

LSU Northeast Research Station

EVALUATION OF GOAL 2XL, GRASP, PYTHON AND FIRSTRATE FOR FALLOW BED WEED CONTROL AND CROP TOLERANCE IN COTTON AND SOYBEAN

Trial ID: Study Dir.:
Location: Investigator: Donnie Miller

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. LAMAM	Henbit	Lamium amplexicaule
2. POAAN	Annual bluegrass	Poa annua
3. OEOLA	Eveningprimrose, cutleaf	Oenothera laciniata
4. COPSS	Swinecress	Coronopus sp.
5. IPOHG	Morningglory, entireleaf	Ipomoea hederacea integriuscul
6. VISCA	Viscum capitellatum	Viscum capitellatum
7. SORHA	Johnson grass	Sorghum halepense

Crop 1: COTTON & SOYBEAN Variety: DP164B2RF, DK4967RR
Planting Date: 2/May/2007

SITE AND DESIGN

Plot Width, Unit: 6.67 FT Plot Length, Unit: 25 FT Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 8 % OM: 0.75 Texture: SILTY CLAY LOAM
% Silt: 49 pH: 5.8
% Clay: 43 CEC: 17.3

APPLICATION DESCRIPTION

A
Application Date: 28/Nov/2006
Time of Day: 2:15 PM
Application Method: SPRAY
Application Timing: PREPLA
Applic. Placement: BROFOL
Air Temp., Unit: 76 F
% Relative Humidity: 63
Wind Velocity, Unit: 10.1 MPH
Dew Presence (Y/N): N
Water Hardness:
Soil Temp., Unit: 64 F
Soil Moisture: MOIST
% Cloud Cover: 20

WEED STAGE AT EACH APPLICATION

A
Weed 1 Code, Stage: LAMAM 1 LF
Stage Scale:
Density, Unit:
Weed 2 Code, Stage: POAAN 1 LF
Stage Scale:
Density, Unit:
Weed 3 Code, Stage: OEOLA 1 LF
Stage Scale:
Density, Unit:
Weed 4 Code, Stage: COPSS 1 LF
Stage Scale:
Density, Unit:
Weed 5 Code, Stage: IPOHG
Stage Scale:
Density, Unit:
Weed 6 Code, Stage: VISCA
Stage Scale:
Density, Unit:
Weed 7 Code, Stage: SORHA
Stage Scale:
Density, Unit:

APPLICATION EQUIPMENT

A

Appl. Equipment: TRACTOR
 Operating Pressure: 20 PSI
 Nozzle Type: DG
 Nozzle Size: 11002
 Nozzle Spacing, Unit: 20 IN
 Nozzles/Row: 2
 Band Width, Unit:
 Boom Length, Unit:
 Boom Height, Unit:
 Ground Speed, Unit: 3.11 MPH
 Incorporation Equip.:
 Hours to Incorp.:
 Incorp. Depth, Unit:
 Carrier: WATER
 Spray Volume, Unit: 15 GPA
 Spray pH:
 Propellant:
 Tank Mix (Y/N):

