

Sequential and Early Postemergence Programs in Corn.

Trial ID: 08-1-MME60 Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 06-15-08

Objectives: Evaluate various sequential and early postemergence herbicide programs in corn.

Crop 1: ZEAMD Dent corn Variety: P33K44
 Planting Method: SEEDED Planting Date: 06-15-08
 Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: GGGAN grasses, annual
 Pest 2 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf
 Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 4 Type: W Code: IPOHE Ipomoea hederacea (L.) jacq. morningglory, annual

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 28 FT Tillage Type: REDUCED-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
 1. GLXMA 2007

Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 100 LB/A

% OM: 1.6 Texture: SILT LOAM
 pH: 6.2 Soil Name: WINFIELD
 CEC: 8 Fert. Level: P1: 83 LB/A, K: 396 LB/A

Application Description

	A	B	C	D	E	F
Application Date:	06-15-08	07-01-08	06-23-08	07-03-08	07-02-08	07-07-08
Time of Day:	17:30	12:00	16:00	13:00	10:30	17:00
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	1-2"W	V1-2	3"W	10-12"CN	4-6"W
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	NRJ	TGM	DKT	TGM	TGM	DKT
Air Temperature, Unit:	88 F	82 F	84 F	80 F	86 F	84 F
% Relative Humidity:	60	42	40	92	64	92
Wind Velocity, Unit:	1 MPH	4 MPH	5 MPH	2 MPH	7 MPH	4 MPH
Dew Presence (Y/N):	N	N	N	N	N	N
Soil Temperature, Unit:	80 F	83 F	80 F	83 F	84 F	85 F
Soil Moisture:	NORMAL	NORMAL	NORMAL	ABONOR	NORMAL	NORMAL
% Cloud Cover:	75	5		60	50	
Crop stage at application:	06-15-08	07-01-08	06-23-08	07-03-08	07-02-08	07-07-08
Height Min, Max (inch):	NA	V4	V1	V5	V4	V5
		10	12	3	5	11
			13	10	12	15
						17

Pest Stage At Each Application

	A	B	C	D	E	F
Application Date:	06-15-08	07-01-08	06-23-08	07-03-08	07-02-08	07-07-08
Weed Code:	GGGAN	GGGAN	GGGAN	GGGAN	GGGAN	GGGAN
Stage Majority (leaves):	NA	3	NA	3	3	4
Stage Min, Max:		2 4		2 5	2 4	3 6
Height Majority:		3 IN		4 IN	3 IN	3 IN
Height Min, Max:		1.5 3		2 5	1.5 4	2 5
Density, Unit:		8 FT2		8 FT2	8 FT2	1 FT2
Weed Code:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Stage Majority (leaves):	NA	2	2	3	2	4
Stage Min, Max:		COTY 3	2 3	COTY 4	COTY 3	3 6
Height Majority:		2 IN	2 IN	3 IN	2 IN	4 IN
Height Min, Max:		1 3	0.5 2.5	1 4	1 3	0.5 6
Density, Unit:		2 FT2	1 FT2	2 FT2	2 FT2	1 FT2
Weed Code:	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	3	NA	3	3	NA
Stage Min, Max:		COTY 5		COTY 5	COTY 5	
Height Majority:		1 IN		2 IN	1 IN	
Height Min, Max:		0.5 1		1 3	0.5 1	
Density, Unit:		5 FT2		3 FT2	5 FT2	
Weed Code:	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE
Stage Majority (leaves):	NA	NA	NA	NA	NA	NA

Application Equipment

	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Appl. Equipment:	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI
Operating Pressure:	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Type:	XR 8002	XR 8002	XR 8002	XR 8002	XR 8002	XR 8002
Nozzle Size:	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Boom Length, Unit:	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA
Spray Volume, Unit:						

