

(00-NCS-1)

Postemergence applied Liberty, Liberty ATZ, Lightning, Aim, and others for weed control in LLIT corn, Nashua, Iowa, 2000. Owen, Micheal D.K., James F. Lux, Damian D. Franzenburg, and James M. Lee. The purpose of this study was to evaluate herbicide application timing for weed efficacy and crop phytotoxicity in GMO corn. The soil was a Floyd, Kenyon, Ostrander loam with a pH 6.85 and 3.5% organic matter. The experimental design was a randomized complete block with three replications and plots were 10 by 25 ft. The 1999 crop was soybean. Tillage included a spring field cultivation. Fertilization included 145 lb/A actual N applied as anhydrous ammonia. Crop residue on the soil surface was 25 to 30% at planting. "Garst hybrid 8539 BT/LL/IT" corn was planted 2 inches deep on May 2, at 32,454 seeds/A in 30 inch rows. May rainfall included: 0.01, 0.46, 0.26, 0.15, 0.21, 0.13, 0.53, 0.23, 0.01, 0.88, 0.30, 0.02, 0.17 and 0.64 inches on May 1, 8, 11, 12, 16, 17, 18, 21, 22, 26, 27, 28, 30 and 31, respectively. Total rainfall for May was 4.0 inches. June rainfall included: 0.12, 0.02, 0.43, 0.36, 0.03, 2.72, 0.03, 0.34, 0.05, 0.01, 0.45, 0.27, 0.17, 0.10, 0.01, and 0.50 inches on June 1, 3, 4, 10, 12, 13, 14, 15, 16, 19, 20, 23, 24, 25, 26, and 28, respectively. Total rainfall for June was 5.61 inches. July rainfall included: 2.56 inches and 0.54 inches from July 1 through 15 and 16 through 31, respectively. Rainfall total for August was 3.46 inches. Application information is listed below:

Date	May 2	June 2	June 11	June 15
Treatment	PRE	EPOST	MPOST	POST
Sprayer				
gpa	20	20	20	20
psi	35	30	30	30
nozzle	11002	11003	11003	11003
Temperature (C)				
air	26	26	22	22
soil (4 inch)	21	19	21	20
Soil moisture	dry	wet	moist	wet
Wind (mph)	0-5 SE	8-12 N	0-2 W	5-7 S
Sky	clear	clear	moist	wet
Relative humidity (%)	25	56	74	78
Corn growth				
leaf no.	-	V4	V5	V5-6
height (inch)	-	4-5	10-11	8-10
Giant foxtail				
leaf no.	-	1-3	1-4	3-4
height (inch)	-	0.25-3	0.5-1.5	2-3
infestation (ft ²)	-	0-20	0-3	6-8
Common lambsquarters				
leaf no.	-	-	-	5
height (inch)	-	-	-	1-2
infestation (ft ²)	-	-	-	4-5
Common waterhemp				
leaf no.	-	-	-	2-3
height (inch)	-	-	-	1-1.5
infestation (ft ²)	-	-	-	1-2
Velvetleaf				
leaf no.	-	cotyl-2	cotyl-4	cotyl-4
height (inch)	-	0.25-2	0.25-3	1.5-3
infestation (ft ²)	-	0-5	0-1	0-1

Significant differences in corn stand between treatments were not attributable to herbicides. Leadoff applied PRE followed by Basis Gold MPOST and Accent Gold plus Clarity MPOST caused significant corn injury when evaluated June 15, four days after application. On June 15, prior to POST applications, all PRE applied herbicides effectively controlled giant foxtail, common waterhemp and common lambsquarters, except PRE Atrazine, Axiom and Leadoff provided only fair velvetleaf control. EPOST applications of Lightning with Clarity, Prowl, Banvel or Distinct and Aim plus Liberty provided excellent control of giant foxtail, velvetleaf, common waterhemp, and common lambsquarters when observed on June 15, 30, and July 19. Corn injury from 2 to 10% was observed on June 30 and July 19, and resulted mostly from POST applied herbicides. Nearly all MPOST and POST applied herbicides achieved excellent giant foxtail, velvetleaf, common waterhemp and common lambsquarters control when observed on June 30 and July 19. On July 19, Bicep II Magnum PRE did not control velvetleaf, Accent Gold plus Clarity did not control common waterhemp, and Aim plus Liberty did not control giant foxtail. Corn yields were significantly lower for Accent Gold plus Clarity applied MPOST and EPOST Aim plus Liberty. Generally, there was considerable yield variation between treatments. (Dept. of Agronomy, Iowa State University, Ames)

