

University of Georgia

Weed control with Roundup and Ignite in PHY 485 Widestrike Flex Cotton

Trial ID: C16-07

Protocol ID:

Location: Macon County

Study Director: Stanley Culpepper

Investigator: Alan C. York

Reps: 4

Plots: 12 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 2 liters (min 1.5434)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Growth Stage	Appl Code	Amt Product to Measure	Plot No. By Rep			
										1	2	3	4
1	Prowl H2O (check)	3.8	lba/gal	L	2.1	PT/A	PRE	A	35.47 ml/mx	104	207	303	409
2	Prowl H2O	3.8	lba/gal	L	2.1	PT/A	PRE	A	35.47 ml/mx	106	202	305	404
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	B	23.23 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2	C	23.23 ml/mx				
	Direx	4	lba/gal	L	2	PT/A	Layby	D	33.78 ml/mx				
	MSMA	6.6	lba/gal	L	2.4	PT/A	Layby	D	40.54 ml/mx				
	NIS			L	0.25	% V/V	Layby	D	4.999 ml/mx				
3	Prowl H2O	3.8	lba/gal	L	2.1	PT/A	PRE	A	35.47 ml/mx	109	204	308	403
	Ignite 280	2.34	lba/gal	L	23	FL OZ/A	POST-1	B	24.28 ml/mx				
	Ignite 280	2.34	lba/gal	L	23	FL OZ/A	POST-2	C	24.28 ml/mx				
	Direx	4	lba/gal	L	2	PT/A	Layby	D	33.78 ml/mx				
	MSMA	6.6	lba/gal	L	2.4	PT/A	Layby	D	40.54 ml/mx				
	NIS			L	0.25	% V/V	Layby	D	4.999 ml/mx				
4	Prowl H2O	3.8	lba/gal	L	2.1	PT/A	PRE	A	35.47 ml/mx	110	203	304	401
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	B	23.23 ml/mx				
	Staple	3.2	lba/gal	L	1.7	FL OZ/A	POST-1	B	1.795 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2	C	23.23 ml/mx				
	Direx	4	lba/gal	L	2	PT/A	Layby	D	33.78 ml/mx				
	MSMA	6.6	lba/gal	L	2.4	PT/A	Layby	D	40.54 ml/mx				
	NIS			L	0.25	% V/V	Layby	D	4.999 ml/mx				
5	Prowl H2O	3.8	lba/gal	L	2.1	PT/A	PRE	A	35.47 ml/mx	103	206	307	410
	Ignite 280	2.34	lba/gal	L	23	FL OZ/A	POST-1	B	24.28 ml/mx				
	Staple	3.2	lba/gal	L	1.7	FL OZ/A	POST-1	B	1.795 ml/mx				
	Ignite 280	2.34	lba/gal	L	23	FL OZ/A	POST-2	C	24.28 ml/mx				
	Direx	4	lba/gal	L	2	PT/A	Layby	D	33.78 ml/mx				
	MSMA	6.6	lba/gal	L	2.4	PT/A	Layby	D	40.54 ml/mx				
	NIS			L	0.25	% V/V	Layby	D	4.999 ml/mx				
6	Prowl H2O	3.8	lba/gal	L	2.1	PT/A	PRE	A	35.47 ml/mx	102	205	301	402
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	B	23.23 ml/mx				
	Dual Magnum	7.62	lba/gal	L	1	PT/A	POST-1	B	16.89 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2	C	23.23 ml/mx				
	Direx	4	lba/gal	L	2	PT/A	Layby	D	33.78 ml/mx				
	MSMA	6.6	lba/gal	L	2.4	PT/A	Layby	D	40.54 ml/mx				
	NIS			L	0.25	% V/V	Layby	D	4.999 ml/mx				
7	Prowl H2O	3.8	lba/gal	L	2.1	PT/A	PRE	A	35.47 ml/mx	101	209	310	407
	Ignite 280	2.34	lba/gal	L	23	FL OZ/A	POST-1	B	24.28 ml/mx				
	Dual Magnum	7.62	lba/gal	L	1	PT/A	POST-1	B	16.89 ml/mx				
	Ignite 280	2.34	lba/gal	L	23	FL OZ/A	POST-2	C	24.28 ml/mx				
	Direx	4	lba/gal	L	2	PT/A	Layby	D	33.78 ml/mx				
	MSMA	6.6	lba/gal	L	2.4	PT/A	Layby	D	40.54 ml/mx				
	NIS			L	0.25	% V/V	Layby	D	4.999 ml/mx				
8	Prowl H2O	3.8	lba/gal	L	2.1	PT/A	PRE	A	35.47 ml/mx	108	201	309	408
	Ignite 280	2.34	lba/gal	L	11.5	FL OZ/A	POST-1	B	12.14 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	B	23.23 ml/mx				
	Ignite 280	2.34	lba/gal	L	11.5	FL OZ/A	POST-2	C	12.14 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2	C	23.23 ml/mx				
	Direx	4	lba/gal	L	2	PT/A	Layby	D	33.78 ml/mx				
	MSMA	6.6	lba/gal	L	2.4	PT/A	Layby	D	40.54 ml/mx				
	NIS			L	0.25	% V/V	Layby	D	4.999 ml/mx				

