

University of Georgia

Tomato, cabbage, watermelon, and cucumber response to fall applied V-10204.

Trial ID: Veg7-07

Study Dir.: Davis, Culpepper

Location: Ponder farm (5139)

Investigator: Stanley Culpepper

Reps: 3

Plots: 6 by 10 feet

Spray vol: 14.8 gal/ac

Mix size: 3 liters (min .2315)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep		
											1	2	3
1	No herbicide Plant Date 1 Seeded tomato							A			1001	2037	3073
2	No herbicide Plant Date 1 Seeded cucumber							A			1002	2038	3074
3	No herbicide Plant Date 1 Seeded watermelon							A			1003	2039	3075
4	No herbicide Plant Date 1 Seeded cabbage							A			1004	2040	3076
5	No herbicide Plant Date 2 Seeded tomato							A			1005	2041	3077
6	No herbicide Plant Date 2 Seeded cucumber							A			1006	2042	3078
7	No herbicide Plant Date 2 Seeded watermelon							A			1007	2043	3079
8	No herbicide Plant Date 2 Seeded cabbage							A			1008	2044	3080
9	No herbicide Plant Date 3 Seeded tomato							A			1009	2045	3081
10	No herbicide Plant Date 3 Seeded cucumber							A			1010	2046	3082
11	No herbicide Plant Date 3 Seeded watermelon							A			1011	2047	3083
12	No herbicide Plant Date 3 Seeded cabbage							A			1012	2048	3084
13	V-10204 Plant Date 1 Seeded tomato	60		WG	0.106	LB	A/A	Fall	A	4.291 g/mx	1013	2085	3085
14	V-10204 Plant Date 1 Seeded cucumber	60		WG	0.106	LB	A/A	Fall	A	4.291 g/mx	1014	2086	3086
15	V-10204 Plant Date 1 Seeded watermelon	60		WG	0.106	LB	A/A	Fall	A	4.291 g/mx	1015	2087	3087
16	V-10204 Plant Date 1 Seeded cabbage	60		WG	0.106	LB	A/A	Fall	A	4.291 g/mx	1016	2088	3088

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										1	2	3
17	V-10204 Plant Date 2 Seeded tomato	60		WG	0.106	LB A/A	Fall	A	4.291 g/mx	1017	2089	3089
18	V-10204 Plant Date 2 Seeded cucumber	60		WG	0.106	LB A/A	Fall	A	4.291 g/mx	1018	2090	3090
19	V-10204 Plant Date 2 Seeded watermelon	60		WG	0.106	LB A/A	Fall	A	4.291 g/mx	1019	2091	3091
20	V-10204 Plant Date 2 Seeded cabbage	60		WG	0.106	LB A/A	Fall	A	4.291 g/mx	1020	2092	3092
21	V-10204 Plant Date 3 Seeded tomato	60		WG	0.106	LB A/A	Fall	A	4.291 g/mx	1021	2093	3093
22	V-10204 Plant Date 3 Seeded cucumber	60		WG	0.106	LB A/A	Fall	A	4.291 g/mx	1022	2094	3094
23	V-10204 Plant Date 3 Seeded watermelon	60		WG	0.106	LB A/A	Fall	A	4.291 g/mx	1023	2095	3095
24	V-10204 Plant Date 3 Seeded cabbage	60		WG	0.106	LB A/A	Fall	A	4.291 g/mx	1024	2096	3096
25	V-10204 Plant Date 1 Seeded tomato	60		WG	0.213	LB A/A	Fall	A	8.623 g/mx	1025	2061	3037
26	V-10204 Plant Date 1 Seeded cucumber	60		WG	0.213	LB A/A	Fall	A	8.623 g/mx	1026	2062	3038
27	V-10204 Plant Date 1 Seeded watermelon	60		WG	0.213	LB A/A	Fall	A	8.623 g/mx	1027	2063	3039
28	V-10204 Plant Date 1 Seeded cabbage	60		WG	0.213	LB A/A	Fall	A	8.623 g/mx	1028	2064	3040
29	V-10204 Plant Date 2 Seeded tomato	60		WG	0.213	LB A/A	Fall	A	8.623 g/mx	1029	2065	3041
30	V-10204 Plant Date 2 Seeded cucumber	60		WG	0.213	LB A/A	Fall	A	8.623 g/mx	1030	2066	3042
31	V-10204 Plant Date 2 Seeded watermelon	60		WG	0.213	LB A/A	Fall	A	8.623 g/mx	1031	2067	3043
32	V-10204 Plant Date 2 Seeded cabbage	60		WG	0.213	LB A/A	Fall	A	8.623 g/mx	1032	2068	3044
33	V-10204 Plant Date 3 Seeded tomato	60		WG	0.213	LB A/A	Fall	A	8.623 g/mx	1033	2069	3045
34	V-10204 Plant Date 3 Seeded cucumber	60		WG	0.213	LB A/A	Fall	A	8.623 g/mx	1034	2070	3046

