

SOIL INFORMATION

TRIAL INFORMATION

TEXTURE: SIL  
 PH: 6.6  
 %OM: 4.7  
 PREV.CROP: ZEAMD - CORN, DENT  
 %RESIDUE: 0  
 PLOT WIDTH: 10 X 30 FEET

DESIGN: RCB  
 REPS: 3

APPL. NUMBER	01	UNIT
TIMINGS	09	
TYPE	LIQMIX	
APPLICATION DATE	04/16/04	AME
AIR TEMPERATURE	78	F
% REL.HUMIDITY	40	
WIND DIRECTION	SOUTHWEST	
WIND SPEED	9.0	M/H
CLOUD COVER	CLEAR	
DEW	NO	
SOIL MOISTURE	DRY/MOIST	
SOIL CONDITION	---	
METHOD	SPRAY	
EQUIPMENT	SPRBAC	
PROPELLANT	COMCO2	
PLACEMENT	BRFOSO	
NOZZLE	FLATFAN	
NOZZLE NUMBER	6	
NOZZLE SPACING	20.000	IN
SWATH WIDTH	10.0	FT
SPRAY VOLUME	20.00	
VOLUME UNIT	GPA	
PRESSURE	32.00	PSI
DILUENT	WATER	
INC. DATE		AME
INC. START		24H
INC. END		24H
INC. DEPTH		IN
INC. EQUIPMENT	---	
	DN/SG/MMZ	
*** CROP ***		
CORN, DENT	---/01	
PIONEER 34B24	/	IN
04/16/2004		

\* TIMING CODES  
 09 = ----- / PREEMERGENCE

\* STAGE CODE  
 01 = BEGINNING OF IMBIBITION

**TITLE:** Preemergence herbicide programs in corn AS-100  
**CREATED:** 04/01/2004 **REVISED:** 10/21/2004 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Urbana **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 10.00 FT WIDE X 30.00 FT LONG **REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	ZEAMD	SETFA	CHEAL	POLPY	ABUTH	PHBPU
		RATE	UNIT		CON % 05/17/04	CON % 05/17/04	CON % 05/17/04	CON % 05/17/04	CON % 05/17/04	CON % 05/17/04
1A	BICEP II MAGNU	3.58	LAA	9	0	95	99	99	73	75
2A	BICEP II MAGNU	3.58	LAA	9	0	97	99	99	87	84
B	BALANCE PRO 4S	0.047	LAA	9						
3A	STALWART EXTRA	3.58	LAA	9	0	94	99	99	73	68
4A	STALWART EXTRA	3.58	LAA	9	0	94	99	99	73	68
B	BALANCE PRO 4S	0.047	LAA	9						
5A	BICEP II MAGNU	3.58	LAA	9	0	99	99	99	77	74
B	PRINCEP 4L	1.00	LAA	9						
6A	LUMAX 3.9L	2.13	LAA	9	0	93	99	99	96	82
7A	LUMAX 3.9L	2.95	LAA	9	0	96	99	99	99	82
8A	LUMAX 3.9L	2.95	LAA	9	0	99	99	99	99	91
B	PRINCEP 4L	1.00	LAA	9						
9A	LUMAX 3.9L	2.95	LAA	9	0	96	99	99	99	88
B	ATRAZINE DF	1.00	LAA	9						
10A	LEXAR 3.7L	2.32	LAA	9	0	96	99	99	99	83
11A	LEXAR 3.7L	2.76	LAA	9	0	98	99	99	99	88
12A	LEXAR 3.7L	3.23	LAA	9	0	96	99	99	99	85
13A	LEXAR 3.7L	2.76	LAA	9	0	99	99	99	99	86
B	PRINCEP 4L	1.00	LAA	9						
14A	LEXAR 3.7L	3.23	LAA	9	0	98	99	99	99	88
B	PRINCEP 4L	1.00	LAA	9						
15A	CAMIX 3.66L	2.20	LAA	9	3	98	99	99	99	86
B	PRINCEP 4L	1.00	LAA	9						
16A	HARNESS EXTRA	3.78	LAA	9	0	99	99	99	85	77
17A	DEGREE XTRA 4S	3.33	LAA	9	0	99	99	99	77	73
18A	USA 2001 71.5W	0.66	LAA	9	0	99	99	99	99	86
B	ATRAZINE DF	1.00	LAA	9						
19A	USA 2005 4L	0.63	LAA	9	0	99	99	99	99	70
20A	USA 2005 4L	0.63	LAA	9	0	94	99	99	95	82
B	ATRAZINE DF	1.00	LAA	9						
21A	BALANCE PRO 4S	0.047	LAA	9	0	90	99	99	94	82
B	ATRAZINE DF	1.00	LAA	9						
22A	BALANCE PRO 4S	0.086	LAA	9	0	90	99	99	98	78
B	ATRAZINE DF	1.00	LAA	9						
23A	BALANCE PRO 4S	0.054	LAA	9	0	94	99	99	94	82
B	DEFINE 4SC	0.46	LAA	9						
24A	BALANCE PRO 4S	0.08	LAA	9	0	98	98	99	98	82
B	DEFINE 4SC	0.67	LAA	9						
25A	BALANCE PRO 4S	0.039	LAA	9	0	98	99	99	99	89
B	DEFINE 4SC	0.375	LAA	9						
C	ATRAZINE DF	1.00	LAA	9						
26A	BALANCE PRO 4S	0.07	LAA	9	0	96	99	99	99	86
B	DEFINE 4SC	0.375	LAA	9						
C	ATRAZINE DF	1.00	LAA	9						

