

ROUNDUP READY CORN STACKED TRAIT TRIAL

Trial ID: 04RRC2 Study Dir.: Anthony F. Dobbels
Location: WESTERN BRANCH F-6 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.	ABUTH Velvetleaf	Abutilon theophrasti
2.	AMBTR Ragweed, giant	Ambrosia trifida
3.	CHEAL Lambsquarters, common	Chenopodium album

Crop 1: ZEAMX CORN, FIELD Variety: VARIOUS
 Planting Date: 5-10-04 Planting Method: JOHN DEERE 7200
 Rate: 32097 SEED/A Depth: 1.5 IN Seed Bed: CONVENTIONAL
 Row Spacing: 30 IN

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:	4.4	Texture:	silty clay loam
pH:	6.2	Soil Name:	Kokomo
CEC:	15		

APPLICATION DESCRIPTION

	A	B
Application Date:	5-11-04	6-7-04
Time of Day:	9:00 A.M.	8:00 A.M.
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	69 F	80 F
% Relative Humidity:	74	45
Wind Velocity, Unit:	3 W	8 S
Soil Temp., Unit:	62 F	75 F
Soil Moisture:	DRY/MOIST	DRY/MOIST
% Cloud Cover:	15	5

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX	ZEAMX
Stage Scale:		5 COLLARS
Height, Unit:		16 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ABUTH	ABUTH 0.5"
Stage Scale:		2 LVS
Density, Unit:		2 M2
Weed 2 Code, Stage:	AMBTR	AMBTR 2"
Stage Scale:		2 LVS
Density, Unit:		4 M2
Weed 3 Code, Stage:	CHEAL	CHEAL 1"
Stage Scale:		2-4 LVS
Density, Unit:		5 M2

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	BACKPACK
Operating Pressure:	40 PSI	50
Nozzle Type:	AI	DG
Nozzle Size:	111002	11002
Nozzle Spacing, Unit:	20 IN	18 IN
Ground Speed, Unit:	3.5 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	20 GPA
Propellant:	PUMP	CO2

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Weed Code					SETFA	ABUTH	AMBTR	SETFA	ABUTH				
Crop Code		ZEAMX	ZEAMX	ZEAMX									
Rating Data Type		STAND CT	STAND CT	PHYTO	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit		6-8-04	6-8-04	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Date		ROW 1	ROW 2	6-22-04	6-22-04	6-22-04	6-22-04	7-5-04	7-5-04				
Crop Stage Scale				15 DA-B	15 DA-B	15 DA-B	15 DA-B	28 DA-B	28 DA-B				
Trt-Eval Interval				0	0	0	0	0	0				
# 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
15	PIONEER 33P70 RR2/YG					72	73	0	100	100	100	100	98
15	HARNESS XTRA 5.6	1.2	qt/a	PRE	A								
15	ROUNDUP WEATHERMAX	22	oz/a	POST	B								
15	AMS	4	qt/a	POST									
16	PIONEER 33P70 RRS/YG					72	72	0	100	100	100	100	100
16	HARNESS XTRA 5.6	1.2	qt/a	PRE	A								
16	STEADFAST ATZ	14	oz/a	POST	B								
16	DISTINCT	2	oz/a	POST									
16	COC	0.8	qt/a	POST									
16	28 %	2	qt/a	POST									
LSD (P=.05)						3.1	3.4	0.0	0.0	0.0	0.0	2.5	2.2
Standard Deviation						2.1	2.4	0.0	0.0	0.0	0.0	1.8	1.6
CV						3.01	3.37	0.0	0.0	0.0	0.0	1.8	1.56
Replicate F						0.815	0.261	0.000	0.000	0.000	0.000	1.553	1.462
Replicate Prob(F)						0.4923	0.8529	1.0000	1.0000	1.0000	1.0000	0.2140	0.2376
Treatment F						1.198	0.658	0.000	0.000	0.000	0.000	1.673	2.069
Treatment Prob(F)						0.3079	0.8100	1.0000	1.0000	1.0000	1.0000	0.0920	0.0307

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Weed Code	AMBTR	SETFA	ABUTH	AMBTR
Crop Code	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	7-5-04	8-2-04	8-2-04	8-2-04
Rating Date	28 DA-B	56 DA-B	56 DA-B	56 DA-B
Crop Stage Scale	0	0	0	0
Trt-Eval Interval				
# Subsamples, Dec.				

