



Acetochlor Plus Atrazine Mixtures with Mesotrione.

Project Code: 05-10B-E170 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX	ZEAMX	ZEAMX	SETFA	SETFA	SETFA	SETFA
																Injury Percent	Injury Percent	Injury Percent	Control Percent	Control Percent	Control Percent	Control Percent
																05-26-05	06-09-05	06-23-05	05-20-05	06-03-05	06-17-05	07-01-05
																14 DAE	28 DAE	42 DAE	14 DA-A	28 DA-A	42 DA-A	56 DA-A
1	MAN-ACE	6.4	EC	0.8	lb ai/a	1	pt/a	PRE	A	0	0	0	85	89	26	18						
2	MAN-ACE	6.4	EC	1.2	lb ai/a	1.5	pt/a	PRE	A	0	0	0	90	90	54	40						
3	MAN-ACE	6.4	EC	1.6	lb ai/a	2	pt/a	PRE	A	0	0	0	91	93	35	28						
4	ACETO+ATRAZ	5.28	L	1.21	lb ai/a	1.83	pt/a	PRE	A	0	0	0	90	90	38	29						
5	ACETO+ATRAZ	5.28	L	1.81	lb ai/a	2.74	pt/a	PRE	A	0	0	0	90	94	65	65						
6	ACETO+ATRAZ	5.28	L	2.41	lb ai/a	3.66	pt/a	PRE	A	0	0	0	90	95	72	68						
7	ACETO+ATRAZ	5.28	L	1.21	lb ai/a	1.83	pt/a	PRE	A	0	0	0	90	89	43	42						
7	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	PRE	A													
8	ACETO+ATRAZ	5.28	L	1.21	lb ai/a	1.83	pt/a	PRE	A	0	0	0	90	91	36	28						
8	CALLISTO	4	SC	0.15	lb ai/a	4.8	fl oz/a	PRE	A													
9	ACETO+ATRAZ	5.28	L	1.81	lb ai/a	2.74	pt/a	PRE	A	0	0	0	91	92	60	46						
9	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	PRE	A													
10	ACETO+ATRAZ	5.28	L	1.81	lb ai/a	2.74	pt/a	PRE	A	0	0	0	90	93	61	49						
10	CALLISTO	4	SC	0.15	lb ai/a	4.8	fl oz/a	PRE	A													
11	ACETO+ATRAZ	5.28	L	2.41	lb ai/a	3.66	pt/a	PRE	A	0	0	0	91	95	73	69						
11	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	PRE	A													
12	ACETO+ATRAZ	5.28	L	2.41	lb ai/a	3.66	pt/a	PRE	A	0	0	0	91	94	75	54						
12	CALLISTO	4	SC	0.15	lb ai/a	4.8	fl oz/a	PRE	A													
13	AATREX	90	WG	0.41	lb ai/a	0.456	lb/a	PRE	A	0	0	0	10	5	0	0						
14	AATREX	90	WG	0.61	lb ai/a	0.68	lb/a	PRE	A	0	0	0	23	18	0	0						
15	AATREX	90	WG	0.81	lb ai/a	0.9	lb/a	PRE	A	0	0	0	21	15	0	0						
16	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	PRE	A	0	0	0	0	5	0	0						
17	CALLISTO	4	SC	0.15	lb ai/a	4.8	fl oz/a	PRE	A	0	0	0	5	5	0	0						
18	NONTREATED									0	0	0	0	0	0	0						
LSD (P=.05)																0.0	0.0	0.0	10.0	9.3	13.8	15.1
Replicate F																0.000	0.000	0.000	2.076	1.635	1.940	4.978
Replicate Prob(F)																1.0000	1.0000	1.0000	0.1149	0.1927	0.1349	0.0042
Treatment F																0.000	0.000	0.000	123.952	156.011	35.715	22.862
Treatment Prob(F)																1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001