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Reps: 4 Plots: 12 by 25 feet
 Spray vol: 14.8 gal/ac Mix size: 2 liters (min 1.5434)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Growth Stage	Appl Code	Amt Product to Measure	Plot No. By Rep			
										1	2	3	4
9	Prowl H2O	3.8	lba/gal	L	2.1	PT/A	PRE	A	35.47 ml/mx	107	208	306	405
	Ignite 280	2.34	lba/gal	L	23	FL OZ/A	POST-1	B	24.28 ml/mx				
	Weathermax	4.5	lbae/gal	L	11	FL OZ/A	POST-1	B	11.61 ml/mx				
	Ignite 280	2.34	lba/gal	L	23	FL OZ/A	POST-2	C	24.28 ml/mx				
	Weathermax	4.5	lbae/gal	L	11	FL OZ/A	POST-2	C	11.61 ml/mx				
	Direx	4	lba/gal	L	2	PT/A	Layby	D	33.78 ml/mx				
	MSMA	6.6	lba/gal	L	2.4	PT/A	Layby	D	40.54 ml/mx				
	NIS			L	0.25	% V/V	Layby	D	4.999 ml/mx				
10	Prowl H2O	3.8	lba/gal	L	2.1	PT/A	PRE	A	35.47 ml/mx	105	210	302	406
	Ignite 280	2.34	lba/gal	L	23	FL OZ/A	POST-1	B	24.28 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	B	23.23 ml/mx				
	Ignite 280	2.34	lba/gal	L	23	FL OZ/A	POST-2	C	24.28 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2	C	23.23 ml/mx				
	Direx	4	lba/gal	L	2	PT/A	Layby	D	33.78 ml/mx				
	MSMA	6.6	lba/gal	L	2.4	PT/A	Layby	D	40.54 ml/mx				
	NIS			L	0.25	% V/V	Layby	D	4.999 ml/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
443.365	ml	Prowl H2O	3.8	L	
319.363	ml	Weathermax	4.5	L	
380.027	ml	Direx	4	L	
456.033	ml	MSMA	6.6	L	
56.244	ml	NIS		L	
333.880	ml	Ignite 280	2.34	L	
4.487	ml	Staple	3.2	L	
42.225	ml	Dual Magnum	7.62	L	

- * 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 2 liters (mix size basis).
- * Product amount calculations increased 25 % for overage adjustment.
- * 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 2 liters.

Trial Comments

OBJECTIVE: Determine Widestrke cotton and weed response to Ignite applications applied topically.

