10.0	95.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A	205	12.0	10.0	90.0
	BEYOND	1 AS		4.0 oz/a	POST	B	311	12.0	10.0	85.0
	INDUCE			0.25 % v/v	POST	B	404	11.0	15.0	95.0
							Mean =	11.8	11.3	91.3
7	SPARTAN	4 F		3.75 oz/a	PRE	A	107	14.0	20.0	99.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A	204	10.0	15.0	95.0
	BEYOND	1 AS		4.0 oz/a	POST	B	305	13.0	15.0	95.0
	ZIDUA	4.17 SC		2.5 oz/a	POST	B	408	19.0	15.0	95.0
	INDUCE			0.25 % v/v	POST	B				
							Mean =	14.0	16.3	96.0
8	SPARTAN	4 F		3.75 oz/a	PRE	A	108	11.0	10.0	90.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	201	11.0	5.0	90.0
	BEYOND	1 AS		4.0 oz/a	POST	B	303	13.0	5.0	85.0
	INDUCE			0.25 % v/v	POST	B	406	11.0	10.0	95.0
							Mean =	11.5	7.5	90.0
9	SPARTAN	4 F		3.75 oz/a	PRE	A	109	12.0	5.0	99.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	202	15.0	10.0	90.0
	BEYOND	1 AS		4.0 oz/a	POST	B	307	12.0	10.0	99.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	B	411	10.0	10.0	99.0
							Mean =	12.3	8.8	96.8
10	SURTAIN	1.63 ZC		11.0 oz/a	PRE	A	110	2.0	95.0	99.0
							209	2.0	90.0	99.0
							310	1.0	95.0	99.0
							407	4.0	95.0	99.0
							Mean =	2.3	93.8	99.0

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WEED CONTROL IN CLEARFIELD SUNFLOWERS

Trial ID: SN-01-24	Study Dir.: N. SHAY/J. SMITH
Location: PONDER FARM	Investigator: Eric P. Prostko

Weed Code							Helan	Helan	Amapa	Rapra	Agrass
Crop Code											
Part Rated											
Rating Data Type							STAND	Stunt	Control	Control	Control
Rating Unit							#/5 FT	%	%	%	%
Rating Date							May-21-24	May-27-24	May-27-24	May-27-24	May-27-24
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot	1	2	3	4	5
11	VALOR EZ	4	SC	3.0 oz/a	PRE	A 111	1.0	90.0	99.0	99.0	99.0
						210	6.0	85.0	99.0	99.0	99.0
						308	2.0	90.0	99.0	99.0	99.0
						405	2.0	85.0	99.0	99.0	99.0
						Mean =	2.8	87.5	99.0	99.0	99.0

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WEED CONTROL IN CLEARFIELD SUNFLOWERS

