# **Liberty Soybean Herbicide Trial**

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### **Objective**

To evaluate various programs of Liberty post-emergence herbicide applied alone and combined with pre-emergence herbicides in a Liberty-resistant soybean stand.

### **Background**

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

Fertilizer Applied: 250# 0-0-60 Cooperator: Tom Weiler County/Town: Morrow/ Chesterville Herbicide: See Methods Drainage: **Systematic** Variety: Asgrow 2704LL Major Soil Type: Millgrove Planting Rate: 201,000 seeds/A Previous Crop: Corn Planting Date: May 8, 1997 145,000 plants/A Fall chisel; field Harvest Pop.: Tillage: cultivator and packer Harvest Date: October 9, 1997

#### **Methods and Results**

Trt.	Herbicide	Rate/A	Growth Stage <sup>1</sup>	Control Rating (%) <sup>2</sup>				Herb.	Appli- cation	Total
				Annual Grass	Lambs- quarters	Giant Rag.	Velv. Leaf	Cost (\$/A)	Cost (\$/A)³	Cost (\$/A)
1	Canopy	3.0 oz.	PRE	99	99	98	98	7.88	4	
	Liberty	28.0 oz.	LPO					25.2	4	42.27
	AMS	2.0%w/w						1.19		
2	Liberty	20 oz.	EPO	- 99	99	99	99	18	4	- 46.38
	AMS	2.0%w/w						1.19		
	Liberty	20 oz.	LPO					18	4	
	AMS	2.0%w/w						1.19		
-	Command	1.0 qt.	PRE	99	99	97	99	3.72	4	36.19
3	Liberty	20 oz.	LDO					18	4	
	AMS	2.0%w/w	LPO					1.19		

4	Canopy XL	3.2 oz.	PRE	99	99	99	99	7.44	4	_ 25.62
	Liberty AMS	28.0 oz. 2.0%w/w	LPO					25.2 1.19	4	<del>-</del> 35.63
5	Liberty AMS	20.0 oz. 2.0%w/w	LPO	99	98	95	98	18 1.19	4	30.39

All treatments were replicated four times.

- 1 Control Rating percent of weeds controlled.
- 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.

## **Summary and Notes**

Liberty is a new non-selective herbicide that can be sprayed post-emergence to control grass and broadleaf weeds. The soybean variety must have the gene incorporated in it to allow the use of Liberty. The results on weeds are quicker than Roundup with noticeable symptoms within 48 hours.

The results of the treatments are the average of four replications. Each rep. was 10' x 40'. The weed pressure in the field was moderate. In a harvest check the Asgrow 2704LL beans yielded 56.5 bushels per acre.

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