

## Balance Pro Combinations Applied in Fall and Spring.

01-1-E60

**OBJECTIVE:** Evaluate Balance Pro for potential use in fall applications.

**SUMMARY:** No corn injury was observed from any treatment. Wild garlic control at planting was 50% or less from any treatment. Henbit control at planting was greatest with Balance Pro at 4.5 oz applied 14 days early preplant (EPP14). Carolina foxtail and shepherd's purse control was greatest with fall applications of Balance Pro plus Gramoxone Extra. Giant foxtail control 42 days after planting (DAP) was much higher with Balance Pro applied EPP14 compared to Balance Pro applied in the fall only or a sequential application of fall followed by spring. Common lambsquarters, common waterhemp and common ragweed control 21 DAP was poor from single applications of Balance Pro in the fall but increased to at least 90% from sequential applications of Balance Pro or Balance Pro applied EPP14. In summary, control of summer annual weeds was greater with Balance Pro applied EPP14.

Corn yield ranged from 31 to 56 bu/A in plots that received only a fall herbicide application. The highest yields (171 to 184 bu/A) were observed in plots that were treated EPP 14. Corn yield in plots with both fall and spring herbicide applications was less than plots treated EPP 14.

### HERBICIDES

AATREX 90 WG  
BALANCE PRO 4 SC  
BASIS 75 WG  
BICEP II MAGNUM 5.5 L  
FLUFENACET 60 WG  
GRAMOXONE EXTRA 2.5 SL  
LIBERTY 1.67 EC  
PRINCEP 90 WG  
ROUNDUP ULTRA MAX 3.7 SL  
WEEDONE 638 2.8 EC

### WEEDS

chickweed, common  
chickweed, mouseear  
foxtail, Carolina  
foxtail, giant  
garlic, wild  
henbit  
lambsquarters, common  
ragweed, common  
shepherdspurse  
waterhemp, common

### CROP

corn, field

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

## Balance Pro Combinations Applied in Fall and Spring.

Project Code: 01-1-E60      Location: BELLEVILLE RESEARCH CENTER

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country:      Belleville      IL 62221 USA  
 Trial Status: Final      Initiation Date: 11-17-00

**Objective:**

Evaluate Balance Pro for potential use in fall applications.

Weed Code	Common Name	Scientific Name
1. ALLVI	garlic, wild	Allium vineale L.
2. LAMAM	henbit	Lamium amplexicaule L.
3. CERVU	chickweed, mouseear	Cerastium vulgatum L.
4. ALOCA	foxtail, Carolina	Alopecurus carolinianus Walt.
5. CAPBP	shepherdspurse	Capsella bursa-pastoris (L.) Medicus
6. STEME	chickweed, common	Stellaria media (L.) Vill.
7. SETFA	foxtail, giant	Setaria faberi Herrm.
8. CHEAL	lambsquarters, common	Chenopodium album L.
9. AMATA	waterhemp, common	Amaranthus rudis Sauer
10. AMBEL	ragweed, common	Ambrosia artemisiifolia L.

Crop 1:            ZEAMX corn, field      **Variety:**      P33G28 LL  
 Planting Method: Seeded      **Planting Date:** 5-10-01  
 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, 2000  
 Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 150 LB/A

Soil Name: Weir      **% OM:** 1.8      **pH:** 5.7      **CEC:** 10  
 Texture: Silt loam      **Fert. Level:** P1: 98 LB/A, K: 258 LB/A

**APPLICATION DESCRIPTION**

	A	B	C	D
Application Date:	11-28-00	4-27-01	5-11-01	5-14-01
Time of Day:	10:00	9:00	12:00	8:30
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	FALL	14EPP	PRE	2-4"W
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	50 F	60 F	78 F	62 F
% Relative Humidity:	60	86	52	84
Wind Velocity, Unit:	3 MPH	0 MPH	1-2 MPH	1-2 MPH
Soil Moisture:	ABONOR	NORMAL	BELNOR	BELNOR

