Trial Information

Trial Sponsor(s): Summit Agro

Objective: Compare single and split applications of Restraint

to industry standards for weed control and crop

safety.

Crop: Corn

Hybrid: Dekalb DKC 54-38 RIB

Weed species (pressure): Giant ragweed (moderate-high)

Velvetleaf (moderate)

Herbicide Application(s): PRE - 5/24

POST – 6/15 (V4 corn)

For the full report see trial #21-ROK-CN04 in the 2021 Wisconsin Weed Science Research Report





		Crop Inj	ury (%) ^c	Giant Ragweed (%)				Velvetleaf (%)			Yield ^b
Trt #	Herbicide (rate acre ⁻¹)	6/23	6/29	6/8	6/29	7/15	11/3	6/8	6/29	7/15	bu acre ⁻¹
1	Untreated Check	0	0	0	0	0	0	0	0	0	79 b
Two-l	Pass – PRE (5/24) fb POST (6/15)										
2	Restraint (36 oz) + AAtrex (2 pt) fb Shieldex (1 oz) + AAtrex (1 pt) + COC 1% v/v	5	5	49	88	87	96	37	88	84	250 a
3	Restraint (18 oz) + AAtrex (2 pt) fb Restraint (18 oz) + AAtrex (1 pt) + COC 1% v/v	11	11	39	86	86	96	55	95	89	247 a
4	Resicore (40 oz) + AAtrex (2 pt) fb Restraint (30 oz) + AAtrex (1 pt) + COC 1% v/v	13	11	65	92	91	98	75	99	99	246 a
5	Resicore (40 oz) + AAtrex (2 pt) fb Resicore (40 oz) + AAtrex (1 pt) + COC 1% v/v	10	8	66	96	96	99	72	100	100	250 a
	LSD (α=0.10)	2	4	10	7	4	2	17	ns	5	29
	p value	<0.001	0.063	0.002	0.084	0.005	0.052	0.014	0.304	0.003	<0.001

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

^b Yield values with the same letter are not significantly different.

^cCrop injury symptoms included leaf necrosis and chlorosis.

Plot pictures taken on 6/15
22 days after the PRE application
The day of the POST application

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









Plot pictures taken on 6/23
30 days after the PRE application
8 days after the POST application

The number in the upper right-hand corner is the average % corn leaf chlorosis/necrosis of 4 replications



PRE: 36 fl oz Restraint + 2 pt AAtrex fb

POST: 1 fl oz Shieldex + 1 pt AAtrex + COC



PRE: 18 fl oz Restraint + 2 pt AAtrex fb

POST: 18 fl oz Restraint + 1 pt AAtrex + COC



POST: 30 fl oz Restraint + 1 pt AAtrex + COC



POST: 40 fl oz Resicore + 1 pt AAtrex + COC



Plot pictures taken on 6/29
36 days after the PRE application
14 days after the POST application

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



PRE: 36 fl oz Restraint + 2 pt AAtrex fb

POST: 1 fl oz Shieldex + 1 pt AAtrex + COC



PRE: 18 fl oz Restraint + 2 pt AAtrex fb

POST: 18 fl oz Restraint + 1 pt AAtrex + COC



POST: 30 fl oz Restraint + 1 pt AAtrex + COC



POST: 40 fl oz Resicore + 1 pt AAtrex + COC



Plot pictures taken on 7/15
52 days after the PRE application
30 days after the POST application

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



PRE: 36 fl oz Restraint + 2 pt AAtrex fb

POST: 1 fl oz Shieldex + 1 pt AAtrex + COC



PRE: 18 fl oz Restraint + 2 pt AAtrex fb

POST: 18 fl oz Restraint + 1 pt AAtrex + COC



POST: 30 fl oz Restraint + 1 pt AAtrex + COC



POST: 40 fl oz Resicore + 1 pt AAtrex + COC