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	9	10	11	12
1	DKC 64-10 RR2					100	100	100	100
1	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
1	ROUNDUP WEATHERMAX	22	oz/a	POST	B				
1	AMS	4	qt/a	POST					
2	DKC 64-10 RR2					100	100	100	100
2	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
2	STEADFAST ATZ	14	oz/a	POST	B				
2	DISTINCT	2	oz/a	POST					
2	COC	0.8	qt/a	POST					
2	28 %	2	qt/a	POST					
3	PIONEER 34B62 RR2					100	99	100	100
3	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
3	ROUNDUP WEATHERMAX	22	oz/a	POST	B				
3	AMS	4	qt/a	POST					
4	PIONEER 34B62 RR2					100	100	100	100
4	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
4	STEADFAST ATZ	14	oz/a	POST	B				
4	DISTINCT	2	oz/a	POST					
4	COC	0.8	qt/a	POST					
4	28 %	2	qt/a	POST					
5	DKC 63-80 RR2					100	99	99	100
5	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
5	ROUNDUP WEATHERMAX	22	oz/a	POST	B				
5	AMS	4	qt/a	POST					
6	DKC 63-80 RR2					100	99	100	100
6	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
6	STEADFAST ATZ	14	oz/a	POST	B				
6	DISTINCT	2	oz/a	POST					
6	COC	0.8	qt/a	POST					
6	28 %	2	qt/a	POST					
7	PIONEER 33P65 RR2					100	95	100	100
7	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
7	ROUNDUP WEATHERMAX	22	oz/a	POST	B				
7	AMS	4	qt/a	POST					
8	PIONEER 33P65 RR2					100	100	100	100
8	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
8	STEADFAST ATZ	14	oz/a	POST	B				
8	DISTINCT	2	oz/a	POST					
8	COC	0.8	qt/a	POST					
8	28 %	2	qt/a	POST					
9	DKC 64-11 RR2/YGCB					100	99	100	100
9	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
9	ROUNDUP WEATHERMAX	22	oz/a	POST	B				
9	AMS	4	qt/a	POST					
10	DKC 64-11 RR2/YGCB					100	100	100	100
10	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
10	STEADFAST ATZ	14	oz/a	POST	B				
10	DISTINCT	2	oz/a	POST					
10	COC	0.8	qt/a	POST					
10	28 %	2	qt/a	POST					
11	PIONEER 34B20 RR2/YG					100	99	100	100
11	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
11	ROUNDUP WEATHERMAX	22	oz/a	POST	B				
11	AMS	4	qt/a	POST					
12	PIONEER 34B20 RR2/YG					100	100	100	100
12	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
12	STEADFAST ATZ	14	oz/a	POST	B				
12	DISTINCT	2	oz/a	POST					
12	COC	0.8	qt/a	POST					
12	28 %	2	qt/a	POST					
13	DKC 63-81 RR2/YGCB					100	99	100	100
13	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
13	ROUNDUP WEATHERMAX	22	oz/a	POST	B				
13	AMS	4	qt/a	POST					
14	DKC 63-81 RR2/YGCB					100	100	100	100
14	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
14	STEADFAST ATZ	14	oz/a	POST	B				
14	DISTINCT	2	oz/a	POST					
14	COC	0.8	qt/a	POST					
14	28 %	2	qt/a	POST					
15	PIONEER 33P70 RR2/YG					100	97	100	100
15	HARNES XTRA 5.6	1.2	qt/a	PRE	A				
15	ROUNDUP WEATHERMAX	22	oz/a	POST	B				
15	AMS	4	qt/a	POST					

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Crop Code				
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	7-5-04	8-2-04	8-2-04	8-2-04
Crop Stage Scale				
Trt-Eval Interval	28 DA-B	56 DA-B	56 DA-B	56 DA-B
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	9	10	11	12
16	PIONEER 33P70 RRS/YG					100	100	100	100
16	HARNESX XTRA 5.6	1.2	qt/a	PRE	A				
16	STEADFAST ATZ	14	oz/a	POST	B				
16	DISTINCT	2	oz/a	POST					
16	COC	0.8	qt/a	POST					
16	28 %	2	qt/a	POST					
LSD (P=.05)						0.0	3.0	0.4	0.2
Standard Deviation						0.0	2.1	0.3	0.2
CV						0.0	2.14	0.3	0.17
Replicate F						0.000	1.331	0.632	2.143
Replicate Prob(F)						1.0000	0.2760	0.5981	0.1080
Treatment F						0.000	1.748	1.736	1.000
Treatment Prob(F)						1.0000	0.0751	0.0777	0.4718