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Trial ID:	Study Dir.:											
Location:	Investigator: Donnie Miller											
Weed Code	LAMAM	POAAN	OEOLA	COPSS	LAMAM	POAAN	OEOLA	COPSS	LAMAM			
Crop Code												
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	%	%	%	%	%	%	%	%	%	%		
Rating Date	3/Jan/2007	3/Jan/2007	3/Jan/2007	3/Jan/2007	29/Jan/2007	29/Jan/2007	29/Jan/2007	29/Jan/2007	29/Jan/2007	6/Mar/2007		
Assessed By												
Trt-Eval Interval	36 DA-A	36 DA-A	36 DA-A	36 DA-A	62 DA-A	62 DA-A	62 DA-A	62 DA-A	62 DA-A	98 DA-A		
ARM Action Codes												
# Subsamples, Dec.												
Trt Treatment	Rate	Appl										
No. Name	Rate	Unit	Code	1	2	3	4	5	6	7	8	9
1 GOAL XL	16 oz/a	A		100.00 a	90.00 abc	100.00 a	100.00 a	93.75 ab	80.00 de	98.75 b	98.75 a	88.75 b
2 GOAL XL	24 oz/a	A		100.00 a	93.75 ab	100.00 a	100.00 a	100.00 a	97.50 a	100.00 a	100.00 a	100.00 a
3 GRASP	0.5 oz/a	A		93.75 bc	90.00 abc	97.50 b	100.00 a	90.00 bc	78.75 de	100.00 a	98.75 a	80.00 b
4 GRASP	1 oz/a	A		86.25 d	88.75 bc	100.00 a	100.00 a	85.00 c	83.75 cde	100.00 a	100.00 a	81.25 b
5 GRASP	2 oz/a	A		88.75 cd	88.75 bc	100.00 a	100.00 a	86.25 bc	85.00 cd	100.00 a	100.00 a	82.50 b
6 PYTHON	1 oz/a	A		95.00 ab	86.25 c	100.00 a	100.00 a	92.50 abc	75.00 e	100.00 a	100.00 a	88.75 b
7 FIRSTRATE	0.6 oz/a	A		100.00 a	91.25 abc	100.00 a	100.00 a	98.75 a	86.25 bcd	100.00 a	100.00 a	98.75 a
8 GOAL XL	16 oz/a	A		100.00 a	93.75 ab	100.00 a	100.00 a	100.00 a	91.25 abc	100.00 a	100.00 a	100.00 a
GRASP	1 oz/a	A										
9 GOAL XL	16 oz/a	A		100.00 a	95.00 a	100.00 a	100.00 a	98.75 a	95.00 ab	100.00 a	100.00 a	98.75 a
PYTHON	1 oz/a	A										
10 GOAL XL	16 oz/a	A		100.00 a	95.00 a	100.00 a	100.00 a	100.00 a	95.00 ab	100.00 a	100.00 a	100.00 a
FIRSTRATE	0.6 oz/a	A										
11 NONTREATED				0.00 e	0.00 d	0.00 c	0.00 b	0.00 d	0.00 f	0.00 c	0.00 b	0.00 c
LSD (P=.05)	5.759			5.759	6.214	2.177	0.000	7.909	9.363	1.088	1.460	9.145
Standard Deviation	3.989			3.989	4.304	1.508	0.000	5.477	6.484	0.754	1.011	6.334
CV	4.55			4.55	5.19	1.66	0.0	6.38	8.22	0.83	1.12	7.58
Grand Mean	87.61			87.61	82.95	90.68	90.91	85.91	78.86	90.8	90.68	83.52
Bartlett's X2	1.524			1.524	4.919	0.0	0.0	8.879	8.598	0.0	0.0	10.222
P(Bartlett's X2)	0.677			0.677	0.67	.	.	0.181	0.377	.	1.00	0.116
Replicate F	2.702			2.702	0.123	1.000	0.000	1.667	0.306	1.000	2.222	2.620
Replicate Prob(F)	0.0632			0.0632	0.9460	0.4064	1.0000	0.1952	0.8206	0.4064	0.1060	0.0689
Treatment F	218.543			218.543	165.221	1593.000	0.000	112.379	70.146	6385.001	3538.778	83.040