WEED RESPONSE:

Palmer amaranth:

1. Glyphosate provided poor control of a mixed population of glyphosate resistant and sensitive Palmer amaranth.
2. The addition of Staple with glyphosate improved control 34% at 18 d after the initial application.
3. Dual mixed with glyphosate did not improve control because the initial flush was never controlled.
4. Ignite applied alone or mixed with Staple or Dual provided complete control of 2 inch Palmer with the initial application and with sequential applications.
5. Control was also excellent with Ignite plus glyphosate mixtures except when Ignite was applied a half rate.

Pitted (80%) and entireleaf (20%) morningglory:

1. Glyphosate provided good control; Ignite provided excellent control.

COTTON INJURY:

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1. At 3 d after applications to 1 leaf cotton: Ignite caused 15% injury. The addition of Staple did not increase injury but mixing Dual Magnum with Ignite increased injury 6 to 7%. Mixing glyphosate and Ignite increased injury 6% compared to Ignite alone but only when both products were applied at full rates.
2. At 6 d after sequential applications to 6 leaf cotton: injury greater than 10% was only noted with Ignite plus glyphosate tank mixtures when Ignite was applied at the full rate.
3. Cotton recovered quickly with no visual injury noted by 18 days after the sequential POT application.

COTTON YIELD:

1. Programs relying on glyphosate provided the lowest yields because of the lack of pigweed control.
2. Ignite programs provided similar yield except when the full rate of glyphosate was mixed with the full rate of Ignite and applied topically. Yields from this program was at least 300 lb/A of seed cotton less than other Ignite programs. The only explanation could have been due to an extended period of significant crop injury in a season that was extremely dry from planting till harvest.

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Pest Code	AMAPA	AMAPA	AMAPA	IPOZZ	IPOZZ	IPOZZ	IPOZZ	GOSHI			
Crop Code								BCOT			
BBCH Scale											
Rating Date	May-30-07	Jun-17-07	Aug-31-07	May-19-07	May-30-07	Jun-17-07	Aug-31-07	May-15-07			
Rating Data Type	%	%	%	%	%	%	%	%			
Rating Unit	control	control	control	control	control	control	control	injury			
Days After First/Last Applic.	0	0	75	7	0	0	75	3			
Trt-Eval Interval	18 DA-B	18 DA-C	75 DA-D	7 DA-B	18 DA-B	18 DA-C	75 DA-D	3 DA-B			
ARM Action Codes											
Number of Decimals											
Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	5	6	7	8
8	Prowl H2O	2.1	PT/A	79 b	73 b	63 c	99 a	95 ab	99 a	91 bc	12 bc
	Ignite 280	11.5	FL OZ/A								
	Weathermax	22	FL OZ/A								
	Ignite 280	11.5	FL OZ/A								
	Weathermax	22	FL OZ/A								
	Direx	2	PT/A								
	MSMA	2.4	PT/A								
	NIS	0.25	% V/V								
9	Prowl H2O	2.1	PT/A	99 a	99 a	99 a	99 a	99 a	99 a	96 ab	15 b
	Ignite 280	23	FL OZ/A								
	Weathermax	11	FL OZ/A								
	Ignite 280	23	FL OZ/A								
	Weathermax	11	FL OZ/A								
	Direx	2	PT/A								
	MSMA	2.4	PT/A								
	NIS	0.25	% V/V								
10	Prowl H2O	2.1	PT/A	99 a	99 a	99 a	99 a	99 a	99 a	99 a	20 a
	Ignite 280	23	FL OZ/A								
	Weathermax	22	FL OZ/A								
	Ignite 280	23	FL OZ/A								
	Weathermax	22	FL OZ/A								
	Direx	2	PT/A								
	MSMA	2.4	PT/A								
	NIS	0.25	% V/V								
LSD (P=.05)				5.2	5.4	8.0	4.2	5.9	2.2	5.3	4.4
Standard Deviation				3.6	3.7	5.5	2.9	4.1	1.5	3.6	3.0
CV				4.71	4.97	8.36	3.33	4.71	1.73	4.26	25.43
Bartlett's X2				8.513	0.085	9.241	48.133	2.739	0.683	10.861	24.258
P(Bartlett's X2)				0.074	0.994	0.16	0.001*	0.602	0.409	0.093	0.004*