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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep		
										1	2	3
35	V-10204 Plant Date 3 Seeded watermelon	60		WG	0.213	LB A/A	Fall	A	8.623 g/mx	1035	2071	3047
36	V-10204 Plant Date 3 Seeded cabbage	60		WG	0.213	LB A/A	Fall	A	8.623 g/mx	1036	2072	3048
37	V-10204 Plant Date 1 Seeded tomato	60		WG	0.423	LB A/A	Fall	A	17.12 g/mx	1037	2049	3061
38	V-10204 Plant Date 1 Seeded cucumber	60		WG	0.423	LB A/A	Fall	A	17.12 g/mx	1038	2050	3062
39	V-10204 Plant Date 1 Seeded watermelon	60		WG	0.423	LB A/A	Fall	A	17.12 g/mx	1039	2051	3063
40	V-10204 Plant Date 1 Seeded cabbage	60		WG	0.423	LB A/A	Fall	A	17.12 g/mx	1040	2052	3064
41	V-10204 Plant Date 2 Seeded tomato	60		WG	0.423	LB A/A	Fall	A	17.12 g/mx	1041	2053	3065
42	V-10204 Plant Date 2 Seeded cucumber	60		WG	0.423	LB A/A	Fall	A	17.12 g/mx	1042	2054	3066
43	V-10204 Plant Date 2 Seeded watermelon	60		WG	0.423	LB A/A	Fall	A	17.12 g/mx	1043	2055	3067
44	V-10204 Plant Date 2 Seeded cabbage	60		WG	0.423	LB A/A	Fall	A	17.12 g/mx	1044	2056	3068
45	V-10204 Plant Date 3 Seeded tomato	60		WG	0.423	LB A/A	Fall	A	17.12 g/mx	1045	2057	3069
46	V-10204 Plant Date 3 Seeded cucumber	60		WG	0.423	LB A/A	Fall	A	17.12 g/mx	1046	2058	3070
47	V-10204 Plant Date 3 Seeded watermelon	60		WG	0.423	LB A/A	Fall	A	17.12 g/mx	1047	2059	3071
48	V-10204 Plant Date 3 Seeded cabbage	60		WG	0.423	LB A/A	Fall	A	17.12 g/mx	1048	2060	3072
49	Valor Plant Date 1 Seeded tomato	51		WG	0.094	LB A/A	Fall	A	4.477 g/mx	1049	2013	3049
50	Valor Plant Date 1 Seeded cucumber	51		WG	0.094	LB A/A	Fall	A	4.477 g/mx	1050	2014	3050
51	Valor Plant Date 1 Seeded watermelon	51		WG	0.094	LB A/A	Fall	A	4.477 g/mx	1051	2015	3051
52	Valor Plant Date 1 Seeded cabbage	51		WG	0.094	LB A/A	Fall	A	4.477 g/mx	1052	2016	3052

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										1	2	3	
53	Valor Plant Date 2 Seeded tomato	51		WG	0.094	LB	A/A	Fall	A	4.477 g/mx	1053	2017	3053
54	Valor Plant Date 2 Seeded cucumber	51		WG	0.094	LB	A/A	Fall	A	4.477 g/mx	1054	2018	3054
55	Valor Plant Date 2 Seeded watermelon	51		WG	0.094	LB	A/A	Fall	A	4.477 g/mx	1055	2019	3055
56	Valor Plant Date 2 Seeded cabbage	51		WG	0.094	LB	A/A	Fall	A	4.477 g/mx	1056	2020	3056
57	Valor Plant Date 3 Seeded tomato	51		WG	0.094	LB	A/A	Fall	A	4.477 g/mx	1057	2021	3057
58	Valor Plant Date 3 Seeded cucumber	51		WG	0.094	LB	A/A	Fall	A	4.477 g/mx	1058	2022	3058
59	Valor Plant Date 3 Seeded watermelon	51		WG	0.094	LB	A/A	Fall	A	4.477 g/mx	1059	2023	3059
60	Valor Plant Date 3 Seeded cabbage	51		WG	0.094	LB	A/A	Fall	A	4.477 g/mx	1060	2024	3060
61	Aatrex Plant Date 1 Seeded tomato	4		L	1	LB	A/A	Fall	A	50.67 ml/mx	1061	2025	3097
62	Aatrex Plant Date 1 Seeded cucumber	4		L	1	LB	A/A	Fall	A	50.67 ml/mx	1062	2026	3098
63	Aatrex Plant Date 1 Seeded watermelon	4		L	1	LB	A/A	Fall	A	50.67 ml/mx	1063	2027	3099
64	Aatrex Plant Date 1 Seeded cabbage	4		L	1	LB	A/A	Fall	A	50.67 ml/mx	1064	2028	3100
65	Aatrex Plant Date 2 Seeded tomato	4		L	1	LB	A/A	Fall	A	50.67 ml/mx	1065	2029	3101
66	Aatrex Plant Date 2 Seeded cucumber	4		L	1	LB	A/A	Fall	A	50.67 ml/mx	1066	2030	3102
67	Aatrex Plant Date 2 Seeded watermelon	4		L	1	LB	A/A	Fall	A	50.67 ml/mx	1067	2031	3103
68	Aatrex Plant Date 2 Seeded cabbage	4		L	1	LB	A/A	Fall	A	50.67 ml/mx	1068	2032	3104
69	Aatrex Plant Date 3 Seeded tomato	4		L	1	LB	A/A	Fall	A	50.67 ml/mx	1069	2033	3105
70	Aatrex Plant Date 3 Seeded cucumber	4		L	1	LB	A/A	Fall	A	50.67 ml/mx	1070	2034	3106

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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Grow Unit	Appl Stg	Appl Code	Amt Product to Measure	Plot No. By Rep		
										1	2	3
71	Aatrex Plant Date 3 Seeded watermelon	4		L	1	LB A/A	Fall	A	50.67 ml/mx	1071	2035	3107
72	Aatrex Plant Date 3 Seeded cabbage	4		L	1	LB A/A	Fall	A	50.67 ml/mx	1072	2036	3108
73	Dual Magnum Plant Date 1 Seeded tomato	7.62		L	1.5	LB A/A	Fall	A	39.9 ml/mx	1073	2001	3109
74	Dual Magnum Plant Date 1 Seeded cucumber	7.62		L	1.5	LB A/A	Fall	A	39.9 ml/mx	1074	2002	3110
75	Dual Magnum Plant Date 1 Seeded watermelon	7.62		L	1.5	LB A/A	Fall	A	39.9 ml/mx	1075	2003	3111
76	Dual Magnum Plant Date 1 Seeded cabbage	7.62		L	1.5	LB A/A	Fall	A	39.9 ml/mx	1076	2004	3112
77	Dual Magnum Plant Date 2 Seeded tomato	7.62		L	1.5	LB A/A	Fall	A	39.9 ml/mx	1077	2005	3113
78	Dual Magnum Plant Date 2 Seeded cucumber	7.62		L	1.5	LB A/A	Fall	A	39.9 ml/mx	1078	2006	3114
79	Dual Magnum Plant Date 2 Seeded watermelon	7.62		L	1.5	LB A/A	Fall	A	39.9 ml/mx	1079	2007	3115
80	Dual Magnum Plant Date 2 Seeded cabbage	7.62		L	1.5	LB A/A	Fall	A	39.9 ml/mx	1080	2008	3116
81	Dual Magnum Plant Date 3 Seeded tomato	7.62		L	1.5	LB A/A	Fall	A	39.9 ml/mx	1081	2009	3117
82	Dual Magnum Plant Date 3 Seeded cucumber	7.62		L	1.5	LB A/A	Fall	A	39.9 ml/mx	1082	2010	3118
83	Dual Magnum Plant Date 3 Seeded watermelon	7.62		L	1.5	LB A/A	Fall	A	39.9 ml/mx	1083	2011	3119
84	Dual Magnum Plant Date 3 Seeded cabbage	7.62		L	1.5	LB A/A	Fall	A	39.9 ml/mx	1084	2012	3120
85	Dual Magnum Valor Plant Date 1 Seeded tomato	7.62 51		L WG	1.5 0.094	LB A/A LB A/A	Fall Fall	A A	39.9 ml/mx 4.477 g/mx	1085	2097	3001
86	Dual Magnum Valor Plant Date 1 Seeded cucumber	7.62 51		L WG	1.5 0.094	LB A/A LB A/A	Fall Fall	A A	39.9 ml/mx 4.477 g/mx	1086	2098	3002
87	Dual Magnum Valor Plant Date 1 Seeded watermelon	7.62 51		L WG	1.5 0.094	LB A/A LB A/A	Fall Fall	A A	39.9 ml/mx 4.477 g/mx	1087	2099	3003

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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product Measure	Plot No. By Rep		
											1	2	3
88	Dual Magnum Valor Plant Date 1 Seeded cabbage	7.62 51	L WG	L WG	1.5 0.094	LB A/A LB A/A	Fall Fall	A A	39.9 ml/mx 4.477 g/mx		1088	2100	3004
89	Dual Magnum Valor Plant Date 2 Seeded tomato	7.62 51	L WG	L WG	1.5 0.094	LB A/A LB A/A	Fall Fall	A A	39.9 ml/mx 4.477 g/mx		1089	2101	3005
90	Dual Magnum Valor Plant Date 2 Seeded cucumber	7.62 51	L WG	L WG	1.5 0.094	LB A/A LB A/A	Fall Fall	A A	39.9 ml/mx 4.477 g/mx		1090	2102	3006
91	Dual Magnum Valor Plant Date 2 Seeded watermelon	7.62 51	L WG	L WG	1.5 0.094	LB A/A LB A/A	Fall Fall	A A	39.9 ml/mx 4.477 g/mx		1091	2103	3007
92	Dual Magnum Valor Plant Date 2 Seeded cabbage	7.62 51	L WG	L WG	1.5 0.094	LB A/A LB A/A	Fall Fall	A A	39.9 ml/mx 4.477 g/mx		1092	2104	3008
93	Dual Magnum Valor Plant Date 3 Seeded tomato	7.62 51	L WG	L WG	1.5 0.094	LB A/A LB A/A	Fall Fall	A A	39.9 ml/mx 4.477 g/mx		1093	2105	3009
94	Dual Magnum Valor Plant Date 3 Seeded cucumber	7.62 51	L WG	L WG	1.5 0.094	LB A/A LB A/A	Fall Fall	A A	39.9 ml/mx 4.477 g/mx		1094	2106	3010
95	Dual Magnum Valor Plant Date 3 Seeded watermelon	7.62 51	L WG	L WG	1.5 0.094	LB A/A LB A/A	Fall Fall	A A	39.9 ml/mx 4.477 g/mx		1095	2107	3011
96	Dual Magnum Valor Plant Date 3 Seeded cabbage	7.62 51	L WG	L WG	1.5 0.094	LB A/A LB A/A	Fall Fall	A A	39.9 ml/mx 4.477 g/mx		1096	2108	3012
97	V-10204 Plant Date 1 Seeded tomato	60	WG	WG	0.318	LB A/A	Fall	A	12.87 g/mx		1097	2073	3025
98	V-10204 Plant Date 1 Seeded cucumber	60	WG	WG	0.318	LB A/A	Fall	A	12.87 g/mx		1098	2074	3026
99	V-10204 Plant Date 1 Seeded watermelon	60	WG	WG	0.318	LB A/A	Fall	A	12.87 g/mx		1099	2075	3027
100	V-10204 Plant Date 1 Seeded cabbage	60	WG	WG	0.318	LB A/A	Fall	A	12.87 g/mx		1100	2076	3028
101	V-10204 Plant Date 2 Seeded tomato	60	WG	WG	0.318	LB A/A	Fall	A	12.87 g/mx		1101	2077	3029
102	V-10204 Plant Date 2 Seeded cucumber	60	WG	WG	0.318	LB A/A	Fall	A	12.87 g/mx		1102	2078	3030

