

SOYBEAN CORN SYSTEMS STUDY CORN TREATMENTS

Trial ID: 04SYSCORNNW Study Dir.: Anthony F. Dobbels
Location: NORTHWEST A-1 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.	AMBEL RAGWEED, COMMON	AMBROSIA ELATIOR L.
2.	CHEAL LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	ABUTH Velvetleaf	Abutilon theophrasti
4.	POLPY Pennsylvania smartweed	Polygonum pennsylvanicum
5.	HIBTR Mallow, Venice	Hibiscus trionum

Crop 1: ZEAMX ROUNDUP READY CORN Variety: DEKALB DKC 60-09 RR
Planting Date: 4-19-04 Planting Method: JOHN DEERE 7000
Rate: 30813 SEED/A Depth: 1.5 IN
Row Spacing: 30 IN Seed Bed: CONVENTIONAL

Crop 2: ZEAMX LIBERTY LINK CORN Variety: PIONEER 34M92 LL
Planting Date: 4-19-04 Planting Method: JOHN DEERE 7000
Rate: 30813 SEED/A Depth: 1.5 IN
Row Spacing: 30 IN Seed Bed: CONVENTIONAL

Crop 3: ZEAMX CLEARFIELD CORN Variety: SEED CONSULTANTS SC10C82
Planting Date: 4-19-04 Planting Method: JOHN DEERE 7000
Rate: 30813 SEED/A Depth: 1.5 IN
Row Spacing: 30 IN Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 40 FT Reps: 4
Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% OM: 3.7 Texture: CLAY
pH: 6.6 Soil Name: HOYTVILLE
CEC: 19.5

APPLICATION DESCRIPTION

	A	B	C
Application Date:	4-20-04	5-25-04	6-4-04
Time of Day:	8:00 A.M.	9:00 A.M.	10:00 A.M.
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EPO	POST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	45 F	62 F	65 F
% Relative Humidity:	75	72	60
Wind Velocity, Unit:	9 E	6 S	6 E
Soil Temp., Unit:	48 F	59 F	65 F
Soil Moisture:	DRY/DRY	MOIST/WET	DRY/MOIST
% Cloud Cover:	100	70	0

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX	ZEAMX	ZEAMX
Stage Scale:		4 COLLAR	5 COLLAR
Height, Unit:		9 IN	12 IN
Crop 2 Code, Stage:	ZEAMX	ZEAMX	ZEAMX
Stage Scale:		4 COLLAR	5 COLLAR
Height, Unit:		9 IN	12 IN
Crop 3 Code, Stage:	ZEAMX	ZEAMX	ZEAMX
Stage Scale:		4 COLLAR	5 COLLAR
Height, Unit:		9 IN	12 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	AMBEL	AMBEL 1-2"	AMBEL 1-2"
Stage Scale:		4 LVS	4 LVS
Weed 2 Code, Stage:	CHEAL	CHEAL 1-2"	CHEAL 2"
Stage Scale:		6 LVS	6 LVS
Weed 3 Code, Stage:	ABUTH	ABUTH 1-2"	ABUTH 1"
Stage Scale:		3 LVS	2 LVS
Weed 4 Code, Stage:	POLPY	POLPY 2-3"	POLPY 3-4"
Stage Scale:		7 LVS	8 LVS
Weed 5 Code, Stage:	HIBTR	HIBTR	HIBTR 1"
Stage Scale:			2 LVS

APPLICATION EQUIPMENT

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

(04SYSCORNNW)

Ohio State University
Horticulture and Crop Science

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Location: NORTHWEST A-1 Investigator: Dr. Mark M. Loux

