

SOIL INFORMATION

TRIAL INFORMATION

TEXTURE: SIL
 PH: 6.3
 %OM: 4.7
 PREV.CROP: ZEAMD - CORN, DENT
 %RESIDUE: 0
 PLOT WIDTH: 7.5 X 36 FEET

DESIGN: RCB
 REPS: 3

APPL. NUMBER	01	UNIT
TIMINGS	12	
TYPE	LIQMIX	
APPLICATION DATE	06/23/03	AME
AIR TEMPERATURE	84	F
% REL.HUMIDITY	42	
WIND DIRECTION	SOUTH	
WIND SPEED	6.0	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	5	
NOZZLE SPACING	18.000	IN
SWATH WIDTH	7.5	FT
SPRAY VOLUME	20.00	
VOLUME UNIT	GPA	
PRESSURE	42.00	PSI
DILUENT	WATER	
INC. DATE		AME
INC. START		24H
INC. END		24H
INC. DEPTH		IN
INC. EQUIPMENT	---	
	DN/SG/MMZ	
*** CROP ***		
SOYBEAN	---/16	
PIONEER 93B67	12.0/12.0	IN
05/13/2003		
*** PEST ***		
RAGWEED, COMMON	---/18	
	6.00/12.0	IN
LAMBSQUARTERS, C	---/19	
	4.00/8.00	IN
MORNINGGLORY, TA	---/18	
	3.00/6.00	IN
SMARTWEED, PENNS	---/19	
	4.00/8.00	IN
FOXTAIL, GIANT	---/14	
	6.00/12.0	IN
COCKLEBUR, COMMO	---/16	
	4.00/8.00	IN

* TIMING CODES
 12 = ----- / POST

* STAGE CODE
 14 = 4 LEAVES UNFOLDED
 16 = 6TH LEAF (4TH TRIFOLIATE LEAF) UNFOLDED, 5 NODES
 18 = 8TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
 19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

TITLE: Citric acid for glyphosate additive effect in Soybean c-400

CREATED: 06/16/2003 REVISED: 11/05/2003

COMPLETED: N

PROJECT TYPE: HERBICIDE

LOCATION: Urbana

RESEARCHED BY: UNIV. OF ILL

DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN

PLOT SIZE: 7.50 FT WIDE X 36.00 FT LONG

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			GLXMA	AMBEL	XANST	CHEAL	PHBPU	SETFA
		RATE	UNIT	TM	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03
1A	WEATHERMAX 4.5	0.75	LAA	12	0	73	99	83	40	99
2A	WEATHERMAX 4.5	0.75	LAA	12	0	72	99	85	40	99
B	LIQUID AMS	2.50	PMV	12						
3A	WEATHERMAX 4.5	0.75	LAA	12	0	73	99	83	40	99
B	CITRIC ACID SG	2.20	PMG	12						
4A	WEATHERMAX 4.5	0.75	LAA	12	0	72	99	75	40	99
B	CITRIC ACID SG	4.40	PMG	12						
5A	WEATHERMAX 4.5	0.75	LAA	12	0	72	99	83	37	98
B	LIQUID AMS	2.50	PMV	12						
C	CITRIC ACID SG	2.20	PMG	12						
6A	WEATHERMAX 4.5	0.75	LAA	12	0	73	98	82	40	99
B	LIQUID AMS	2.50	PMV	12						
C	CITRIC ACID SG	4.40	PMG	12						
7A	WEATHERMAX 4.5	0.38	LAA	12	0	42	87	52	17	87
8A	WEATHERMAX 4.5	0.38	LAA	12	0	55	85	67	27	90
B	LIQUID AMS	2.50	PMV	12						
9A	WEATHERMAX 4.5	0.38	LAA	12	0	40	82	57	23	87
B	CITRIC ACID SG	2.20	PMG	12						
10A	WEATHERMAX 4.5	0.38	LAA	12	0	40	83	48	23	87
B	CITRIC ACID SG	4.40	PMG	12						
11A	WEATHERMAX 4.5	0.38	LAA	12	0	57	88	72	30	93
B	LIQUID AMS	2.50	PMV	12						
C	CITRIC ACID SG	2.20	PMG	12						
12A	WEATHERMAX 4.5	0.38	LAA	12	0	43	85	55	47	93
B	LIQUID AMS	2.50	PMV	12						
C	CITRIC ACID SG	4.40	PMG	12						
13A	WEATHERMAX 4.5	0.188	LAA	12	0	20	57	37	10	63
14A	RNDUP ULTRA MA	0.188	LAA	12	0	23	70	37	10	78
B	LIQUID AMS	2.50	PMV	12						
15A	WEATHERMAX 4.5	0.188	LAA	12	0	30	80	40	10	70
B	CITRIC ACID SG	2.20	PMG	12						
16A	WEATHERMAX 4.5	0.188	LAA	12	0	23	72	37	13	77
B	CITRIC ACID SG	4.40	PMG	12						
17A	WEATHERMAX 4.5	0.188	LAA	12	0	20	77	40	10	70
B	LIQUID AMS	2.50	PMV	12						
C	CITRIC ACID SG	2.20	PMG	12						
18A	WEATHERMAX 4.5	0.188	LAA	12	0	23	67	40	10	62
B	LIQUID AMS	2.50	PMV	12						
C	CITRIC ACID SG	4.40	PMG	12						
19A	ROUNDUP ORIGIN	0.375	LAA	12	0	40	85	40	10	85
B	ACTIVATOR 90	0.25	PMV	12						
20A	ROUNDUP ORIGIN	0.375	LAA	12	0	42	87	40	20	88
B	ACTIVATOR 90	0.25	PMV	12						
C	CITRIC ACID SG	2.20	PMG	12						
21A	TOUCHDN KPMG 4	0.38	LAA	12	0	47	92	47	20	85
B	LIQUID AMS	2.50	PMV	12						