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									GGGAN GGGAN GGGAN							
									ZEAMD	ZEAMD	ZEAMD	ZEAMD				
									Injury	Injury	Injury	Injury	Control	Control	Control	
									Percent	Percent	Percent	Percent	Percent	Percent	Percent	
									7 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	NONTREATED									0 b	0 c	0 a	0 a	0 f	0 g	0 k
2	GUARDSMAN MAX	5 SE		2.5 lb ai/a		4 pt/a		PRE	A	0 b	0 c	0 a	0 a	97 ab	89 bcd	89 ef
	STATUS	56 WG		0.175 lb ai/a		5 oz/a		10-12"CN	E							
2	AATREX	4 SC		0.5 lb ai/a		0.5 qt/a		10-12"CN	E							
2	ACTIVATOR 90	100 SL		0.25 % v/v		0.25 % v/v		10-12"CN	E							
2	N-PAK AMS	100 SL		1.5 % v/v		1.5 % v/v		10-12"CN	E							
3	GUARDSMAN MAX	5 SE		2.5 lb ai/a		4 pt/a		PRE	A	0 b	0 c	0 a	0 a	98 ab	92 a-d	92 b-f
3	BALANCE PRO	4 SC		0.047 lb ai/a		1.5 fl oz/a		PRE	A							
4	GUARDSMAN MAX	5 SE		2.5 lb ai/a		4 pt/a		PRE	A	0 b	0 c	0 a	0 a	97 ab	88 cd	88 fg
4	MARKSMAN	3.2 SC		1.2 lb ai/a		3 pt/a		V1-2	C							
4	N-PAK AMS	100 SL		5 % v/v		5 % v/v		V1-2	C							
5	GUARDSMAN MAX	5 SE		2.5 lb ai/a		4 pt/a		PRE	A	0 b	0 c	0 a	0 a	95 b	84 d	83 g
5	STATUS	56 WG		0.175 lb ai/a		5 oz/a		10-12"CN	E							
5	ACTIVATOR 90	100 SL		0.25 % v/v		0.25 % v/v		10-12"CN	E							
5	N-PAK AMS	100 SL		1.5 % v/v		1.5 % v/v		10-12"CN	E							
6	BICEP II MAG	5.5 SC		2.9 lb ai/a		2.1 qt/a		PRE	A	0 b	0 c	0 a	0 a	96 ab	91 bcd	91 def
6	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		10-12"CN	E							
6	AATREX	4 SC		0.5 lb ai/a		0.5 qt/a		10-12"CN	E							
6	PRIME OIL COC	100 SL		1 % v/v		1 % v/v		10-12"CN	E							
6	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v		10-12"CN	E							
7	GUARDSMAN MAX	5 SE		1.56 lb ai/a		2.5 pt/a		PRE	A	0 b	0 c	0 a	0 a	98 ab	94 abc	94 a-e
7	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E							
7	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v		10-12"CN	E							
8	GUARDSMAN MAX	5 SE		1.56 lb ai/a		2.5 pt/a		PRE	A	0 b	0 c	0 a	0 a	97 ab	94 abc	94 a-f
8	STATUS	56 WG		0.0875 lb ai/a		2.5 oz/a		10-12"CN	E							
8	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E							
8	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v		10-12"CN	E							
9	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		PRE	A	0 b	0 c	0 a	0 a	99 a	97 ab	97 ab
9	DURANGO DMA	4 SL		0.75 lb ae/a		24 fl oz/a		4-6"W	F							
9	N-PAK AMS	100 SL		5 % v/v		5 % v/v		4-6"W	F							
10	SURESTART	4.25 SE		1.06 lb ai/a		2 pt/a		PRE	A	0 b	0 c	0 a	0 a	99 a	97 ab	97 ab
10	DURANGO DMA	4 SL		0.75 lb ae/a		24 fl oz/a		4-6"W	F							
10	N-PAK AMS	100 SL		5 % v/v		5 % v/v		4-6"W	F							
11	SURESTART	4.25 SE		1.06 lb ai/a		2 pt/a		PRE	A	0 b	0 c	0 a	0 a	99 a	96 abc	96 a-d
11	AATREX	4 SC		1 lb ai/a		1 qt/a		PRE	A							
11	DURANGO DMA	4 SL		0.75 lb ae/a		24 fl oz/a		4-6"W	F							
11	N-PAK AMS	100 SL		5 % v/v		5 % v/v		4-6"W	F							
12	SURESTART	4.25 SE		1.6 lb ai/a		3 pt/a		PRE	A	0 b	0 c	0 a	0 a	99 a	97 ab	97 abc
12	DURANGO DMA	4 SL		0.75 lb ae/a		24 fl oz/a		4-6"W	F							
12	N-PAK AMS	100 SL		5 % v/v		5 % v/v		4-6"W	F							
13	SURESTART	4.25 SE		1.6 lb ai/a		3 pt/a		PRE	A	0 b	0 c	0 a	0 a	99 a	99 a	99 a
13	AATREX	4 SC		1 lb ai/a		1 qt/a		PRE	A							
13	DURANGO DMA	4 SL		0.75 lb ae/a		24 fl oz/a		4-6"W	F							
13	N-PAK AMS	100 SL		5 % v/v		5 % v/v		4-6"W	F							
14	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		1-2"W	B	0 b	0 c	0 a	0 a	98 ab	91 a-d	91 c-f
14	DURANGO DMA	4 SL		0.75 lb ae/a		24 fl oz/a		1-2"W	B							
14	N-PAK AMS	100 SL		5 % v/v		5 % v/v		1-2"W	B							
15	LEXAR	3.7 SC		2.78 lb ai/a		3 qt/a		1-2"W	B	5 a	3 a	0 a	0 a	80 c	68 e	67 h
15	ACTIVATOR 90	100 SL		0.25 % v/v		0.25 % v/v		1-2"W	B							
15	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v		1-2"W	B							
16	DEGREE XTRA	4.04 CS		2.02 lb ai/a		2 qt/a		PRE	A	0 b	0 c	0 a	0 a	98 ab	94 abc	94 a-e
16	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E							
16	N-PAK AMS	100 SL		5 % v/v		5 % v/v		10-12"CN	E							