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX NA	ZEAMX NA	ZEAMX 0
Height, Unit:	NA NA	NA NA	NA NA	0 IN

**WEED STAGE AT EACH APPLICATION**

	A	B	C	D
Weed 1 Code:	ALLVI	ALLVI	ALLVI	ALLVI
Stage(leaves):	3-4	3-4	3-4	4-6
Height(inches):	6-16	12-30	6-16	15-24
Density:	High	High	Medium	High
Weed 2 Code:	LAMAM	LAMAM		
Stage(leaves):	10+	10+		
Height(inches):	0-2	4-6		
Density:	High	Medium		

<b>Weed 3 Code:</b>	CERVU	CERVU		
<b>Stage(leaves):</b>	10+	10+		
<b>Height(inches):</b>	0-2	4-6		
<b>Density:</b>	Medium	Medium		
<b>Weed 4 Code:</b>	ALOCA	ALOCA		
<b>Stage(leaves):</b>	3-4	3-4		
<b>Height(inches):</b>	0-2	4-6		
<b>Density:</b>	Medium	Medium		
<b>Weed 5 Code:</b>	CAPBP			
<b>Stage(leaves):</b>	5-6			
<b>Height(inches):</b>	0-3			
<b>Density:</b>	Low			
<b>Weed 7 Code:</b>		SETFA	SETFA	SETFA
<b>Stage(leaves):</b>		3-4	3-4	4-5
<b>Height(inches):</b>		3-4	4-6	4-8
<b>Density:</b>		Low	Medium	Medium
<b>Weed 8 Code:</b>		CHEAL	CHEAL	CHEAL
<b>Stage(leaves):</b>		10+	10+	7-12
<b>Height(inches):</b>		3-6	3-8	4-14
<b>Density:</b>		Low	Medium	High
<b>Weed 9 Code:</b>		AMATA	AMATA	AMATA
<b>Stage(leaves):</b>		3-4	5-8	5-10
<b>Height(inches):</b>		0-2	2-6	4-8
<b>Density:</b>		Low	Medium	Medium
<b>Weed10 Code:</b>		AMBEL	AMBEL	AMBEL
<b>Stage(leaves):</b>		3-4	5-6	8-14
<b>Height(inches):</b>		3-4	4-6	5-10
<b>Density:</b>		Medium	Medium	Low

## APPLICATION EQUIPMENT

	A	B	C	D
<b>Appl. Equipment:</b>	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
<b>Operating Pressure:</b>	40 PSI	40 PSI	40 PSI	40 PSI
<b>Nozzle Type:</b>	Flat fan	Flat fan	Flat fan	Flat fan
<b>Nozzle Size:</b>	8002	8002	8002	8002
<b>Boom Length, Unit:</b>	7.33 FT	7.33 FT	7.33 FT	7.33 FT
<b>Spray Volume, Unit:</b>	20 GPA	20 GPA	20 GPA	20 GPA

NOTES: HARVESTED 10-10-01, 2 ROWS X 27 FT.

Balance Pro Combinations Applied in Fall and Spring.

