

Western Illinois University

2007 Soybean Variety Trials-Yield Summary

Dr. Joel Gruver and Andrew Clayton

Variety	Group	Company	Organic Allison Farm Planted 6/14 Yield (Bu/A)	Rank	Conventional WIU Site Planted 5/25 Yield (Bu/A)	Rank
GH327	3.2	Great Harvest Organics	47.0 a	1	44.8	3
32A7	3.2	Blue River Hybrids	43.6 ab	2	43.9	4
93M52	3.8	Pioneer/Dupont	42.7 abc	3	43.2	6
34A7	3.4	Blue River Hybrids	42.1 abcd	4	46.6	1
30A7	3.0	Blue River Hybrids	41.2 abcd	5	41.3	9
34F8	3.4	Blue River Hybrids	40.7 abcd	6	42.5	7
41F8	4.1	Blue River Hybrids	40.6 abcd	7	42.1	8
38F8	3.8	Blue River Hybrids	40.2 abcd	8	43.9	5
30YP5	3.0	Blue River Hybrids	39.6 abcd	9	36.9	13
36F8	3.6	Blue River Hybrids	37.7 bcde	10	45.4	2
GH291N	2.9	Great Harvest Organics	35.8 bcde	11	40.4	10
ECR-J30	3	Clarkson Grain Comp.	35.1	12	39.7	11
3F43	3.4	Blue River Hybrids	33.9	13	33.0	14
2FN93	2.9	Blue River Hybrids	33.3	14	37.9	12

Note: Seed obtained for these trials were either certified organic or untreated and non-GMO.

To obtain information about least significant differences you may contact Dr. Joel Gruver at 309-298-1215 or J-Gruver@wiu.edu.

See next page for site descriptions.

2007 WIU Soybean Test Plots Site Descriptions

Organic Site

The organic site is located about 7 miles north of Sciota, IL in Warren Co at the Allison organic research farm (field 2B west) on a Sable silty loam soil (poorly drained). The 2005 soil test for this site was: pH = 6.9, P-1 = 32 lbs/a, K = 190 lbs/a, CEC = 21.7 meq/100g, and OM = 3.8%.

The trials consisted of 4 randomized reps and were planted on 6/14/07 with a Buffalo 4 row planter at a rate of 175,000/acre. The methods of weed control included rotary hoeing two times and one cultivation, with a minimal amount of hand weeding. Weed conditions for most of the growing season were excellent. A rye cover crop was also incorporated with a disk less than 5 weeks prior to planting the soybeans. Each plot consisted of two rows that were harvested by a KEM plot combine on 10/31/07- 11/01/07. Statistical analysis included three to four (approx. 30 ft) reps.

Conventional Site

The conventional site is located on the north side of WIU campus (block 14) in McDonough Co, IL which is a Downs silty loam soil (moderately well drained). The most recent soil test for this site dated July, 2006 was: pH = 6.7, P-1 = 74 lbs/ac, K = 364 lbs/ac, CEC = 14.5 meq/100g, O.M. = 1.8%.

The trials consisted of 5 randomized reps and were planted on 5/25/07 with a Kincaid JD71 2 row plot planter at a rate of 160,000/acre. Methods of weed control included *FirstRate* at 0.6 oz/ac and *Dual II Magnum* herbicide at 1.67 pints/ac, and moderate hand weeding. Weed conditions for most of the growing season were fair with moderate to heavy levels of morning-glory plants. Each plot consisted of two rows that were harvested by a KEM plot combine on 11/9/07. Statistical analysis included four to five (approx. 12 ft) reps.