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									ZEAMD	ZEAMD	ZEAMD	ZEAMD	GGGAN	GGGAN	GGGAN	
									Injury	Injury	Injury	Injury	Control	Control	Control	
									Percent	Percent	Percent	Percent	Percent	Percent	Percent	
									7 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
17	DUAL II MAG	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	5 a	1 b	0 a	0 a	72 e	53 f	50 j
17	PERMIT	75	WG	0.0314	lb ai/a	0.67	oz/a	3"W	D							
17	PRIME OIL COC	100	SL		1 % v/v		1 % v/v	3"W	D							
17	N-PAK AMS	100	SL		5 % v/v		5 % v/v	3"W	D							
18	DUAL II MAG	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	0 b	0 c	0 a	0 a	75 d	63 e	60 i
18	CALLISTO	4	SC	0.094	lb ai/a		3 fl oz/a	3"W	D							
18	PRIME OIL COC	100	SL		1 % v/v		1 % v/v	3"W	D							
18	N-PAK AMS	100	SL		5 % v/v		5 % v/v	3"W	D							
LSD (P=.05)										0.0	0.7	0.0	0.0	3.2	8.1	5.8
Replicate F										0.000	1.000	0.000	0.000	0.201	0.378	0.702
Replicate Prob(F)										1.0000	0.3784	1.0000	1.0000	0.8185	0.6884	0.5028
Treatment F										0.000	9.647	0.000	0.000	474.367	74.811	153.367
Treatment Prob(F)										1.0000	0.0001	1.0000	1.0000	0.0001	0.0001	0.0001

