

SOYBEAN NO-TILL BURNDOWN

Trial ID: 04NTS2 Study Dir.: Anthony F. Dobbels
Location: WESTERN BRANCH F-9 Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

Study Director: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	SENGL Groundsel, cressleaf	Senecio glabellus
2.	STEME Common chickweed	Stellaria media
3.	TAROF Common dandelion	Taraxacum officinale
4.	AMBTR Giant ragweed	Ambrosia trifida
5.	CHEAL Common lambsquarters	Chenopodium album
6.	SETFA Giant foxtail	Setaria faberi
7.	ABUTH Velvetleaf	Abutilon theophrasti
8.	AMBEL Ragweed, common	Ambrosia artemisiifolia

Crop 1: GLXMA SOYBEAN Variety: SEED CONSULTANTS SC9333
Planting Date: 4-28-04 Planting Method: JOHN DEERE 7200
Rate: 155000 SEED/A Depth: 0.5 IN
Row Spacing: 30 IN Seed Bed: NO-TILL

SITE AND DESIGN

Plot Width, Unit: 6.67 FT Plot Length, Unit: 30 FT Reps: 3
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% OM: 3.2 Texture: silt loam
pH: 6.4 Soil Name: Crosby
CEC: 15

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	4-22-04	4-29-04	6-3-04	6-10-04
Time of Day:	11:30 A.M	8:00 P.M.	9:00 A.M.	10:00 A.M
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	7 EPP	PRE	POST	POST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	58 F	66 F	59 F	71 F
% Relative Humidity:	70	62	77	76
Wind Velocity, Unit:	3 E	5 S	3 W	8 S
Soil Temp., Unit:	53 F	60 F	59 F	70 F
Soil Moisture:	MOIST/WET	DRY/MOIST	DRY/MOIST	DRY/MOIST
% Cloud Cover:	100	50	25	25

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GLXMA	GLXMA	GLXMA	GLXMA
Stage Scale:			2 TRI	4 TRI
Height, Unit:			6 IN	8 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	SENGL 2-3"	SENGL 3-4"	SENGL	SENGL
Stage Scale:	10 LVS	>12 LVS		
Density, Unit:	2 M2	2 M2		
Weed 2 Code, Stage:	STEME 12"	STEME >12"	STEME	STEME
Stage Scale:	>12 LVS	>12 LVS		
Density, Unit:	9.3 M2	9.3 M2		
Weed 3 Code, Stage:	TAROF 12"	TAROF 12"	TAROF	TAROF
Stage Scale:	>12 LVS	>12 LVS		
Density, Unit:	.3 M2	.3 M2		
Weed 4 Code, Stage:	AMBTR 2"	AMBTR 4-6"	AMBTR 4-8"	AMBTR
Stage Scale:	2 LVS	4 LVS	8 LVS	
Density, Unit:	11.6 M2	11.6 M2		
Weed 5 Code, Stage:	CHEAL 1"	CHEAL 2-3"	CHEAL 2-4"	CHEAL
Stage Scale:	4 LVS	8 LVS	6 LVS	
Density, Unit:	3 M2	3 M2	3 M2	
Weed 6 Code, Stage:	SETFA	SETFA	SETFA 4-6"	SETFA 6-8"
Stage Scale:			3 LVS	4 LVS
Density, Unit:			64 M2	64 M2
Weed 7 Code, Stage:	ABUTH	ABUTH	ABUTH 2"	ABUTH
Stage Scale:			3 LVS	
Density, Unit:			0.5 M2	
Weed 8 Code, Stage:	AMBEL	AMBEL	AMBEL 3-4"	AMBEL
Stage Scale:			8 LVS	
Density, Unit:			6 M2	

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	50	50	50	50
Nozzle Type:	DG	DG	DG	DG
Nozzle Size:	11002	11002	11002	11002
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA
Propellant:	CO2	CO2	CO2	CO2

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Weed Code	AMBTR	GLXMA	SETFA	AMBTR	AMBEL	CHEAL	GLXMA	SETFA
Crop Code	CONTROL	PHYTO	CONTROL	CONTROL	CONTROL	CONTROL	PHYTO	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	5-21-04	6-1-04	6-1-04	6-1-04	6-1-04	6-1-04	6-17-04	6-17-04
Rating Date	29 DA-A	AT POST	AT POST	AT POST	AT POST	AT POST	14 DA-C	14 DA-C
Trt-Eval Interval	0	0	0	0	0	0	0	0
# Subsamples, Dec.								