Project Code: 01-1-E60 Location: BELLEVILLE RESEARCH CENTER

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ZEAMX Yield bu/A	ALLVI	ALLVI	ALLVI	ALLVI	LAMAM	LAMAM	LAMAM	LAMAM	CERVU	CERVU				
							Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	10-10-01	12-12-00	12-26-00	4-2-01	5-9-01	12-12-00	12-26-00				
1	NONTREATED					43				0	0	0	0	0	0	0				
2	BALANCE PRO	4	SC	0.1406	LB A/A	4.5	OZ/A	FALL	A	31	80	80	81	23	90	90	94	89	90	90
2	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A											
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A											
2	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A											
2	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A											
3	BALANCE PRO	4	SC	0.1406	LB A/A	4.5	OZ/A	14EPP	B	171	0	0		33	0	0		99	0	0
3	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B											
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B											
3	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B											
4	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	FALL	A	128	80	80	58	0	90	90	91	99	90	90
4	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A											
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A											
4	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A											
4	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A											
4	BALANCE PRO	4	SC	0.04688	LB A/A	1.5	OZ/A	PRE	C											
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C											
5	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	FALL	A	120	80	80	60	0	90	90	91	94	90	90
5	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A											
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A											
5	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A											
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A											
5	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	PRE	C											
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C											
6	FLUFENACET	60	WG	0.7875	LB A/A	21	OZ/A	FALL	A	56	80	80	48	28	90	90	12	76	90	90
6	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A											
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A											
6	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A											
6	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A											
7	FLUFENACET	60	WG	0.6	LB A/A	16	OZ/A	FALL	A	49	80	80	80	27	90	90	78	68	90	90
7	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	FALL	A											
7	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A											
7	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A											
7	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A											
7	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A											
8	FLUFENACET	60	WG	0.6	LB A/A	16	OZ/A	FALL	A	143	80	80	68	20	90	90	23	57	90	90
8	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A											
8	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A											
8	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A											
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A											
8	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	PRE	C											
8	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C											

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Yield bu/A	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent
										10-10-01	12-12-00	12-26-00	4-2-01	5-9-01	12-12-00	12-26-00	4-2-01	5-9-01	12-12-00	12-26-00
										14 DA-A	28 DA-A	125 DA-A	0 DAP	14 DA-A	28 DA-A	125 DA-A	0 DAP	14 DA-A	28 DA-A	
9	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	FALL	A	127	80	80	73	23	90	90	87	88	90	90
9	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A											
9	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A											
9	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A											
9	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A											
9	LIBERTY	1.67	EC	0.313	LB A/A	24	OZ/A	2-4"W	D											
9	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	2-4"W	D											
9	AMS	100	DRY	1.8	% W/W	3	LB/A	2-4"W	D											
10	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	14EPP	B	171	0	0		47	0	0		89	0	0
10	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B											
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B											
10	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B											
10	BALANCE PRO	4	SC	0.04688	LB A/A	1.5	OZ/A	PRE	C											
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C											
11	BALANCE PRO	4	SC	0.07813	LB A/A	2.5	OZ/A	14EPP	B	180	0	0		42	0	0		99	0	0
11	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B											
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B											
11	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B											
11	BALANCE PRO	4	SC	0.0625	LB A/A	2	OZ/A	PRE	C											
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C											
12	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	14EPP	B	184	0	0		50	0	0		99	0	0
12	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B											
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B											
12	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B											
12	LIBERTY	1.67	EC	0.313	LB A/A	24	OZ/A	PRE	C											
12	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	PRE	C											
12	AMS	100	DRY	1.8	% W/W	3	LB/A	PRE	C											
13	FLUFENACET	60	WG	0.6	LB A/A	16	OZ/A	FALL	A	138	80	80	60	10	90	90	7	67	90	90
13	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A											
13	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A											
13	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A											
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A											
13	LIBERTY	1.67	EC	0.313	LB A/A	24	OZ/A	2-4"W	D											
13	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	2-4"W	D											
13	AMS	100	DRY	1.8	% W/W	3	LB/A	2-4"W	D											
14	PRINCEP	90	WG	1.0	LB A/A	1.11	LB/A	FALL	A	136	80	80	52	10	90	90	99	99	90	90
14	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A											
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A											
14	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A											
14	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A											
14	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	C											
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C											
15	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	A	143	80	80	83	40	90	90	99	99	90	90
15	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A											
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A											
15	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A											
15	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A											
15	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	C											
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C											

