

Corn Preplant Burndown Programs w/Rapidicil Janesville, WI 2025

Trial Information

Trial Sponsor(s): Valent

Objective: Evaluate burndown and residual control of **Rapidicil*** plus Valent corn herbicides

Crop: Corn

Hybrid: P9998Q

Weed species (pressure): giant ragweed (high)
waterhemp** (moderate-high)
***waterhemp had not yet emerged at the time of the burndown application (5/14)*

Herbicide Application(s): PRE – 5/14
POST - 6/16 (V4/V5 corn)

***Rapidicil** is the registered trademark name for the active ingredient epyrifenacil, a new active ingredient in the group 14 (PPO) site of action. Rapidicil is a fast-acting herbicide that can be used for burndown weed control prior to planting corn, soybeans, or wheat. Rapidicil is still pending EPA registration at the time of publication of this report.

For the full report see trial #25-ROK-CN08 in the [2025 Wisconsin Weed Science Research Report](#)



Corn Preplant Burndown Programs w/Rapdicil Janesville, WI 2025

Trt #	Herbicide (rate acre ⁻¹)	Giant Ragweed (%)					Waterhemp (%)			Yield ^b bu/acre
		5/19	5/27	6/4	6/16	10/17	6/16	6/24	10/17	
1	Untreated Check	0	0	0	0	0	0	0	0	4 c
7	Treated Check Roundup PowerMAX3 (32 oz) + COC (1%) + AMS (3 qt)	28	70	74	0	13	0	0	35	31 b
Two-Pass – Preplant (5/14) fb POST (6/16)		POST					POST			
2	Rapdicil (5 oz) + Maverick (18 oz) + Roundup PM3 (32 oz) + COC (1%) + AMS (3 qt) fb Roundup PowerMAX3 (32 oz) + Status (5 oz) + NIS (0.25%) + AMS (3 qt)	95	96	93	86	90	87	92	85	206 a
3	Rapdicil (5 oz) + Maverick (18 oz) + AAtrex (2 pt) + RU PM3 (32 oz) + COC (1%) + AMS (3 qt) fb Roundup PowerMAX3 (32 oz) + Status (5 oz) + NIS (0.25%) + AMS (3 qt)	97	96	95	89	91	95	96	79	220 a
4	Rapdicil (5 oz) + Bicep Lite II Mag (1.9 qt) + Roundup PM3 (32 oz) + COC (1%) + AMS (3 qt) fb Roundup PowerMAX3 (32 oz) + Status (5 oz) + NIS (0.25%) + AMS (3 qt)	96	94	84	44	79	74	68	63	202 a
5	Rapdicil (5 oz) + Perpetuo (8 oz) + AAtrex (2 pt) + RU PM3 (32 oz) + COC (1%) + AMS (3 qt) fb Roundup PowerMAX3 (32 oz) + Status (5 oz) + NIS (0.25%) + AMS (3 qt)	97	95	84	70	84	85	81	71	212 a
6	Storen (1.8 qt) + Roundup PM3 (32 oz) + COC (1%) + AMS (3 qt) fb Roundup PowerMAX3 (32 oz) + Status (5 oz) + NIS (0.25%) + AMS (3 qt)	28	75	90	91	98	86	94	91	227 a
LSD ($\alpha=0.10$)		4	2	5	13	8	10	7	14	18
p value		<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

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Corn Preplant Burndown Programs w/Rapicidil Janesville, WI 2025

Picture taken the day of application (5/14)



Corn Preplant Burndown Programs w/Rapidilicil Janesville, WI 2025

Plot pictures taken on 5/19
5 days after the burndown application

The number in the upper right-hand corner is the average %
giant ragweed control of 4 replications

5 days after Burndown (5/19)
Untreated Check

0%



5 days after Burndown (5/19)

BD: 5 oz Rapidilicil + 18 oz Maverick + Roundup + COC + AMS

95%



5 days after Burndown (5/19)

BD: 5 oz Rapidilicil + 18 oz Maverick + 2 pt ATZ + 32 oz Roundup + COC + AMS

97%



5 days after Burndown (5/19)

BD: 5 oz Rapidilicil + 1.9 qt Bicep Lite II Mag. + 32 oz Roundup + COC + AMS

96%



5 days after Burndown (5/19)

BD: 5 oz Rapidilicil + 8 oz Perpetuo + 2 pt ATZ + 32 oz Roundup + COC + AMS

97%



5 days after Burndown (5/19)

BD: 1.8 qt Storen + 32 oz Roundup + COC + AMS

28%



5 days after Burndown (5/19)
BD: 32 oz Roundup + COC + AMS

28%



Corn Preplant Burndown Programs w/Rapidicil Janesville, WI 2025

Plot pictures taken on 5/27
13 days after the burndown application

The number in the upper right-hand corner is the average %
giant ragweed control of 4 replications