Treatment Prob(F)	0.0001			0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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			POAAN	OEOLA	COPSS	LAMAM	POAAN	OEOLA	COPSS	LAMAM	POAAN	
Weed Code												
Crop Code												
Rating Data Type	CONTROL											
Rating Unit	%											
Rating Date	6/Mar/2007 6/Mar/2007 6/Mar/2007 2/Apr/2007 2/Apr/2007 2/Apr/2007 2/Apr/2007 20/Apr/2007 20/Apr/2007											
Assessed By												
Trt-Eval Interval	98 DA-A 98 DA-A 98 DA-A 125 DA-A 125 DA-A 125 DA-A 125 DA-A 143 DA-A 143 DA-A											
ARM Action Codes												
# Subsamples, Dec.												
Trt Treatment												
No. Name	Rate	Appl	10	11	12	13	14	15	16	17	18	
	Unit	Code										
1	GOAL XL	16 oz/a	A	78.75 d	90.00 b	98.75 a	76.25 e	81.25 de	100.00 a	62.50 e	76.25 e	100.00 a
2	GOAL XL	24 oz/a	A	97.50 ab	96.25 a	100.00 a	90.00 bc	93.75 ab	98.75 a	72.50 cd	80.00 de	100.00 a
3	GRASP	0.5 oz/a	A	82.50 cd	90.00 b	96.25 b	80.00 de	83.75 cde	87.50 b	67.50 de	90.00 a-d	100.00 a
4	GRASP	1 oz/a	A	82.50 cd	97.50 a	100.00 a	80.00 de	87.50 bcd	98.75 a	76.25 c	95.00 abc	100.00 a
5	GRASP	2 oz/a	A	88.75 bc	100.00 a	100.00 a	87.50 cd	93.75 ab	100.00 a	88.75 b	96.25 ab	100.00 a
6	PYTHON	1 oz/a	A	77.50 d	100.00 a	100.00 a	85.00 cde	75.00 e	100.00 a	98.75 a	86.25 b-e	96.25 b
7	FIRSTRATE	0.6 oz/a	A	92.50 ab	100.00 a	100.00 a	97.50 ab	98.75 a	98.75 a	97.50 a	100.00 a	98.75 ab
8	GOAL XL	16 oz/a	A	95.00 ab	100.00 a	100.00 a	100.00 a	97.50 a	87.50 b	86.25 b	95.00 abc	100.00 a
	GRASP	1 oz/a	A									
9	GOAL XL	16 oz/a	A	98.75 a	100.00 a	100.00 a	93.75 abc	100.00 a	96.25 a	96.25 a	85.00 cde	100.00 a
	PYTHON	1 oz/a	A									
10	GOAL XL	16 oz/a	A	96.25 ab	100.00 a	100.00 a	100.00 a	92.50 abc	95.00 ab	96.25 a	98.75 a	98.75 ab
	FIRSTRATE	0.6 oz/a	A									
11	NONTREATED			0.00 e	0.00 c	0.00 c	0.00 f	0.00 f	0.00 c	0.00 f	0.00 f	0.00 c
LSD (P=.05)				8.887	5.189	2.266	9.771	9.350	7.808	7.398	10.318	3.686
Standard Deviation				6.155	3.594	1.569	6.767	6.475	5.408	5.123	7.146	2.552
CV				7.61	4.06	1.73	8.36	7.88	6.18	6.69	8.71	2.83
Grand Mean				80.91	88.52	90.45	80.91	82.16	87.5	76.59	82.05	90.34
Bartlett's X2				14.075	1.733	1.168	15.789	8.28	11.916	9.115	14.107	4.968
P(Bartlett's X2)				0.08	0.63	0.28	0.027*	0.407	0.064	0.427	0.049*	0.083
Replicate F				0.120	0.161	1.846	3.739	2.073	1.684	0.317	0.608	0.552
Replicate Prob(F)				0.9476	0.9215	0.1601	0.0215	0.1248	0.1915	0.8126	0.6148	0.6505
Treatment F				82.272	271.628	1464.323	68.841	76.675	118.150	123.528	62.653	552.000
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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