Weed Code									ALLVI	ALLVI	ALLVI	ALLVI	LAMAM	LAMAM	LAMAM	LAMAM	CERVU	CERVU		
Crop Code									ZEAMX											
Rating Data Type									Yield	Control	Control	Control	Control	Control	Control	Control	Control	Control		
Rating Unit									bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent		
Rating Date									10-10-01	12-12-00	12-26-00	4-2-01	5-9-01	12-12-00	12-26-00	4-2-01	5-9-01	12-12-00		
Trt-Eval Interval									14 DA-A	28 DA-A	125 DA-A	0 DAP	14 DA-A	28 DA-A	125 DA-A	0 DAP	14 DA-A	28 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code											
16	BALANCE PRO	4	SC	0.1406	LB A/A	4.5	OZ/A	FALL	A	56	0	0	0	0	0	42	99	0	0	
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	FALL	A											
16	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	C											
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C											
LSD (P=.05)										43.5	0.0	0.0	19.0	30.6	0.0	0.0	10.5	15.5	0.0	0.0
Replicate F										1.848	0.000	0.000	0.121	2.131	0.000	0.000	0.037	1.247	0.000	0.000
Replicate Prob(F)										0.1750	1.0000	1.0000	0.8862	0.1364	1.0000	1.0000	0.9633	0.3019	1.0000	1.0000
Treatment F										12.204	0.000	0.000	19.041	2.681	0.000	0.000	124.091	23.377	0.000	0.000
Treatment Prob(F)										0.0001	1.0000	1.0000	0.0001	0.0105	1.0000	1.0000	0.0001	0.0001	1.0000	1.0000

Balance Pro Combinations Applied in Fall and Spring.

Project Code: 01-1-E60 Location: BELLEVILLE RESEARCH CENTER

Weed Code				ALOCA	ALOCA	ALOCA	ALOCA	CAPBP	CAPBP	STEME	STEME		
Rating Data Type				Control	Control	Control	Control	Control	Control	Control	Control		
Rating Unit				Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent		
Rating Date				12-12-00	12-26-00	4-2-01	5-9-01	12-12-00	12-26-00	4-2-01	5-9-01		
Trt-Eval Interval				14 DA-A	28 DA-A	125 DA-A	0 DAP	14 DA-A	28 DA-A	125 DA-A	0 DAP		
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	BALANCE PRO	4	SC	0.1406	LB A/A	4.5	OZ/A	FALL	A	90	90	99	99
2	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A				
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A				
2	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A				
2	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A				
3	BALANCE PRO	4	SC	0.1406	LB A/A	4.5	OZ/A	14EPP	B	0	0		93
3	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B				
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B				
3	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B				
4	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	FALL	A	90	90	99	99
4	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A				
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A				
4	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A				
4	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A				
4	BALANCE PRO	4	SC	0.04688	LB A/A	1.5	OZ/A	PRE	C				
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C				
5	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	FALL	A	90	90	99	99
5	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A				
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A				
5	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A				
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A				
5	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	PRE	C				
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C				
6	FLUFENACET	60	WG	0.7875	LB A/A	21	OZ/A	FALL	A	90	90	99	99
6	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A				
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A				
6	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A				
6	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A				
7	FLUFENACET	60	WG	0.6	LB A/A	16	OZ/A	FALL	A	90	90	99	99
7	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	FALL	A				
7	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A				
7	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A				
7	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A				
7	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A				
8	FLUFENACET	60	WG	0.6	LB A/A	16	OZ/A	FALL	A	90	90	99	99
8	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A				
8	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A				
8	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A				
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A				
8	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	PRE	C				
8	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C				