## TITLE: Preemergence herbicide programs in corn AS-100

TRT NUM	TREATMENT COMPONENT	DOSAGE			ZEAMD	SETFA	CHEAL	POLPY	ABUTH	PHBPU	
		RATE	UNIT	TM	CON % 05/17/04	CON % 05/17/04	CON % 05/17/04	CON % 05/17/04	CON % 05/17/04	CON % 05/17/04	
27A	»EPIC PRO 4L	0.435	LAA	9	0	95	99	99	99	82	
	B ATRAZINE DF	1.00	LAA	9							
28A	CHECK	0.00	NA	0	0	0	0	0	0	0	
29A	»KEYSTONE 5.25L	4.20	LAA	9	0	99	99	99	83	83	
30A	»KEYSTONE 5.25L	3.50	LAA	9	0	98	99	99	95	83	
	B»HORNET 68.5WG	0.17	LAA	9							
31A	»FULTIME 4SC	3.30	LAA	9	0	98	99	99	98	88	
	B»HORNET 68.5WG	0.17	LAA	9							
32A	»GUARDS MAX 5L	2.88	LAA	9	0	98	99	99	90	86	
33A	»GUARDS MAX 5L	2.50	LAA	9	0	98	99	99	99	90	
	B»BALANCE PRO 4S	0.047	LAA	9							
34A	»WEED FREE	0.00	NA	9	0	99	99	99	99	99	
35A	»KIH ATZ-B 57.8	1.38	LAA	9	0	95	99	99	93	94	
36A	»KIH ATZ-C 55.7	1.83	LAA	9	0	97	99	99	72	72	
					LSD (0.05)	1.56	4.94	0.311	0.00	8.46	9.08
					STANDARD DEVIATION	0.786	2.49	0.157	0.00	4.27	4.59