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			OEOLA	IPOHG	COPSS	VICSA	SORHA	GOSHI	GLXMA	GLXMA	GLXMA	
Weed Code												
Crop Code												
Rating Data Type	CONTROL											
Rating Unit	%											
Rating Date	20/Apr/2007 20/Apr/2007 20/Apr/2007 20/Apr/2007 20/Apr/2007 9/May/2007 9/May/2007 17/May/2007 17/May/2007											
Assessed By												
Trt-Eval Interval	143 DA-A 143 DA-A 143 DA-A 143 DA-A 143 DA-A 7 DAP 7 DAP 15 DAP 15 DAP											
ARM Action Codes												
# Subsamples, Dec.												
Trt Treatment												
No. Name	Rate	Appl	19	20	21	22	23	24	25	26	27	
	Unit	Code										
1	GOAL XL	16 oz/a	A	100.00 a	95.00 a	45.00 g	87.50 a	77.50 a	10.00 b	0.00 a	5.13 a	4.63 a
2	GOAL XL	24 oz/a	A	98.75 a	97.50 a	51.25 g	100.00 a	60.00 ab	12.50 b	0.00 a	4.75 a	4.50 a
3	GRASP	0.5 oz/a	A	82.50 b	97.50 a	60.00 f	85.00 a	66.25 ab	6.25 b	0.00 a	4.38 a	4.38 a
4	GRASP	1 oz/a	A	96.25 ab	92.50 a	75.00 e	80.00 a	70.00 ab	8.75 b	1.25 a	5.38 a	5.38 a
5	GRASP	2 oz/a	A	100.00 a	98.75 a	85.00 cd	100.00 a	68.75 ab	2.50 b	0.00 a	4.75 a	4.88 a
6	PYTHON	1 oz/a	A	100.00 a	96.25 a	96.25 ab	95.00 a	73.75 ab	31.25 a	0.00 a	4.88 a	5.00 a
7	FIRSTRATE	0.6 oz/a	A	98.75 a	97.50 a	100.00 a	100.00 a	80.00 a	3.75 b	0.00 a	5.13 a	4.50 a
8	GOAL XL	16 oz/a	A	81.25 b	95.00 a	78.75 de	100.00 a	68.75 ab	11.25 b	0.00 a	4.25 a	5.25 a
	GRASP	1 oz/a	A									
9	GOAL XL	16 oz/a	A	96.25 ab	93.75 a	96.25 ab	96.25 a	51.25 b	40.00 a	0.00 a	5.50 a	5.50 a
	PYTHON	1 oz/a	A									
10	GOAL XL	16 oz/a	A	87.50 ab	96.25 a	90.00 bc	100.00 a	68.75 ab	3.75 b	0.00 a	5.25 a	5.00 a
	FIRSTRATE	0.6 oz/a	A									
11	NONTREATED			0.00 c	0.00 b	0.00 h	0.00 b	0.00 c	0.00 b	0.00 a	5.25 a	5.75 a
LSD (P=.05)				15.219	7.382	8.725	22.596	26.002	15.634	1.088	1.022	1.080
Standard Deviation				10.540	5.112	6.043	15.649	18.008	10.828	0.754	0.708	0.748
CV				12.32	5.86	8.55	18.24	28.92	91.62	663.33	14.26	15.02
Grand Mean				85.57	87.27	70.68	85.8	62.27	11.82	0.11	4.97	4.98
Bartlett's X2				18.938	5.348	12.065	7.084	9.992	18.798	0.0	10.676	5.841
P(Bartlett's X2)				0.004*	0.803	0.148	0.132	0.351	0.027*	.	0.383	0.828
Replicate F				0.932	1.797	0.726	0.132	1.603	0.982	1.000	1.100	0.881
Replicate Prob(F)				0.4371	0.1690	0.5444	0.9401	0.2095	0.4143	0.4064	0.3645	0.4621