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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep		
										1	2	3
103	V-10204 Plant Date 2 Seeded watermelon	60		WG	0.318	LB A/A	Fall	A	12.87 g/mx	1103	2079	3031
104	V-10204 Plant Date 2 Seeded cabbage	60		WG	0.318	LB A/A	Fall	A	12.87 g/mx	1104	2080	3032
105	V-10204 Plant Date 3 Seeded tomato	60		WG	0.318	LB A/A	Fall	A	12.87 g/mx	1105	2081	3033
106	V-10204 Plant Date 3 Seeded cucumber	60		WG	0.318	LB A/A	Fall	A	12.87 g/mx	1106	2082	3034
107	V-10204 Plant Date 3 Seeded watermelon	60		WG	0.318	LB A/A	Fall	A	12.87 g/mx	1107	2083	3035
108	V-10204 Plant Date 3 Seeded cabbage	60		WG	0.318	LB A/A	Fall	A	12.87 g/mx	1108	2084	3036
109	V-10142 Plant Date 1 Seeded tomato	75		WG	0.3	LB A/A	Fall	A	9.716 g/mx	1109	2109	3013
110	V-10142 Plant Date 1 Seeded cucumber	75		WG	0.3	LB A/A	Fall	A	9.716 g/mx	1110	2110	3014
111	V-10142 Plant Date 1 Seeded watermelon	75		WG	0.3	LB A/A	Fall	A	9.716 g/mx	1111	2111	3015
112	V-10142 Plant Date 1 Seeded cabbage	75		WG	0.3	LB A/A	Fall	A	9.716 g/mx	1112	2112	3016
113	V-10142 Plant Date 2 Seeded tomato	75		WG	0.3	LB A/A	Fall	A	9.716 g/mx	1113	2113	3017
114	V-10142 Plant Date 2 Seeded cucumber	75		WG	0.3	LB A/A	Fall	A	9.716 g/mx	1114	2114	3018
115	V-10142 Plant Date 2 Seeded watermelon	75		WG	0.3	LB A/A	Fall	A	9.716 g/mx	1115	2115	3019
116	V-10142 Plant Date 2 Seeded cabbage	75		WG	0.3	LB A/A	Fall	A	9.716 g/mx	1116	2116	3020
117	V-10142 Plant Date 3 Seeded tomato	75		WG	0.3	LB A/A	Fall	A	9.716 g/mx	1117	2117	3021
118	V-10142 Plant Date 3 Seeded cucumber	75		WG	0.3	LB A/A	Fall	A	9.716 g/mx	1118	2118	3022
119	V-10142 Plant Date 3 Seeded watermelon	75		WG	0.3	LB A/A	Fall	A	9.716 g/mx	1119	2119	3023
120	V-10142 Plant Date 3 Seeded cabbage	75		WG	0.3	LB A/A	Fall	A	9.716 g/mx	1120	2120	3024

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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Form Unit	Rate Stg	Grow Code	Appl to Measure	Amt Product 1	Product 2	Plot No. 3	By Rep
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Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
643.661	g	V-10204	60	WG	
134.304	g	Valor	51	WG	
760.055	ml	Aatrex	4	L	
1,196.937	ml	Dual Magnum	7.62	L	
145.735	g	V-10142	75	WG	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 3 liters (mix size basis).
 * Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Determine plant back interval for V-10204, Valor, Dual Magnum, and V-10142.

CROP RESPONSE:

V-10204:

1. Seeded tomato stunting was less than 6% regardless of herbicide rate or plant date.
2. Seeded watermelon was stunted less than 4% regardless of herbicide rate or plant date.
3. Seeded cucumber was stunted generally 10 to 20% when planted in March. Injury was avoided by waiting for the April 11 plant date.
4. Seeded cabbage was stunted up to 7% when the crop was planted in March and the rate of V-10204 did not exceed 0.318 lb/A. Increasing the rate to 0.423 lb did increase injury up to 15%. Cabbage injury could be reduced to less than 5% by waiting for the April 11 plant date.

Dual Magnum:

1. Seeded tomato was not injured.
2. Seeded watermelon injury was 5% or less and seeded cabbage stunting was 10% or less with the first planting date. Injury was not noted at the second or third planting date.
3. Seeded cucumber stunting reached 23% with the first planting date but was not noted in the second or third planting date.

Valor:

1. Seeded tomato injury was severe at the first two plant dates. By the third plant date, stand loss and stunting was still 20%.
2. Seeded cucumber injury was severe at plant date one (80+%), 10 to 15% at the second planting, and 0% with the thrid planting.
3. Seeded watermelon stunting and stand loss reached 25% with the first plant date but injury was not noted with later plantings.
4. Seeded cabbage injury was severe at all planting dates.
5. Little difference in injury was noted with the Valor + Dual mixture compared to Valor alone.