TITLE: Citric acid for glyphosate additive effect in Soybean c-400

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	GLXMA	AMBEL	XANST	CHEAL	PHBPU	SETFA
		RATE	UNIT		CON % 07/03/03	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03
22A	TOUCHDN KPMG 4	0.38	LAA	12	0	40	88	45	23	85
	B»LIQUID AMS	2.50	PMV	12						
	C»CITRIC ACID SG	4.40	PMG	12						
23A	GLYPHOMAX HC 5	0.38	LAA	12	0	40	92	40	20	92
	B»LIQUID AMS	2.50	PMV	12						
24A	GLYPHOMAX HC 5	0.38	LAA	12	0	63	87	40	20	88
	B»LIQUID AMS	2.50	PMV	12						
	C»CITRIC ACID SG	4.40	PMG	12						
		LSD (0.05)			0.00	11.33	6.38	10.84	14.60	7.41
		STANDARD DEVIATION			0.00	5.67	3.19	5.42	7.30	3.71

TITLE: Citric acid for glyphosate additive effect in Soybean c-400

CREATED: 06/16/2003 REVISED: 11/05/2003

COMPLETED: N

PROJECT TYPE: HERBICIDE

LOCATION: Urbana

RESEARCHED BY: UNIV. OF ILL

DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN

PLOT SIZE: 7.50 FT WIDE X 36.00 FT LONG

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			POLPY	GLXMA	AMBEL	XANST	CHEAL	PHBPU
		RATE	UNIT	TM	CON % 07/03/03	CON % 07/29/03	CON % 07/29/03	CON % 07/29/03	CON % 07/29/03	CON % 07/29/03
1A	WEATHERMAX 4.5	0.75	LAA	12	82	0	72	95	88	70
2A	WEATHERMAX 4.5	0.75	LAA	12	77	0	70	95	90	55
B	LIQUID AMS	2.50	PMV	12						
3A	WEATHERMAX 4.5	0.75	LAA	12	78	0	73	93	85	68
B	CITRIC ACID SG	2.20	PMG	12						
4A	WEATHERMAX 4.5	0.75	LAA	12	68	0	80	95	83	53
B	CITRIC ACID SG	4.40	PMG	12						
5A	WEATHERMAX 4.5	0.75	LAA	12	75	0	75	96	93	60
B	LIQUID AMS	2.50	PMV	12						
C	CITRIC ACID SG	2.20	PMG	12						
6A	WEATHERMAX 4.5	0.75	LAA	12	77	0	88	95	88	60
B	LIQUID AMS	2.50	PMV	12						
C	CITRIC ACID SG	4.40	PMG	12						
7A	WEATHERMAX 4.5	0.38	LAA	12	40	0	65	90	57	30
8A	WEATHERMAX 4.5	0.38	LAA	12	43	0	63	83	67	37
B	LIQUID AMS	2.50	PMV	12						
9A	WEATHERMAX 4.5	0.38	LAA	12	33	0	37	78	57	50
B	CITRIC ACID SG	2.20	PMG	12						
10A	WEATHERMAX 4.5	0.38	LAA	12	40	0	50	80	57	37
B	CITRIC ACID SG	4.40	PMG	12						
11A	WEATHERMAX 4.5	0.38	LAA	12	40	0	63	83	63	57
B	LIQUID AMS	2.50	PMV	12						
C	CITRIC ACID SG	2.20	PMG	12						
12A	WEATHERMAX 4.5	0.38	LAA	12	43	0	43	80	47	47
B	LIQUID AMS	2.50	PMV	12						
C	CITRIC ACID SG	4.40	PMG	12						
13A	WEATHERMAX 4.5	0.188	LAA	12	20	0	30	81	30	30
14A	RNDUP ULTRA MA	0.188	LAA	12	20	0	30	80	30	30
B	LIQUID AMS	2.50	PMV	12						
15A	WEATHERMAX 4.5	0.188	LAA	12	20	0	37	80	30	30
B	CITRIC ACID SG	2.20	PMG	12						
16A	WEATHERMAX 4.5	0.188	LAA	12	20	0	30	80	30	30
B	CITRIC ACID SG	4.40	PMG	12						
17A	WEATHERMAX 4.5	0.188	LAA	12	20	0	30	80	30	37
B	LIQUID AMS	2.50	PMV	12						
C	CITRIC ACID SG	2.20	PMG	12						
18A	WEATHERMAX 4.5	0.188	LAA	12	20	0	30	80	30	30
B	LIQUID AMS	2.50	PMV	12						
C	CITRIC ACID SG	4.40	PMG	12						
19A	ROUNDUP ORIGIN	0.375	LAA	12	30	0	70	83	37	50
B	ACTIVATOR 90	0.25	PMV	12						
20A	ROUNDUP ORIGIN	0.375	LAA	12	42	0	70	87	63	43
B	ACTIVATOR 90	0.25	PMV	12						
C	CITRIC ACID SG	2.20	PMG	12						
21A	TOUCHDN KPMG 4	0.38	LAA	12	33	0	72	90	72	50
B	LIQUID AMS	2.50	PMV	12						

TITLE: Citric acid for glyphosate additive effect in Soybean c-400

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	POLPY	GLXMA	AMBEL	XANST	CHEAL	PHBPU
		RATE	UNIT		CON % 07/03/03	CON % 07/29/03	CON % 07/29/03	CON % 07/29/03	CON % 07/29/03	CON % 07/29/03
22A	TOUCHDN KPMG 4	0.38	LAA 12		30	0	73	88	60	50
	B»LIQUID AMS	2.50	PMV 12							
	C»CITRIC ACID SG	4.40	PMG 12							
23A	GLYPHOMAX HC 5	0.38	LAA 12		30	0	75	90	63	43
	B»LIQUID AMS	2.50	PMV 12							
24A	GLYPHOMAX HC 5	0.38	LAA 12		37	0	72	90	57	55
	B»LIQUID AMS	2.50	PMV 12							
	C»CITRIC ACID SG	4.40	PMG 12							
			LSD (0.05)		6.73	0.00	10.58	3.93	18.00	16.06
			STANDARD DEVIATION		3.36	0.00	5.29	2.00	9.00	8.00