Treatment F	30.799	128.739	98.328	14.049	6.024	5.367	1.000	1.299	1.472
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.4654	0.2752	0.1986

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code	Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GOSHI	GOSHI	GOSHI	GOSHI	
Rating Data Type	CROP HT	CROP HT	CROP HT	AVG CROP HT	CROP HT	CROP HT	CROP HT	CROP HT	CROP HT	
Rating Unit	CM	CM	CM	CM	CM	CM	CM	CM	CM	
Rating Date	17/May/2007	17/May/2007	17/May/2007	17/May/2007	17/May/2007	17/May/2007	17/May/2007	17/May/2007	17/May/2007	
Assessed By										
Trt-Eval Interval	15 DAP	15 DAP	15 DAP	15 DAP	15 DAP	15 DAP	15 DAP	15 DAP	15 DAP	
ARM Action Codes	T1									
# Subsamples, Dec.										
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code	28	29	30	31	32	33	34	35
1 GOAL XL	16 oz/a	A	4.50 a	4.75 a	4.63 a	4.73 a	5.75 a	5.88 a	6.25 a	5.38 cd
2 GOAL XL	24 oz/a	A	5.13 a	4.88 a	5.00 a	4.85 a	5.25 a	6.00 a	6.88 a	5.50 bcd
3 GRASP	0.5 oz/a	A	5.00 a	5.00 a	4.75 a	4.70 a	6.13 a	5.88 a	5.75 a	6.50 abc
4 GRASP	1 oz/a	A	5.25 a	4.88 a	4.88 a	5.15 a	6.38 a	6.00 a	6.25 a	6.63 abc
5 GRASP	2 oz/a	A	5.63 a	4.75 a	5.00 a	5.00 a	6.88 a	6.50 a	6.00 a	6.50 abc
6 PYTHON	1 oz/a	A	5.38 a	5.38 a	5.13 a	5.15 a	4.88 a	4.38 b	5.38 a	5.00 cd
7 FIRSTRATE	0.6 oz/a	A	5.00 a	4.63 a	5.00 a	4.85 a	7.38 a	6.00 a	6.63 a	7.38 a
8 GOAL XL	16 oz/a	A	4.88 a	5.13 a	4.75 a	4.85 a	6.50 a	5.50 ab	5.75 a	5.13 cd
GRASP	1 oz/a	A								
9 GOAL XL	16 oz/a	A	5.25 a	5.25 a	5.25 a	5.35 a	4.63 a	4.25 b	4.75 a	4.50 d
PYTHON	1 oz/a	A								
10 GOAL XL	16 oz/a	A	5.63 a	5.38 a	5.13 a	5.28 a	5.63 a	6.38 a	6.25 a	6.63 abc
FIRSTRATE	0.6 oz/a	A								
11 NONTREATED			5.13 a	5.13 a	4.63 a	5.18 a	6.50 a	6.00 a	5.88 a	7.13 ab
LSD (P=.05)			1.160	1.239	0.854	0.548	1.703	1.272	1.704	1.663
Standard Deviation			0.804	0.858	0.591	0.380	1.180	0.881	1.180	1.152
CV			15.58	17.12	12.02	7.58	19.7	15.45	19.74	19.12
Grand Mean			5.16	5.01	4.92	5.01	5.99	5.7	5.98	6.02
Bartlett's X2			13.016	10.525	6.638	14.98	2.815	3.848	9.806	10.778
P(Bartlett's X2)			0.223	0.396	0.759	0.133	0.985	0.954	0.458	0.375