Trial ID: SN-01-24 Study Dir.: N. SHAY/J. SMITH
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date							Molve	Spear	Helan	Amapa	Rapra	Agrass		
							Control %	Control %	Stunt %	Control %	Control %	Control %		
							May-27-24	May-27-24	Jun-5-24	Jun-5-24	Jun-5-24	Jun-5-24		
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	6	7	8	9	10	11
1	NTC							101	0.0	0.0	0.0	0.0	0.0	0.0
								207	0.0	0.0	0.0	0.0	0.0	0.0
								309	0.0	0.0	0.0	0.0	0.0	0.0
								401	0.0	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	SPARTAN	4 F		3.75 oz/a	PRE	A		102	99.0	99.0	20.0	65.0	20.0	65.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A		203	99.0	99.0	15.0	60.0	0.0	85.0
	CADRE	2 AS		4.0 oz/a	POST	B		301	95.0	99.0	15.0	60.0	0.0	85.0
	INDUCE			0.25 % v/v	POST	B		409	99.0	99.0	15.0	85.0	95.0	65.0
								Mean =	98.0	99.0	16.3	67.5	28.8	75.0
3	SPARTAN	4 F		3.75 oz/a	PRE	A		103	99.0	99.0	20.0	65.0	20.0	65.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A		211	99.0	99.0	15.0	60.0	0.0	85.0
	CADRE	2 AS		4.0 oz/a	POST	B		302	99.0	99.0	15.0	65.0	0.0	85.0
	ZIDUA	4.17 SC		2.5 oz/a	POST	B		403	99.0	99.0	15.0	65.0	99.0	60.0
	INDUCE			0.25 % v/v	POST	B								
								Mean =	99.0	99.0	16.3	63.8	29.8	73.8
4	SPARTAN	4 F		3.75 oz/a	PRE	A		104	90.0	99.0	5.0	65.0	20.0	85.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A		206	99.0	99.0	5.0	65.0	0.0	95.0
	CADRE	2 AS		4.0 oz/a	POST	B		304	65.0	99.0	0.0	65.0	0.0	90.0
	INDUCE			0.25 % v/v	POST	B		402	80.0	99.0	5.0	75.0	0.0	70.0
								Mean =	83.5	99.0	3.8	67.5	5.0	85.0
5	SPARTAN	4 F		3.75 oz/a	PRE	A		105	99.0	99.0	5.0	65.0	20.0	95.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A		208	95.0	99.0	10.0	60.0	0.0	95.0
	CADRE	2 AS		4.0 oz/a	POST	B		306	65.0	99.0	10.0	65.0	50.0	95.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	B		410	95.0	99.0	10.0	90.0	85.0	75.0
								Mean =	88.5	99.0	8.8	70.0	38.8	90.0
6	SPARTAN	4 F		3.75 oz/a	PRE	A		106	99.0	99.0	20.0	75.0	20.0	85.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A		205	99.0	99.0	5.0	60.0	0.0	95.0
	BEYOND	1 AS		4.0 oz/a	POST	B		311	95.0	99.0	0.0	60.0	0.0	70.0
	INDUCE			0.25 % v/v	POST	B		404	95.0	99.0	15.0	75.0	85.0	60.0
								Mean =	97.0	99.0	10.0	67.5	26.3	77.5
7	SPARTAN	4 F		3.75 oz/a	PRE	A		107	99.0	99.0	20.0	75.0	20.0	90.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A		204	99.0	99.0	20.0	65.0	0.0	95.0
	BEYOND	1 AS		4.0 oz/a	POST	B		305	95.0	99.0	10.0	70.0	50.0	80.0
	ZIDUA	4.17 SC		2.5 oz/a	POST	B		408	99.0	99.0	10.0	75.0	85.0	65.0
	INDUCE			0.25 % v/v	POST	B								
								Mean =	98.0	99.0	15.0	71.3	38.8	82.5
8	SPARTAN	4 F		3.75 oz/a	PRE	A		108	75.0	99.0	10.0	65.0	30.0	95.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A		201	70.0	99.0	0.0	65.0	0.0	85.0
	BEYOND	1 AS		4.0 oz/a	POST	B		303	50.0	99.0	0.0	60.0	50.0	80.0
	INDUCE			0.25 % v/v	POST	B		406	95.0	99.0	15.0	85.0	85.0	85.0
								Mean =	72.5	99.0	6.3	68.8	41.3	86.3
9	SPARTAN	4 F		3.75 oz/a	PRE	A		109	99.0	99.0	15.0	65.0	20.0	95.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A		202	70.0	99.0	5.0	65.0	0.0	85.0
	BEYOND	1 AS		4.0 oz/a	POST	B		307	99.0	99.0	10.0	85.0	0.0	95.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	B		411	99.0	99.0	5.0	75.0	65.0	75.0
								Mean =	91.8	99.0	8.8	72.5	21.3	87.5
10	SURTAIN	1.63 ZC		11.0 oz/a	PRE	A		110	99.0	99.0	95.0	99.0	95.0	90.0
								209	99.0	99.0	95.0	99.0	99.0	99.0
								310	99.0	99.0	99.0	99.0	99.0	65.0
								407	99.0	99.0	100.0	99.0	99.0	65.0
								Mean =	99.0	99.0	97.3	99.0	98.0	79.8

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WEED CONTROL IN CLEARFIELD SUNFLOWERS

