

Kochia control in soybean with soil-applied herbicides.

The objective of the study was to evaluate kochia control with soil-applied herbicides used in soybean. No crop was planted in this study due to excessively wet soil conditions. Herbicide treatments were applied June 18 when kochia was 2- to 7-inches tall with 3-10 plants per sq ft. All treatments were applied with glyphosate at 22 fl oz. At 4 weeks after treatment (WAT), all treatments provided $\geq 92\%$ kochia control. At 8 WAT, only treatments containing metribuzin (0.66 lb/A) or sulfentrazone (Sonic, Authority MTZ, Authority Assist) provided $>90\%$ kochia control. Note that the metribuzin rate is very high, especially for light soils with high pH and low organic matter.

Table. Kochia control in soybean with soil-applied herbicides. (1338)

Treatment ^{ab}	Rate	Weed Control		
		Kochia		
		Jun-29	Jul-16	Aug-15
		-----%-----		
Gly + Zidua	22 oz + 3 oz	98	96	74
Gly + Zidua + Sharpen	22 oz + 3 oz + 1 oz	96	93	73
Gly + Zidua + Verdict	22 oz + 3 oz + 5 oz	98	95	81
Gly + Zidua + Verdict + Metribuzin	22 oz + 3 oz + 5 oz + 0.66 lb	99	100	99
Gly + Zidua + Sharpen + Metribuzin	22 oz + 3 oz + 1 oz + 0.66 lb	99	100	99
Gly + Verdict	22 oz + 5 oz	97	94	73
Gly + Verdict + Metribuzin	22 oz + 5 oz + 0.66 lb	99	100	98
Gly + Anthem	22 oz + 9 oz	96	92	68
Gly + Fierce	22 oz + 4.5 oz	98	97	85
Gly + Sonic	22 oz + 4 oz	97	98	94
Gly + Authority MTZ	22 oz + 14 oz	97	98	97
Gly + Authority Assist	22 oz + 6 oz	98	99	95
Gly + Zidua + Pursuit + Sharpen	22 oz + 3 oz + 2 oz + 1 oz	97	93	75
Gly		97	94	68
LSD (0.05)		NS	4	10.7
CV		1.4	2.5	7.6
^a All treatments applied to 2-7" Kochia (no crop-prevent plant)				
^b Gly=Glyphosate (PowerMax)				