Replicate F			0.387	0.440	0.190	0.737	1.931	1.376	5.141	2.976
Replicate Prob(F)			0.7631	0.7262	0.9026	0.5380	0.1458	0.2692	0.0055	0.0472
Treatment F			0.660	0.364	0.510	1.405	2.079	2.789	0.986	2.741
Treatment Prob(F)			0.7513	0.9527	0.8692	0.2254	0.0594	0.0145	0.4762	0.0159

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Column 31: T1 = @AVG([C26].[C30])

LSU Northeast Research Station

Weed Code	Crop Code	GOSHI	GOSHI	GLXMA	GOSHI	GLXMA	GLXMA	GLXMA	GLXMA	
Rating Data Type	CROP HT	AVG CROP HT	INJURY	INJURY	CROP HTS	CROP HTS	CROP HTS	CROP HTS	CROP HTS	
Rating Unit	CM	CM	%	%	CM	CM	CM	CM	CM	
Rating Date	17/May/2007	17/May/2007	18/May/2007	18/May/2007	30/May/2007	30/May/2007	30/May/2007	30/May/2007	30/May/2007	
Assessed By										
Trt-Eval Interval	15 DAP	15 DAP	15 DAP	15 DAP	28 DAP	28 DAP	28 DAP	28 DAP	28 DAP	
ARM Action Codes	T2									
# Subsamples, Dec.										
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code	36	37	38	39	40	41	42	43
1 GOAL XL	16 oz/a	A	5.25 cde	5.70 cd	0.00 a	5.00 bcd	9.00 a	10.50 a	8.50 d	10.00 a
2 GOAL XL	24 oz/a	A	6.13 b-e	5.95 abc	0.00 a	15.00 abc	12.00 a	12.25 a	12.75 abc	10.25 a
3 GRASP	0.5 oz/a	A	5.38 cde	5.93 abc	0.00 a	3.75 bcd	8.50 a	12.50 a	11.75 bcd	11.00 a
4 GRASP	1 oz/a	A	7.25 ab	6.50 abc	0.00 a	3.75 bcd	11.50 a	12.50 a	10.75 bcd	11.50 a
5 GRASP	2 oz/a	A	8.00 a	6.78 ab	0.00 a	2.50 cd	10.25 a	11.75 a	11.75 bcd	13.75 a
6 PYTHON	1 oz/a	A	5.00 de	4.93 de	0.00 a	17.50 ab	11.00 a	10.25 a	9.25 cd	11.25 a
7 FIRSTRATE	0.6 oz/a	A	7.00 abc	6.88 a	0.00 a	3.75 bcd	13.50 a	14.00 a	15.50 a	14.50 a
8 GOAL XL	16 oz/a	A	6.25 a-d	5.83 bcd	0.00 a	3.75 bcd	8.75 a	11.50 a	9.75 cd	11.25 a
GRASP	1 oz/a	A								
9 GOAL XL	16 oz/a	A	4.38 e	4.50 e	0.00 a	26.25 a	14.00 a	13.75 a	13.75 ab	16.25 a
PYTHON	1 oz/a	A								
10 GOAL XL	16 oz/a	A	6.38 a-d	6.25 abc	0.00 a	3.75 bcd	12.75 a	13.50 a	12.75 abc	11.25 a
FIRSTRATE	0.6 oz/a	A								
11 NONTREATED			6.88 abc	6.48 abc	0.00 a	0.00 d	11.25 a	11.25 a	13.50 ab	11.50 a
LSD (P=.05)			1.754	0.974	0.000	14.654	3.917	3.403	3.726	4.685

