

### The Move to Roundup Ready

- More flexibility in herbicide application timing
- Simplicity less confusion of mixes and rates
- Better control of perennial weeds
- Easier switch to conservation tillage practices



### The Move to Roundup Ready

### **2001 Conservation Tillage Survey**

American Soybean Association n=452

"In the past five years, what changes in technology have made it possible for you to reduce tillage or increase crop residue?"

- •63% Roundup Ready technology
- •47% Better equipment
- •12% Better chemicals- not specified

### **More Survey Results**

- >50% of growers polled credited biotech-derived soybeans as the main reason they were able to adopt reduced tillage practices leading to less loss of topsoil, reduced soil compaction, and significant fuel savings
- The American Soybean Association (ASA) study confirmed that 73 percent of the growers in the study leave more crop residue on the soil surface than they did five years ago before herbicide-tolerant soybeans were introduced.
- 48% have increased their no-till acres

### 2001-Roundup Ready in Review

- New acreage records across Midwest
- Renewed concerns about marketing
- More glyphosate choices
- More organic/food grade acreage

### **Roundup Ready Marketing**

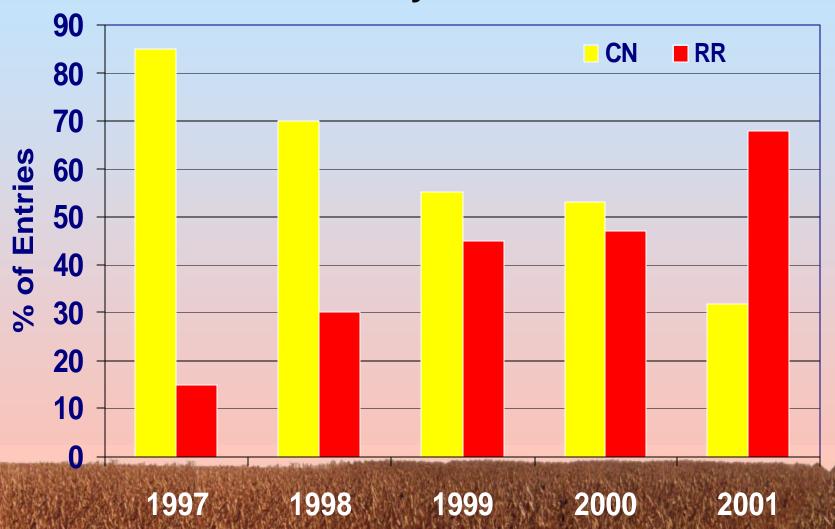
	2000		2001	
Seed Company	Total	RR	Total	RR
Dairyland Seeds	44	48%	42	67%
Garst and Agripro	115	50%	136	65%
Golden Harvest	165	56%	159	67%
Great Lakes	34	53%	31	71%
Midland Genetics	25	52%	22	77%
Monsanto	110	85%	111	75%
Mycogen	46	33%	47	57%
NC+ Hybrids	41	61%	30	71%
Pioneer	114	48%	88	51%
Syngenta	57	42%	58	60%
Total	751	55%	724	65%

Seed Today Oct/Nov/Dec 2001

# Wisconsin Testing Procedure RCB Nested Design

Rep IV	Roundup Ready	Conventional
Rep III	Conventional	Roundup Ready
Rep II	Roundup Ready	Conventional
Rep 1	Conventional	Roundup Ready

# Roundup Ready and Conventional Entries in WI Variety Trials



Average Yield of Roundup Ready and Conventional Soybean Varieties in Wl. 1998

Northern Region

CN 29 RR 24

**North-Central Region** 

CN 54 RR 53

**Central Region** 

CN 72 RR 70

Southern Region

CN 70 RR 68

Average Yield of Roundup Ready and Conventional Soybean Varieties in WI. 2001

**Northern Region** 

CN 38 RR 38

**North-Central Region** 

CN 53 RR 52

**Central Region** 

CN 50 RR 52

**Southern Region** 

CN 59 RR 61

Top Yield of Conventional and RR Soybean Varieties in Wl. 1998

**Northern Region** 

CN 35 RR 25

**North-Central Region** 

CN 64 RR 57

**Central Region** 

CN 79 RR 76

Southern Region

CN 77 RR 73

Top Yield of Conventional and RR Soybean Varieties in Wl. 2001

**Northern Region** 

CN 42 RR 42

**North-Central Region** 

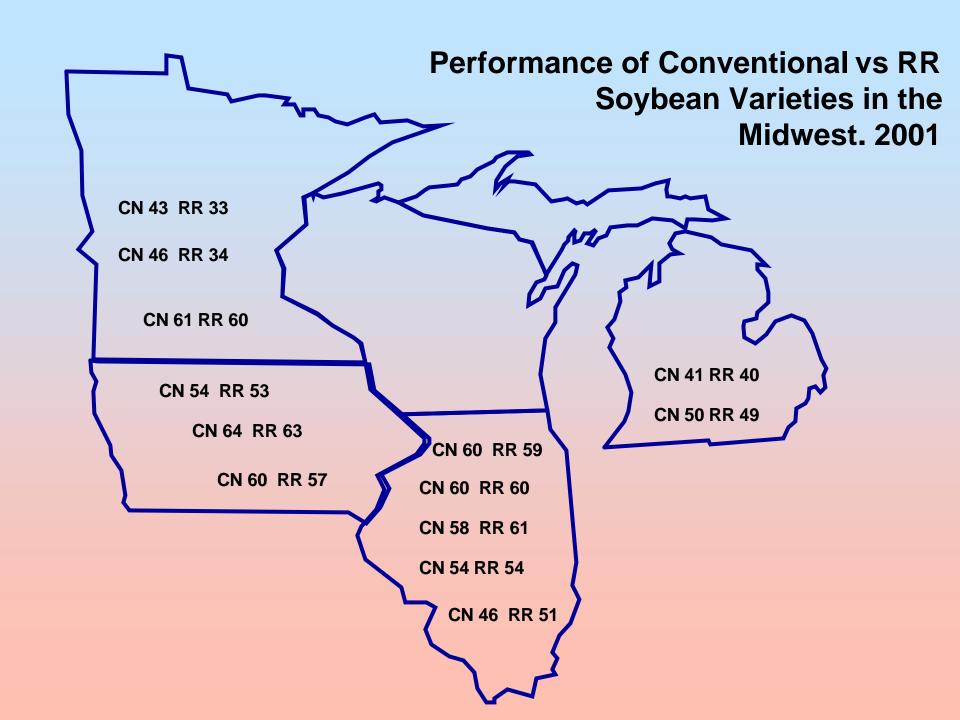
CN 65 RR 58

**Central Region** 

CN 56 RR 59

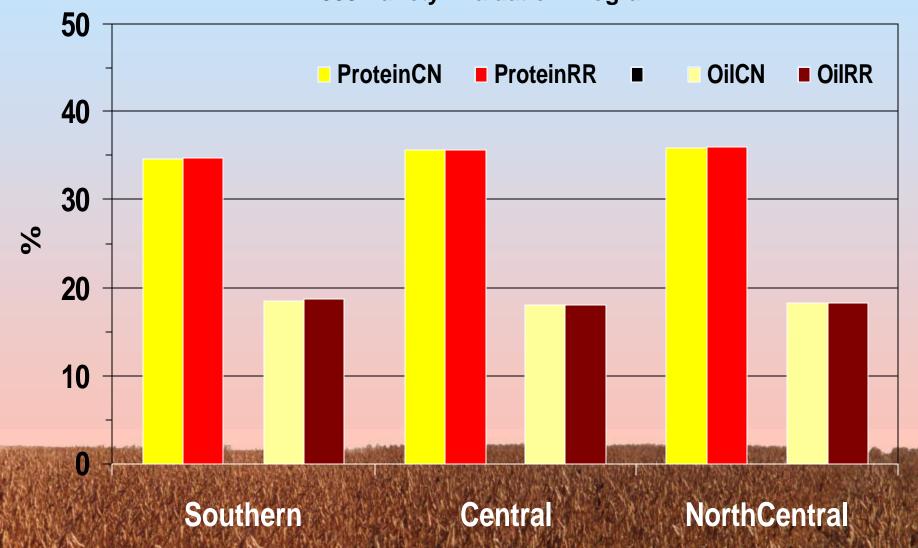
Southern Region

CN 66 RR 66



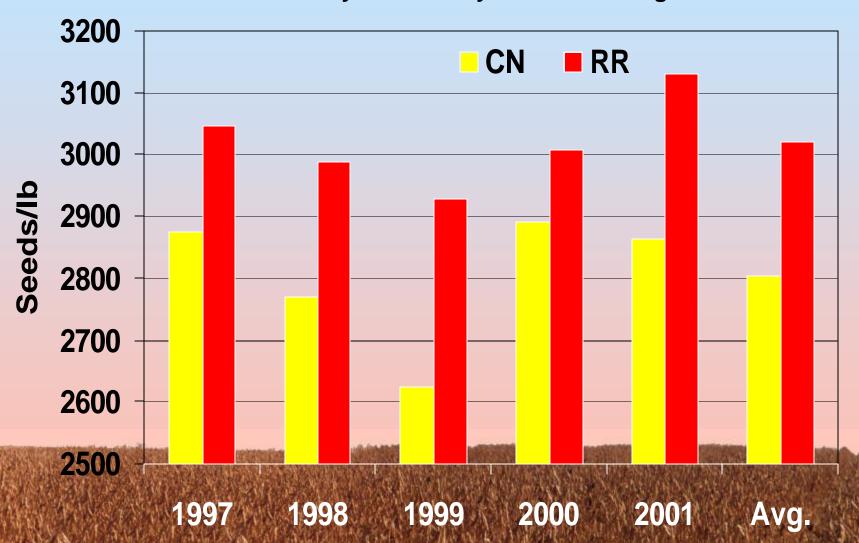
## Comparison of Protein and Oil Quality of Roundup Ready vs. Conventional Soybean Varieties

1999 Variety Evaluation Program



## Seed Size of Roundup Ready vs. Conventional Varieties

**Wisconsin Soybean Variety Evaluation Program** 



### **Summary**

#### What's right with Roundup Ready

- Agronomically the same yields as CN
- Tested extensively
- Many good varieties
- Ease of weed management
- One herbicide system
- Control of perennial broadleaf weeds
- Responsible for aiding in adoption of reduced tillage and increased crop residue

#### What's wrong Roundup Ready

- Export concerns
- Technology fees ~\$7.50/50 lb
- GMO food labeling
- 5¢ to 35¢ /bu premiums for non-GMO soybeans in 20% of Midwestern elevators

### **Thank You!**

- Questions?
- Comments?