TRIAL # US 070/00/01 000 A1 : NCS 1

DATA MEAN

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CREATED: 04/03/2000 REVISED: 11/29/2000

COMPLETED: N

PROJECT TYPE: HERBICIDE

LOCATION: NASHUA, IA

RESEARCHED BY: IA State University

DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN

PLOT SIZE: 10.00 FT WIDE X 25.00 FT LONG

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	ZEAMD	ZEAMD	SETFA	ABUTH	AMATA
		RATE	UNIT		17.5 FT 05/30/00	PHY % 06/15/00	CON % 06/15/00	CON % 06/15/00	CON % 06/15/00
1A	UNTREATED CHECK	0.00	NA	0	31	0	0	0	0
2A	BICEP II MAGNUM 5.5 (L)	2.89	LAA	1	32	0	98	93	99
3A	ATRAZINE 90DF (WG)	1.00	LAA	1	31	0	89	85	99
B	LIBERTY 1.67 (SL)	0.313	LAA	4					
C	ATRAZINE 90DF (WG)	0.50	LAA	4					
D	AMMONIUM SULFATE	3.00	LMA	4					
4A	BALANCE PRO 4 (SC)	0.055	LAA	1	31	2	93	98	99
B	LIBERTY 1.67 (SL)	0.313	LAA	4					
C	ATRAZINE 90DF (WG)	0.75	LAA	4					
D	AMMONIUM SULFATE	3.00	LMA	4					
5A	AXIOM 68 (DF)	0.64	LAA	1	32	0	99	79	99
B	LIBERTY 1.67 (SL)	0.313	LAA	4					
C	ATRAZINE 90DF (WG)	0.75	LAA	4					
D	AMMONIUM SULFATE	3.00	LMA	4					
6A	LIBERTY ATZ 4.3 (SC)	1.34	LAA	3	33	0	0	0	0
B	AMMONIUM SULFATE	3.00	LMA	3					
7A	ACCENT GOLD (83.8 DF)	0.152	LAA	3	30	17	0	0	0
B	CLARITY (4SL)	0.125	LAA	3					
C	CROP OIL CONCENTRATE	1.00	PMV	3					
D	28%N	2.00	QMA	3					
8A	LEADOFF 5 (SL)	0.94	LAA	1	32	15	83	62	95
B	BASIS GOLD 89.5 (DF)	0.783	LAA	3					
C	CROP OIL CONCENTRATE	1.00	PMV	3					
D	28%N	2.00	QMA	3					
9A	BICEP II MAGNUM 5.5 (L)	2.89	LAA	1	31	0	99	96	99
B	NORTHSTAR 47.4 (WG)	0.148	LAA	4					
C	CROP OIL CONCENTRATE	1.00	PMV	4					
D	28%N	2.00	QMA	4					
10A	OUTLOOK 6 (EC)	0.89	LAA	1	32	0	96	0	99
B	DISTINCT (70WG)	0.175	LAA	4					
C	NIS	0.25	PMV	4					
D	28%N	2.00	QMA	4					
11A	FULTIME 4 (SC)	3.00	LAA	1	30	0	98	95	99
B	ZA1296 4 (SC)	0.094	LAA	4					
C	CROP OIL CONCENTRATE	1.00	PMV	4					
D	28%N	2.00	QMA	4					
12A	LIGHTNING 70 (DG)	0.056	LAA	2	32	0	99	99	99
B	CLARITY (4SL)	0.125	LAA	2					
C	NIS	0.25	PMV	2					
D	28%N	2.00	QMA	2					
13A	LIGHTNING 70 (DG)	0.056	LAA	2	34	3	99	99	99
B	PROWL 3.3EC	1.50	LAA	2					
C	BANVEL (4SL)	0.25	LAA	2					
D	NIS	0.25	PMV	2					
E	AMMONIUM SULFATE	2.50	LMA	2					
14A	LIGHTNING 70 (DG)	0.056	LAA	2	32	0	99	99	99
B	DISTINCT (70WG)	0.175	LAA	2					
C	NIS	0.25	PMV	2					
D	AMMONIUM SULFATE	2.50	LMA	2					