Aatrex:

1. Plant date one noted chlorosis of 15 to 27% for tomato and cucumber with little injury noted with watermelon and cabbage.
2. At the second planting, cucumber chlorosis was stil 20 to 25% but injury was avoided by waiting for the May 2 planting.

V-10142:

1. No injury was noted with cucumber or watermelon.
2. Stunting of seeded tomato was noted at the first palnting (13%).
3. Seeded cabbage injury was severe will all planting dates.

GENERAL COMMENTS:

1. All crops were seeded.

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2. Crops were seeded on March 9, April 11, and May 2.

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Study Dir.: Davis, Culpepper

Location: Ponder farm (5139)

Investigator: Stanley Culpepper

Crop Code				Crop injury	Crop injury	Crop injury
Rating Data Type				%	%	%
Rating Unit						
Rating Date				Apr-06-07	May-02-07	May-27-07
Assessed By				SC	SC	SC
Trt-Eval Interval				110 DA-A	136 DA-A	161 DA-A
Trt No.	Treatment Name	Rate	Unit	1	2	3
1	No herbicide Plant Date 1 Seeded tomato			0 g	0 n	0 k
2	No herbicide Plant Date 1 Seeded cucumber			0 g	0 n	0 k
3	No herbicide Plant Date 1 Seeded watermelon			0 g	0 n	0 k
4	No herbicide Plant Date 1 Seeded cabbage			0 g	0 n	0 k
5	No herbicide Plant Date 2 Seeded tomato				0 n	0 k
6	No herbicide Plant Date 2 Seeded cucumber				0 n	0 k
7	No herbicide Plant Date 2 Seeded watermelon				0 n	0 k
8	No herbicide Plant Date 2 Seeded cabbage				0 n	0 k
9	No herbicide Plant Date 3 Seeded tomato					0 k
10	No herbicide Plant Date 3 Seeded cucumber					0 k
11	No herbicide Plant Date 3 Seeded watermelon					0 k
12	No herbicide Plant Date 3 Seeded cabbage					0 k
13	V-10204 Plant Date 1 Seeded tomato	0.106	LB A/A	3 g	0 n	0 k
14	V-10204 Plant Date 1 Seeded cucumber	0.106	LB A/A	10 fg	18 e-j	15 f-i
15	V-10204 Plant Date 1 Seeded watermelon	0.106	LB A/A	3 g	0 n	0 k

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Crop Code				Crop injury	Crop injury	Crop injury
Rating Data Type				%	%	%
Rating Unit						
Rating Date				Apr-06-07	May-02-07	May-27-07
Assessed By				SC	SC	SC
Trt-Eval Interval				110 DA-A	136 DA-A	161 DA-A
Trt No.	Treatment Name	Rate	Unit	1	2	3
16	V-10204 Plant Date 1 Seeded cabbage	0.106	LB A/A	3 g	3 lmn	3 jk
17	V-10204 Plant Date 2 Seeded tomato	0.106	LB A/A		2 mn	3 jk
18	V-10204 Plant Date 2 Seeded cucumber	0.106	LB A/A		0 n	3 jk
19	V-10204 Plant Date 2 Seeded watermelon	0.106	LB A/A		0 n	0 k
20	V-10204 Plant Date 2 Seeded cabbage	0.106	LB A/A		3 lmn	3 jk
21	V-10204 Plant Date 3 Seeded tomato	0.106	LB A/A			0 k
22	V-10204 Plant Date 3 Seeded cucumber	0.106	LB A/A			0 k
23	V-10204 Plant Date 3 Seeded watermelon	0.106	LB A/A			0 k
24	V-10204 Plant Date 3 Seeded cabbage	0.106	LB A/A			0 k
25	V-10204 Plant Date 1 Seeded tomato	0.213	LB A/A	0 g	0 n	0 k
26	V-10204 Plant Date 1 Seeded cucumber	0.213	LB A/A	0 g	17 f-k	12 g-j
27	V-10204 Plant Date 1 Seeded watermelon	0.213	LB A/A	0 g	0 n	0 k
28	V-10204 Plant Date 1 Seeded cabbage	0.213	LB A/A	3 g	3 lmn	3 jk
29	V-10204 Plant Date 2 Seeded tomato	0.213	LB A/A		0 n	0 k
30	V-10204 Plant Date 2 Seeded cucumber	0.213	LB A/A		0 n	0 k
31	V-10204 Plant Date 2 Seeded watermelon	0.213	LB A/A		0 n	0 k
32	V-10204 Plant Date 2 Seeded cabbage	0.213	LB A/A		0 n	0 k