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

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Pest Code			GOSHI	GOSHI	GOSHI	GOSHI	SEED	SEED
Crop Code			BCOT	BCOT	BCOT	BCOT	GOSHI	GOSHI
BBCH Scale			BCOT	BCOT	BCOT	BCOT	BCOT	BCOT
Rating Date			May-19-07	May-30-07	Jun-05-07	Jun-17-07	Nov-02-07	Nov-02-07
Rating Data Type			%	%	%	%	lb	YIELD
Rating Unit			injury	injury	injury	injury	plot	LB
Days After First/Last Applic.			7	0	6	0	138	138
Trt-Eval Interval			7 DA-B	18 DA-B	6 DA-C	18 DA-C		
ARM Action Codes								TY1
Number of Decimals								1
Trt No.	Treatment Name	Rate	9	10	11	12	13	14
		Rate Unit						
1	Prowl H2O (check)	2.1 PT/A	0 g	0 c	0 f	0 a	0 c	0.0 c
2	Prowl H2O	2.1 PT/A	3 fg	4 abc	0 f	0 a	1 b	701.3 b
	Weathermax	22 FL OZ/A						
	Weathermax	22 FL OZ/A						
	Direx	2 PT/A						
	MSMA	2.4 PT/A						
	NIS	0.25 % V/V						
3	Prowl H2O	2.1 PT/A	15 bc	8 ab	9 cd	0 a	2 a	1106.4 a
	Ignite 280	23 FL OZ/A						
	Ignite 280	23 FL OZ/A						
	Direx	2 PT/A						
	MSMA	2.4 PT/A						
	NIS	0.25 % V/V						
4	Prowl H2O	2.1 PT/A	12 cd	7 ab	2 f	0 a	1 b	673.7 b
	Weathermax	22 FL OZ/A						
	Staple	1.7 FL OZ/A						
	Weathermax	22 FL OZ/A						
	Direx	2 PT/A						
	MSMA	2.4 PT/A						
	NIS	0.25 % V/V						
5	Prowl H2O	2.1 PT/A	15 bc	8 ab	10 bc	0 a	2 a	1086.1 a
	Ignite 280	23 FL OZ/A						
	Staple	1.7 FL OZ/A						
	Ignite 280	23 FL OZ/A						
	Direx	2 PT/A						
	MSMA	2.4 PT/A						
	NIS	0.25 % V/V						
6	Prowl H2O	2.1 PT/A	10 de	2 bc	3 ef	0 a	1 b	720.2 b
	Weathermax	22 FL OZ/A						
	Dual Magnum	1 PT/A						
	Weathermax	22 FL OZ/A						
	Direx	2 PT/A						
	MSMA	2.4 PT/A						
	NIS	0.25 % V/V						
7	Prowl H2O	2.1 PT/A	21 a	10 a	9 cd	0 a	2 a	1180.5 a
	Ignite 280	23 FL OZ/A						
	Dual Magnum	1 PT/A						
	Ignite 280	23 FL OZ/A						
	Direx	2 PT/A						
	MSMA	2.4 PT/A						
	NIS	0.25 % V/V						