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								CYPES	CYPES	CYPES	CYPES	XANST	XANST	XANST	XANST
								Control	Control	Control	Control	Control	Control	Control	Control
								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
								05-20-05	06-03-05	06-17-05	07-01-05	05-20-05	06-03-05	06-17-05	07-01-05
								14 DA-A	28 DA-A	42 DA-A	56 DA-A	14 DA-A	28 DA-A	42 DA-A	56 DA-A
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl							
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code							
1	MAN-ACE	6.4	EC	0.8 lb ai/a	1 pt/a	PRE	A	45	54	42	8	23	25	9	0
2	MAN-ACE	6.4	EC	1.2 lb ai/a	1.5 pt/a	PRE	A	48	43	13	9	29	48	11	0
3	MAN-ACE	6.4	EC	1.6 lb ai/a	2 pt/a	PRE	A	56	60	20	14	39	60	25	0
4	ACETO+ATRAZ	5.28	L	1.21 lb ai/a	1.83 pt/a	PRE	A	55	45	20	9	35	48	23	0
5	ACETO+ATRAZ	5.28	L	1.81 lb ai/a	2.74 pt/a	PRE	A	51	53	14	13	45	56	35	0
6	ACETO+ATRAZ	5.28	L	2.41 lb ai/a	3.66 pt/a	PRE	A	48	66	15	17	50	55	19	3
7	ACETO+ATRAZ	5.28	L	1.21 lb ai/a	1.83 pt/a	PRE	A	55	53	26	11	38	48	14	0
7	CALLISTO	4	SC	0.094 lb ai/a	3 fl oz/a	PRE	A								
8	ACETO+ATRAZ	5.28	L	1.21 lb ai/a	1.83 pt/a	PRE	A	63	60	31	12	45	61	13	0
8	CALLISTO	4	SC	0.15 lb ai/a	4.8 fl oz/a	PRE	A								
9	ACETO+ATRAZ	5.28	L	1.81 lb ai/a	2.74 pt/a	PRE	A	66	60	34	22	51	53	3	0
9	CALLISTO	4	SC	0.094 lb ai/a	3 fl oz/a	PRE	A								
10	ACETO+ATRAZ	5.28	L	1.81 lb ai/a	2.74 pt/a	PRE	A	66	63	18	10	49	61	5	0
10	CALLISTO	4	SC	0.15 lb ai/a	4.8 fl oz/a	PRE	A								
11	ACETO+ATRAZ	5.28	L	2.41 lb ai/a	3.66 pt/a	PRE	A	63	72	15	15	55	76	13	3
11	CALLISTO	4	SC	0.094 lb ai/a	3 fl oz/a	PRE	A								
12	ACETO+ATRAZ	5.28	L	2.41 lb ai/a	3.66 pt/a	PRE	A	70	78	18	12	66	73	10	4
12	CALLISTO	4	SC	0.15 lb ai/a	4.8 fl oz/a	PRE	A								
13	AATREX	90	WG	0.41 lb ai/a	0.456 lb/a	PRE	A	20	21	18	7	8	5	3	0
14	AATREX	90	WG	0.61 lb ai/a	0.68 lb/a	PRE	A	30	28	48	10	18	15	4	0
15	AATREX	90	WG	0.81 lb ai/a	0.9 lb/a	PRE	A	19	31	25	10	20	9	6	0
16	CALLISTO	4	SC	0.094 lb ai/a	3 fl oz/a	PRE	A	19	24	33	18	5	6	3	0
17	CALLISTO	4	SC	0.15 lb ai/a	4.8 fl oz/a	PRE	A	35	76	27	10	16	55	11	0
18	NONTREATED							0	0	0	0	0	0	0	0
LSD (P=.05)								15.4	13.7	14.0	12.1	11.6	11.3	12.6	2.7
Replicate F								11.353	4.140	8.979	6.451	15.023	7.540	4.055	3.169
Replicate Prob(F)								0.0001	0.0106	0.0001	0.0009	0.0001	0.0003	0.0116	0.0320
Treatment F								13.667	19.160	5.331	1.203	21.663	38.644	4.265	1.452
Treatment Prob(F)								0.0001	0.0001	0.0001	0.2961	0.0001	0.0001	0.0001	0.1521