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TRT TREATMENT NUM COMPONENT	DOSAGE		TM	ZEAMD	ZEAMD	SETFA	ABUTH	AMATA	
	RATE	UNIT		17.5 FT 05/30/00	PHY % 06/15/00	CON % 06/15/00	CON % 06/15/00	CON % 06/15/00	
15A»AXIOM 68 (DF)	0.51	LAA	1	29	0	98	82	99	
B»LIBERTY 1.67 (SL)	0.365	LAA	4						
C»AMMONIUM SULFATE	3.00	LMA	4						
16A»AXIOM AT (75WG)	1.31	LAA	1	31	0	98	93	99	
B»LIBERTY 1.67 (SL)	0.365	LAA	4						
C»AMMONIUM SULFATE	3.00	LMA	4						
17A»EPIC 58 (DF)	0.29	LAA	1	30	0	99	98	99	
B»LIBERTY 1.67 (SL)	0.365	LAA	4						
C»AMMONIUM SULFATE	3.00	LMA	4						
18A»AIM (40DF)	0.008	LAA	2	32	5	95	97	99	
B»LIBERTY 1.67 (SL)	0.261	LAA	2						
C»AMMONIUM SULFATE	3.00	LMA	2						
				LSD (0.05)	3.46	3.46	4.85	11.35	0.00
				STANDARD DEVIATION	1.71	1.71	2.40	5.62	0.00

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LOCATION: NASHUA, IA

RESEARCHED BY: IA State University

DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN

PLOT SIZE: 10.00 FT WIDE X 25.00 FT LONG

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			CHEAL	ZEAMD	SETFA	ABUTH	AMATA
		RATE	UNIT	TM	CON % 06/15/00	PHY % 06/30/00	CON % 06/30/00	CON % 06/30/00	CON % 06/30/00
1A	UNTREATED CHECK	0.00	NA	0	0	0	0	0	0
2A	BICEP II MAGNUM 5.5 (L)	2.89	LAA	1	99	2	98	83	99
3A	ATRAZINE 90DF (WG)	1.00	LAA	1	99	5	99	99	99
B	LIBERTY 1.67 (SL)	0.313	LAA	4					
C	ATRAZINE 90DF (WG)	0.50	LAA	4					
D	AMMONIUM SULFATE	3.00	LMA	4					
4A	BALANCE PRO 4 (SC)	0.055	LAA	1	99	7	99	99	99
B	LIBERTY 1.67 (SL)	0.313	LAA	4					
C	ATRAZINE 90DF (WG)	0.75	LAA	4					
D	AMMONIUM SULFATE	3.00	LMA	4					
5A	AXIOM 68 (DF)	0.64	LAA	1	96	7	99	95	99
B	LIBERTY 1.67 (SL)	0.313	LAA	4					
C	ATRAZINE 90DF (WG)	0.75	LAA	4					
D	AMMONIUM SULFATE	3.00	LMA	4					
6A	LIBERTY ATZ 4.3 (SC)	1.34	LAA	3	0	2	99	99	99
B	AMMONIUM SULFATE	3.00	LMA	3					
7A	ACCENT GOLD (83.8 DF)	0.152	LAA	3	0	10	99	98	87
B	CLARITY (4SL)	0.125	LAA	3					
C	CROP OIL CONCENTRATE	1.00	PMV	3					
D	28%N	2.00	QMA	3					
8A	LEADOFF 5 (SL)	0.94	LAA	1	95	5	99	99	99
B	BASIS GOLD 89.5 (DF)	0.783	LAA	3					
C	CROP OIL CONCENTRATE	1.00	PMV	3					
D	28%N	2.00	QMA	3					
9A	BICEP II MAGNUM 5.5 (L)	2.89	LAA	1	99	2	99	99	99
B	NORTHSTAR 47.4 (WG)	0.148	LAA	4					
C	CROP OIL CONCENTRATE	1.00	PMV	4					
D	28%N	2.00	QMA	4					
10A	OUTLOOK 6 (EC)	0.89	LAA	1	94	7	98	93	99
B	DISTINCT (70WG)	0.175	LAA	4					
C	NIS	0.25	PMV	4					
D	28%N	2.00	QMA	4					
11A	FULTIME 4 (SC)	3.00	LAA	1	99	3	95	99	99
B	ZA1296 4 (SC)	0.094	LAA	4					
C	CROP OIL CONCENTRATE	1.00	PMV	4					
D	28%N	2.00	QMA	4					
12A	LIGHTNING 70 (DG)	0.056	LAA	2	99	8	99	99	98
B	CLARITY (4SL)	0.125	LAA	2					
C	NIS	0.25	PMV	2					
D	28%N	2.00	QMA	2					
13A	LIGHTNING 70 (DG)	0.056	LAA	2	99	7	99	99	99
B	PROWL 3.3EC	1.50	LAA	2					
C	BANVEL (4SL)	0.25	LAA	2					
D	NIS	0.25	PMV	2					
E	AMMONIUM SULFATE	2.50	LMA	2					
14A	LIGHTNING 70 (DG)	0.056	LAA	2	99	7	99	99	99
B	DISTINCT (70WG)	0.175	LAA	2					
C	NIS	0.25	PMV	2					
D	AMMONIUM SULFATE	2.50	LMA	2					