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Pest Code					SEED	SEED
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
BBCH Scale	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT
Rating Date	May-19-07	May-30-07	Jun-05-07	Jun-17-07	Nov-02-07	Nov-02-07
Rating Data Type	%	%	%	%	lb	YIELD
Rating Unit	injury	injury	injury	injury	plot	LB
Days After First/Last Applic.	7	0	6	0	138	138
Trt-Eval Interval	7 DA-B	18 DA-B	6 DA-C	18 DA-C		
ARM Action Codes						TY1
Number of Decimals						1
Trt Treatment						
No. Name Rate Unit	9	10	11	12	13	14
8 Prowl H2O 2.1 PT/A	7 ef	5 abc	6 de	0 a	2 a	1179.0 a
Ignite 280 11.5 FL OZ/A						
Weathermax 22 FL OZ/A						
Ignite 280 11.5 FL OZ/A						
Weathermax 22 FL OZ/A						
Direx 2 PT/A						
MSMA 2.4 PT/A						
NIS 0.25 % V/V						
9 Prowl H2O 2.1 PT/A	19 ab	9 ab	14 ab	0 a	2 a	1167.4 a
Ignite 280 23 FL OZ/A						
Weathermax 11 FL OZ/A						
Ignite 280 23 FL OZ/A						
Weathermax 11 FL OZ/A						
Direx 2 PT/A						
MSMA 2.4 PT/A						
NIS 0.25 % V/V						
10 Prowl H2O 2.1 PT/A	19 ab	10 a	17 a	0 a	1 b	705.7 b
Ignite 280 23 FL OZ/A						
Weathermax 22 FL OZ/A						
Ignite 280 23 FL OZ/A						
Weathermax 22 FL OZ/A						
Direx 2 PT/A						
MSMA 2.4 PT/A						
NIS 0.25 % V/V						
LSD (P=.05)	4.4	6.1	3.7	0.0	0.3	202.37
Standard Deviation	3.0	4.2	2.6	0.0	0.2	139.47
CV	25.54	66.03	37.7	0.0	16.37	16.37
Bartlett's X2	14.452	6.473	4.212	0.0	17.651	17.651
P(Bartlett's X2)	0.071	0.594	0.648	.	0.024*	0.024*

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

Column 14: TY1 = 580.8*[13]

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Weed control with Roundup and Ignite in PHY 485 Widestrike Flex Cotton

Trial ID: C16-07

Protocol ID:

Location: Macon County

Study Director: Stanley Culpepper

Investigator: Alan C. York

General Trial Information

Study Director: Stanley Culpepper

Title: Ext. Weed Science

Affiliation: Univ. of Georgia

Postal Code: 31794

E-mail: _____

Investigator: Stanley Culpepper

Title: Ext. Weed Science

Affiliation: Univ. of Georgia

Postal Code: 31794

E-mail: _____

Keywords:

Trial Location

City: Macon County

Trial Status: completed

State/Prov.: GA

Trial Reliability: good

Postal Code: _____

Initiation Date: Apr-17-07

Country: USA

Planned Completion Date: _____

-Latitude of LL Corner °: _____ -Longitude of LL Corner °: _____

Altitude of LL Corner: _____ Unit: _____ Angle y-axis to North °: _____

Map Reference: _____

Directions:

Conducted Under GLP: _

Official Trial Code: _____

Conducted Under GEP: _

Other Trial Code: _____

Guideline	Description
1.	

Objectives:

Conclusions:

Cooperator/Landowner

Cooperator: _____ Country: _____

Organization: _____ Phone No: _____

Address 1: _____ Fax No: _____

Address 2: _____

City: _____

State/Prov: _____

Postal Code: _____ E-mail: _____

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Crop Description	
Crop 1: GOSHI <i>Gossypium hirsutum</i>	Cotton, American upland
Variety: Widestrike 485 RF	Description: _____
BBCH Scale: BCOT	Planting Date: Apr-17-07
Planting Method: hill drop	Rate, Unit: 2 8 in
Depth, Unit: 0.5 in	Perennial Age, Unit: _____
Row Spacing, Unit: 36 in	Spacing Within Row, Unit: _____
Seed Bed: bedded	Soil Temperature, Unit: 75 F
Soil Moisture: moist	Emergence Date: Apr-23-07
Harvest Date: _____	Harvest Equipment: _____
Harvested Width, Unit: _____	Harvested Length, Unit: _____
% Standard Moisture: _____	Moisture Meter: _____
Weighing Equipment: _____	