Standard Deviation	1.215	0.675	0.000	10.149	2.713	2.357	2.580	3.244
CV	19.68	11.29	0.0	131.33	24.36	19.39	21.83	26.93
Grand Mean	6.17	5.97	0.0	7.73	11.14	12.16	11.82	12.05
Bartlett's X2	5.375	10.638	0.0	42.953	17.479	18.508	14.319	3.103
P(Bartlett's X2)	0.865	0.386	.	0.001*	0.064	0.047*	0.159	0.979
Replicate F	1.000	4.229	0.000	1.206	0.416	3.364	2.868	0.371
Replicate Prob(F)	0.4064	0.0132	1.0000	0.3244	0.7429	0.0315	0.0530	0.7742
Treatment F	3.205	4.773	0.000	2.583	1.918	1.136	2.697	1.429
Treatment Prob(F)	0.0065	0.0004	1.0000	0.0217	0.0821	0.3694	0.0173	0.2155

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Column 37: T2 = @AVG([C32].[C36])

LSU Northeast Research Station

Weed Code		GLXMA	GLXMA	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Crop Code		CROP HTS	AVG CROP HT	CROP HTS	CROP HTS	CROP HTS	CROP HTS	CROP HTS	AVG CROP HT
Rating Data Type		CM	CM	CM	CM	CM	CM	CM	CM
Rating Unit		30/May/2007	30/May/2007	30/May/2007	30/May/2007	30/May/2007	30/May/2007	30/May/2007	30/May/2007
Rating Date									
Assessed By									
Trt-Eval Interval		28 DAP	28 DAP	28 DAP	28 DAP	28 DAP	28 DAP	28 DAP	28 DAP
ARM Action Codes			T3						T4
# Subsamples, Dec.									
Trt Treatment	Rate Appl								
No. Name	Rate Unit Code	44	45	46	47	48	49	50	51
1 GOAL XL	16 oz/a A	10.50 a	9.70 a	11.25 a	10.50 a	10.25 a	11.50 a	9.25 bcd	10.55 cd
2 GOAL XL	24 oz/a A	11.00 a	11.65 a	9.00 a	11.50 a	11.50 a	9.25 a	10.00 bcd	10.25 cd
3 GRASP	0.5 oz/a A	9.50 a	10.65 a	13.75 a	11.00 a	12.25 a	9.75 a	12.50 a-d	11.85 bcd
4 GRASP	1 oz/a A	9.75 a	11.20 a	12.25 a	11.25 a	12.50 a	12.25 a	13.25 abc	12.30 bcd
5 GRASP	2 oz/a A	10.50 a	11.60 a	18.00 a	15.00 a	17.75 a	13.00 a	16.75 a	16.10 a
6 PYTHON	1 oz/a A	13.25 a	11.00 a	14.75 a	12.25 a	12.25 a	15.00 a	15.50 ab	13.95 abc
7 FIRSTRATE	0.6 oz/a A	14.50 a	14.40 a	13.25 a	15.50 a	15.00 a	14.75 a	13.50 abc	14.40 ab
8 GOAL XL	16 oz/a A	12.75 a	10.80 a	11.50 a	14.00 a	12.25 a	8.75 a	6.25 d	10.55 cd
GRASP	1 oz/a A								
9 GOAL XL	16 oz/a A	13.00 a	14.15 a	9.75 a	10.00 a	9.75 a	10.50 a	7.75 cd	9.55 d
PYTHON	1 oz/a A								
10 GOAL XL	16 oz/a A	12.50 a	12.55 a	13.00 a	10.50 a	13.50 a	12.50 a	10.00 bcd	11.90 bcd
FIRSTRATE	0.6 oz/a A								
11 NONTREATED		12.25 a	11.95 a	14.25 a	12.25 a	10.00 a	8.75 a	9.00 cd	10.85 bcd
LSD (P=.05)		4.669	3.134	5.934	5.572	5.579	5.772	6.259	3.753
Standard Deviation		3.234	2.170	4.110	3.859	3.864	3.997	4.335	2.599
CV		27.47	18.41	32.12	31.74	31.02	34.9	38.53	21.62
Grand Mean		11.77	11.79	12.8	12.16	12.45	11.45	11.25	12.02
Bartlett's X2		4.286	18.992	6.018	9.65	8.952	4.223	8.688	14.566
P(Bartlett's X2)		0.934	0.04*	0.814	0.472	0.537	0.937	0.562	0.149
Replicate F		0.710	0.925	0.780	0.616	4.636	1.673	0.159	1.715
Replicate Prob(F)		0.5537	0.4409	0.5145	0.6100	0.0088	0.1938	0.9229	0.1851
Treatment F		0.992	1.755	1.474	0.951	1.470	1.273	2.307	2.432
Treatment Prob(F)		0.4716	0.1138	0.1978	0.5034	0.1993	0.2889	0.0376	0.0293

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Column 45: T3 = @AVG([40].[44])
Column 51: T4 = @AVG([46].[50])

LSU Northeast Research Station

Weed Code		GOSHI	GLXMA	GLXMA	GOSHI	GLXMA	GLXMA	GLXMA	GOSHI
Crop Code		INJURY	INJURY	AVG CROP HT	AVG CROP HT	YIELD	MOISTURE	YIELD	YIELDw/bag
Rating Data Type		%	%	CM	CM	LB	%	BU/A	LB
Rating Unit									
Rating Date		30/May/2007	30/May/2007	27/Jun/2007	27/Jun/2007	17/Sep/2007	17/Sep/2007	17/Sep/2007	7/Nov/2007
Assessed By								1ROW	
Trt-Eval Interval		28 DAP	28 DAP	56 DAP	56 DAP	293 DA-A	293 DA-A	293 DA-A	344 DA-A
ARM Action Codes								TY7	
# Subsamples, Dec.								1	
Trt Treatment	Rate Appl								
No. Name	Rate Unit Code	52	53	54	55	56	57	58	59
1 GOAL XL	16 oz/a A	0.00 a	0.00 a	40.90 cde	42.05 cd	3.83 a	26.10 a	28.7 ab	8.18 a
2 GOAL XL	24 oz/a A	0.00 a	0.00 a	46.10 bcd	45.35 cd	3.80 a	32.25 a	23.6 abc	8.30 a
3 GRASP	0.5 oz/a A	0.00 a	0.00 a	37.45 de	37.60 d	3.70 a	42.45 a	22.4 abc	7.60 a
4 GRASP	1 oz/a A	0.00 a	0.00 a	48.70 a-d	47.25 bcd	3.73 a	36.07 a	24.5 abc	9.93 a
5 GRASP	2 oz/a A	0.00 a	0.00 a	56.45 ab	64.10 a	4.33 a	36.85 a	27.6 ab	9.55 a
6 PYTHON	1 oz/a A	0.00 a	0.00 a	50.70 abc	53.75 abc	4.55 a	46.45 a	35.8 a	5.85 a

