

Southeast Research Farm Summary

RFR-A9031

Southeast Iowa Agricultural Research Association

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Research and Demonstration Farms Manager..... Dennis Shannon
32 Curtiss Hall, ISU

Research and Demonstration Farms Coordinator..... Mark Honeyman
32 Curtiss Hall, ISU

Farm and Weather Summary

Kevin Van Dee, farm superintendent

September 30 and was completed November 11 with yields of 145 to 244 bushels/acre.

Farm Comments

Developments. Our John Deere 9410 combine was fitted with a computerized weighing system in 2009. The fabrication work was done at the Ag Engineering/Agronomy Farm in Ames. The system installed was a Juniper Systems High Capacity Grain Gauge that allowed for more accurate weighing of grain and easier handling of data.

Field days and tours. Three events were held in 2009. The spring field day and drainage school were successful events. The Precision Ag Expo, which was our fall field day, drew more than 250 people. A total of 1,213 people visited the farm in 2009.

New projects. Soybean seed insecticide by foliar fungicide/insecticide study, Gary Munkvold; Triticale/grain pea study, Jim Fawcett; Cardinal and Syngenta gold corn fungicide studies, Alison Robertson; Cover crop study, John Sawyer; Continuous corn N by K study, Antonio Mallarino; and the Corn hybrid testing trial, Jim Rouse.

Crop Season Comments

Corn planting began in earnest on April 17 and was completed May 20. Harvest began

Soybean planting began April 26 and was completed May 26. Harvest began September 14 and was completed November 5 with yields of 40 to over 70 bushels/acre.

Weather Comments

Winter 2008–2009. The first measurable snow fell on November 30, 2008. The soil moisture profile was above average by planting time in 2009.

Spring 2009. Precipitation was above average during the early part of the spring, but planting basically remained on schedule. Temperatures were average for April, then below average for the remainder of the spring.

Summer 2009. Temperatures were below average all summer. There were only five days with temperatures 90°F or above during all of 2009. The June precipitation total set a record for the month of June at the farm.

Fall 2009. Corn yields were variable due to the wet soil conditions, causing two studies to be abandoned. Soybeans were generally above average compared with recent years. Soil moisture is at capacity going into 2010.

Table 1. Southeast Research and Demonstration Farm, Crawfordsville, monthly rainfall and average temperatures for 2009.

Month	Rainfall (in.)		Temperature (°F)		Days 90° or above
	2009	Deviation from normal	2009	Deviation from normal	
March	4.25	2.28	38.3	0.0	0
April	3.85	0.02	48.5	-3.4	0
May	4.36	-0.43	60.9	-0.7	0
June	8.61	4.44	70.1	-0.8	4
July	4.84	1.34	68.1	-6.6	0
August	9.78	5.74	68.4	-4.0	1
September	1.38	-1.50	63.1	-1.6	0
October	<u>7.15</u>	<u>4.37</u>	46.2	-6.3	<u>0</u>
Totals	44.22	16.26			5

Research Farm Projects

Research Project

Asian soybean rust sentinel plots
 BASF corn foliar fungicide timing trial
 Blueberry soil amendment study
 Carbon sequestration study
 Cardinal corn fungicide study
 Continuous corn insecticide evaluations
 Continuous corn N by K study
 Continuous corn rootworm Bt study
 Corn breeder trials
 Corn fungicide IPM study
 Corn hybrid by cropping systems
 Corn hybrid by K uptake study
 Corn hybrid testing trial
 Corn planting date study
 Grape variety trial
 Home garden orchard demonstration
 Kalona soil tillage study
 Long-term nitrogen study
 Native grasses demonstration
 Native plants establishment demonstration
 Nira soil tillage study
 Nut tree demonstration
 Organic cropping system
 P and K placement within tillage systems
 Rye cover crop study
 SCN breeding nursery
 Soybean development study
 Soybean fungicide by insecticide study
 Soybean K uptake study
 Soybean seed insecticide by foliar fungicide/insecticide study
 Soybean variety testing trial
 Subsurface drainage study
 Sugar beet biofuel variety trial
 Sustainable corn breeding trial
 Syngenta gold corn fungicide study
 Triticale/grain pea study
 Windbreak demonstration

Project Leader

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 A. Robertson
 S. Henning
 M. Al-Kaisi
 A. Robertson
 P. Weber
 A. Mallarino
 G. Munkvold
 L. Pollak
 A. Robertson
 R. Elmore
 A. Mallarino
 J. Rouse
 R. Elmore
 P. Domoto
 P. O'Malley
 G. Brenneman/J. Fawcett/J. Jensen
 J. Sawyer
 K. Van Dee
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