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Crop Code			Crop injury %	Crop injury %	Crop injury %	
Rating Data Type						
Rating Unit						
Rating Date			Apr-06-07	May-02-07	May-27-07	
Assessed By			SC	SC	SC	
Trt-Eval Interval			110 DA-A	136 DA-A	161 DA-A	
Trt No.	Treatment Name	Rate	Unit	1	2	3
33	V-10204 Plant Date 3 Seeded tomato	0.213	LB A/A			0 k
34	V-10204 Plant Date 3 Seeded cucumber	0.213	LB A/A			0 k
35	V-10204 Plant Date 3 Seeded watermelon	0.213	LB A/A			0 k
36	V-10204 Plant Date 3 Seeded cabbage	0.213	LB A/A			0 k
37	V-10204 Plant Date 1 Seeded tomato	0.423	LB A/A	10 fg	0 n	0 k
38	V-10204 Plant Date 1 Seeded cucumber	0.423	LB A/A	10 fg	20 e-i	18 e-h
39	V-10204 Plant Date 1 Seeded watermelon	0.423	LB A/A	3 g	8 j-n	0 k
40	V-10204 Plant Date 1 Seeded cabbage	0.423	LB A/A	12 efg	15 g-l	15 f-i
41	V-10204 Plant Date 2 Seeded tomato	0.423	LB A/A		5 k-n	3 jk
42	V-10204 Plant Date 2 Seeded cucumber	0.423	LB A/A		0 n	0 k
43	V-10204 Plant Date 2 Seeded watermelon	0.423	LB A/A		0 n	0 k
44	V-10204 Plant Date 2 Seeded cabbage	0.423	LB A/A		0 n	3 jk
45	V-10204 Plant Date 3 Seeded tomato	0.423	LB A/A			0 k
46	V-10204 Plant Date 3 Seeded cucumber	0.423	LB A/A			0 k
47	V-10204 Plant Date 3 Seeded watermelon	0.423	LB A/A			0 k
48	V-10204 Plant Date 3 Seeded cabbage	0.423	LB A/A			3 jk
49	Valor Plant Date 1 Seeded tomato	0.094	LB A/A	95 a	88 ab	85 a

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Crop Code			Crop injury	Crop injury	Crop injury	
Rating Data Type			%	%	%	
Rating Unit						
Rating Date			Apr-06-07	May-02-07	May-27-07	
Assessed By			SC	SC	SC	
Trt-Eval Interval			110 DA-A	136 DA-A	161 DA-A	
Trt No.	Treatment Name	Rate	Unit	1	2	3
50	Valor Plant Date 1 Seeded cucumber	0.094	LB A/A	52 c	77 cd	87 a
51	Valor Plant Date 1 Seeded watermelon	0.094	LB A/A	22 ef	25 efg	17 fgh
52	Valor Plant Date 1 Seeded cabbage	0.094	LB A/A	90 a	78 bc	87 a
53	Valor Plant Date 2 Seeded tomato	0.094	LB A/A		83 abc	80 ab
54	Valor Plant Date 2 Seeded cucumber	0.094	LB A/A		17 f-k	13 g-j
55	Valor Plant Date 2 Seeded watermelon	0.094	LB A/A		0 n	0 k
56	Valor Plant Date 2 Seeded cabbage	0.094	LB A/A		83 abc	83 a
57	Valor Plant Date 3 Seeded tomato	0.094	LB A/A			21 efg
58	Valor Plant Date 3 Seeded cucumber	0.094	LB A/A			0 k
59	Valor Plant Date 3 Seeded watermelon	0.094	LB A/A			0 k
60	Valor Plant Date 3 Seeded cabbage	0.094	LB A/A			43 d
61	Aatrex Plant Date 1 Seeded tomato	1	LB A/A	0 g	17 f-k	15 f-i
62	Aatrex Plant Date 1 Seeded cucumber	1	LB A/A	0 g	27 ef	27 e
63	Aatrex Plant Date 1 Seeded watermelon	1	LB A/A	0 g	3 lmn	0 k
64	Aatrex Plant Date 1 Seeded cabbage	1	LB A/A	0 g	3 lmn	0 k
65	Aatrex Plant Date 2 Seeded tomato	1	LB A/A		10 i-n	0 k
66	Aatrex Plant Date 2 Seeded cucumber	1	LB A/A		25 efg	20 efg

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Crop Code			Crop injury	Crop injury	Crop injury
Rating Data Type			%	%	%
Rating Unit					
Rating Date			Apr-06-07	May-02-07	May-27-07
Assessed By			SC	SC	SC
Trt-Eval Interval			110 DA-A	136 DA-A	161 DA-A
Trt No.	Treatment Name	Rate Unit	1	2	3
67	Aatrex Plant Date 2 Seeded watermelon	1 LB A/A		0 n	0 k
68	Aatrex Plant Date 2 Seeded cabbage	1 LB A/A		3 lmn	0 k
69	Aatrex Plant Date 3 Seeded tomato	1 LB A/A			0 k
70	Aatrex Plant Date 3 Seeded cucumber	1 LB A/A			3 jk
71	Aatrex Plant Date 3 Seeded watermelon	1 LB A/A			0 k
72	Aatrex Plant Date 3 Seeded cabbage	1 LB A/A			0 k
73	Dual Magnum Plant Date 1 Seeded tomato	1.5 LB A/A	0 g	3 lmn	0 k
74	Dual Magnum Plant Date 1 Seeded cucumber	1.5 LB A/A	12 efg	13 h-m	23 ef
75	Dual Magnum Plant Date 1 Seeded watermelon	1.5 LB A/A	5 g	3 lmn	0 k
76	Dual Magnum Plant Date 1 Seeded cabbage	1.5 LB A/A	0 g	10 i-n	10 h-k
77	Dual Magnum Plant Date 2 Seeded tomato	1.5 LB A/A		0 n	0 k
78	Dual Magnum Plant Date 2 Seeded cucumber	1.5 LB A/A		0 n	0 k
79	Dual Magnum Plant Date 2 Seeded watermelon	1.5 LB A/A		0 n	0 k
80	Dual Magnum Plant Date 2 Seeded cabbage	1.5 LB A/A		0 n	0 k
81	Dual Magnum Plant Date 3 Seeded tomato	1.5 LB A/A			0 k
82	Dual Magnum Plant Date 3 Seeded cucumber	1.5 LB A/A			0 k
83	Dual Magnum Plant Date 3 Seeded watermelon	1.5 LB A/A			0 k