Trial ID: SN-01-24 Study Dir.: N. SHAY/J. SMITH
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date						Molve	Spear	Helan	Helan	Helan	Amapa
						Control % Jun-5-24	Control % Jun-5-24	Stunt % Jun-14-24	Chlorosis % Jun-14-24	Necrosis % Jun-14-24	Control % Jun-14-24
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot			
1	NTC						101		0.0	0.0	0.0
							207		0.0	0.0	0.0
							309		0.0	0.0	0.0
							401		0.0	0.0	0.0
							Mean =		0.0	0.0	0.0
2	SPARTAN	4 F		3.75 oz/a	PRE	A	102		99.0	99.0	10.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A	203		50.0	99.0	5.0
	CADRE	2 AS		4.0 oz/a	POST	B	301		95.0	99.0	0.0
	INDUCE			0.25 % v/v	POST	B	409		99.0	99.0	15.0
							Mean =		85.8	99.0	7.5
3	SPARTAN	4 F		3.75 oz/a	PRE	A	103		99.0	99.0	15.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A	211		95.0	99.0	15.0
	CADRE	2 AS		4.0 oz/a	POST	B	302		90.0	99.0	10.0
	ZIDUA	4.17 SC		2.5 oz/a	POST	B	403		90.0	99.0	10.0
	INDUCE			0.25 % v/v	POST	B					
							Mean =		93.5	99.0	12.5
4	SPARTAN	4 F		3.75 oz/a	PRE	A	104		95.0	99.0	0.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	206		50.0	99.0	0.0
	CADRE	2 AS		4.0 oz/a	POST	B	304		65.0	99.0	0.0
	INDUCE			0.25 % v/v	POST	B	402		50.0	99.0	0.0
							Mean =		65.0	99.0	0.0
5	SPARTAN	4 F		3.75 oz/a	PRE	A	105		90.0	99.0	0.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	208		50.0	99.0	5.0
	CADRE	2 AS		4.0 oz/a	POST	B	306		50.0	99.0	0.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	B	410		99.0	99.0	10.0
							Mean =		72.3	99.0	3.8
6	SPARTAN	4 F		3.75 oz/a	PRE	A	106		99.0	99.0	15.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A	205		95.0	99.0	0.0
	BEYOND	1 AS		4.0 oz/a	POST	B	311		99.0	99.0	0.0
	INDUCE			0.25 % v/v	POST	B	404		99.0	99.0	5.0
							Mean =		98.0	99.0	5.0
7	SPARTAN	4 F		3.75 oz/a	PRE	A	107		90.0	99.0	25.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A	204		95.0	99.0	10.0
	BEYOND	1 AS		4.0 oz/a	POST	B	305		90.0	99.0	0.0
	ZIDUA	4.17 SC		2.5 oz/a	POST	B	408		99.0	99.0	10.0
	INDUCE			0.25 % v/v	POST	B					
							Mean =		93.5	99.0	11.3
8	SPARTAN	4 F		3.75 oz/a	PRE	A	108		50.0	99.0	0.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	201		50.0	99.0	0.0
	BEYOND	1 AS		4.0 oz/a	POST	B	303		50.0	99.0	0.0
	INDUCE			0.25 % v/v	POST	B	406		85.0	99.0	10.0
							Mean =		58.8	99.0	2.5
9	SPARTAN	4 F		3.75 oz/a	PRE	A	109		95.0	99.0	5.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	202		50.0	99.0	0.0
	BEYOND	1 AS		4.0 oz/a	POST	B	307		99.0	99.0	0.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	B	411		65.0	99.0	10.0
							Mean =		77.3	99.0	3.8
10	SURTAIN	1.63 ZC		11.0 oz/a	PRE	A	110		99.0	99.0	9.0
							209		99.0	99.0	0.0
							310		99.0	99.0	0.0
							407		99.0	99.0	100.0
							Mean =		99.0	99.0	76.8

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WEED CONTROL IN CLEARFIELD SUNFLOWERS														
Trial ID: SN-01-24		Study Dir.: N. SHAY/J. SMITH												
Location: PONDER FARM		Investigator: Eric P. Prostko												
Weed Code							Molve	Spear						
Crop Code									Helan	Helan	Helan	Amapa		
Part Rated														
Rating Data Type							Control	Control	Stunt	Chlorosis	Necrosis	Control		
Rating Unit							%	%	%	%	%	%		
Rating Date							Jun-5-24	Jun-5-24	Jun-14-24	Jun-14-24	Jun-14-24	Jun-14-24		
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	12	13	14	15	16	17
11	VALOR EZ	4	SC	3.0	oz/a	PRE	A	111	99.0	99.0	50.0	0.0	0.0	95.0
								210	99.0	99.0	50.0	0.0	0.0	95.0
								308	99.0	99.0	65.0	0.0	0.0	95.0
								405	99.0	99.0	50.0	0.0	0.0	99.0
								Mean =	99.0	99.0	53.8	0.0	0.0	96.0

