

General Fall Herbicide Comparison in Corn.

Project Code: 07-6C-W120 Location: Belleville Research Center
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final Updated: 1-23-08

Objective:

Evaluate the efficacy of various herbicide programs applied in the fall prior to corn planting.

Weed Code	Common Name	Scientific Name
1. LAMAM	henbit	Lamium amplexicaule L.
2. LAMPU	deadnettle, purple	Lamium purpureum L.
3. STEME	chickweed, common	Stellaria media (L.) Vill.
4. RANAB	buttercup, smallflower	Ranunculus abortivus L.
5. AMBTR	ragweed, giant	Ambrosia trifida L.
6. CHEAL	lambsquarters, common	Chenopodium album L.

Crop 1: ZEAMX corn, field Variety: 33K44
Planting Method: Seeded Planting Date: 5-14-07
Rate: 28000 S/A Depth: 1.5 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 3
Tillage Type: No-Till Study Design: Randomized complete block
Previous Crop, Year: GLXMA, 2006
Field Prep./Maintenance: N 150 LB/A, P2O5 0 LB/A, K2O 0 LB/A

Soil Name: Stoy % OM: 2.2 pH: 6.6 CEC: 8
Texture: Silt loam Fert. Level: P1: 94 LB/A, K: 376 LB/A

APPLICATION DESCRIPTION**A**

Application Date: 11-20-06
Time of Day: 14:00
Application Method: Spray
Application Timing: FALL
Applic. Placement: BROFOL
Air Temp., Unit: 49 F
% Relative Humidity: 48
Wind Velocity, Unit: 3 MPH
Soil Moisture: ABONOR

CROP STAGE AT EACH APPLICATION**A**

Crop 1 Code, Stage: ZEAMX NA
Height, Unit: NA NA

WEED STAGE AT EACH APPLICATION**A**

Weed 1 Code: LAMAM
Stage(leaves): 5-6
Height(inches): 1-2
Density: Medium

Weed 2 Code: LAMPU
Stage(leaves): 5-6
Height(inches): 1-2
Density: Medium

Weed 3 Code: STEME
Stage(leaves): 5-6
Height(inches): 1-2
Density: Low

APPLICATION EQUIPMENT**A**

Appl. Equipment: CO2 sprayer
Operating Pressure: 40 PSI
Nozzle Type: Flat fan
Nozzle Size: XR 8002
Boom Length, Unit: 7.5 FT
Spray Volume, Unit: 15 GPA

NOTES:

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Weed Code	LAMAM	LAMAM	LAMAM	LAMAM
Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	12-11-06	3-1-07	4-2-07	5-1-07
Trt-Eval Interval	21 DA-A	101 DA-A	133 DA-A	162 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	NONTREATED									0 d	0 c	0 c	0 c
2	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	43 bc	99 a	99 a	99 a
2	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
3	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	60 ab	99 a	99 a	99 a
3	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A				
3	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
4	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	17 cd	99 a	99 a	99 a
4	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
4	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
5	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A	50 abc	99 ab	99 a	99 a
5	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
6	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	60 ab	99 a	99 a	99 a
6	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
7	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	87 a	99 a	99 a	99 a
7	SENCOR	75	WG	0.25	lb ai/a	5.33	oz/a	FALL	A				
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
7	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
8	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	27 bcd	99 a	99 a	99 a
8	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
8	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
9	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	53 abc	99 a	99 a	99 a
9	ROUNDUP W-MAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	FALL	A				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
10	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	90 a	99 a	99 a	99 a
10	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A				
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
11	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	FALL	A	33 bcd	99 a	99 a	99 a
11	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A				
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
12	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	33 bcd	99 ab	96 b	96 b
12	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A				
12	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
12	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
13	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A	60 ab	99 a	99 a	99 a
13	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
14	ROUNDUP ORIG MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	50 abc	99 a	99 a	99 a
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
15	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A	17 cd	98 b	98 a	98 a
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
16	NONTREATED									0 d	0 c	0 c	0 c
LSD (P=.05)										42.4	0.4	2.2	2.2
Replicate F										0.735	0.319	0.769	0.769
Replicate Prob(F)										0.4879	0.7292	0.4723	0.4723
Treatment F										3.319	52450.642	1969.570	1969.570
Treatment Prob(F)										0.0025	0.0001	0.0001	0.0001

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

General Fall Herbicide Comparison in Corn.

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Weed Code	LAMPU	LAMPU	LAMPU	LAMPU
Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	12-11-06	3-1-07	4-2-07	5-1-07
Trt-Eval Interval	21 DA-A	101 DA-A	133 DA-A	162 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	NONTREATED									0 d	0 c	0 c	0 c
2	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	43 bc	99 a	99 a	99 a
2	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
3	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	60 ab	99 a	99 a	99 a
3	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A				
3	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
4	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	17 cd	99 a	99 a	99 a
4	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
4	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
5	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A	50 abc	99 a	99 a	99 a
5	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
6	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	60 ab	99 a	99 a	99 a
6	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
7	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	87 a	96 b	96 b	96 b
7	SENCOR	75	WG	0.25	lb ai/a	5.33	oz/a	FALL	A				
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
7	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
8	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	27 bcd	99 a	99 a	99 a
8	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
8	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
9	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	53 abc	99 a	99 a	99 a
9	ROUNDUP W-MAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	FALL	A				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
10	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	90 a	99 a	99 a	99 a
10	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A				
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
11	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	FALL	A	33 bcd	99 a	99 a	99 a
11	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A				
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
12	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	33 bcd	99 a	99 a	99 a
12	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A				
12	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
12	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
13	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A	60 ab	99 a	99 a	99 a
13	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
14	ROUNDUP ORIG MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	50 abc	99 a	99 a	99 a
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
15	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A	17 cd	99 a	99 a	99 a
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
16	NONTREATED									0 d	0 c	0 c	0 c
LSD (P=.05)										42.4	2.2	2.2	2.2
Replicate F										0.735	1.000	1.000	1.000
Replicate Prob(F)										0.4879	0.3798	0.3798	0.3798
Treatment F										3.319	2025.000	2025.000	2025.000
Treatment Prob(F)										0.0025	0.0001	0.0001	0.0001

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

General Fall Herbicide Comparison in Corn.

Project Code: 07-6C-W120 Location: Belleville Research Center
Investigator: Bryan Young

										STEME	STEME	STEME	STEME	RANAB	RANAB	RANAB
Weed Code										Control	Control	Control	Control	Control	Control	Control
Crop Code										Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type										12-11-06	3-1-07	4-2-07	5-1-07	3-1-07	4-2-07	5-1-07
Rating Unit										21 DA-A	101 DA-A	133 DA-A	162 DA-A	101 DA-A	133 DA-A	162 DA-A
Rating Date																
Trt-Eval Interval																
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
1	NONTREATED									0 d	0 d	0 c	0 c	0 b	0 b	0 b
2	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	43 bc	98 b	98 a	98 a	99 a	99 a	99 a
2	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
3	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	60 ab	99 a	99 a	99 a	99 a	99 a	99 a
3	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A							
3	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
4	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	17 cd	99 a	99 a	99 a	98 a	98 a	98 a
4	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
4	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
5	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A	50 abc	99 ab	99 a	99 a	99 a	99 a	99 a
5	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
6	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	60 ab	99 a	99 a	99 a	99 a	99 a	99 a
6	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A							
7	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	87 a	99 a	99 a	99 a	96 a	96 a	96 a
7	SENCOR	75	WG	0.25	lb ai/a	5.33	oz/a	FALL	A							
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
7	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A							
8	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	27 bcd	99 ab	99 a	99 a	94 a	94 a	94 a
8	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
8	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A							
9	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	53 abc	99 a	99 a	99 a	99 a	99 a	99 a
9	ROUNDUP W-MAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	FALL	A							
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A							
10	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	90 a	99 a	99 a	99 a	99 a	99 a	99 a
10	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A							
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
11	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	FALL	A	33 bcd	99 a	99 a	99 a	99 a	99 a	99 a
11	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A							
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A							
12	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	33 bcd	99 ab	99 a	99 a	99 a	99 a	99 a
12	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A							
12	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
12	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A							
13	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A	60 ab	99 a	99 a	99 a	99 a	99 a	99 a
13	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
14	ROUNDUP ORIG MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	50 abc	99 a	99 a	99 a	96 a	96 a	96 a
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A							
15	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A	17 cd	96 c	94 b	94 b	96 a	96 a	96 a
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
16	NONTREATED									0 d	0 d	0 c	0 c	0 b	0 b	0 b
LSD (P=.05)										42.4	1.2	1.9	1.9	5.2	5.2	5.2
Replicate F										0.735	1.842	2.018	2.018	0.679	0.679	0.679
Replicate Prob(F)										0.4879	0.1760	0.1506	0.1506	0.5147	0.5147	0.5147
Treatment F										3.319	6145.835	2552.558	2552.558	346.760	346.760	346.760
Treatment Prob(F)										0.0025	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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

General Fall Herbicide Comparison in Corn.

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Weed Code	AMBTR	AMBTR	CHEAL	CHEAL
Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	4-2-07	5-1-07	4-2-07	5-1-07
Trt-Eval Interval	133 DA-A	162 DA-A	133 DA-A	162 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	NONTREATED									90 ab	90 ab	66 a-d	66 a-d
2	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	49 bc	49 bc	58 bcd	58 bcd
2	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
3	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	84 ab	84 ab	98 ab	98 ab
3	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A				
3	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
4	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	61 abc	61 abc	27 def	27 def
4	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
4	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
5	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A	93 ab	93 ab	98 ab	98 ab
5	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
6	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	88 ab	85 ab	17 ef	17 ef
6	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
7	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	92 ab	86 ab	0 f	0 f
7	SENCOR	75	WG	0.25	lb ai/a	5.33	oz/a	FALL	A				
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
7	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
8	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	87 ab	83 ab	43 cde	43 cde
8	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
8	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
9	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	49 bc	49 bc	50 cde	50 cde
9	ROUNDUP W-MAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	FALL	A				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
10	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	78 ab	78 ab	99 ab	99 ab
10	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A				
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
11	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	FALL	A	32 c	30 c	99 a	99 a
11	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A				
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
12	AUTUMN	10	WG	.001875	lb ai/a	0.3	oz/a	FALL	A	78 abc	78 ab	99 a	99 a
12	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A				
12	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
12	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
13	PRINCEP 4FL	4	F	1.0	lb ai/a	2	pt/a	FALL	A	91 ab	91 ab	99 a	99 a
13	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
14	ROUNDUP ORIG MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	77 abc	77 ab	33 def	33 def
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
15	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A	91 ab	91 ab	0 f	0 f
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
16	NONTREATED									96 a	96 a	82 abc	82 abc
LSD (P=.05)										46.3	46.0	40.6	40.6
Replicate F										2.012	1.706	1.363	1.363
Replicate Prob(F)										0.1514	0.1987	0.2714	0.2714
Treatment F										1.425	1.413	7.004	7.004
Treatment Prob(F)										0.1987	0.2041	0.0001	0.0001

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

General Fall Herbicide Comparison in Corn.

Project Code: 07-6C-W120

Location: Belleville Research Center

Investigator: Bryan Young

Trial Comments

1. Protocol: DuPont, Bayer (JN1), Syngenta.
2. Ratings: WC 21 DAT, March 1, April 1, and May 1. CI at 14, 21 + 28 DAP.
WC at 14 + 28 DAP for summer annual weeds. WC at 28 DA POST.
3. Blanket application to all plots (7.5 ft wide) at 28 DAP. Steadfast 0.75 oz/A + Callisto 2.0 oz/A + Aatrex90 1.0 lb/A + AMS 17lb/100 gal + COC 1% v/v.
4. DA-A = Days after Fall application.
5. In the nontreated plots, non-zero weed control is a result of competition among weeds.
6. Crop and weed evaluations planned for after planting were not possible due to excessive weed growth.
The crop was planted but failed to establish. The planned blanket application at 28DAP was not applied as the weeds had reached a height of 48 inches.