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Crop Code			Crop injury %	Crop injury %	Crop injury %
Rating Data Type					
Rating Unit					
Rating Date			Apr-06-07	May-02-07	May-27-07
Assessed By			SC	SC	SC
Trt-Eval Interval			110 DA-A	136 DA-A	161 DA-A
Trt No.	Treatment Name	Rate Unit	1	2	3
84	Dual Magnum Plant Date 3 Seeded cabbage	1.5 LB A/A			0 k
85	Dual Magnum Valor Plant Date 1 Seeded tomato	1.5 LB A/A 0.094 LB A/A	98 a	88 ab	87 a
86	Dual Magnum Valor Plant Date 1 Seeded cucumber	1.5 LB A/A 0.094 LB A/A	77 b	82 abc	88 a
87	Dual Magnum Valor Plant Date 1 Seeded watermelon	1.5 LB A/A 0.094 LB A/A	24 e	28 e	13 g-j
88	Dual Magnum Valor Plant Date 1 Seeded cabbage	1.5 LB A/A 0.094 LB A/A	98 a	73 cd	85 a
89	Dual Magnum Valor Plant Date 2 Seeded tomato	1.5 LB A/A 0.094 LB A/A		91 a	88 a
90	Dual Magnum Valor Plant Date 2 Seeded cucumber	1.5 LB A/A 0.094 LB A/A		13 h-m	18 e-h
91	Dual Magnum Valor Plant Date 2 Seeded watermelon	1.5 LB A/A 0.094 LB A/A		0 n	0 k
92	Dual Magnum Valor Plant Date 2 Seeded cabbage	1.5 LB A/A 0.094 LB A/A		67 d	73 b
93	Dual Magnum Valor Plant Date 3 Seeded tomato	1.5 LB A/A 0.094 LB A/A			18 e-h
94	Dual Magnum Valor Plant Date 3 Seeded cucumber	1.5 LB A/A 0.094 LB A/A			0 k
95	Dual Magnum Valor Plant Date 3 Seeded watermelon	1.5 LB A/A 0.094 LB A/A			0 k
96	Dual Magnum Valor Plant Date 3 Seeded cabbage	1.5 LB A/A 0.094 LB A/A			37 d

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Crop Code			Crop injury	Crop injury	Crop injury	
Rating Data Type			%	%	%	
Rating Unit						
Rating Date			Apr-06-07	May-02-07	May-27-07	
Assessed By			SC	SC	SC	
Trt-Eval Interval			110 DA-A	136 DA-A	161 DA-A	
Trt No.	Treatment Name	Rate	Unit	1	2	3
97	V-10204 Plant Date 1 Seeded tomato	0.318	LB A/A	7 g	3 lmn	5 jk
98	V-10204 Plant Date 1 Seeded cucumber	0.318	LB A/A	12 efg	8 j-n	7 ijk
99	V-10204 Plant Date 1 Seeded watermelon	0.318	LB A/A	0 g	3 lmn	0 k
100	V-10204 Plant Date 1 Seeded cabbage	0.318	LB A/A	3 g	3 lmn	7 ijk
101	V-10204 Plant Date 2 Seeded tomato	0.318	LB A/A		3 lmn	3 jk
102	V-10204 Plant Date 2 Seeded cucumber	0.318	LB A/A		0 n	0 k
103	V-10204 Plant Date 2 Seeded watermelon	0.318	LB A/A		0 n	0 k
104	V-10204 Plant Date 2 Seeded cabbage	0.318	LB A/A		0 n	3 jk
105	V-10204 Plant Date 3 Seeded tomato	0.318	LB A/A			3 jk
106	V-10204 Plant Date 3 Seeded cucumber	0.318	LB A/A			0 k
107	V-10204 Plant Date 3 Seeded watermelon	0.318	LB A/A			0 k
108	V-10204 Plant Date 3 Seeded cabbage	0.318	LB A/A			3 jk
109	V-10142 Plant Date 1 Seeded tomato	0.3	LB A/A	13 efg	8 j-n	0 k
110	V-10142 Plant Date 1 Seeded cucumber	0.3	LB A/A	0 g	0 n	0 k
111	V-10142 Plant Date 1 Seeded watermelon	0.3	LB A/A	0 g	0 n	0 k
112	V-10142 Plant Date 1 Seeded cabbage	0.3	LB A/A	40 d	23 e-h	57 c
113	V-10142 Plant Date 2 Seeded tomato	0.3	LB A/A		7 j-n	0 k

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Crop Code		Crop injury %	Crop injury %	Crop injury %
Rating Data Type				
Rating Unit				
Rating Date		Apr-06-07	May-02-07	May-27-07
Assessed By		SC	SC	SC
Trt-Eval Interval		110 DA-A	136 DA-A	161 DA-A
Trt No.	Treatment Name	Rate	Unit	
114	V-10142 Plant Date 2 Seeded cucumber	0.3	LB A/A	0 n
115	V-10142 Plant Date 2 Seeded watermelon	0.3	LB A/A	0 n
116	V-10142 Plant Date 2 Seeded cabbage	0.3	LB A/A	23 e-h
117	V-10142 Plant Date 3 Seeded tomato	0.3	LB A/A	0 k
118	V-10142 Plant Date 3 Seeded cucumber	0.3	LB A/A	0 k
119	V-10142 Plant Date 3 Seeded watermelon	0.3	LB A/A	0 k
120	V-10142 Plant Date 3 Seeded cabbage	0.3	LB A/A	43 d
LSD (P=.05)		11.1		8.2
Standard Deviation		6.8		5.1
CV		38.47		44.12
Bartlett's X2		36.243		30.772
P(Bartlett's X2)		0.007*		0.919

