

2013

Southeast Research Farm Summary

Southeast Iowa Agricultural Research Association

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Southeast Research Farm Summary

Abstract

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Disciplines

Agricultural Science | Agriculture

Southeast Research Farm Summary

RFR-A1272

Southeast Iowa Agricultural Research Association

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Research Farm Superintendent Myron Rees

Ag Specialist..... Lance Miller

Research and Demonstration Farms Manager Dennis Shannon (retired 12/31/12)
103 Curtiss Hall, ISU

Research and Demonstration Farms Coordinator Mark Honeyman
103 Curtiss Hall, ISU

Farm and Weather Summary

Myron Rees, farm superintendent

Farm Comments

Developments. A major transition took place in 2012 when long-term superintendent Kevin Van Dee retired. His leadership and ability is much appreciated and we wish him well.

Myron Rees, ag specialist since 2004, has assumed the farm superintendent role.

Field Days and Tours. Two events were held in 2012. The ISU Southeast Research Farm's 25th anniversary celebration was held on the Summer Field Day. Many who were instrumental in building the Southeast Research Farm over the last 25 years were in attendance. A Youth Ag Career day attended by 125 high school students from eight schools was held in September. Over 900 people visited the farm in 2012.

New Projects. Historic crop demo, SERF; Dry micronutrient fertilizer study in corn, Foliar micronutrient fertilizer study in corn, A. Mallarino; Foliar diseases of soybeans, X.B. Yang; Late applied nitrogen study, J. Sawyer/D. Barker; BASF input study for Soybeans in Louisa County and Washington County, N. Bestor; Nitrogen emission loss in continuous corn, M. Castellano; SDS disease in soybeans, X.B. Yang; and Fall planted cover crop demonstration, S. Carlson.

Crop Season Comments

Corn planting began April 18 and continued through May 16. The weather was good for early fertilizer application and tillage. Planting was interrupted by rain in late April. On May 3 we received 4 in. of rain on wet soils that caused severe erosion. The cold rain also caused a pythium problem that led to

replanting of approximately 15 acres. Dry conditions returned with rainfall occurring in time and in amounts that were enough through June. July and August were quite hot with no significant rain until mid-August. Harvest began September 25 and ended November 8. Corn moisture dry down was very slow with yields ranging from 80 to 190 bushels/acre.

Soybean planting began on May 15 and finished May 23. There were no disease problems in 2012. Bean leaf beetles appeared the first week of September and were controlled by aerial applied insecticides where studies were not affected. Harvest yields ranged from 20 to 65 bushels/acre.

Weather Comments

Winter 2011–12. The moisture was adequate going into 2012. Tile lines ran after November rains.

Spring 2012. Spring came early as March was very warm and dry. Field work progressed well and patience was needed to delay planting. Late April/early May brought over 5 in. of rain but the spring season continued smoothly.

Summer 2012. Drought set in solidly. No significant rain fell in July and half of August and temperatures were very warm. There were 41 days above 90°F in 2012. The rain in mid-August saved the crop.

Fall 2012. The weather was very nice through the fall with warm temperatures and intermittent rain, but no long wet periods. Soybean yields were above expectations and corn yields were well above expectations. Some tile lines had water flow late in 2012.

Table 1. Southeast Research and Demonstration Farm, Crawfordsville, monthly rainfall and average temperatures* for 2012.

Month	Rainfall (in.)		Temperature (°F)		Days 90° or above
	2012	Deviation from normal	2012	Deviation from normal	
March	1.15	-1.01	54.7	13.1	0
April	2.85	-.51	55	1.2	0
May	6.25	1.53	67.6	3.9	2
June	3.52	-1.21	72.8	-0.5	7
July	.5	-3.19	81.1	4.3	19
August	4.76	.3	72.8	-2.3	11
September	2.7	-.49	63.7	-3.7	2
October	<u>3.5</u>	<u>.92</u>	51.8	-3.6	<u>0</u>
Totals	25.23	-3.64			41

*Temperature data were downloaded from the National Weather Service's website for the City of Burlington.

Research Farm Projects

<u>Project</u>	<u>Project Leader</u>
BASF input study for Louisa County	N. Bestor
BASF input study for Washington County	N. Bestor
Bayer experimental seed treatment study	D. Mueller/S. Wiggs
Buffer strip demonstration	G. Brenneman
Carbon sequestration study	M. Al-Kaisi
Cardinal corn fungicide study	A. Robertson
Continuous corn hybrid by N by K study	A. Mallarino
Continuous corn insecticide evaluations	P. Weber
Corn breeding trials	J. Edwards
Corn nematode strip trial	G. Tylka
Corn performance testing	J. Rouse
Dry micronutrient fertilizer study	A. Mallarino
Fall cover crop demonstration	S. Carlson
Foliar applied micronutrient study	A. Mallarino
Foliar diseases of soybeans	X.B. Yang
Historic crop demonstration	M. Rees
Home garden orchard demonstration	P. O'Malley
Iowa Soybean Association seed treatment study	D. Mueller/S. Wiggs
K residue study in corn	A. Mallarino
K residue study in soybeans	A. Mallarino
Kalona soil tillage study	G. Brenneman/J. Fawcett/J. Jensen
Late applied nitrogen study	J. Sawyer/D. Barker
Long term nitrogen study	J. Sawyer
Native prairie grass demonstration	M. Rees
Nira soil tillage study	G. Brenneman/J. Fawcett/J. Jensen
Nitrogen emissions in continuous corn	M. Castellano
Nut tree demonstration	Iowa Nut Growers' Association
Organic corn variety trial	K. Delate
P and K placement within tillage systems	A. Mallarino
Rye cover crop study	J. Sawyer
SCN breeding nursery	G. Gebhart
SDS disease in soybeans	X.B. Yang
Sorghum biomass yield trial	M. Salas
Soybean high yield study	M. Rees/J. Hedges
Soybean insecticide by fungicide study	D. Mueller/S. Wiggs
Soybean performance testing	J. Rouse
Soybean replant study	J. Fawcett
Soybean SDS planting date study	D. Mueller/S. Wiggs
Subsurface drainage study	M. Helmers/G. Brenneman
Wetland demonstration for nitrate removal	G. Brenneman
Windbreak demonstration	M. Rees