

# Fall Applied Herbicides

12-12-06 (06-22-N90)

Southern Illinois University

General Fall Herbicide Comparison in Corn.

Project Code: 06-22-N90      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:**      12-4-06

**Objective:**  
Evaluate various fall herbicide programs prior to planting corn.

Weed Code	Common Name	Scientific Name
1.	RANAB buttercup, smallflower	Ranunculus abortivus L.
2.	ALLVI garlic, wild	Allium vineale L.
3.	CERVU chickweed, mouseear	Cerastium vulgatum L.
4.	POAAN bluegrass, annual	Poa annua L.
5.	CARPA bittercress, smallflowered	Cardamine parviflora L.
6.	CAPBP shepherdspurse	Capsella bursa-pastoris (L.) Medicus
7.	LAMAM henbit	Lamium amplexicaule L.
8.	VERPG speedwell, purslane	Veronica peregrina L.
9.	CHEAL lambsquarters, common	Chenopodium album L.
10.	SETFA foxtail, giant	Setaria faberi Herrm.
11.	ERICA horseweed	Conyza canadensis (L.) Crong.
12.	AMBEL ragweed, common	Ambrosia artemisiifolia L.
13.	AMATA waterhemp, common	Amaranthus rudis Sauer

**Crop 1:**                    ZEAMX corn, field                    **Variety:**                    33K44  
**Planting Method:**      Seeded                                **Planting Date:**          5-8-06  
**Rate:**                    28000 S/A                                **Depth:**                    1.5 IN  
**Row Spacing:**            30 IN

**Plot Width, Unit:** 10 FT                    **Plot Length, Unit:** 27 FT                    **Reps:** 3  
**Tillage Type:** No-Till                    **Study Design:** Randomized complete block  
**Previous Crop, Year:** GLXMA, 2005  
**Field Prep./Maintenance:** N 150 LB/A, P205 0 LB/A, K20 0 LB/A

**Soil Name:** Clarksdale                    **% OM:** 2.1                    **pH:** 6.5                    **CEC:** 10  
**Texture:** Silt loam                    **Fert. Level:** P1: 99 LB/A, K: 493 LB/A

## APPLICATION DESCRIPTION

**Application Date:** 11-18-05  
**Time of Day:** 9:00  
**Application Method:** Spray  
**Application Timing:** FALL  
**Applic. Placement:** BROFOL  
**Air Temp., Unit:** 38 F  
**% Relative Humidity:** 50  
**Wind Velocity, Unit:** 3 MPH  
**Soil Moisture:** ABONOR

## CROP STAGE AT EACH APPLICATION

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

## WEED STAGE AT EACH APPLICATION

**Weed 1 Code:** RANAB  
**Stage (leaves):** 5-8  
**Height (inches):** 1-2  
**Density:** High

**Weed 2 Code:** ALLVI  
**Stage (leaves):** 3-4  
**Height (inches):** 6-12  
**Density:** Medium

**Weed 3 Code:** CERVU  
**Stage (leaves):** 10+  
**Height (inches):** 0-1  
**Density:** Medium

**Weed 4 Code:** POAAN  
**Stage (leaves):** 3-4  
**Height (inches):** 1-2  
**Density:** Low

**Weed 5 Code:** CARPA  
**Stage (leaves):** 10+  
**Height (inches):** 0-1  
**Density:** Low

## APPLICATION EQUIPMENT

**Appl. Equipment:** CO2 sprayer  
**Operating Pressure:** 40 PSI  
**Nozzle Type:** Flat fan  
**Nozzle Size:** 8003  
**Boom Length, Unit:** 7.5 FT  
**Spray Volume, Unit:** 20 GPA

NOTES:

General Fall Herbicide Comparison in Corn.