Pest Description	
Pest 1 Type: W Code: AMAPA <i>Amaranth, Palmer</i>	
Common Name: <i>Amaranthus palmeri</i>	
Description: _____	
Pest 2 Type: W Code: IPOLA <i>Morningglory, pitted</i>	
Common Name: <i>Ipomoea lacunosa</i>	
Description: _____	

Site and Design	
Plot Width, Unit: 12 FT	Site Type: On farm
Plot Length, Unit: 25 FT	Tillage Type: Conventional
Replications: 4	Study Design: Randomized Complete Block
% Slope: _____	Soil Drainage: _____

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

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

Comment:

Field Prep./Maintenance:

Soil Description	
Description Name: _____	
% Sand: 82	% OM: 2.0
% Silt: 14	pH: 6.3
% Clay: 4	CEC: _____
Texture: loamy sand	Soil Name: _____
Fert. Level: _____	
Analyzed By: _____	

Additional Measured Elements		
Element	Quantity	Unit

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Moisture Conditions

Overall Moisture Conditions: Dry

Closest Weather Station: _____ Distance: _____ Unit: _____

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Application Description

	A	B	C	D
Application Date:	Apr-17-07	May-12-07	May-30-07	Jun-17-07
Time of Day:	7:00 pm	11:00 am	9:00 am	9:00 am
Application Method:	broadcast	broadcast	broadcast	broadcast
Application Timing:	PRE	Post 1	Post 2	layby
Application Placement:	on soil	overtop	overtop	directed
Applied By:				
Air Temperature, Unit:	78 F	87 F	78 F	88 F
% Relative Humidity:	52	38	59	46
Wind Velocity, Unit:	5 mph	0 mph	2 mph	3 mph
Wind Direction:				
Dew Presence (Y/N):	N	N	N	N
Water Hardness:				
Soil Temperature, Unit:	78 F	84 F	84 F	91 F
Soil Moisture:	moist	fair	dry	fair
% Cloud Cover:	20	100	0	0
Next Rain Occurred On:				

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	GOSHI BCOT	GOSHI BCOT	GOSHI BCOT	GOSHI BCOT
Stage Scale Used:	BBCH	BBCH	BBCH	BBCH
Stage Majority, Percent:	not up 100	1 leaf 90	6 leaf 100	11 leaf 100
Stage Minimum, Percent:	not up 100	1 leaf 90	6 leaf 100	11 leaf 100
Stage Maximum, Percent:	0 0	2 leaf 10	6 leaf 100	11 leaf 100
Diameter, Unit:				
Height, Unit:	0 in	1.5 in	6 in	12 in
Height Minimum, Maximum:	0 0	1 2	6 6	10 14

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Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Disc., Scale:	AMAPA W .	AMAPA W .	AMAPA W .	AMAPA W .
Stage Majority, Percent:
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:	0 in	2 in	4 in	12 in
Height Minimum, Maximum:	0 0	1 2	1 7	1 24
Density, Unit:	0 ydsq	5 ydsq	5 ydsqs	4 ydsq
Coverage, Unit:				
Pest 2 Code, Disc., Scale:	IPOLA W .	IPOLA W .	IPOLA W .	IPOLA W .
Stage Majority, Percent:
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:	0 in	3 in	2 in	2 in
Height Minimum, Maximum:	0 0	2 4	1 4	1 4
Density, Unit:	0 ydsq	4 ydsq	4 ydsq	4 ydsq
Coverage, Unit:				

Application Equipment

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

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Appl. Equipment:	backpack
Operating Pressure, Unit:	26 PSI
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	36 in
Nozzles/Row:	1
Nozzle Calibration, Unit:	
Band Width, Unit:	
Boom ID:	
Boom Length, Unit:	
Boom Height, Unit:	12 in
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	15 GAL/AC
Mix Size, Unit:	
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Equipment Comment:

Trt No Treatment Application Comment

Date By Notes

Date By Deviations

Reasons: