

Roundup Ready Soybean Yield Evaluation

Steve Ruhl, Agriculture and Natural Resources Extension Agent
Ed Lentz, Extension Agronomy Specialist

Objective

To compare the yield performance of six Roundup Ready soybean varieties from five companies.

Background

Cooperator:	Tom Weiler	Soil Test:	pH 7.0, P 23 ppm,
County:	Morrow		K 154 ppm
Nearest Town:	Chesterville	Herbicide:	Roundup Ultra (1.5 qt/A)
Soil Type:	Sleeth	Planting Date:	May 12, 1998
Drainage:	Systematic	Planting Rate:	200,000 seeds/A
Tillage:	Fall chisel, cultivate	Harvest Date:	October 1, 1998
Previous Crop:	Corn	Harvest Pop.:	156,000 plants/A

Methods

Six varieties of Roundup Ready soybeans having maturity ratings of 3.3 to 4.0 were planted. The varieties were replicated three times in a randomized complete block design. Harvested plot areas were 7' by 40' for each variety replicate.

Results

Variety (Maturity)	Harvest Moisture (%)	Yield (bu/A @ 13% moisture)
Pioneer 93B51 (3.5)	12	74.3 A
Countrysmark RT357RR (3.9)	11.8	65.5 B
Pioneer 9333 (3.3)	12	61.4 B
Crows 34009 (3.4)	12.1	60.0 BC
Golden Harvest 1351RR (3.8)	11.6	58.7 BC
Callahan 7363RR (4.0)	11.5	54.3 C
LSD (P = 0.05)		7.51
CV		10.30%

Summary and Notes

Pioneer 93B51 yielded significantly higher than all the other varieties examined at this location in 1998. The plots were all free of weeds. Each variety grew tall, and the soybeans were all leaning at harvest time. The study indicates that all Roundup Ready soybeans are not equal performers. Producers need to be selective when choosing varieties.

For additional information, contact:

Steve Ruhl
The Ohio State University Extension
ruhl.1@osu.edu