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Weed Code								RANAB	RANAB	RANAB	RANAB	
Crop Code								Control	Control	Control	Control	
Rating Data Type								Percent	Percent	Percent	Percent	
Rating Unit								12-9-05	3-1-06	4-1-06	5-1-06	
Rating Date								21 DA-A	103 DA-A	134 DA-A	164 DA-A	
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	NONTREATED								0	0	0	0
2	BASIS	75	WG	0.0234 lb ai/a	0.5	oz/a	FALL	A	0	90	100	100
2	2.4-D LV4	3.8	EC	0.475 lb ae/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	0.0156 lb ai/a	0.333	oz/a	FALL	A	0	90	100	100
3	KARMEX	80	WG	0.8 lb ai/a	1	lb/a	FALL	A				
3	2.4-D LV4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A				
3	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A				
4	BASIS	75	WG	0.0156 lb ai/a	0.333	oz/a	FALL	A	0	90	100	100
4	PRINCEP	90	WG	0.9 lb ai/a	1	lb/a	FALL	A				
4	2.4-D LV4	3.8	EC	0.475 lb ae/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	0	90	98	97
5	2.4-D LV4	3.8	EC	0.475 lb ae/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	0.77 lb ae/a	22	fl oz/a	FALL	A	0	100	98	98
6	2.4-D LV4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A				
6	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	FALL	A				
7	GRAMOXONE INTEON	2	SL	0.5 lb ai/a	2	pt/a	FALL	A	90	100	100	100
7	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	FALL	A				
7	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A				
8	GRAMOXONE INTEON	2	SL	0.375 lb ai/a	1.5	pt/a	FALL	A	90	100	100	100
8	2.4-D LV4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A				
8	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	FALL	A				
8	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A				
9	TOUCHDOWN TOTAL	4.17	SC	0.78 lb ae/a	24	fl oz/a	FALL	A	0	100	100	100
9	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	FALL	A				
9	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	FALL	A				
10	TOUCHDOWN TOTAL	4.17	SC	0.52 lb ae/a	16	fl oz/a	FALL	A	0	100	100	93
10	2.4-D LV4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A				
10	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	FALL	A				
10	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	FALL	A				
11	ROUNDUP W-MAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	FALL	A	0	100	90	85
11	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	FALL	A				
12	AUTUMN	10	WG	0.00187 lb ai/a	0.3	oz/a	FALL	A	0	80	99	94
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	AUTUMN	10	WG	0.00375 lb ai/a	0.6	oz/a	FALL	A	0	80	100	99
13	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A				
13	28% UAN	100	LIQ	1.5 qt/a	1.5	qt/a	FALL	A				
14	AUTUMN	10	WG	0.00187 lb ai/a	0.3	oz/a	FALL	A	0	90	90	80
14	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	FALL	A				
14	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A				
14	28% UAN	100	LIQ	1.5 qt/a	1.5	qt/a	FALL	A				
15	AUTUMN	10	WG	0.00187 lb ai/a	0.3	oz/a	FALL	A	0	90	90	78
15	SENCOR	75	WG	0.47 lb ai/a	10	oz/a	FALL	A				
15	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A				
15	28% UAN	100	LIQ	1.5 qt/a	1.5	qt/a	FALL	A				
16	AUTUMN	10	WG	0.00187 lb ai/a	0.3	oz/a	FALL	A	0	80	97	97
16	2.4-D LV4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A				
16	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A				
16	28% UAN	100	LIQ	1.5 qt/a	1.5	qt/a	FALL	A				
17	AUTUMN	10	WG	0.00187 lb ai/a	0.3	oz/a	FALL	A	0	100	99	99
17	ROUNDUP W-MAX	4.5	SL	0.56 lb ae/a	16	fl oz/a	FALL	A				
17	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	FALL	A				
18	ROUNDUP W-MAX	4.5	SL	0.56 lb ae/a	16	fl oz/a	FALL	A	0	100	97	92
18	2.4-D LV4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A				
18	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	FALL	A				
LSD (P=.05)									0.0	0.0	2.3	6.9
Replicate F									0.000	0.000	1.432	0.963
Replicate Prob(F)									1.0000	1.0000	0.2529	0.3918
Treatment F									0.000	0.000	832.944	96.226
Treatment Prob(F)									1.0000	1.0000	0.0001	0.0001

General Fall Herbicide Comparison in Corn.

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Trit No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ALLVI	ALLVI	ALLVI	ALLVI
										Control Percent 12-9-05 21 DA-A	Control Percent 3-1-06 103 DA-A	Control Percent 4-1-06 134 DA-A	Control Percent 5-1-06 164 DA-A
1	NONTREATED									0	0	0	0
2	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	0	90	100	100
	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
3	BASIS	75	WG	0.0156	lb ai/a	0.333	oz/a	FALL	A	0	90	100	100
	KARMEX	80	WG	0.8	lb ai/a	1	lb/a	FALL	A				
	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
4	BASIS	75	WG	0.0156	lb ai/a	0.333	oz/a	FALL	A	0	93	100	100
	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A				
	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	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	0	57	0	0
	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0	100	100	100
	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
7	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	90	100	100	97
	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
8	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	1.5	pt/a	FALL	A	90	100	100	93
	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	FALL	A	0	100	100	99
	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
10	TOUCHDOWN TOTAL	4.17	SC	0.52	lb ae/a	16	fl oz/a	FALL	A	0	100	100	100
	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0	100	100	100
	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
12	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	80	90	90
	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
13	AUTUMN	10	WG	0.00375	lb ai/a	0.6	oz/a	FALL	A	0	80	100	100
	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
14	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	90	90	88
	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
15	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	90	90	87
	SENCOR	75	WG	0.47	lb ai/a	10	oz/a	FALL	A				
	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
16	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	90	100	100
	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
17	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	100	100	100
	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A				
	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
18	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	0	100	100	100
	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
LSD (P=.05)										0.0	19.4	0.0	5.3
Replicate F										0.000	1.116	0.000	4.121
Replicate Prob(F)										1.0000	0.3394	1.0000	0.0250
Treatment F										0.000	13.042	0.000	304.285
Treatment Prob(F)										1.0000	0.0001	1.0000	0.0001

General Fall Herbicide Comparison in Corn.

Project Code: 06-22-N90 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code		CERVU	CERVU	CERVU	CERVU
Crop Code					
Rating Data Type		Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent
Rating Date		12-9-05	3-1-06	4-1-06	5-1-06
Trt-Eval Interval		21 DA-A	103 DA-A	134 DA-A	164 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	NONTREATED									0	0	0	0
2	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	0	90	85	87
2	2,4-D LV4	3.8	EC	0.475	lb ae/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	0.0156	lb ai/a	0.333	oz/a	FALL	A	0	90	80	80
3	KARMEX	80	WG	0.8	lb ai/a	1	lb/a	FALL	A				
3	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
4	BASIS	75	WG	0.0156	lb ai/a	0.333	oz/a	FALL	A	0	93	97	88
4	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A				
4	2,4-D LV4	3.8	EC	0.475	lb ae/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	0	90	93	82
5	2,4-D LV4	3.8	EC	0.475	lb ae/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	0.77	lb ae/a	22	fl oz/a	FALL	A	0	100	99	92
6	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
7	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	90	97	97	95
7	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
8	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	1.5	pt/a	FALL	A	90	100	97	96
8	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
8	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	FALL	A	0	100	100	97
9	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
10	TOUCHDOWN TOTAL	4.17	SC	0.52	lb ae/a	16	fl oz/a	FALL	A	0	100	100	100
10	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
10	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0	100	98	92
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
12	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	80	75	0
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	AUTUMN	10	WG	0.00375	lb ai/a	0.6	oz/a	FALL	A	0	80	78	17
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
13	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
14	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	90	93	90
14	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
14	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
15	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	90	100	93
15	SENCOR	75	WG	0.47	lb ai/a	10	oz/a	FALL	A				
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
15	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
16	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	80	78	0
16	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
16	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
16	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
17	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	100	100	97
17	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A				
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
18	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	0	100	99	93
18	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
LSD (P=.05)										0.0	2.9	6.0	14.3
Replicate F										0.000	1.532	0.137	0.773
Replicate Prob(F)										1.0000	0.2307	0.8726	0.4695
Treatment F										0.000	541.975	125.922	58.480
Treatment Prob(F)										1.0000	0.0001	0.0001	0.0001

General Fall Herbicide Comparison in Corn.

