

Evaluation of Roundup PowerMAX 3

Arlington, WI 2020

Trial Information

Trial Sponsor: Bayer

Objective: Evaluate weed control of Roundup PowerMAX 3 compared to other commercial glyphosate formulations

Crop: none

Weed species (pressure): Common lambsquarters (very high); common ragweed (high); velvetleaf (high); pigweed (moderate); foxtails (high)

Herbicide Application(s): POST – 6/19
common lambsquarters – 6-11"
common ragweed – 5-14"
velvetleaf – 4-9"
pigweed – 4-7"
foxtails – 4-11"

For the full report see trial #20-ARL-BG02 in the [2020 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON



Evaluation of Roundup PowerMAX 3

Arlington, WI 2020

Weed control (%) ratings 13 days after the POST application

Herbicide Treatment*	Weed Species**				
	CHEAL	AMBEL	ABUTH	Pigweed	Foxtails
0.77 lb ae/a	33 fl oz Helosate Plus Advanced	79	97	94	100
	22 fl oz Credit Xtreme	84	93	94	100
	22 fl oz Roundup PowerMAX II	91	93	94	100
	22 fl oz Roundup WeatherMAX	95	97	94	100
	20.7 fl oz Roundup PowerMAX 3	94	97	92	100
1.125 lb ae/a	48.1 fl oz Helosate Plus Advanced	88	97	97	100
	32 fl oz Credit Xtreme	91	99	97	100
	32 fl oz Roundup PowerMAX II	95	99	95	100
	32 fl oz Roundup WeatherMAX	97	98	96	100
	30 fl oz Roundup PowerMAX 3	99	99	96	100
LSD (0.10)		6	3	ns	ns
p-value		<0.01	<0.01	ns	ns

*All treatments included liquid AMS at 2% v/v

**CHEAL (common lambsquarters); AMBEL (common ragweed); ABUTH (velvetleaf); Pigweed sp. (redroot, smooth pigweed) Foxtail sp. (giant, green foxtail)

Roundup PowerMAX 3 is a new formulation of glyphosate that contains a proprietary surfactant blend and a higher concentration of glyphosate acid per gallon

Evaluation of Roundup PowerMAX 3

Arlington, WI 2020

Weed control (%) ratings 21 days after the POST application

Herbicide Treatment*	Weed Species**				
	CHEAL	AMBEL	ABUTH	Pigweed	Foxtails
0.77 lb ae/a	33 fl oz Helosate Plus Advanced	74	96	97	100
	22 fl oz Credit Xtreme	74	95	95	100
	22 fl oz Roundup PowerMAX II	88	93	95	100
	22 fl oz Roundup WeatherMAX	93	95	92	100
	20.7 fl oz Roundup PowerMAX 3	96	96	94	100
1.125 lb ae/a	48.1 fl oz Helosate Plus Advanced	76	98	99	100
	32 fl oz Credit Xtreme	89	99	97	100
	32 fl oz Roundup PowerMAX II	95	99	96	100
	32 fl oz Roundup WeatherMAX	97	98	97	100
	30 fl oz Roundup PowerMAX 3	97	99	97	100
LSD (0.10)		7	3	2	ns
p-value		<0.01	0.02	<0.01	ns
ns					ns

*All treatments included liquid AMS at 2% v/v

**CHEAL (common lambsquarters); AMBEL (common ragweed); ABUTH (velvetleaf); Pigweed sp. (redroot, smooth pigweed) Foxtail sp. (giant, green foxtail)

Roundup PowerMAX 3 is a new formulation of glyphosate that contains a proprietary surfactant blend and a higher concentration of glyphosate acid per gallon

Day of application (6/19)



Evaluation of Roundup PowerMAX 3

Arlington, WI 2020

Plot pictures taken on 7/2
13 days after application

The number in the upper right-hand corner is the average
% common lambsquarterscontrol of 4 replications

13 days after POST (7/2)

0%

Untreated Check



13 days after POST (7/2)

79%

POST: 33 fl oz Helosate Advanced Plus + 2% v/v AMS



13 days after POST (7/2)

84%

POST: 22 fl oz Credit Xtreme + 2% v/v AMS



13 days after POST (7/2)

91%

POST: 22 fl oz Roundup PowerMAX II + 2% v/v AMS



13 days after POST (7/2)

POST: 22 fl oz Roundup WeatherMAX + 2% v/v AMS

95%



13 days after POST (7/2)

94%

POST: 20.7 fl oz Roundup PowerMAX 3 + 2% v/v AMS



13 days after POST (7/2)

POST: 48.1 fl oz Helosate Advanced Plus + 2% v/v AMS

88%



13 days after POST (7/2)

91%

POST: 32 fl oz Credit Xtreme + 2% v/v AMS



13 days after POST (7/2)

POST: 32 fl oz Roundup PowerMAX II + 2% v/v AMS

95%



13 days after POST (7/2)

POST: 32 fl oz Roundup WeatherMAX + 2% v/v AMS

97%



13 days after POST (7/2)

99%

POST: 30 fl oz Roundup PowerMAX 3 + 2% v/v AMS



Evaluation of Roundup PowerMAX 3

Arlington, WI 2020

Plot pictures taken on 7/10
21 days after application

The number in the upper right-hand corner is the average
% common lambsquarterscontrol of 4 replications

2
L

V

n



21 days after POST (7/10)

74%

POST: 33 fl oz Helosate Advanced Plus + 2% v/v AMS



21 days after POST (7/10)

74%

POST: 22 fl oz Credit Xtreme + 2% v/v AMS



21 days after POST (7/10)

88%

POST: 22 fl oz Roundup PowerMAX II + 2% v/v AMS



21 days after POST (7/10)

93%

POST: 22 fl oz Roundup WeatherMAX + 2% v/v AMS



21 days after POST (7/10)

96%

POST: 20.7 fl oz Roundup PowerMAX 3 + 2% v/v AMS



21 days after POST (7/10)

76%

POST: 48.1 fl oz Helosate Advanced Plus + 2% v/v AMS



21 days after POST (7/10)

89%

POST: 32 fl oz Credit Xtreme + 2% v/v AMS



21 days after POST (7/10)

95%

POST: 32 fl oz Roundup PowerMAX II + 2% v/v AMS



21 days after POST (7/10)

97%

POST: 32 fl oz Roundup WeatherMAX + 2% v/v AMS



21 days after POST (7/10)

97%

POST: 30 fl oz Roundup PowerMAX 3 + 2% v/v AMS