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

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										ABUTH	ABUTH	ABUTH	AMATA	AMATA	AMATA	IPOHE	IPOHE	IPOHE
										Control	Control	Control	Control	Control	Control	Control	Control	Control
										Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
										14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code									
1	NONTREATED									0 f	0 f	0 f	0 c	0 c	0 c	0 d	0 c	0 c
2	GUARDSMAN MAX	5 SE		2.5 lb ai/a		4 pt/a		PRE	A	98 ab	94 b-e	94 b-e	99 a	99 a	99 a	99 a	97 a	97 a
	STATUS	56 WG		0.175 lb ai/a		5 oz/a		10-12"CN	E									
	AATREX	4 SC		0.5 lb ai/a		0.5 qt/a		10-12"CN	E									
	ACTIVATOR 90	100 SL		0.25 % v/v		0.25 % v/v		10-12"CN	E									
	N-PAK AMS	100 SL		1.5 % v/v		1.5 % v/v		10-12"CN	E									
3	GUARDSMAN MAX	5 SE		2.5 lb ai/a		4 pt/a		PRE	A	99 a	99 a	99 a	99 a	99 a	99 a	98 ab	97 a	97 a
	BALANCE PRO	4 SC		0.047 lb ai/a		1.5 fl oz/a		PRE	A									
4	GUARDSMAN MAX	5 SE		2.5 lb ai/a		4 pt/a		PRE	A	98 abc	96 abc	96 abc	99 a	98 a	98 a	98 ab	95 a	95 a
	MARKSMAN	3.2 SC		1.2 lb ai/a		3 pt/a		V1-2	C									
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		V1-2	C									
5	GUARDSMAN MAX	5 SE		2.5 lb ai/a		4 pt/a		PRE	A	96 cde	93 cde	93 cde	99 a	98 a	98 a	99 a	96 a	96 a
	STATUS	56 WG		0.175 lb ai/a		5 oz/a		10-12"CN	E									
	ACTIVATOR 90	100 SL		0.25 % v/v		0.25 % v/v		10-12"CN	E									
	N-PAK AMS	100 SL		1.5 % v/v		1.5 % v/v		10-12"CN	E									
6	BICEP II MAG	5.5 SC		2.9 lb ai/a		2.1 qt/a		PRE	A	99 a	99 a	99 a	99 a	99 a	99 a	99 a	98 a	98 a
	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		10-12"CN	E									
	AATREX	4 SC		0.5 lb ai/a		0.5 qt/a		10-12"CN	E									
	PRIME OIL COC	100 SL		1 % v/v		1 % v/v		10-12"CN	E									
	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v		10-12"CN	E									
7	GUARDSMAN MAX	5 SE		1.56 lb ai/a		2.5 pt/a		PRE	A	97 bcd	90 e	90 e	98 a	96 a	96 a	96 bc	92 a	92 a
	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E									
	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v		10-12"CN	E									
8	GUARDSMAN MAX	5 SE		1.56 lb ai/a		2.5 pt/a		PRE	A	97 b-e	93 cde	93 cde	99 a	96 a	96 a	98 ab	93 a	93 a
	STATUS	56 WG		0.0875 lb ai/a		2.5 oz/a		10-12"CN	E									
	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E									
	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v		10-12"CN	E									
9	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		PRE	A	97 a-d	97 ab	97 ab	99 a	99 a	99 a	97 ab	96 a	96 a
	DURANGO DMA	4 SL		0.75 lb ae/a		24 fl oz/a		4-6"W	F									
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		4-6"W	F									
10	SURESTART	4.25 SE		1.06 lb ai/a		2 pt/a		PRE	A	95 e	95 a-d	95 a-d	99 a	98 a	98 a	98 ab	96 a	96 a
	DURANGO DMA	4 SL		0.75 lb ae/a		24 fl oz/a		4-6"W	F									
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		4-6"W	F									
11	SURESTART	4.25 SE		1.06 lb ai/a		2 pt/a		PRE	A	98 abc	96 abc	96 abc	99 a	98 a	98 a	98 ab	97 a	97 a
	AATREX	4 SC		1 lb ai/a		1 qt/a		PRE	A									
	DURANGO DMA	4 SL		0.75 lb ae/a		24 fl oz/a		4-6"W	F									
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		4-6"W	F									
12	SURESTART	4.25 SE		1.6 lb ai/a		3 pt/a		PRE	A	96 de	96 abc	96 abc	99 a	98 a	98 a	99 a	97 a	97 a
	DURANGO DMA	4 SL		0.75 lb ae/a		24 fl oz/a		4-6"W	F									
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		4-6"W	F									
13	SURESTART	4.25 SE		1.6 lb ai/a		3 pt/a		PRE	A	98 ab	98 ab	98 ab	99 a	99 a	99 a	99 a	99 a	99 a
	AATREX	4 SC		1 lb ai/a		1 qt/a		PRE	A									
	DURANGO DMA	4 SL		0.75 lb ae/a		24 fl oz/a		4-6"W	F									
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		4-6"W	F									
14	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		1-2"W	B	96 cde	91 de	91 de	99 a	98 a	98 a	95 c	93 a	93 a
	DURANGO DMA	4 SL		0.75 lb ae/a		24 fl oz/a		1-2"W	B									
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		1-2"W	B									
15	LEXAR	3.7 SC		2.78 lb ai/a		3 qt/a		1-2"W	B	99 a	98 ab	98 ab	99 a	99 a	99 a	99 ab	98 a	98 a
	ACTIVATOR 90	100 SL		0.25 % v/v		0.25 % v/v		1-2"W	B									
	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v		1-2"W	B									
16	DEGREE XTRA	4.04 CS		2.02 lb ai/a		2 qt/a		PRE	A	96 de	91 de	91 de	99 a	99 a	99 a	98 ab	93 a	93 a
	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E									
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		10-12"CN	E									