Project Code: 06-22-N90 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code		POAAN	POAAN	POAAN	POAAN
Crop Code					
Rating Data Type		Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent
Rating Date		12-9-05	3-1-06	4-1-06	5-1-06
Trt-Eval Interval		21 DA-A	103 DA-A	134 DA-A	164 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	NONTREATED									0	0	0	0
2	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	0	90	100	100
2	2,4-D LV4	3.8	EC	0.475	lb ae/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	0.0156	lb ai/a	0.333	oz/a	FALL	A	0	90	100	100
3	KARMEX	80	WG	0.8	lb ai/a	1	lb/a	FALL	A				
3	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
4	BASIS	75	WG	0.0156	lb ai/a	0.333	oz/a	FALL	A	0	93	100	100
4	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A				
4	2,4-D LV4	3.8	EC	0.475	lb ae/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	0	90	93	93
5	2,4-D LV4	3.8	EC	0.475	lb ae/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	0.77	lb ae/a	22	fl oz/a	FALL	A	0	100	100	100
6	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
7	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	90	100	100	100
7	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
8	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	1.5	pt/a	FALL	A	90	100	100	100
8	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
8	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	FALL	A	0	100	100	100
9	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
10	TOUCHDOWN TOTAL	4.17	SC	0.52	lb ae/a	16	fl oz/a	FALL	A	0	100	100	100
10	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
10	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0	100	100	100
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
12	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	80	80	0
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	AUTUMN	10	WG	0.00375	lb ai/a	0.6	oz/a	FALL	A	0	80	88	0
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
13	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
14	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	90	97	97
14	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A				
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
14	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
15	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	90	90	50
15	SENCOR	75	WG	0.47	lb ai/a	10	oz/a	FALL	A				
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
15	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
16	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	75	80	0
16	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
16	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
16	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
17	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	100	100	100
17	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A				
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
18	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	0	100	100	100
18	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
LSD (P=.05)										0.0	1.8	3.5	3.3
Replicate F										0.000	1.000	0.106	0.000
Replicate Prob(F)										1.0000	0.3784	0.9001	1.0000
Treatment F										0.000	1374.700	380.528	1386.000
Treatment Prob(F)										1.0000	0.0001	0.0001	0.0001

General Fall Herbicide Comparison in Corn.

Project Code: 06-22-N90 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	CARPA	CARPA	CARPA	CARPA	CAPBP	CAPBP
Crop Code						
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	12-9-05	3-1-06	4-1-06	5-1-06	4-1-06	5-1-06
Trt-Eval Interval	21 DA-A	103 DA-A	134 DA-A	164 DA-A	134 DA-A	164 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	21 DA-A	103 DA-A	134 DA-A	164 DA-A	134 DA-A	164 DA-A
1	NONTREATED									0	0	0	0	0	0
2	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	0	90	100	100	100	100
2	2,4-D LV4	3.8	EC	0.475	lb ae/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	0.0156	lb ai/a	0.333	oz/a	FALL	A	0	90	100	100	100	100
3	KARMEX	80	WG	0.8	lb ai/a	1	lb/a	FALL	A						
3	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
4	BASIS	75	WG	0.0156	lb ai/a	0.333	oz/a	FALL	A	0	93	100	100	100	100
4	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A						
4	2,4-D LV4	3.8	EC	0.475	lb ae/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	0	90	100	100	100	100
5	2,4-D LV4	3.8	EC	0.475	lb ae/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	0.77	lb ae/a	22	fl oz/a	FALL	A	0	100	100	100	100	100
6	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A						
7	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	90	100	100	100	100	100
7	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A						
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
8	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	1.5	pt/a	FALL	A	90	100	100	100	100	100
8	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
8	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A						
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	FALL	A	0	100	100	100	100	100
9	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A						
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A						
10	TOUCHDOWN TOTAL	4.17	SC	0.52	lb ae/a	16	fl oz/a	FALL	A	0	100	100	100	100	100
10	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
10	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A						
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A						
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0	100	100	100	100	100
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A						
12	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	80	100	100	100	100
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	AUTUMN	10	WG	0.00375	lb ai/a	0.6	oz/a	FALL	A	0	80	100	100	100	100
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
13	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A						
14	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	90	100	100	100	100
14	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A						
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
14	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A						
15	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	90	100	100	100	100
15	SENCOR	75	WG	0.47	lb ai/a	10	oz/a	FALL	A						
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
15	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A						
16	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	80	100	100	100	100
16	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
16	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
16	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A						
17	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	0	100	100	100	100	100
17	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A						
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A						
18	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	0	100	100	100	100	100
18	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A						
LSD (P=.05)										0.0	1.8	0.0	0.0	0.0	0.0
Replicate F										0.000	1.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	0.3784	1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	1359.382	0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	0.0001	1.0000	1.0000	1.0000	1.0000

General Fall Herbicide Comparison in Corn.

Project Code: 06-22-N90 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code				LAMAM	LAMAM	VERPG	CHEAL	CHEAL	CHEAL						
Crop Code				Control	Control	Control	Control	Control	Control						
Rating Data Type				Percent	Percent	Percent	Percent	Percent	Percent						
Rating Unit				4-1-06	5-1-06	5-1-06	5-1-06	5-22-06	6-5-06						
Rating Date				134 DA-A	164 DA-A	164 DA-A	164 DA-A	14 DAP	28 DAP						
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	0	90	98	99	99		
2	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	100	100	8	95	92	88
2	2,4-D LV4	3.8	EC	0.475	lb ae/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	0.0156	lb ai/a	0.333	oz/a	FALL	A	100	100	0	95	91	85
3	KARMEX	80	WG	0.8	lb ai/a	1	lb/a	FALL	A						
3	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
4	BASIS	75	WG	0.0156	lb ai/a	0.333	oz/a	FALL	A	100	100	98	98	99	99
4	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A						
4	2,4-D LV4	3.8	EC	0.475	lb ae/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	100	100	98	98	99	99
5	2,4-D LV4	3.8	EC	0.475	lb ae/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	0.77	lb ae/a	22	fl oz/a	FALL	A	100	100	50	0	0	0
6	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A						
7	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	100	100	99	99	99	99
7	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A						
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
8	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	1.5	pt/a	FALL	A	100	100	99	94	91	91
8	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
8	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A						
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	FALL	A	100	100	99	99	95	93
9	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A						
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A						
10	TOUCHDOWN TOTAL	4.17	SC	0.52	lb ae/a	16	fl oz/a	FALL	A	100	100	100	100	99	99
10	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
10	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A						
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A						
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	100	100	60	17	10	8
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A						
12	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	93	93	50	98	97	97
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	AUTUMN	10	WG	0.00375	lb ai/a	0.6	oz/a	FALL	A	100	100	0	95	93	91
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
13	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A						
14	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	100	100	98	98	99	99
14	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A						
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
14	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A						
15	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	100	100	98	84	67	63
15	SENCOR	75	WG	0.47	lb ai/a	10	oz/a	FALL	A						
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
15	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A						
16	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	100	100	88	98	99	95
16	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
16	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A						
16	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A						
17	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	100	100	82	61	53	52
17	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A						
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A						
18	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	100	100	50	0	10	10
18	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A						
LSD (P=0.05)										2.3	2.3	9.5	24.4	23.6	23.4
Replicate F										1.000	1.000	0.739	1.359	1.223	1.135
Replicate Prob(F)										0.3784	0.3784	0.4850	0.2704	0.3069	0.3333
Treatment F										896.941	896.941	120.841	17.397	18.020	18.189
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001



General Fall Herbicide Comparison in Corn.

Project Code: 06-22-N90 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	SETFA	SETFA	SETFA	ERICA	ERICA	AMBEL	AMBEL
Crop Code							
Rating Data Type	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	5-1-06	5-22-06	6-5-06	5-22-06	6-5-06	5-22-06	6-5-06
Trt-Eval Interval	164 DA-A	14 DAP	28 DAP	14 DAP	28 DAP	14 DAP	28 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	SETFA 164 DA-A	SETFA 14 DAP	SETFA 28 DAP	ERICA 14 DAP	ERICA 28 DAP	AMBEL 14 DAP	AMBEL 28 DAP
1	NONTREATED								98	93	87	0	0	99	99
2	BASIS	75	WG	0.0234 lb ai/a	0.5	oz/a	FALL	A	98	90	88	93	93	99	98
2	2,4-D LV4	3.8	EC	0.475 lb ae/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	0.0156 lb ai/a	0.333	oz/a	FALL	A	98	93	90	96	96	95	96
3	KARMEX	80	WG	0.8 lb ai/a	1	lb/a	FALL	A							
3	2,4-D LV4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A							
3	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A							
4	BASIS	75	WG	0.0156 lb ai/a	0.333	oz/a	FALL	A	98	89	84	95	96	93	93
4	PRINCEP	90	WG	0.9 lb ai/a	1	lb/a	FALL	A							
4	2,4-D LV4	3.8	EC	0.475 lb ae/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	98	75	72	99	99	96	96
5	2,4-D LV4	3.8	EC	0.475 lb ae/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	0.77 lb ae/a	22	fl oz/a	FALL	A	43	0	0	83	83	0	0
6	2,4-D LV4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A							
6	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	FALL	A							
7	GRAMOXONE INTEON	2	SL	0.5 lb ai/a	2	pt/a	FALL	A	96	75	67	99	99	96	96
7	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	FALL	A							
7	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A							
8	GRAMOXONE INTEON	2	SL	0.375 lb ai/a	1.5	pt/a	FALL	A	91	73	63	99	96	96	96
8	2,4-D LV4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A							
8	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	FALL	A							
8	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A							
9	TOUCHDOWN TOTAL	4.17	SC	0.78 lb ae/a	24	fl oz/a	FALL	A	87	46	33	99	99	66	66
9	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	FALL	A							
9	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	FALL	A							
10	TOUCHDOWN TOTAL	4.17	SC	0.52 lb ae/a	16	fl oz/a	FALL	A	98	90	85	99	99	96	96
10	2,4-D LV4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A							
10	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	FALL	A							
10	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	FALL	A							
11	ROUNDUP W-MAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	FALL	A	98	43	58	99	99		
11	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	FALL	A							
12	AUTUMN	10	WG	0.00187 lb ai/a	0.3	oz/a	FALL	A	98	96	96	73	73	99	99
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	AUTUMN	10	WG	0.00375 lb ai/a	0.6	oz/a	FALL	A	98	90	86	88	88	89	89
13	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A							
13	28% UAN	100	LIQ	1.5 qt/a	1.5	qt/a	FALL	A							
14	AUTUMN	10	WG	0.00187 lb ai/a	0.3	oz/a	FALL	A	98	88	83	88	88	96	96
14	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	FALL	A							
14	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A							
14	28% UAN	100	LIQ	1.5 qt/a	1.5	qt/a	FALL	A							
15	AUTUMN	10	WG	0.00187 lb ai/a	0.3	oz/a	FALL	A	98	73	83	93	99	99	99
15	SENCOR	75	WG	0.47 lb ai/a	10	oz/a	FALL	A							
15	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A							
15	28% UAN	100	LIQ	1.5 qt/a	1.5	qt/a	FALL	A							
16	AUTUMN	10	WG	0.00187 lb ai/a	0.3	oz/a	FALL	A	98	99	94	93	93	99	99
16	2,4-D LV4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A							
16	PRIME OIL COC	100	LIQ	1.0 % v/v	1	% v/v	FALL	A							
16	28% UAN	100	LIQ	1.5 qt/a	1.5	qt/a	FALL	A							
17	AUTUMN	10	WG	0.00187 lb ai/a	0.3	oz/a	FALL	A	94	80	77	99	99	82	81
17	ROUNDUP W-MAX	4.5	SL	0.56 lb ae/a	16	fl oz/a	FALL	A							
17	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	FALL	A							
18	ROUNDUP W-MAX	4.5	SL	0.56 lb ae/a	16	fl oz/a	FALL	A	60	27	37	98	98	50	33
18	2,4-D LV4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A							
18	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	FALL	A							
LSD (P=0.05)									25.8	27.8	38.5	14.9	14.4	34.5	35.5
Replicate F									2.158	2.427	1.282	0.046	0.039	1.362	1.085
Replicate Prob(F)									0.1311	0.1035	0.2906	0.9547	0.9618	0.2714	0.3500
Treatment F									2.845	7.912	3.612	20.241	21.797	4.659	4.974
Treatment Prob(F)									0.0046	0.0001	0.0007	0.0001	0.0001	0.0001	0.0001



