

**Western Illinois University  
School of Agriculture  
2011 Soybean Variety Trials-Yield Summary**

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Variety	Group	Company/ Source	Organic Allison Farm Planted 7/5/11 Yield (Bu/A)	Alpha = 0.05	Rank	Organic Farm Bean Stands at Maturity	Conventional WIU Site Planted 7/2/11 Yield (Bu/A)	Alpha = 0.05	Rank
348.TCS	3.4	eMerge/ Schillinger Seed	30.8	a	1	123,100	40.0	a	2
34A7	3.4	Blue River Hybrids	29.8	a	2	80,100	40.4	a	1
389	3.8	eMerge/ Schillinger Seed	29.1	a	3	103,400	34.7	bc	9
289	2.8	eMerge/ Schillinger Seed	27.9	a	4	110,300	37.1	abc	7
389FY	3.8	Blue River Hybrids	27.9	a	5	96,400	37.9	abc	5
38C9	3.8	Blue River Hybrids	26.5	ab	6	90,600	39.0	ab	3
32AR1	3.2	Blue River Hybrids	26.0	ab	7	125,400	38.4	ab	4
29AR9	2.9	Blue River Hybrids	24.5	ab	8	134,700	37.5	abc	6
30A2	3.0	Blue River Hybrids	23.6	ab	9	91,800	36.6	abc	8
3311	3.3	eMerge/ Schillinger Seed	18.6	b	10	101,000	33.3	c	10
			LSD = 8.4			LSD =32,000	LSD = 5.0		

See next page for site descriptions and discussion.

## **Research Site Descriptions**

### **Organic Site**

The Allison Organic Research Farm is located 7 miles north of Sciota, IL in southwestern Warren County. The variety trial was located in field 2B East which is mapped as a Sable silty clay loam soil (poorly drained). The trial was arranged as a complete randomized block design with 3 replications. Two row plots were planted on 7/5/11 with a Buffalo 4 row planter at a rate of 175,000 seeds/acre. The entire field was row cultivated twice. Very little hand weeding was needed for this field. Sub-plots on the east end ranging from 19'-27' in length were harvested with a KEM plot combine on 11/14/11. Soybean stands per acre were calculated by counting number of plants in one row for 5' of each plot (all 3 reps) near the east end of the field.

### **Conventional Site**

The WIU research farm is located ~ 2 miles north of Macomb in McDonough Co, IL. The variety trial was located in block 14 which is mapped as a Downs silt loam soil (moderately well drained). The trial was arranged as a complete randomized block design with 5 replications. Two row plots were planted on 7/2/11 with a Kincaid JD71, 2 row plot planter at a rate of 160,000 seeds/acre. Weed control included one application of herbicides and moderate hand weeding to remove broad leaf weeds. Sub plots (~ 15' in length) were harvested with a KEM plot combine on 11/15/11.

### **Discussion**

Weather was very wet prior to planting and very dry during the growing season. The organic site had standing water much of the spring and had to be drained so that the trials could be planted. This site had poorer drainage than the conventional site, which most likely led to better yields at the conventional site. The organic site was also planted 3 days later than the conventional site, which also may have caused a slight yield difference. Blue River Hybrid 34A7 proved to be in the top 2 yielding varieties at both sites and has historically been a better than average yielding variety in our research. One other variety, eMerge 348.TCS proved to be in the top 2 for highest yields at both sites. Considering the extreme wet conditions prior to planting followed by extreme dry conditions for the rest of the season many of the varieties yielded very favorably.