Roundup Ready Soybean Herbicide Trial

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Objective

To evaluate various combinations of Roundup Ultra with pre-emergent herbicides and other post-emergence programs for the control of grass and broadleaf weeds in Roundup Ready soybeans.

Background

Crop Year: 1997 Soil Test: pH 7.0; P 23ppm; K 154ppm

Cooperator: Tom Weiler Fertilizer Applied: None

Morrow/ Chesterville Herbicide: County/Town: See Methods

Drainage: Systematic Variety: Stine 3264RR and Pioneer 9333RR

Planting Rate: Major Soil Type: Millgrove 204,000 seeds/A Previous Crop: Corn Planting Date: May 8, 1997 Fall chisel; Harvest Pop. 154,000 plants/A Tillage:

field cultivate twice Harvest Date: October 9, 1997

Methods and Results

		0	Control Rating (%) ¹			Costs (\$/A)				
Herbicide	Rate/Ac	Growth Stage ²	Annual Grass	Lambs- quarters	Giant Rag.	Velvet- leaf	Chem.	App. ³	Total	
Roundup Ultra	1 qt.	LPO	99	99	91	93	13.00	4.00	17.00	
Roundup Ultra	1.5 pt.	LPO	99	98	97	96	9.75	4.00	13.75	
Roundup Ultra	1	EPO	00	98	06	٥٢	6.50	4.00	21.00	
Roundup Ultra	1	LPO	98	98	96	95	6.50	4.00	21.00	
Canopy	3.0 oz.	PRE	99	99	06	07	7.88	4.00	22.20	
Roundup Ultra	1.0 pt.	LPO	99	99	96	97	6.50	4.00	22.38	
Roundup Ultra	0.5 pt.	EPO	99	91	96	O.F.	3.25	4.00	16.13	
Roundup Ultra	0.75 pt.	LPO	99	91	96	85	4.88	4.00	10.13	
Canopy XL	3.0 oz.	PRE	99	99	98	00	8.44	4.00	22.04	
Roundup Ultra	1.0 pt.	LPO	99	99	98	98	6.50	4.00	22.94	
Dual II	1.0 qt	PRE					17.50	4.00		
Firstrate	0.33 oz.	LPO	02	9.6	00	07	*4*		27.07.2	
COC	1.0 qt	LPO	92	86	99	97	97 *4* 1.18 4.00 27.07+	27.07+?		
28% N	.2.5%v/v	LPO					0.39			

Dual II	1.0 qt.	PRE					17.50	4.00	
Flexstar	2.5 pt.	LPO	99	78	95	93	15.00	4.00	41.28
MSO	1.0%v/v	LPO					0.78		
Cobra	8.0 oz.	LPO					8.38		
Select	8.0 oz.	LPO	89	74	95	90	12.19	4.00	25.75
CBC	1.0%v/v	LPO					1.18		

^{1.} Control Rating - percent of weeds controlled

Summary and Notes

Using Roundup-Ready soybeans with Roundup Ultra is another weed control option for soybean producers. Roundup can be used post-emergent on varieties with the gene incorporated in it. Herbicide prices were in-season retail prices. The ratings are the average of four replications in the study. The plots were 40' x 10' in size. The Pioneer 9333 RR beans ran 53.8 bushels per acre and Stine 3264RR produced 58.1 bushels per acre. The weed plots had moderate weed pressure from all the weeds rated.

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^{2.} PRE - Pre-emergent application; EPO - Early post-emergence - weeds less than 3 inches; LPO - Late post-emergence - weeds generally in the 4- to 12-inch range

^{3.} Application cost used was \$4.00 per acre. Costs may and will vary among farms.

^{*4*} Price of Firstrate unknown