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COMPLETED: N

PROJECT TYPE: HERBICIDE

LOCATION: Urbana

RESEARCHED BY: UNIV. OF ILL

DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN

PLOT SIZE: 7.50 FT WIDE X 36.00 FT LONG

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	SETFA	POLPY
		RATE	UNIT		CON % 07/29/03	CON % 07/29/03
1A	WEATHERMAX 4.5	0.75	LAA 12		95	95
2A	WEATHERMAX 4.5	0.75	LAA 12		93	96
B	LIQUID AMS	2.50	PMV 12			
3A	WEATHERMAX 4.5	0.75	LAA 12		95	96
B	CITRIC ACID SG	2.20	PMG 12			
4A	WEATHERMAX 4.5	0.75	LAA 12		95	95
B	CITRIC ACID SG	4.40	PMG 12			
5A	WEATHERMAX 4.5	0.75	LAA 12		95	96
B	LIQUID AMS	2.50	PMV 12			
C	CITRIC ACID SG	2.20	PMG 12			
6A	WEATHERMAX 4.5	0.75	LAA 12		95	96
B	LIQUID AMS	2.50	PMV 12			
C	CITRIC ACID SG	4.40	PMG 12			
7A	WEATHERMAX 4.5	0.38	LAA 12		87	78
8A	WEATHERMAX 4.5	0.38	LAA 12		90	83
B	LIQUID AMS	2.50	PMV 12			
9A	WEATHERMAX 4.5	0.38	LAA 12		90	90
B	CITRIC ACID SG	2.20	PMG 12			
10A	WEATHERMAX 4.5	0.38	LAA 12		78	92
B	CITRIC ACID SG	4.40	PMG 12			
11A	WEATHERMAX 4.5	0.38	LAA 12		93	87
B	LIQUID AMS	2.50	PMV 12			
C	CITRIC ACID SG	2.20	PMG 12			
12A	WEATHERMAX 4.5	0.38	LAA 12		95	87
B	LIQUID AMS	2.50	PMV 12			
C	CITRIC ACID SG	4.40	PMG 12			
13A	WEATHERMAX 4.5	0.188	LAA 12		73	30
14A	RNDUP ULTRA MA	0.188	LAA 12		82	50
B	LIQUID AMS	2.50	PMV 12			
15A	WEATHERMAX 4.5	0.188	LAA 12		72	60
B	CITRIC ACID SG	2.20	PMG 12			
16A	WEATHERMAX 4.5	0.188	LAA 12		73	43
B	CITRIC ACID SG	4.40	PMG 12			
17A	WEATHERMAX 4.5	0.188	LAA 12		70	57
B	LIQUID AMS	2.50	PMV 12			
C	CITRIC ACID SG	2.20	PMG 12			
18A	WEATHERMAX 4.5	0.188	LAA 12		73	43
B	LIQUID AMS	2.50	PMV 12			
C	CITRIC ACID SG	4.40	PMG 12			
19A	ROUNDUP ORIGIN	0.375	LAA 12		92	85
B	ACTIVATOR 90	0.25	PMV 12			
20A	ROUNDUP ORIGIN	0.375	LAA 12		95	87
B	ACTIVATOR 90	0.25	PMV 12			
C	CITRIC ACID SG	2.20	PMG 12			
21A	TOUCHDN KPMG 4	0.38	LAA 12		93	88
B	LIQUID AMS	2.50	PMV 12			

TITLE: Citric acid for glyphosate additive effect in Soybean c-400

TRT	TREATMENT	DOSAGE		SETFA	POLPY
NUM	COMPONENT	RATE	UNIT	CON %	CON %
			TM	07/29/03	07/29/03
22A»	TOUCHDN KPMG 4	0.38	LAA 12	85	90
	B»LIQUID AMS	2.50	PMV 12		
	C»CITRIC ACID SG	4.40	PMG 12		
23A»	GLYPHOMAX HC 5	0.38	LAA 12	80	88
	B»LIQUID AMS	2.50	PMV 12		
24A»	GLYPHOMAX HC 5	0.38	LAA 12	93	88
	B»LIQUID AMS	2.50	PMV 12		
	C»CITRIC ACID SG	4.40	PMG 12		
		LSD (0.05)		9.46	13.00
		STANDARD DEVIATION		4.73	6.52

» = SUPPLEMENTAL CHEMICAL

* TIMING CODES

12 = ----- / POST 06/23/2003(1)

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
001	GLXMA	CON %	07/03/2003	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	AMBEL	CON %	07/03/2003	03	P	AMBEL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	XANST	CON %	07/03/2003	04	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	CHEAL	CON %	07/03/2003	05	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	PHBPU	CON %	07/03/2003	06	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	SETFA	CON %	07/03/2003	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	POLPY	CON %	07/03/2003	07	P	POLPY		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	GLXMA	CON %	07/29/2003	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	AMBEL	CON %	07/29/2003	03	P	AMBEL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	XANST	CON %	07/29/2003	04	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	CHEAL	CON %	07/29/2003	05	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
013	PHBPU	CON %	07/29/2003	06	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	SETFA	CON %	07/29/2003	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
014	POLPY	CON %	07/29/2003	07	P	POLPY		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

* SPECIES COMMON NAME - CULTIVAR (IF APPLICABLE)

01 = PIONEER 93B67