

**Control of Waterhemp with SuppoRRt.**

01-5C-S50

**OBJECTIVE:** Evaluate SuppoRRt for control of Common waterhemp with and without Roundup Ultra Max.

**SUMMARY:** Roundup Ultra Max controlled 94 to 98% of annual grass and 85 to 96% of common waterhemp at 28 days after treatment (DAT). Tank mixing SuppoRRt with Roundup Ultra Max reduced common waterhemp control by 11 and 7% at 14 and 28 DAT, respectively. Annual grass control 14 DAT was reduced 4% when SuppoRRt was tank mixed with Roundup Ultra Max, however, no reduction in control was observed at 28 DAT.

**HERBICIDES**

ROUNDUP ULTRA MAX 3.7 SL  
SUPPORTT 75 WP

**WEEDS**

waterhemp, common  
grasses, annual

**CROP**

non-crop

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

## Control of Waterhemp with SuppoRRt.

Project Code: 01-5C-S50      Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country:            Belleville      IL 62221 USA  
 Trial Status: Final                    Initiation Date: 7-23-01

**Objective:**

Evaluate SuppoRRt for control of Common waterhemp with and without Roundup Ultra Max.

Weed Code	Common Name	Scientific Name
1.	GGGAN grasses, annual	
2.	AMATA waterhemp, common	Amaranthus rudis Sauer

Crop 1:                    None    non-crop

Plot Width, Unit: 10      FT                    Plot Length, Unit: 30      FT      Reps: 3  
 Tillage Type:            No-Till                    Study Design: Randomized complete block  
 Previous Crop, Year: GLXMA, 2000  
 Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 0 LB/A

Soil Name: Weir                                    % OM: 1.7      pH: 5.4      CEC: 6  
 Texture:    Silt loam                                Fert. Level:    P1: 74 LB/A, K: 132 LB/A

**APPLICATION DESCRIPTION****A**

Application Date:        7-23-01  
 Time of Day:            11:00  
 Application Method:    Spray  
 Application Timing:    6-18"W  
 Applic. Placement:     BROFOL  
 Wind Velocity, Unit:    0-2 MPH  
 Soil Moisture:            NORMAL

**CROP STAGE AT EACH APPLICATION****A**

Crop 1 Code, Stage:    None    NA  
 Height, Unit:            NA      NA

**WEED STAGE AT EACH APPLICATION****A**

Weed 1 Code:            GGGAN  
 Stage(leaves):        4-12  
 Height(inches):        10-36  
 Density:                Medium

Weed 2 Code:            AMATA  
 Stage(leaves):        10-20  
 Height(inches):        8-20  
 Density:                High

**APPLICATION EQUIPMENT****A**

Appl. Equipment:        CO2 sprayer  
 Operating Pressure:    40 PSI  
 Nozzle Type:            Flat fan  
 Nozzle Size:            8002  
 Boom Length, Unit:    7.5 FT  
 Spray Volume, Unit:    15      GPA

**NOTES:**

NOT HARVESTED

Control of Waterhemp with SuppoRRt.

Project Code: 01-5C-S50      Location: Belleville Research Center

Weed Code	GGGAN	GGGAN	AMATA	AMATA
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	8-6-01	8-20-01	8-6-01	8-20-01
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-A	28 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GGGAN Control Percent	GGGAN Control Percent	AMATA Control Percent	AMATA Control Percent
1	NONTREATED									0	0	0	0
2	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	6-18"W	A	77	94	82	85
2	AMS	100	DRY	2.0	% W/W	2	%W/W	6-18"W	A				
3	ROUNDUP ULTRA MAX	3.7	SL	1.17	LB AE/A	40	OZ/A	6-18"W	A	83	98	91	96
3	AMS	100	DRY	2.0	% W/W	2	%W/W	6-18"W	A				
4	SUPPORRT	75	WP	0.06	LB A/A	1.28	OZ/A	6-18"W	A	0	0	0	0
4	AMS	100	DRY	2.0	% W/W	2	%W/W	6-18"W	A				
5	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	6-18"W	A	73	92	71	78
5	SUPPORRT	75	WP	0.06	LB A/A	1.28	OZ/A	6-18"W	A				
5	AMS	100	DRY	2.0	% W/W	2	%W/W	6-18"W	A				
LSD (P=.05)										4.3	5.2	4.0	6.4
Replicate F										3.331	2.638	0.982	2.211
Replicate Prob(F)										0.0886	0.1319	0.4157	0.1720
Treatment F										1052.785	1053.636	1333.297	586.915
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

Control of Waterhemp with SuppoRRt.

Project Code: 01-5C-S50      Location: Belleville Research Center

Trial Comments

1. Protocol: Cedar Chemical.
2. DA-A = days after 6-18"W application.