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	RATE	UNIT		CON % 06/15/00	PHY % 06/30/00	CON % 06/30/00	CON % 06/30/00	CON % 06/30/00
15A»AXIOM 68 (DF)	0.51	LAA	1	98	5	99	98	99
B»LIBERTY 1.67 (SL)	0.365	LAA	4					
C»AMMONIUM SULFATE	3.00	LMA	4					
16A»AXIOM AT (75WG)	1.31	LAA	1	99	5	99	98	99
B»LIBERTY 1.67 (SL)	0.365	LAA	4					
C»AMMONIUM SULFATE	3.00	LMA	4					
17A»EPIC 58 (DF)	0.29	LAA	1	99	2	99	99	99
B»LIBERTY 1.67 (SL)	0.365	LAA	4					
C»AMMONIUM SULFATE	3.00	LMA	4					
18A»AIM (40DF)	0.008	LAA	2	99	5	80	93	95
B»LIBERTY 1.67 (SL)	0.261	LAA	2					
C»AMMONIUM SULFATE	3.00	LMA	2					
	LSD (0.05)			3.93	4.71	2.17	3.09	2.37
	STANDARD DEVIATION			1.94	2.33	1.08	1.53	1.17

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LOCATION: NASHUA, IA

RESEARCHED BY: IA State University

DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN

PLOT SIZE: 10.00 FT WIDE X 25.00 FT LONG

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			CHEAL	ZEAMD	SETFA	ABUTH	AMATA
		RATE	UNIT	TM	CON % 06/30/00	PHY % 07/19/00	CON % 07/19/00	CON % 07/19/00	CON % 07/19/00
1A	UNTREATED CHECK	0.00	NA	0	0	0	0	0	0
2A	BICEP II MAGNUM 5.5 (L)	2.89	LAA	1	99	2	95	52	99
3A	ATRAZINE 90DF (WG)	1.00	LAA	1	99	0	96	95	99
B	LIBERTY 1.67 (SL)	0.313	LAA	4					
C	ATRAZINE 90DF (WG)	0.50	LAA	4					
D	AMMONIUM SULFATE	3.00	LMA	4					
4A	BALANCE PRO 4 (SC)	0.055	LAA	1	99	0	96	98	99
B	LIBERTY 1.67 (SL)	0.313	LAA	4					
C	ATRAZINE 90DF (WG)	0.75	LAA	4					
D	AMMONIUM SULFATE	3.00	LMA	4					
5A	AXIOM 68 (DF)	0.64	LAA	1	99	0	98	95	99
B	LIBERTY 1.67 (SL)	0.313	LAA	4					
C	ATRAZINE 90DF (WG)	0.75	LAA	4					
D	AMMONIUM SULFATE	3.00	LMA	4					
6A	LIBERTY ATZ 4.3 (SC)	1.34	LAA	3	99	0	95	96	99
B	AMMONIUM SULFATE	3.00	LMA	3					
7A	ACCENT GOLD (83.8 DF)	0.152	LAA	3	99	7	99	98	70
B	CLARITY (4SL)	0.125	LAA	3					
C	CROP OIL CONCENTRATE	1.00	PMV	3					
D	28%N	2.00	QMA	3					
8A	LEADOFF 5 (SL)	0.94	LAA	1	99	2	99	96	98
B	BASIS GOLD 89.5 (DF)	0.783	LAA	3					
C	CROP OIL CONCENTRATE	1.00	PMV	3					
D	28%N	2.00	QMA	3					
9A	BICEP II MAGNUM 5.5 (L)	2.89	LAA	1	99	2	99	99	99
B	NORTHSTAR 47.4 (WG)	0.148	LAA	4					
C	CROP OIL CONCENTRATE	1.00	PMV	4					
D	28%N	2.00	QMA	4					
10A	OUTLOOK 6 (EC)	0.89	LAA	1	99	2	95	93	99
B	DISTINCT (70WG)	0.175	LAA	4					
C	NIS	0.25	PMV	4					
D	28%N	2.00	QMA	4					
11A	FULTIME 4 (SC)	3.00	LAA	1	99	0	83	99	99
B	ZA1296 4 (SC)	0.094	LAA	4					
C	CROP OIL CONCENTRATE	1.00	PMV	4					
D	28%N	2.00	QMA	4					
12A	LIGHTNING 70 (DG)	0.056	LAA	2	99	7	98	99	88
B	CLARITY (4SL)	0.125	LAA	2					
C	NIS	0.25	PMV	2					
D	28%N	2.00	QMA	2					
13A	LIGHTNING 70 (DG)	0.056	LAA	2	99	7	99	99	92
B	PROWL 3.3EC	1.50	LAA	2					
C	BANVEL (4SL)	0.25	LAA	2					
D	NIS	0.25	PMV	2					
E	AMMONIUM SULFATE	2.50	LMA	2					
14A	LIGHTNING 70 (DG)	0.056	LAA	2	99	5	99	99	96
B	DISTINCT (70WG)	0.175	LAA	2					
C	NIS	0.25	PMV	2					
D	AMMONIUM SULFATE	2.50	LMA	2					

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	RATE	UNIT		CON % 06/30/00	PHY % 07/19/00	CON % 07/19/00	CON % 07/19/00	CON % 07/19/00
15A»AXIOM 68 (DF)	0.51	LAA	1	98	3	98	93	96
B»LIBERTY 1.67 (SL)	0.365	LAA	4					
C»AMMONIUM SULFATE	3.00	LMA	4					
16A»AXIOM AT (75WG)	1.31	LAA	1	99	3	95	95	93
B»LIBERTY 1.67 (SL)	0.365	LAA	4					
C»AMMONIUM SULFATE	3.00	LMA	4					
17A»EPIC 58 (DF)	0.29	LAA	1	99	2	93	96	94
B»LIBERTY 1.67 (SL)	0.365	LAA	4					
C»AMMONIUM SULFATE	3.00	LMA	4					
18A»AIM (40DF)	0.008	LAA	2	95	2	55	80	88
B»LIBERTY 1.67 (SL)	0.261	LAA	2					
C»AMMONIUM SULFATE	3.00	LMA	2					
	LSD (0.05)			0.898	5.33	9.25	6.83	9.72
	STANDARD DEVIATION			0.444	2.64	4.58	3.38	4.81

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DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN

PLOT SIZE: 10.00 FT WIDE X 25.00 FT LONG

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			CHEAL CON % 07/19/00	YIELD BU/A 10/11/00
		RATE	UNIT	TM		
1A	UNTREATED CHECK	0.00	NA	0	0	101
2A	BICEP II MAGNUM 5.5 (L)	2.89	LAA	1	99	162
3A	ATRAZINE 90DF (WG)	1.00	LAA	1	99	144
B	LIBERTY 1.67 (SL)	0.313	LAA	4		
C	ATRAZINE 90DF (WG)	0.50	LAA	4		
D	AMMONIUM SULFATE	3.00	LMA	4		
4A	BALANCE PRO 4 (SC)	0.055	LAA	1	99	166
B	LIBERTY 1.67 (SL)	0.313	LAA	4		
C	ATRAZINE 90DF (WG)	0.75	LAA	4		
D	AMMONIUM SULFATE	3.00	LMA	4		
5A	AXIOM 68 (DF)	0.64	LAA	1	99	163
B	LIBERTY 1.67 (SL)	0.313	LAA	4		
C	ATRAZINE 90DF (WG)	0.75	LAA	4		
D	AMMONIUM SULFATE	3.00	LMA	4		
6A	LIBERTY ATZ 4.3 (SC)	1.34	LAA	3	99	156
B	AMMONIUM SULFATE	3.00	LMA	3		
7A	ACCENT GOLD (83.8 DF)	0.152	LAA	3	99	143
B	CLARITY (4SL)	0.125	LAA	3		
C	CROP OIL CONCENTRATE	1.00	PMV	3		
D	28%N	2.00	QMA	3		
8A	LEADOFF 5 (SL)	0.94	LAA	1	99	158
B	BASIS GOLD 89.5 (DF)	0.783	LAA	3		
C	CROP OIL CONCENTRATE	1.00	PMV	3		
D	28%N	2.00	QMA	3		
9A	BICEP II MAGNUM 5.5 (L)	2.89	LAA	1	99	149
B	NORTHSTAR 47.4 (WG)	0.148	LAA	4		
C	CROP OIL CONCENTRATE	1.00	PMV	4		
D	28%N	2.00	QMA	4		
10A	OUTLOOK 6 (EC)	0.89	LAA	1	99	148
B	DISTINCT (70WG)	0.175	LAA	4		
C	NIS	0.25	PMV	4		
D	28%N	2.00	QMA	4		
11A	FULTIME 4 (SC)	3.00	LAA	1	99	160
B	ZA1296 4 (SC)	0.094	LAA	4		
C	CROP OIL CONCENTRATE	1.00	PMV	4		
D	28%N	2.00	QMA	4		
12A	LIGHTNING 70 (DG)	0.056	LAA	2	99	164
B	CLARITY (4SL)	0.125	LAA	2		
C	NIS	0.25	PMV	2		
D	28%N	2.00	QMA	2		
13A	LIGHTNING 70 (DG)	0.056	LAA	2	99	148
B	PROWL 3.3EC	1.50	LAA	2		
C	BANVEL (4SL)	0.25	LAA	2		
D	NIS	0.25	PMV	2		
E	AMMONIUM SULFATE	2.50	LMA	2		
14A	LIGHTNING 70 (DG)	0.056	LAA	2	99	145
B	DISTINCT (70WG)	0.175	LAA	2		
C	NIS	0.25	PMV	2		
D	AMMONIUM SULFATE	2.50	LMA	2		

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DATA MEAN

TITLE: Postemergence applied Liberty, Liberty ATZ, Lightning, Aim and others for weed control in LLIT corn.

TRT TREATMENT NUM COMPONENT	DOSAGE RATE	UNIT	TM	CHEAL CON % 07/19/00	YIELD BU/A 10/11/00
15A»AXIOM 68 (DF)	0.51	LAA	1	98	161
B»LIBERTY 1.67 (SL)	0.365	LAA	4		
C»AMMONIUM SULFATE	3.00	LMA	4		
16A»AXIOM AT (75WG)	1.31	LAA	1	98	171
B»LIBERTY 1.67 (SL)	0.365	LAA	4		
C»AMMONIUM SULFATE	3.00	LMA	4		
17A»EPIC 58 (DF)	0.29	LAA	1	98	159
B»LIBERTY 1.67 (SL)	0.365	LAA	4		
C»AMMONIUM SULFATE	3.00	LMA	4		
18A»AIM (40DF)	0.008	LAA	2	95	133
B»LIBERTY 1.67 (SL)	0.261	LAA	2		
C»AMMONIUM SULFATE	3.00	LMA	2		
	LSD (0.05)			1.56	26.52
	STANDARD DEVIATION			0.77	13.12

» = SUPPLEMENTAL CHEMICAL

*** TIMING CODES**

- 00 = UNTRCHK / UNTREATED TIMING (FP)
- 01 = PREPRE / PRE 05/02/2000(1)
- 02 = EAPOWE / EPOST 06/02/2000(2)
- 03 = MID_POS / MPOST 06/11/2000(3)
- 04 = POSPOS / POST 06/15/2000(4)