Weed Code	SETLU	AMBEL	CHEAL	HIBTR	SETLU	AMBEL	CHEAL	HIBTR
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	6-4-04	6-4-04	6-4-04	6-4-04	6-18-04	6-18-04	6-18-04	6-18-04
Trt-Eval Interval	AT POST	AT POST	AT POST	AT POST	14 DA-C	14 DA-C	14 DA-C	14 DA-C
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7	8
1	DEGREE XTRA	1.49	qt/a	PRE	A	100	94	75	95	100	100	100	100
1	ROUNDUP WEATHERMAX	21.3	oz/a	POST	C								
1	AMS	4	qt/a	POST									
2	GUARDSMAN MAX	1	qt/a	PRE	A	100	95	100	95	100	100	100	100
2	STEADFAST ATZ	14	oz/a	POST	C								
2	CLARITY	4	oz/a	POST									
2	COC	1	% v/v	POST									
2	28%	4	qt/a	POST									
3	ATRAZINE	1	qt/a	PRE	A	100	97	100	100	100	100	100	100
3	LIGHTNING	1.28	oz/a	EPO	B								
3	DISTINCT	2	oz/a	EPO									
3	NIS	0.25	% v/v	EPO									
3	28%	4	qt/a	EPO									
4	FULTIME	3.5	qt/a	PRE	A	100	98	100	96	100	100	100	100
4	ACCENT	0.66	oz/a	SCOUT	C								
4	HORNET	3	oz/a	SCOUT									
4	COC	1	% v/v	SCOUT									
4	28%	4	qt/a	SCOUT									
5	DUAL II MAGNUM	1.66	pt/a	PRE	A	100	100	100	100	100	100	100	100
5	MARKSMAN	3.5	pt/a	EPO	B								
6	BALANCE PRO	1.5	oz/a	PRE	A	86	98	75	78	89	100	100	100
6	LIBERTY	32	oz/a	POST	C								
6	ATRAZINE	1.5	qt/a	POST									
6	AMS	4	qt/a	POST									
LSD (P=.05)						4.6	7.1	25.1	12.0	3.9	0.0	0.0	0.0
Standard Deviation						3.1	4.7	16.7	8.0	2.6	0.0	0.0	0.0
CV						3.13	4.86	18.18	8.47	2.62	0.0	0.0	0.0
Replicate F						1.000	0.443	1.000	5.768	1.000	0.000	0.000	0.000
Replicate Prob(F)						0.4199	0.7260	0.4199	0.0079	0.4199	1.0000	1.0000	1.0000
Treatment F						13.444	0.887	2.400	4.442	12.789	0.000	0.000	0.000
Treatment Prob(F)						0.0001	0.5139	0.0866	0.0111	0.0001	1.0000	1.0000	1.0000

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Weed Code		SETLU	AMBEL	CHEAL	HIBTR				
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT				
Rating Date		7-2-04	7-2-04	7-2-04	7-2-04				
Trt-Eval Interval		28 DA-C	28 DA-C	28 DA-C	28 DA-C				
# Subsamples, Dec.		0	0	0	0				
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	9	10	11	12
1	DEGREE XTRA	1.49	qt/a	PRE	A	100	100	100	100
1	ROUNDUP WEATHERMAX	21.3	oz/a	POST	C				
1	AMS	4	qt/a	POST					
2	GUARDSMAN MAX	1	qt/a	PRE	A	100	100	100	100
2	STEADFAST ATZ	14	oz/a	POST	C				
2	CLARITY	4	oz/a	POST					
2	COC	1	% v/v	POST					
2	28%	4	qt/a	POST					
3	ATRAZINE	1	qt/a	PRE	A	100	100	100	100
3	LIGHTNING	1.28	oz/a	EPO	B				
3	DISTINCT	2	oz/a	EPO					
3	NIS	0.25	% v/v	EPO					
3	28%	4	qt/a	EPO					
4	FULTIME	3.5	qt/a	PRE	A	100	100	100	100
4	ACCENT	0.66	oz/a	SCOUT	C				
4	HORNET	3	oz/a	SCOUT					
4	COC	1	% v/v	SCOUT					
4	28%	4	qt/a	SCOUT					
5	DUAL II MAGNUM	1.66	pt/a	PRE	A	100	100	100	100
5	MARKSMAN	3.5	pt/a	EPO	B				
6	BALANCE PRO	1.5	oz/a	PRE	A	95	100	100	100
6	LIBERTY	32	oz/a	POST	C				
6	ATRAZINE	1.5	qt/a	POST					
6	AMS	4	qt/a	POST					
LSD (P=.05)						2.0	0.0	0.0	0.0
Standard Deviation						1.4	0.0	0.0	0.0
CV						1.37	0.0	0.0	0.0
Replicate F						1.000	0.000	0.000	0.000
Replicate Prob(F)						0.4199	1.0000	1.0000	1.0000
Treatment F						11.000	0.000	0.000	0.000
Treatment Prob(F)						0.0001	1.0000	1.0000	1.0000