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									Control	Control	Control	Control	Control	Control	Control	Control	Control	
									Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
									14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code									
17	DUAL II MAG	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	98 ab	98 ab	87 b	78 b	78 b	99 a	83 b	83 b
17	PERMIT	75	WG	0.0314	lb ai/a	0.67	oz/a	3"W	D									
17	PRIME OIL COC	100	SL		1 % v/v		1 % v/v	3"W	D									
17	N-PAK AMS	100	SL		5 % v/v		5 % v/v	3"W	D									
18	DUAL II MAG	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	99 a	99 a	99 a	96 a	99 a	98 ab	93 a	93 a
18	CALLISTO	4	SC	0.094	lb ai/a		3 fl oz/a	3"W	D									
18	PRIME OIL COC	100	SL		1 % v/v		1 % v/v	3"W	D									
18	N-PAK AMS	100	SL		5 % v/v		5 % v/v	3"W	D									
LSD (P=.05)										2.0	4.4	4.4	3.0	7.6	7.2	2.6	7.1	7.2
Replicate F										1.696	1.301	1.301	1.059	0.337	0.709	2.471	3.405	3.128
Replicate Prob(F)										0.1986	0.2856	0.2856	0.3578	0.7160	0.4994	0.0995	0.0449	0.0566
Treatment F										1129.142	225.563	225.563	494.421	78.592	87.099	685.202	83.895	81.798
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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

Trial Comments

1. Protocol: BASF, Gowan, Dow.
2. Ratings: CI at 7, 14, 28 + 56 DA"D" and "E"; WC at 14, 28 + 56 DA"D" and "E".
3. Ratings at 7 DAT were on 7-9-08 and 7-10-08 for applications "D" (3"W) and "E" (10-12"CN), respectively.
Ratings at 14 DAT were on 7-16-08 and 7-17-08 for applications "D" (3"W) and "E" (10-12"CN), respectively.
Ratings at 28 DAT were on 7-31-08 for both applications "D" (3"W) and "E" (10-12"CN).
Ratings at 56 DAT were on 8-28-08 for both applications "D" (3"W) and "E" (10-12"CN).
4. GGGAN = Annual grasses including SETFA and PANDI.
5. At the Belleville Research Center the above normal rainfall in spring 2008 (no more than four consecutive rain-free days between March 22 and June 15) delayed corn and soybean planting until mid-June.
6. Following the PRE application on June 15, rainfall was 0.29 inch 5 days later and 0.35 inch 12 days later.
7. Not harvested.