Trial Information

Trial Sponsor(s): BASF

Objective: Evaluate weed control and crop safety of PRE and

POST applications of *Surtain

Crop: Corn

Variety: DKC50-87 RIB

Weed species (pressure): giant ragweed (high-very high)

Herbicide Application(s): PRE - 5/4

For the full report see trial #23-ROK-CN07 in the 2023 Wisconsin Weed Science Research Report

*Surtain is a new corn herbicide pre-mix, developed by BASF, containing encapsulated saflufenacil (Sharpen) and pyroxasulfone (Zidua). As of publication, EPA registration is still pending but is expected in 2024.





	Injury ^d (9			Giant Ragweed (%)			
Trt # Herbicide (rate acre ⁻¹)	6/2	6/8	5/25	6/2	6/8	6/27	bu acre ⁻¹
1 Check Untreated	0	0	0	0	0	0	
One-Pass – PRE (5/4)							
2 Acuron (1.5 qt)	0	0	82	70	69	30	
3 Degree XTRA (2 qt)	0	0	53	45	24	16	
4 Trivolt SC (12 fl oz)	0	0	70	64	65	31	
5 Surtain (14 fl oz)	0	0	80	57	42	18	
7 Surtain (17 fl oz)	0	0	81	63	43	17	
One-Pass – EPOST (5/25)			EPOST				
9 Surtain (14 fl oz) + Clarity (8 fl oz) + atrazine (2 pt) + Roundup PM3 (30 fl oz) + 1% COC + AMS ^c	5.5	4.8	0	86	87	83	165 -
Two-Pass – PRE (5/4) fb POST (6/2)			POST				
Surtain (14 fl oz) fb Armezon PRO (16 fl oz) + atrazine (1 pt) + Roundup PM3 (30 fl oz) + 1% COC + AMS ^c	0	8.0	81	64	90	86	167 -
Surtain (14 fl oz) fb Status (5 oz) + Zidua SC (2.5 fl oz) + Roundup PM3 (30 fl oz) + 0.25% NIS + AMS ^c	0	2.5	83	63	100	90	177 -
LSD (α=0.10)	0.3	0.6	5	13	14	16	ns
p value	<.001	<.001	<.001	0.003	<.001	<.001	0.2109

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

^bDid not take yield data from PRE only treatments as there was very little corn in these plots due to heavy giant ragweed competion.

^cDry AMS applied at 8.5 lb/100 gal

dCorn injury = % leaf necrosis (burn)

Plot pictures taken on 5/25 21 days after the PRE application













Plot pictures taken on 6/2
29 days after the PRE application
8 days after the EPOST application
The day of the POST application













EPOST: 14 oz Surtain + 8 oz Clarity + 2 pt ATZ + 30 oz RU PM3 + COC + AMS



8 days after EPOST (6/2) EPOST: 14 oz Surtain + 8 oz Clarity + 2 pt ATZ + 30 oz RU PM3 + COC + AMS



Plot pictures taken on 6/8
35 days after the PRE application
14 days after the EPOST application
6 days after the POST application













EPOST: 14 oz Surtain + 8 oz Clarity + 2 pt ATZ + 30 oz RU PM3 + COC + AMS



POST: 16 oz Armezon PRO + 1 pt ATZ + 30 oz Roundup PM3 + COC + AMS



POST: 5 oz Status + 2.5 of Zidua SC + 30 oz Roundup PM3 + NIS + AMS



Plot pictures taken on 6/27
54 days after the PRE application
33 days after the EPOST application
25 days after the POST application













EPOST: 14 oz Surtain + 8 oz Clarity + 2 pt ATZ + 30 oz RU PM3 + COC + AMS



POST: 16 oz Armezon PRO + 1 pt ATZ + 30 oz Roundup PM3 + COC + AMS



PRE: 14 fl oz Surtain fb

POST: 5 oz Status + 2.5 of Zidua SC + 30 oz Roundup PM3 + NIS + AMS