Weed Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ALOCA Control	ALOCA Control	ALOCA Control	ALOCA Control	CAPBP Control	CAPBP Control	STEME Control	STEME Control	
					Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
					12-12-00	12-26-00	4-2-01	5-9-01	12-12-00	12-26-00	4-2-01	5-9-01	
					14 DA-A	28 DA-A	125 DA-A	0 DAP	14 DA-A	28 DA-A	125 DA-A	0 DAP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
9	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	FALL	A	90	90	99	99
9	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A				
9	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A				
9	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A				
9	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A				
9	LIBERTY	1.67	EC	0.313	LB A/A	24	OZ/A	2-4"W	D				
9	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	2-4"W	D				
9	AMS	100	DRY	1.8	% W/W	3	LB/A	2-4"W	D				
10	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	14EPP	B	0	0		77
10	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B				
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B				
10	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B				
10	BALANCE PRO	4	SC	0.04688	LB A/A	1.5	OZ/A	PRE	C				
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C				
11	BALANCE PRO	4	SC	0.07813	LB A/A	2.5	OZ/A	14EPP	B	0	0		87
11	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B				
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B				
11	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B				
11	BALANCE PRO	4	SC	0.0625	LB A/A	2	OZ/A	PRE	C				
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C				
12	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	14EPP	B	0	0		93
12	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B				
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B				
12	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B				
12	LIBERTY	1.67	EC	0.313	LB A/A	24	OZ/A	PRE	C				
12	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	PRE	C				
12	AMS	100	DRY	1.8	% W/W	3	LB/A	PRE	C				
13	FLUFENACET	60	WG	0.6	LB A/A	16	OZ/A	FALL	A	90	90	99	99
13	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A				
13	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A				
13	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A				
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A				
13	LIBERTY	1.67	EC	0.313	LB A/A	24	OZ/A	2-4"W	D				
13	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	2-4"W	D				
13	AMS	100	DRY	1.8	% W/W	3	LB/A	2-4"W	D				
14	PRINCEP	90	WG	1.0	LB A/A	1.11	LB/A	FALL	A	90	90	99	99
14	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A				
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A				
14	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A				
14	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A				
14	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	C				
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C				
15	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	A	90	90	99	99
15	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A				
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A				
15	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A				
15	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A				
15	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	C				
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C				



Weed Code	ALOCA	ALOCA	ALOCA	ALOCA	CAPBP	CAPBP	STEME	STEME
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	12-12-00	12-26-00	4-2-01	5-9-01	12-12-00	12-26-00	4-2-01	5-9-01
Trt-Eval Interval	14 DA-A	28 DA-A	125 DA-A	0 DAP	14 DA-A	28 DA-A	125 DA-A	0 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
16	BALANCE PRO	4	SC	0.1406	LB A/A	4.5	OZ/A	FALL	A	0	0	0	0	0	0	87	73
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	FALL	A								
16	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	C								
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C								
LSD (P=.05)										0.0	0.0	0.0	12.8	0.0	0.0	25.6	28.5
Replicate F										0.000	0.000	0.000	3.045	0.000	0.000	0.785	2.175
Replicate Prob(F)										1.0000	1.0000	1.0000	0.0625	1.0000	1.0000	0.4686	0.1312
Treatment F										0.000	0.000	0.000	55.724	0.000	0.000	10.858	6.140
Treatment Prob(F)										1.0000	1.0000	1.0000	0.0001	1.0000	1.0000	0.0001	0.0001

Balance Pro Combinations Applied in Fall and Spring.