General Fall Herbicide Comparison in Corn.

Project Code: 06-22-N90 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	AMATA	AMATA	
Crop Code			ZEAMX
Rating Data Type	Control	Control	Injury
Rating Unit	Percent	Percent	Percent
Rating Date	5-22-06	6-5-06	6-5-06
Trt-Eval Interval	14 DAP	28 DAP	28 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
1	NONTREATED									99	99	0
2	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	90	87	0
2	2.4-D LV4	3.8	EC	0.475	lb ae/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	0.0156	lb ai/a	0.333	oz/a	FALL	A	95	95	0
3	KARMEX	80	WG	0.8	lb ai/a	1	lb/a	FALL	A			
3	2.4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A			
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A			
4	BASIS	75	WG	0.0156	lb ai/a	0.333	oz/a	FALL	A	78	70	0
4	PRINCEP	90	WG	0.9	lb ai/a	1	lb/a	FALL	A			
4	2.4-D LV4	3.8	EC	0.475	lb ae/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	63	70	0
5	2.4-D LV4	3.8	EC	0.475	lb ae/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	0.77	lb ae/a	22	fl oz/a	FALL	A	0	0	0
6	2.4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A			
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A			
7	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	85	82	0
7	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A			
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A			
8	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	1.5	pt/a	FALL	A	70	70	0
8	2.4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A			
8	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A			
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A			
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	FALL	A	58	47	0
9	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A			
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A			
10	TOUCHDOWN TOTAL	4.17	SC	0.52	lb ae/a	16	fl oz/a	FALL	A	86	77	0
10	2.4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A			
10	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A			
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A			
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	43	60	0
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A			
12	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	98	99	0
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	AUTUMN	10	WG	0.00375	lb ai/a	0.6	oz/a	FALL	A	99	99	0
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A			
13	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A			
14	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	77	78	0
14	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	FALL	A			
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A			
14	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A			
15	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	85	83	0
15	SENCOR	75	WG	0.47	lb ai/a	10	oz/a	FALL	A			
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A			
15	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A			
16	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	99	99	0
16	2.4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A			
16	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A			
16	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A			
17	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	77	72	0
17	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A			
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A			
18	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A	15	10	0
18	2.4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A			
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A			

LSD (P=.05) 32.5 31.4 0.0

Replicate F	1.212	3.212	0.000
Replicate Prob(F)	0.3104	0.0528	1.0000
Treatment F	6.416	6.843	0.000
Treatment Prob(F)	0.0001	0.0001	1.0000

General Fall Herbicide Comparison in Corn.

Project Code: 06-22-N90      Location: Belleville Research Center  
Investigator: Bryan Young

Trial Comments

1. Protocol: DuPont, Bayer, Syngenta.
2. Ratings: WC 21 DAT, March 1, April 1, and May 1. CI and WC 14, 28, and 56 DAP.
3. Blanket application of Roundup WeatherMax at 44 floz/A was applied on 6-5-06, at 28 DAP.
4. DA-A = Days after FALL application. DAP = Days after planting.
5. In the nontreated plots, non-zero weed control is a result of competition among weeds.
6. At the 5-22-06 rating (14 DAP), too early to rate crop injury as crop was not fully emerged.
7. At the 6-5-06 rating (28 DAP), in some Autumn plots, control of annual bluegrass was zero, and influenced summer annual weed control.
8. Not harvested.