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	9	10	11	12	13	14	15	16
15	BOUNDARY	1.5	pt/a	PRE	B	86	0	77	72	100	98	0	97
15	TOUCHDOWN TOTAL	24	oz/a	PRE									
15	AMS	4	qt/a	PRE									
15	FLEXSTAR	1.25	pt/a	POST	C								
15	FUSION	8	oz/a	POST									
15	COC	0.8	qt/a	POST									
15	28 %	1.2	qt/a	POST									
16	BOUNDARY	2.1	pt/a	PRE	B	37	0	91	0	83	67	0	82
16	FLEXSTAR	1.25	pt/a	POST	C								
16	COC	1.2	qt/a	POST									
17	CANOPY XL 2.5 OZ/A					37	0	27	8	50	50	0	100
17	CLASSIC	0.96	oz/a	PRE	B								
17	AUTHORITY	1.55	oz/a	PRE									
17	COC	0.8	qt/a	PRE									
17	ROUNDUP WEATHERMAX	22	oz/a	POST	C								
17	AMS	4	qt/a	POST									
18	UTC					0	0	0	0	0	0	0	0
LSD (P=.05)						15.7	0.0	20.9	30.1	35.6	33.4	0.0	5.4
Standard Deviation						9.4	0.0	12.5	18.0	21.0	20.0	0.0	3.3
CV						12.07	0.0	24.18	32.47	27.91	24.61	0.0	3.74
Replicate F						2.259	0.000	3.106	0.155	5.637	0.648	0.000	0.633
Replicate Prob(F)						0.1209	1.0000	0.0581	0.8572	0.0106	0.5295	1.0000	0.5372
Treatment F						25.612	0.000	19.174	9.252	4.152	5.680	0.000	158.145
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001	0.0011	0.0001	1.0000	0.0001

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Weed Code	AMBEL	AMBTR	CHEAL	GLXMA	SETFA	AMBEL	AMBTR	CHEAL
Crop Code	CONTROL	CONTROL	CONTROL	PHYTO	PHYTO	PHYTO	PHYTO	PHYTO
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	6-17-04	6-17-04	6-17-04	6-29-04	6-29-04	6-29-04	6-29-04	6-29-04
Rating Date	14 DA-C	14 DA-C	14 DA-C	26 DA-C	26 DA-C	26 DA-C	26 DA-C	26 DA-C
Trt-Eval Interval	0	0	0	0	0	0	0	0
# Subsamples, Dec.								

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	17	18	19	20	21	22	23	24
15	BOUNDARY	1.5	pt/a	PRE	B	100	95	100	0	82	100	88	100
15	TOUCHDOWN TOTAL	24	oz/a	PRE									
15	AMS	4	qt/a	PRE									
15	FLEXSTAR	1.25	pt/a	POST	C								
15	FUSION	8	oz/a	POST									
15	COC	0.8	qt/a	POST									
15	28 %	1.2	qt/a	POST									
16	BOUNDARY	2.1	pt/a	PRE	B	100	50	60	0	80	100	50	97
16	FLEXSTAR	1.25	pt/a	POST	C								
16	COC	1.2	qt/a	POST									
17	CANOPY XL 2.5 OZ/A					100	85	100	0	80	100	96	100
17	CLASSIC	0.96	oz/a	PRE	B								
17	AUTHORITY	1.55	oz/a	PRE									
17	COC	0.8	qt/a	PRE									
17	ROUNDUP WEATHERMAX	22	oz/a	POST	C								
17	AMS	4	qt/a	POST									
18	UTC					0	0	0	0	0	0	0	0
LSD (P=.05)						16.3	13.9	6.4	0.0	8.0	12.3	11.4	5.3
Standard Deviation						9.8	8.3	3.8	0.0	4.8	7.4	6.8	3.2
CV						10.86	10.37	4.19	0.0	6.26	8.26	8.43	3.43
Replicate F						3.708	0.858	0.032	0.000	1.337	4.438	0.266	0.588
Replicate Prob(F)						0.0356	0.4333	0.9689	1.0000	0.2766	0.0196	0.7681	0.5613
Treatment F						17.537	24.490	125.400	0.000	62.752	31.438	37.895	161.636
Treatment Prob(F)						0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001