Project Code: 01-1-E60 Location: BELLEVILLE RESEARCH CENTER

Weed Code												SETFA	SETFA	SETFA	SETFA	CHEAL	CHEAL	CHEAL	CHEAL		
Crop Code												ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Rating Data Type												Injury	Injury	Injury	Injury	Injury	Injury	Injury	Injury		
Rating Unit												Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent		
Rating Date												5-18-01	5-31-01	6-21-01	7-16-01	5-9-01	5-31-01	6-21-01	7-16-01		
Trt-Eval Interval												V1	V3	42 DAP	CANOPY	0 DAP	21 DAP	42 DAP	CANOPY		
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	0	0	0	0	0	0		
2	BALANCE PRO	4	SC	0.1406	LB A/A	4.5	OZ/A	FALL	A	0	0	0	0	0	23	20	13	0	25	27	20
2	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A												
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A												
2	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A												
2	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A												
3	BALANCE PRO	4	SC	0.1406	LB A/A	4.5	OZ/A	14EPP	B	0	0	0	0	99	98	90	87	99	99	98	98
3	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B												
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B												
3	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B												
4	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	FALL	A	0	0	0	0	0	67	57	43	0	59	90	86
4	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A												
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A												
4	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A												
4	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A												
4	BALANCE PRO	4	SC	0.04688	LB A/A	1.5	OZ/A	PRE	C												
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C												
5	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	FALL	A	0	0	0	0	0	75	50	37	0	99	95	95
5	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A												
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A												
5	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A												
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A												
5	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	PRE	C												
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C												
6	FLUFENACET	60	WG	0.7875	LB A/A	21	OZ/A	FALL	A	0	0	0	0	0	0	0	0	0	0	0	0
6	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A												
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A												
6	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A												
6	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A												
7	FLUFENACET	60	WG	0.6	LB A/A	16	OZ/A	FALL	A	0	0	0	0	0	78	60	57	0	53	53	60
7	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	FALL	A												
7	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A												
7	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A												
7	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A												
7	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A												
8	FLUFENACET	60	WG	0.6	LB A/A	16	OZ/A	FALL	A	0	0	0	0	0	87	82	77	0	99	98	98
8	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A												
8	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A												
8	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A												
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A												
8	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	PRE	C												
8	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C												

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Injury Percent 5-18-01	ZEAMX Injury Percent 5-31-01	ZEAMX Injury Percent 6-21-01	ZEAMX Injury Percent 7-16-01	SETFA Control Percent 5-9-01	SETFA Control Percent 5-31-01	SETFA Control Percent 6-21-01	SETFA Control Percent 7-16-01	CHEAL Control Percent 5-9-01	CHEAL Control Percent 5-31-01	CHEAL Control Percent 6-21-01	CHEAL Control Percent 7-16-01
										V1	V3	42 DAP	CANOPY	0 DAP	21 DAP	42 DAP	CANOPY	0 DAP	21 DAP	42 DAP	CANOPY
9	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	FALL	A	0	0	0	0	0	80	43	40	0	90	95	95
9	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A												
9	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A												
9	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A												
9	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A												
9	LIBERTY	1.67	EC	0.313	LB A/A	24	OZ/A	2-4"W	D												
9	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	2-4"W	D												
9	AMS	100	DRY	1.8	% W/W	3	LB/A	2-4"W	D												
10	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	14EPP	B	0	0	0	0	99	99	95	93	99	99	90	88
10	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B												
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B												
10	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B												
10	BALANCE PRO	4	SC	0.04688	LB A/A	1.5	OZ/A	PRE	C												
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C												
11	BALANCE PRO	4	SC	0.07813	LB A/A	2.5	OZ/A	14EPP	B	0	0	0	0	99	99	94	93	99	99	98	98
11	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B												
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B												
11	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B												
11	BALANCE PRO	4	SC	0.0625	LB A/A	2	OZ/A	PRE	C												
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C												
12	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	14EPP	B	0	0	0	0	99	99	95	95	99	99	99	99
12	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B												
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B												
12	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B												
12	LIBERTY	1.67	EC	0.313	LB A/A	24	OZ/A	PRE	C												
12	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	PRE	C												
12	AMS	100	DRY	1.8	% W/W	3	LB/A	PRE	C												
13	FLUFENACET	60	WG	0.6	LB A/A	16	OZ/A	FALL	A	0	0	0	0	0	87	68	62	0	96	96	94
13	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A												
13	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A												
13	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A												
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A												
13	LIBERTY	1.67	EC	0.313	LB A/A	24	OZ/A	2-4"W	D												
13	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	2-4"W	D												
13	AMS	100	DRY	1.8	% W/W	3	LB/A	2-4"W	D												
14	PRINCEP	90	WG	1.0	LB A/A	1.11	LB/A	FALL	A	0	0	0	0	63	82	67	63	99	99	99	99
14	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A												
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A												
14	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A												
14	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A												
14	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	C												
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C												
15	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	A	0	0	0	0	62	85	70	62	0	99	99	99
15	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A												
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A												
15	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A												
15	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A												
15	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	C												
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C												