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								ABUTH	ABUTH	ABUTH	ABUTH	AMBTR	AMBTR	AMBTR		
								Control	Control	Control	Control	Control	Control	Control		
								Percent	Percent	Percent	Percent	Percent	Percent	Percent		
								05-20-05	06-03-05	06-17-05	07-01-05	06-03-05	06-17-05	07-01-05		
								14 DA-A	28 DA-A	42 DA-A	56 DA-A	28 DA-A	42 DA-A	56 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
1	MAN-ACE	6.4	EC	0.8	lb ai/a	1	pt/a	PRE	A	10	15	0	1	31	9	8
2	MAN-ACE	6.4	EC	1.2	lb ai/a	1.5	pt/a	PRE	A	18	19	0	0	35	4	0
3	MAN-ACE	6.4	EC	1.6	lb ai/a	2	pt/a	PRE	A	26	29	3	0	29	4	0
4	ACETO+ATRAZ	5.28	L	1.21	lb ai/a	1.83	pt/a	PRE	A	23	58	1	0	61	0	0
5	ACETO+ATRAZ	5.28	L	1.81	lb ai/a	2.74	pt/a	PRE	A	28	35	1	1	36	11	0
6	ACETO+ATRAZ	5.28	L	2.41	lb ai/a	3.66	pt/a	PRE	A	35	63	10	0	63	18	3
7	ACETO+ATRAZ	5.28	L	1.21	lb ai/a	1.83	pt/a	PRE	A	38	80	19	0	75	9	0
7	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	PRE	A							
8	ACETO+ATRAZ	5.28	L	1.21	lb ai/a	1.83	pt/a	PRE	A	48	75	16	1	55	6	1
8	CALLISTO	4	SC	0.15	lb ai/a	4.8	fl oz/a	PRE	A							
9	ACETO+ATRAZ	5.28	L	1.81	lb ai/a	2.74	pt/a	PRE	A	54	64	15	4	80	36	17
9	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	PRE	A							
10	ACETO+ATRAZ	5.28	L	1.81	lb ai/a	2.74	pt/a	PRE	A	56	87	81	34	55	45	11
10	CALLISTO	4	SC	0.15	lb ai/a	4.8	fl oz/a	PRE	A							
11	ACETO+ATRAZ	5.28	L	2.41	lb ai/a	3.66	pt/a	PRE	A	55	90	78	23	88	60	37
11	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	PRE	A							
12	ACETO+ATRAZ	5.28	L	2.41	lb ai/a	3.66	pt/a	PRE	A	75	86	68	50	96	64	41
12	CALLISTO	4	SC	0.15	lb ai/a	4.8	fl oz/a	PRE	A							
13	AATREX	90	WG	0.41	lb ai/a	0.456	lb/a	PRE	A	5	5	6	0	6	26	28
14	AATREX	90	WG	0.61	lb ai/a	0.68	lb/a	PRE	A	13	25	3	0	0	5	6
15	AATREX	90	WG	0.81	lb ai/a	0.9	lb/a	PRE	A	16	25	5	0	9	4	16
16	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	PRE	A	23	16	13	3	11	13	18
17	CALLISTO	4	SC	0.15	lb ai/a	4.8	fl oz/a	PRE	A	35	70	26	0	8	8	22
18	NONTREATED									0	0	0	0	0	0	0
LSD (P=.05)								11.7	13.4	13.0	13.7	19.0	15.1	15.5		
Replicate F								9.906	1.071	0.157	3.212	1.579	2.760	2.731		
Replicate Prob(F)								0.0001	0.3696	0.9245	0.0305	0.2061	0.0516	0.0533		
Treatment F								24.216	42.291	34.655	8.661	22.811	14.248	5.911		
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001		

Trial Comments

1. Protocol: MANA.
2. Ratings: CI 14, 28 and 42 days after emergence, WC 14, 28, 42 and 56 after application.
3. DAE = Days after emergence. DA-A = Days after PRE application.