13 days after Burndown (5/27)
Untreated Check

0%



13 days after Burndown (5/27)

BD: 5 oz Rapidilicil + 18 oz Maverick + Roundup + COC + AMS

96%



13 days after Burndown (5/27)

BD: 5 oz Rapidilicil + 18 oz Maverick + 2 pt ATZ + 32 oz Roundup + COC + AMS

96%



13 days after Burndown (5/27)

BD: 5 oz Rapidilicil + 1.9 qt Bicep Lite II Mag. + 32 oz Roundup + COC + AMS

94%



13 days after Burndown (5/27)

BD: 5 oz Rapidilicil + 8 oz Perpetuo + 2 pt ATZ + 32 oz Roundup + COC + AMS

95%



13 days after Burndown (5/27)

BD: 1.8 qt Storen + 32 oz Roundup + COC + AMS

75%



13 days after Burndown (5/27)
BD: 32 oz Roundup + COC + AMS

70%



Corn Preplant Burndown Programs w/Rapidicil Janesville, WI 2025

Plot pictures taken on 6/4
21 days after the burndown application

The number in the upper right-hand corner is the average %
giant ragweed control of 4 replications

21 days after Burndown (6/4)
Untreated Check

0%



21 days after Burndown (6/4)

BD: 5 oz Rapidilicil + 18 oz Maverick + Roundup + COC + AMS

93%



21 days after Burndown (6/4)

BD: 5 oz Rapidilcil + 18 oz Maverick + 2 pt ATZ + 32 oz Roundup + COC + AMS 95%



21 days after Burndown (6/4)

BD: 5 oz Rapidilicil + 1.9 qt Bicep Lite II Mag. + 32 oz Roundup + COC + AMS

84%



21 days after Burndown (6/4)

BD: 5 oz Rapidilicil + 8 oz Perpetuo + 2 pt ATZ + 32 oz Roundup + COC + AMS

84%



21 days after Burndown (6/4)

BD: 1.8 qt Storen + 32 oz Roundup + COC + AMS

90%



21 days after Burndown (6/4)
BD: 32 oz Roundup + COC + AMS

74%



Corn Preplant Burndown Programs w/Rapidicil Janesville, WI 2025

Plot pictures taken on 6/16
33 days after the burndown application

The number in the upper right-hand corner is the average %
giant ragweed residual control of 4 replications

33 days after Burndown (6/16)

0%

Untreated Check



33 days after Burndown (6/16)

BD: 5 oz Rapidilicil + 18 oz Maverick + Roundup + COC + AMS

86%



33 days after Burndown (6/16)

BD: 5 oz Rapidilicil + 18 oz Maverick + 2 pt ATZ + 32 oz Roundup + COC + AMS

89%



33 days after Burndown (6/16)

BD: 5 oz Rapidilicil + 1.9 qt Bicep Lite II Mag. + 32 oz Roundup + COC + AMS

44%



33 days after Burndown (6/16)

BD: 5 oz Rapidilicil + 8 oz Perpetuo + 2 pt ATZ + 32 oz Roundup + COC + AMS

70%



33 days after Burndown (6/16)

BD: 1.8 qt Storen + 32 oz Roundup + COC + AMS

91%



33 days after Burndown (6/16)
BD: 32 oz Roundup + COC + AMS

0%



Corn Pre-Plant Burndown Herbicide Programs with Rapidilicil

Giant ragweed control 5 days after application



Untreated Check



Roundup PM3 @ 32 fl oz



Storen @ 1.8 qt
Roundup PM3 @ 32 fl oz



Rapidilicil @ 5 fl oz
Maverick @ 18 fl oz
Atrazine 4L @ 1 qt
Roundup PM3 @ 32 fl oz

*All treatments included COC (1% v/v) and AMS (3 qt/a)

Corn Pre-Plant Burndown Herbicide Programs with Rapidilcil

Giant ragweed control 13 days after application



Untreated Check

Roundup PM3 @ 32 fl oz

Storen @ 1.8 qt
Roundup PM3 @ 32 fl oz

Rapidilcil @ 5 fl oz
Maverick @ 18 fl oz
Atrazine 4L @ 1 qt
Roundup PM3 @ 32 fl oz

*All treatments included COC (1% v/v) and AMS (3 qt/a)

Corn Pre-Plant Burndown Herbicide Programs with Rapidilicil

Giant ragweed control 21 days after application



Untreated Check



Roundup PM3 @ 32 fl oz



Storen @ 1.8 qt
Roundup PM3 @ 32 fl oz



Rapidilicil @ 5 fl oz
Maverick @ 18 fl oz
Atrazine 4L @ 1 qt
Roundup PM3 @ 32 fl oz

*All treatments included COC (1% v/v) and AMS (3 qt/a)