Weed Code																						
Crop Code																						
Rating Data Type	ZEAMX	ZEAMX	ZEAMX	ZEAMX	SETFA	SETFA	SETFA	SETFA	CHEAL	CHEAL	CHEAL	CHEAL										
Rating Unit	Injury	Injury	Injury	Injury	Control	Control	Control	Control	Control	Control	Control	Control										
Rating Date	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent										
Trt-Eval Interval	5-18-01	5-31-01	6-21-01	7-16-01	5-9-01	5-31-01	6-21-01	7-16-01	5-9-01	5-31-01	6-21-01	7-16-01										
	V1	V3	42 DAP	CANOPY	0 DAP	21 DAP	42 DAP	CANOPY	0 DAP	21 DAP	42 DAP	CANOPY										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code													
16	BALANCE PRO	4	SC	0.1406	LB A/A	4.5	OZ/A	FALL	A	0	0	0	0	0	0	7	0	0	0	0		
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	FALL	A													
16	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	C													
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C													
LSD (P=.05)										0.0	0.0	0.0	0.0	30.8	23.5	27.5	29.8	0.0	32.5	27.3	26.9	
Replicate F										0.000	0.000	0.000	0.000	2.142	2.419	3.782	2.952	0.000	2.559	1.716	1.556	
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000	0.1351	0.1062	0.0343	0.0675	1.0000	0.0942	0.1970	0.2275	
Treatment F										0.000	0.000	0.000	0.000	17.584	21.221	12.540	10.923	0.000	13.098	18.202	18.885	
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	

Balance Pro Combinations Applied in Fall and Spring.

Project Code: 01-1-E60

Location: BELLEVILLE RESEARCH CENTER

Weed Code	AMATA	AMATA	AMATA	AMATA	AMBEL	AMBEL	AMBEL
Rating Data Type	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	5-9-01	5-31-01	6-21-01	7-16-01	5-31-01	6-21-01	7-16-01
Trt-Eval Interval	0 DAP	21 DAP	42 DAP	CANOPY	21 DAP	42 DAP	CANOPY

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	AMATA Control	AMATA Control	AMATA Control	AMATA Control	AMBEL Control	AMBEL Control	AMBEL Control
1	NONTREATED									0	0	0	0	0	0	0
2	BALANCE PRO	4	SC	0.1406	LB A/A	4.5	OZ/A	FALL	A	0	20	23	17	33	33	33
2	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A							
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A							
2	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A							
2	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A							
3	BALANCE PRO	4	SC	0.1406	LB A/A	4.5	OZ/A	14EPP	B	99	98	52	48	99	99	99
3	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B							
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B							
3	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B							
4	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	FALL	A	0	97	88	81	94	98	96
4	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A							
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A							
4	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A							
4	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A							
4	BALANCE PRO	4	SC	0.04688	LB A/A	1.5	OZ/A	PRE	C							
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C							
5	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	FALL	A	0	97	73	66	99	99	99
5	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A							
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A							
5	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A							
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A							
5	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	PRE	C							
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C							
6	FLUFENACET	60	WG	0.7875	LB A/A	21	OZ/A	FALL	A	0	0	0	0	0	0	0
6	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A							
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A							
6	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A							
6	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A							
7	FLUFENACET	60	WG	0.6	LB A/A	16	OZ/A	FALL	A	0	47	43	33	95	62	60
7	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	FALL	A							
7	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A							
7	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A							
7	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A							
7	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A							
8	FLUFENACET	60	WG	0.6	LB A/A	16	OZ/A	FALL	A	0	98	77	73	99	99	99
8	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A							
8	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A							
8	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A							
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A							
8	BALANCE PRO	4	SC	0.07031	LB A/A	2.25	OZ/A	PRE	C							
8	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C							

Weed Code		AMATA	AMATA	AMATA	AMATA	AMBEL	AMBEL	AMBEL
Rating Data Type		Control	Control	Control	Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date		5-9-01	5-31-01	6-21-01	7-16-01	5-31-01	6-21-01	7-16-01
Trt-Eval Interval		0 DAP	21 DAP	42 DAP	CANOPY	21 DAP	42 DAP	CANOPY

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
9	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	FALL	A	0	93	73	70	99	99	99
9	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A							
9	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A							
9	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A							
9	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A							
9	LIBERTY	1.67	EC	0.313	LB A/A	24	OZ/A	2-4"W	D							
9	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	2-4"W	D							
9	AMS	100	DRY	1.8	% W/W	3	LB/A	2-4"W	D							
10	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	14EPP	B	99	99	77	70	99	99	99
10	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B							
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B							
10	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B							
10	BALANCE PRO	4	SC	0.04688	LB A/A	1.5	OZ/A	PRE	C							
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C							
11	BALANCE PRO	4	SC	0.07813	LB A/A	2.5	OZ/A	14EPP	B	99	99	67	60	99	99	99
11	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B							
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B							
11	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B							
11	BALANCE PRO	4	SC	0.0625	LB A/A	2	OZ/A	PRE	C							
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C							
12	BALANCE PRO	4	SC	0.09375	LB A/A	3	OZ/A	14EPP	B	99	99	83	78	99	99	99
12	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	14EPP	B							
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	14EPP	B							
12	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	14EPP	B							
12	LIBERTY	1.67	EC	0.313	LB A/A	24	OZ/A	PRE	C							
12	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	PRE	C							
12	AMS	100	DRY	1.8	% W/W	3	LB/A	PRE	C							
13	FLUFENACET	60	WG	0.6	LB A/A	16	OZ/A	FALL	A	0	96	78	73	99	99	99
13	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A							
13	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A							
13	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A							
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A							
13	LIBERTY	1.67	EC	0.313	LB A/A	24	OZ/A	2-4"W	D							
13	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	2-4"W	D							
13	AMS	100	DRY	1.8	% W/W	3	LB/A	2-4"W	D							
14	PRINCEP	90	WG	1.0	LB A/A	1.11	LB/A	FALL	A	0	99	99	99	99	99	99
14	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A							
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A							
14	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A							
14	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A							
14	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	C							
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C							
15	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	A	0	98	96	90	98	99	96
15	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A							
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A							
15	GRAMOXONE EXTRA	2.5	SL	0.625	LB A/A	2	PT/A	FALL	A							
15	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A							
15	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	C							
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C							

Weed Code	AMATA	AMATA	AMATA	AMATA	AMBEL	AMBEL	AMBEL
Rating Data Type	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	5-9-01	5-31-01	6-21-01	7-16-01	5-31-01	6-21-01	7-16-01
Trt-Eval Interval	0 DAP	21 DAP	42 DAP	CANOPY	21 DAP	42 DAP	CANOPY

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
16	BALANCE PRO	4	SC	0.1406	LB A/A	4.5	OZ/A	FALL	A	0	0	0	0	0	0	
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	FALL	A							
16	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	C							
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	PRE	C							
LSD (P=.05)										0.0	22.1	28.2	26.4	24.4	32.2	32.1
Replicate F										0.000	1.380	2.276	2.975	0.625	1.434	1.289
Replicate Prob(F)										1.0000	0.2671	0.1201	0.0663	0.5421	0.2543	0.2903
Treatment F										0.000	29.788	12.532	13.376	23.349	13.441	13.414
Treatment Prob(F)										1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Balance Pro Combinations Applied in Fall and Spring.

Project Code: 01-1-E60      Location: BELLEVILLE RESEARCH CENTER

#### Trial Comments

1. Protocol: Aventis.
2. DA-A = days after FALL application. Ratings on 4-2-01 were early spring evaluation and 125 days after FALL application. DAP = days after planting. 0 DAP = at planting. V1 and V3 = at corn vegetative stage 1 and 3, respectively. CANOPY = at canopy closure.
3. On 5-9-01 (at planting), 100% ground cover in nontreated plots.