**TITLE:** Preemergence herbicide programs in corn AS-100  
**CREATED:** 04/01/2004 **REVISED:** 10/21/2004 **COMPLETED:** N  
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**LOCATION:** Urbana **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 10.00 FT WIDE X 30.00 FT LONG **REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	ZEAMD	SETFA	CHEAL	POLPY	ABUTH	PHBPU
		RATE	UNIT		CON % 06/19/04	CON % 06/19/04	CON % 06/19/04	CON % 06/19/04	CON % 06/19/04	CON % 06/19/04
1A	BICEP II MAGNU	3.58	LAA	9	0	81	91	99	27	38
2A	BICEP II MAGNU	3.58	LAA	9	0	95	99	99	93	40
B	BALANCE PRO 4S	0.047	LAA	9						
3A	STALWART EXTRA	3.58	LAA	9	0	81	99	99	25	23
4A	STALWART EXTRA	3.58	LAA	9	0	93	99	99	99	33
B	BALANCE PRO 4S	0.047	LAA	9						
5A	BICEP II MAGNU	3.58	LAA	9	0	93	89	99	27	30
B	PRINCEP 4L	1.00	LAA	9						
6A	LUMAX 3.9L	2.13	LAA	9	0	86	99	99	75	37
7A	LUMAX 3.9L	2.95	LAA	9	0	88	99	99	99	50
8A	LUMAX 3.9L	2.95	LAA	9	0	90	99	99	99	70
B	PRINCEP 4L	1.00	LAA	9						
9A	LUMAX 3.9L	2.95	LAA	9	0	86	99	99	99	60
B	ATRAZINE DF	1.00	LAA	9						
10A	LEXAR 3.7L	2.32	LAA	9	0	72	99	99	93	45
11A	LEXAR 3.7L	2.76	LAA	9	0	90	99	99	99	68
12A	LEXAR 3.7L	3.23	LAA	9	0	95	99	99	99	79
13A	LEXAR 3.7L	2.76	LAA	9	0	96	99	99	99	60
B	PRINCEP 4L	1.00	LAA	9						
14A	LEXAR 3.7L	3.23	LAA	9	0	92	99	99	99	72
B	PRINCEP 4L	1.00	LAA	9						
15A	CAMIX 3.66L	2.20	LAA	9	0	84	99	99	91	43
B	PRINCEP 4L	1.00	LAA	9						
16A	HARNESS EXTRA	3.78	LAA	9	0	73	99	99	42	30
17A	DEGREE XTRA 4S	3.33	LAA	9	0	80	99	99	37	33
18A	USA 2001 71.5W	0.66	LAA	9	0	95	99	99	93	50
B	ATRAZINE DF	1.00	LAA	9						
19A	USA 2005 4L	0.63	LAA	9	0	99	99	99	70	23
20A	USA 2005 4L	0.63	LAA	9	0	96	99	99	67	33
B	ATRAZINE DF	1.00	LAA	9						
21A	BALANCE PRO 4S	0.047	LAA	9	0	60	80	99	43	27
B	ATRAZINE DF	1.00	LAA	9						
22A	BALANCE PRO 4S	0.086	LAA	9	0	73	99	99	99	35
B	ATRAZINE DF	1.00	LAA	9						
23A	BALANCE PRO 4S	0.054	LAA	9	0	93	99	99	33	18
B	DEFINE 4SC	0.46	LAA	9						
24A	BALANCE PRO 4S	0.08	LAA	9	0	93	99	99	99	20
B	DEFINE 4SC	0.67	LAA	9						
25A	BALANCE PRO 4S	0.039	LAA	9	0	99	99	99	80	48
B	DEFINE 4SC	0.375	LAA	9						
C	ATRAZINE DF	1.00	LAA	9						
26A	BALANCE PRO 4S	0.07	LAA	9	0	91	99	99	94	48
B	DEFINE 4SC	0.375	LAA	9						
C	ATRAZINE DF	1.00	LAA	9						

## TITLE: Preemergence herbicide programs in corn AS-100

TRT NUM	TREATMENT COMPONENT	DOSAGE			ZEAMD	SETFA	CHEAL	POLPY	ABUTH	PHBPU	
		RATE	UNIT	TM	CON % 06/19/04	CON % 06/19/04	CON % 06/19/04	CON % 06/19/04	CON % 06/19/04	CON % 06/19/04	
27A	»EPIC PRO 4L	0.435	LAA	9	0	93	99	99	99	42	
	B ATRAZINE DF	1.00	LAA	9							
28A	CHECK	0.00	NA	0	0	0	0	0	0	0	
29A	»KEYSTONE 5.25L	4.20	LAA	9	0	90	99	99	40	37	
30A	»KEYSTONE 5.25L	3.50	LAA	9	0	96	99	99	62	42	
	B»HORNET 68.5WG	0.17	LAA	9							
31A	»FULTIME 4SC	3.30	LAA	9	0	95	99	99	52	37	
	B»HORNET 68.5WG	0.17	LAA	9							
32A	»GUARDS MAX 5L	2.88	LAA	9	0	95	99	99	45	33	
33A	»GUARDS MAX 5L	2.50	LAA	9	0	88	99	91	43	32	
	B»BALANCE PRO 4S	0.047	LAA	9							
34A	»WEED FREE	0.00	NA	9	0	99	99	99	99	99	
35A	»KIH ATZ-B 57.8	1.38	LAA	9	0	90	99	99	62	58	
36A	»KIH ATZ-C 55.7	1.83	LAA	9	0	88	99	99	47	53	
					LSD (0.05)	0.00	19.19	16.91	16.00	22.86	18.33
					STANDARD DEVIATION	0.00	9.69	8.54	8.09	11.54	9.26

**TITLE:** Preemergence herbicide programs in corn AS-100  
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**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Urbana **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 10.00 FT **WIDE X** 30.00 FT **LONG** **REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		YIELD BU/A 09/21/04
		RATE	UNIT	
1A	BICEP II MAGNU	3.58	LAA 9	169.2
2A	BICEP II MAGNU	3.58	LAA 9	183.9
B	BALANCE PRO 4S	0.047	LAA 9	
3A	STALWART EXTRA	3.58	LAA 9	170.9
4A	STALWART EXTRA	3.58	LAA 9	170.6
B	BALANCE PRO 4S	0.047	LAA 9	
5A	BICEP II MAGNU	3.58	LAA 9	167.1
B	PRINCEP 4L	1.00	LAA 9	
6A	LUMAX 3.9L	2.13	LAA 9	187.8
7A	LUMAX 3.9L	2.95	LAA 9	175.5
8A	LUMAX 3.9L	2.95	LAA 9	203.2
B	PRINCEP 4L	1.00	LAA 9	
9A	LUMAX 3.9L	2.95	LAA 9	195.8
B	ATRAZINE DF	1.00	LAA 9	
10A	LEXAR 3.7L	2.32	LAA 9	188.6
11A	LEXAR 3.7L	2.76	LAA 9	202.8
12A	LEXAR 3.7L	3.23	LAA 9	205.8
13A	LEXAR 3.7L	2.76	LAA 9	207.3
B	PRINCEP 4L	1.00	LAA 9	
14A	LEXAR 3.7L	3.23	LAA 9	222.0
B	PRINCEP 4L	1.00	LAA 9	
15A	CAMIX 3.66L	2.20	LAA 9	192.5
B	PRINCEP 4L	1.00	LAA 9	
16A	HARNESS EXTRA	3.78	LAA 9	161.8
17A	DEGREE XTRA 4S	3.33	LAA 9	156.6
18A	USA 2001 71.5W	0.66	LAA 9	188.0
B	ATRAZINE DF	1.00	LAA 9	
19A	USA 2005 4L	0.63	LAA 9	170.5
20A	USA 2005 4L	0.63	LAA 9	184.1
B	ATRAZINE DF	1.00	LAA 9	
21A	BALANCE PRO 4S	0.047	LAA 9	165.7
B	ATRAZINE DF	1.00	LAA 9	
22A	BALANCE PRO 4S	0.086	LAA 9	181.3
B	ATRAZINE DF	1.00	LAA 9	
23A	BALANCE PRO 4S	0.054	LAA 9	137.8
B	DEFINE 4SC	0.46	LAA 9	
24A	BALANCE PRO 4S	0.08	LAA 9	136.5
B	DEFINE 4SC	0.67	LAA 9	
25A	BALANCE PRO 4S	0.039	LAA 9	169.6
B	DEFINE 4SC	0.375	LAA 9	
C	ATRAZINE DF	1.00	LAA 9	
26A	BALANCE PRO 4S	0.07	LAA 9	187.8
B	DEFINE 4SC	0.375	LAA 9	
C	ATRAZINE DF	1.00	LAA 9	

TITLE: Preemergence herbicide programs in corn AS-100

TRT NUM	TREATMENT COMPONENT	DOSAGE		YIELD BU/A 09/21/04
		RATE	UNIT	
27A	»EPIC PRO 4L	0.435	LAA 9	171.5
	B ATRAZINE DF	1.00	LAA 9	
28A	CHECK	0.00	NA 0	80.6
29A	»KEYSTONE 5.25L	4.20	LAA 9	174.3
30A	»KEYSTONE 5.25L	3.50	LAA 9	177.6
	B»HORNET 68.5WG	0.17	LAA 9	
31A	»FULTIME 4SC	3.30	LAA 9	166.9
	B»HORNET 68.5WG	0.17	LAA 9	
32A	»GUARDS MAX 5L	2.88	LAA 9	160.4
33A	»GUARDS MAX 5L	2.50	LAA 9	173.4
	B»BALANCE PRO 4S	0.047	LAA 9	
34A	»WEED FREE	0.00	NA 9	206.0
35A	»KIH ATZ-B 57.8	1.38	LAA 9	178.3
36A	»KIH ATZ-C 55.7	1.83	LAA 9	188.4
		LSD (0.05)		36.29
		STANDARD DEVIATION		18.33

» = SUPPLEMENTAL CHEMICAL

\* TIMING CODES

00 = ----- / UNTREATED TIMING

09 = ----- / PREEMERGENCE 04/16/2004(1)

H#	CUSTOM#1	CUSTOM#2	EV. DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTR	SS	NOTE
001	ZEAMD	CON %	05/17/2004	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	SETFA	CON %	05/17/2004	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	CHEAL	CON %	05/17/2004	03	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	POLPY	CON %	05/17/2004	04	P	POLPY		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	ABUTH	CON %	05/17/2004	05	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	PHBPU	CON %	05/17/2004	06	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	ZEAMD	CON %	06/19/2004	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	SETFA	CON %	06/19/2004	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	CHEAL	CON %	06/19/2004	03	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	POLPY	CON %	06/19/2004	04	P	POLPY		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	ABUTH	CON %	06/19/2004	05	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	PHBPU	CON %	06/19/2004	06	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
013	YIELD	BU/A	09/21/2004	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

\* SPECIES COMMON NAME - CULTIVAR (IF APPLICABLE)

01 = PIONEER 34B24