7 FIRSTRATE	0.6 oz/a	A	0.00 a	0.00 a	58.90 a	62.45 ab	4.68 a	23.48 a	35.9 a	9.65 a
8 GOAL XL	16 oz/a	A	0.00 a	0.00 a	42.20 cde	46.30 cd	3.45 a	46.13 a	18.5 bc	7.68 a
GRASP	1 oz/a	A								
9 GOAL XL	16 oz/a	A	0.00 a	0.00 a	45.75 b-e	46.35 cd	5.23 a	32.10 a	35.5 a	7.60 a
PYTHON	1 oz/a	A								
10 GOAL XL	16 oz/a	A	0.00 a	0.00 a	47.70 a-d	48.60 a-d	5.08 a	47.05 a	29.2 ab	8.45 a
FIRSTRATE	0.6 oz/a	A								
11 NONTREATED			0.00 a	0.00 a	34.55 e	34.60 d	2.10 a	59.65 a	10.1 c	7.18 a
LSD (P=.05)			0.000	0.000	11.419	15.679	1.753	35.353	15.34	2.629
Standard Deviation			0.000	0.000	7.909	10.859	1.208	24.365	10.53	1.821
CV			0.0	0.0	17.08	22.61	29.9	62.54	39.74	22.27
Grand Mean			0.0	0.0	46.31	48.04	4.04	38.96	26.5	8.18
Bartlett's X2			0.0	0.0	16.868	6.394	4.99	20.689	3.988	6.32
P(Bartlett's X2)			.	.	0.077	0.781	0.892	0.023*	0.948	0.788
Replicate F			0.000	0.000	3.004	0.092	0.101	0.493	0.030	0.168
Replicate Prob(F)			1.0000	1.0000	0.0459	0.9637	0.9588	0.6903	0.9929	0.9168
Treatment F			0.000	0.000	3.527	2.842	2.094	0.757	2.271	1.754
Treatment Prob(F)			1.0000	1.0000	0.0036	0.0130	0.0618	0.6671	0.0469	0.1140

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Column 58: TY7 = 8.720721*[56]*(100-@MVAVGREP([57]))/87

LSU Northeast Research Station

Weed Code
Crop Code GOSHI GOSHI
Rating Data Type YIELDw/obag YIELD
Rating Unit LB LB/A
Rating Date 7/Nov/2007 7/Nov/2007
Assessed By BAG=0.4LB 1ROW
Trt-Eval Interval 344 DA-A 344 DA-A
ARM Action Codes T5 TY6
Subsamples, Dec. 1

Trt	Treatment	Rate	Appl		
No.	Name	Rate	Unit	Code	
				60	61
1	GOAL XL	16 oz/a	A	7.78 a	4068.2 a
2	GOAL XL	24 oz/a	A	7.90 a	4133.6 a
3	GRASP	0.5 oz/a	A	7.20 a	3767.4 a
4	GRASP	1 oz/a	A	9.53 a	4229.1 a
5	GRASP	2 oz/a	A	9.15 a	4787.7 a
6	PYTHON	1 oz/a	A	5.45 a	2851.7 a
7	FIRSTRATE	0.6 oz/a	A	9.25 a	4840.0 a
8	GOAL XL	16 oz/a	A	7.28 a	3806.6 a
	GRASP	1 oz/a	A		
9	GOAL XL	16 oz/a	A	7.20 a	3767.4 a
	PYTHON	1 oz/a	A		
10	GOAL XL	16 oz/a	A	8.05 a	4212.1 a
	FIRSTRATE	0.6 oz/a	A		
11	NONTREATED			6.78 a	3545.0 a
LSD (P=.05)				2.629	1231.10
Standard Deviation				1.821	851.36
CV				23.41	21.28
Grand Mean				7.78	4000.79
Bartlett's X2				6.32	8.734
P(Bartlett's X2)				0.788	0.558
Replicate F				0.168	0.292
Replicate Prob(F)				0.9168	0.8308
Treatment F				1.754	1.720
Treatment Prob(F)				0.1140	0.1235

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Column 60: T5 = ([59])-0.4

Column 61: TY6 = 523.2432*[60]