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WEED CONTROL IN CLEARFIELD SUNFLOWERS

Trial ID: SN-01-24 Study Dir.: N. SHAY/J. SMITH
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date							Rapra	Helan	Amapa
							Control %	Stunt %	Control %
							Jun-14-24	Jul-1-24	Jul-1-24
Trt	Treatment	Form	Form	Rate	Grow	Appl			
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	
1	NTC						101		0.0
							207		0.0
							309		0.0
							401		0.0
							Mean =		0.0
2	SPARTAN	4 F		3.75 oz/a	PRE	A	102		80.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A	203		85.0
	CADRE	2 AS		4.0 oz/a	POST	B	301		75.0
	INDUCE			0.25 % v/v	POST	B	409		99.0
							Mean =		84.8
3	SPARTAN	4 F		3.75 oz/a	PRE	A	103		85.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A	211		90.0
	CADRE	2 AS		4.0 oz/a	POST	B	302		95.0
	ZIDUA	4.17 SC		2.5 oz/a	POST	B	403		95.0
	INDUCE			0.25 % v/v	POST	B			
							Mean =		91.3
4	SPARTAN	4 F		3.75 oz/a	PRE	A	104		75.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	206		75.0
	CADRE	2 AS		4.0 oz/a	POST	B	304		65.0
	INDUCE			0.25 % v/v	POST	B	402		85.0
							Mean =		75.0
5	SPARTAN	4 F		3.75 oz/a	PRE	A	105		75.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	208		90.0
	CADRE	2 AS		4.0 oz/a	POST	B	306		85.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	B	410		95.0
							Mean =		86.3
6	SPARTAN	4 F		3.75 oz/a	PRE	A	106		65.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A	205		85.0
	BEYOND	1 AS		4.0 oz/a	POST	B	311		75.0
	INDUCE			0.25 % v/v	POST	B	404		85.0
							Mean =		77.5
7	SPARTAN	4 F		3.75 oz/a	PRE	A	107		85.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A	204		85.0
	BEYOND	1 AS		4.0 oz/a	POST	B	305		90.0
	ZIDUA	4.17 SC		2.5 oz/a	POST	B	408		95.0
	INDUCE			0.25 % v/v	POST	B			
							Mean =		88.8
8	SPARTAN	4 F		3.75 oz/a	PRE	A	108		75.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	201		65.0
	BEYOND	1 AS		4.0 oz/a	POST	B	303		90.0
	INDUCE			0.25 % v/v	POST	B	406		90.0
							Mean =		80.0
9	SPARTAN	4 F		3.75 oz/a	PRE	A	109		75.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	202		65.0
	BEYOND	1 AS		4.0 oz/a	POST	B	307		65.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	B	411		90.0
							Mean =		73.8
10	SURTAIN	1.63 ZC		11.0 oz/a	PRE	A	110		95.0
							209		99.0
							310		99.0
							407		99.0
							Mean =		98.0

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WEED CONTROL IN CLEARFIELD SUNFLOWERS									
Trial ID: SN-01-24		Study Dir.: N. SHAY/J. SMITH							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code							Rapra		Amapa
Crop Code								Helan	
Part Rated									
Rating Data Type							Control	Stunt	Control
Rating Unit							%	%	%
Rating Date							Jun-14-24	Jul-1-24	Jul-1-24
Trt	Treatment	Form	Form	Rate	Grow	Appl			
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	
11	VALOR EZ	4	SC	3.0	oz/a	PRE	A	111	
								210	
								308	
								405	
								Mean =	

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WEED CONTROL IN CLEARFIELD SUNFLOWERS

Trial ID: SN-01-24 Study Dir.: N. SHAY/J. SMITH
Location: PONDER FARM Investigator: Eric P. Prostko

Crop Code
Helan = SUNFLOWER / HELIANTHUS ANNUUS L.
Rating Unit
% = PERCENT