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Crop 4: CUMSA cucumber **Variety:** thunder
Planting Date: Mar-09-07 **Planting Method:** bareground
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** ____ ____
Row Spacing: 6 feet **Spacing Within Row:** 6 inch **Seed Bed:** bareground
Soil Temperature: 61 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 5: CITLA watermelon **Variety:** crimson
Planting Date: Apr-11-07 **Planting Method:** seeded
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** ____ ____
Row Spacing: 6 feet **Spacing Within Row:** 6 inch **Seed Bed:** bareground
Soil Temperature: 74 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 6: BRSOL cabbage **Variety:** scarlet
Planting Date: Apr-11-07 **Planting Method:** seeded
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** ____ ____
Row Spacing: 6 feet **Spacing Within Row:** 6 inch **Seed Bed:** bareground
Soil Temperature: 74 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 7: LYPES tomato **Variety:** Ace 55 VF
Planting Date: Apr-11-07 **Planting Method:** bareground
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** ____ ____
Row Spacing: 6 feet **Spacing Within Row:** 6 inch **Seed Bed:** bareground
Soil Temperature: 74 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 8: CUMSA cucumber **Variety:** thunder
Planting Date: Apr-11-07 **Planting Method:** bareground
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** ____ ____
Row Spacing: 6 feet **Spacing Within Row:** 6 inch **Seed Bed:** bareground
Soil Temperature: 74 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 9: CITLA watermelon **Variety:** crimson
Planting Date: May-02-07 **Planting Method:** seeded
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** ____ ____
Row Spacing: 6 feet **Spacing Within Row:** 6 inch **Seed Bed:** bareground
Soil Temperature: 87 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 10: BRSOL cabbage **Variety:** scarlet
Planting Date: May-02-07 **Planting Method:** seeded
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** ____ ____
Row Spacing: 6 feet **Spacing Within Row:** 6 inch **Seed Bed:** bareground
Soil Temperature: 87 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 11: LYPES tomato **Variety:** Ace 55 VF
Planting Date: May-02-07 **Planting Method:** bareground
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** ____ ____
Row Spacing: 6 feet **Spacing Within Row:** 6 inch **Seed Bed:** bareground
Soil Temperature: 87 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 12: CUMSA cucumber **Variety:** thunder
Planting Date: May-02-07 **Planting Method:** bareground
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** ____ ____
Row Spacing: 6 feet **Spacing Within Row:** 6 inch **Seed Bed:** bareground
Soil Temperature: 87 F **Soil Moisture:** drip **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 10 FT **Reps:** 3
Site Type: Ponder Research Farm
Tillage Type: Conventional **Study Design:** SPLIT-PLOT

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Trial Initiation Comments: Soil was conventionally prepared with disking and breaking of land followed by bed formation. Treatments were applied to the bed and not disturbed again. Crops were irrigated by drip irrigation.

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.							

SOIL DESCRIPTION

% Sand: 94	% OM: 6.4	Texture: sand	
% Silt: 2	pH: 1.3	Soil Name: Tifton sandy loam	
% Clay: 4	CEC: _____	Fert. Level: _____	

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: irrigated

Closest Weather Station: _____ Distance: _____ Unit: __

APPLICATION DESCRIPTION

	A
Application Date:	Dec-17-06
Time of Day:	8:00 am
Application Method:	broadcast
Application Timing:	fall
Applic. Placement:	on soil
Air Temp., Unit:	70 F
% Relative Humidity:	44
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	68 F
Soil Moisture:	fair
% Cloud Cover:	90

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CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CITLA preplant
Stage Scale:	notseeded
Height, Unit:	0 inch
Crop 2 Code, Stage:	BRSOL preplant
Stage Scale:	notseeded
Height, Unit:	0 inch
Crop 3 Code, Stage:	LYPES preplant
Stage Scale:	notseeded
Height, Unit:	0 inch
Crop 4 Code, Stage:	CUMSA preplant
Stage Scale:	notseeded
Height, Unit:	0 inch
Crop 5 Code, Stage:	CITLA preplant
Stage Scale:	notseeded
Height, Unit:	0 inch
Crop 6 Code, Stage:	BRSOL preplant
Stage Scale:	notseeded
Height, Unit:	0 inch
Crop 7 Code, Stage:	LYPES preplant
Stage Scale:	notseeded
Height, Unit:	0 inch
Crop 8 Code, Stage:	CUMSA preplant
Stage Scale:	notseeded
Height, Unit:	0 inch
Crop 9 Code, Stage:	CITLA preplant
Stage Scale:	notseeded
Height, Unit:	0 inch
Crop10 Code, Stage:	BRSOL preplant
Stage Scale:	notseeded
Height, Unit:	0 inch
Crop11 Code, Stage:	LYPES preplant
Stage Scale:	notseeded
Height, Unit:	0 inch
Crop12 Code, Stage:	CUMSA preplant
Stage Scale:	notseeded
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	. .
Stage Scale:	.
Density, Unit:	. .

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	24
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	2
Band Width, Unit:	
Boom Length, Unit:	4.5 ft
Boom Height, Unit:	15 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	14.8 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment