

NORTHERN ILLINOIS AGRONOMY RESEARCH CENTER

Department of Crop Sciences---University of Illinois COLLEGE of AGRICULTURAL, CONSUMER AND ENVIRONMENTAL SCIENCES

May 2004 Newsletter

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2004 Weather Data

	February	March	April
Air Temperature (F°)			
Monthly Average High	35.6	50.5	64.1
Monthly Average Low	19.0	33.8	39.1
Daily Average	27.7	41.7	52.2
Departure from Average (37 year)	+2.1	+5.1	+3.1
Observed High (date)	59.1 (29)	71.0 (28)	87.1 (16)
Observed Low (date)	-2.3 (4)	13.8 (12)	25.9 (13)

2004 Precipitation (Inches)

<u>Month</u>	<u>Total</u>	<u>Departure from Average</u>	<u>Year Accumulation</u>	<u>Total Departure 123 Yr</u>
January	0.31	-1.24	0.31	- 1.24
February	0.76	-0.69	1.07	-1.93
March	3.77	+1.34	4.84	- 0.59
April	1.94	-1.29	5.71	- 1.88

2004 Growing Degree Days (Base 50)

<u>Month</u>	<u>GDD</u>	<u>28 Yr. Ave.</u>	<u>Departure</u>	<u>4/15 to EOM</u>	<u>Ave YTD</u>	<u>Departure</u>
April (15-30)	169.1	109.9	+59.2	169.1	109.9	+59.2

Planting Progress at NIARC:

With the good spring weather (lack of rainfall), the research trials were being planted in good shape and in a timely manner. The corn trials were finished by May 5th except for one phosphorus fertilizer trial located off of the Center and the late planted corn for the area to be used for the 2005 corn rootworm trials.

About 1/3 of the soybean trials had also been planted. At about 1:45 PM on May 10th, the rains started.

Since that time until the 26th, only one no-till soybean trial has been planted (May 20). All of the other areas on the Center have continued to be too wet to allow any field work aside from hand spraying, hand work or spraying with the small tractor or other hand work. The amount of rainfall and intensity has also lead to some areas needing replanting and filling in. Fortunately, our replant areas are not large drowned out areas as have occurred in the local area and will not affect the general outcome of much research.

Total rainfall for the month of May as of the morning of the 24th is 6.29". Gilbert Sebenste

Staff Meteorologist, Northern Illinois University reported as of 7:00 AM, Monday, May 24th, the NIU campus in DeKalb had received 7.57" for the month of May. In 1974, the rainfall was 8.09", in 1991 it was 7.63".

The rains received thus far during May will caught the yearly total up to "average". May rainfall is, "normally", 3.93". In 6 of the past 30 years, more than 6" of rain have been received during May. Last year, May rainfall was 6.21" In 1974, the rainfall was 8.09", in 1991 it was 7.63". Average rainfall of 3.93" is an average for the past 123 years for the nearest reporting sites. The average can change based on what years one wants to use. If the period in question would be this year and the previous nine years, the "new" average rainfall would be approximately 4.65" for the month of May. For the previous 25 years, average rainfall during May has been 3.99". For the past 50 years, rainfall been 3.78".

Special Summer Sessions at NIARC:

June 23 Wheat Twilight Field Day 6 to 8:00 PM
 Program: Jim Quinton, Director of Illinois Wheat Association - "Wheat Marketing Plans and Tools for Price Capturing."

Dr. Emerson Nafziger, U of I Extension Crop Production Specialist - Wheat Management Practices Recommended for Northern Illinois

Dr. Fred Kolb, U of I Small Grains Breeder - Choosing Wheat Varieties & Managing Disease

Registration before the meeting from 5 - 6:00 PM. Questions? Call Ellen Phillips Crop System Educator - 708-352-0109 CEU applied for

Crop Training Center Sessions:

For Registration for all CTC sessions, contact Dave Feltes, Quad Cities Extension Center, 4550 Kennedy Drive, Suite 2, East Moline, IL 61244, 309-792-2500. There will be a registration fee for all CTC sessions.

June 10 CTC - Managing Crop Production 9 AM to Noon

Program: Dr. Emerson Nafziger, U of I Crop Production Specialist - Crop Growth & Development, Plant Spacing, etc.

Jim Morrison, Crop System Educator - Crop Development

Emerson Nafziger - Current Crop Production Research Topics.
 3 CEU's applied for

July 13 CTC - Insects - Corn Rootworm, Soybean aphids and Insect Resistance 9 AM to Noon
 Dr. Michael Gray U of I Extension Entomologist. CEU's will be applied for.

August 25 CTC - Soybean Disease Management, Invasive Species and Crop Development 9 AM to noon thirty.

Program: Dr. Dean Malvick, U of I Extension Plant Pathologist - Soybean Diseases
 Dr. Rob Wiedenmann, Director, Center for Economic Entomology, Illinois Natural History Survey - Invasive Species

Dr. Emerson Nafziger, U of I Extension Crop Production Specialist - Crop Development and evaluation of current conditions.
 CEU's will be applied for.

July 7 Twilight Weed Control Tour 5:00 PM View the weed control trials on the Center. More details in later newsletter and news releases. CEU's will be applied for. Meal will be available.

August 3 Agronomy Field Day 4:00 PM Current topics about crop production and protection. More details in later newsletter and news releases. CEU's will be applied for. Meal will be available.

2004 AGRONOMY FIELD DAYS, DEPARTMENT OF CROP SCIENCES

Following are the annual Field days and the Weed control tour schedule for all Crop Sciences Department fields for 2004. If you want any questions about location, program or other details, please contact the person listed.

<u>Location</u>	<u>Date</u>	<u>Time</u>	<u>Meal</u>	<u>Contact</u>
Ewing ¹	June 11	9:00 AM	no	Dennis Epplin (618) 242-9310
Urbana - Weeds	June 23	8:00 AM	B/L	Doug Maxwell (217) 265-0344
DeKalb - Weeds	July 7	5:00 PM	D	Lyle Paul (815) 824-2029
Belleville ²	July 15	9:00 AM	L	Ed Varsa (618) 453-2496
Brownstown	July 22	9:00 AM	L	Robert Bellm (618) 692-9434
DeKalb	August 3	4:00 PM	D	Lyle Paul (815) 824-2029
Dixon Springs	August 5	8:00 AM	snack	Steve Ebelhar (618) 695-2790
Monmouth	August 17	8:00 AM	snack	Eric Adee (309) 734-7459
Urbana	August 19	7:00 AM	L	Sharon Conatser (217) 333-4256
Orr Center	August 23	4:00 PM	D	Mike Vose (217) 236-4911
Ewing ¹	Sept. 8	9:00 AM	no	Dennis Epplin (618) 242-9310

¹ Ewing Field is operated by the University of Illinois Extension Educators in Southern Illinois.

² Belleville is a research center operated by Southern Illinois University - Carbondale.

NIARC 2004 Research Projects

Following is the listing of the research studies that are occurring at NIARC in 2004. Many are continuing and several are new studies. The phone number and email address of the various researchers follows the project listing. Also included are the listing of the source of funds providing at least partial support for the research if I know of the

source.

Title	Investigator	Duration	Funding
Commercial Corn Hybrid Trial	R. Esgar,D. Joos,B. Henry	Annual	Entry fees
Commercial Continuous Corn Hybrid Trial	R. Esgar,D. Joos,B. Henry	Annual	Entry fees
Commercial Soybean Variety Trial	R. Esgar,D. Joos,B. Henry	Annual	Entry fees
Roundup Ready Soybean Variety Trial	R. Esgar,D. Joos,B. Henry	Annual	Entry fees
Oat Breeding Line Performance Trials	F. Kolb/N. Smith	Annual	Quaker Foods & Bev.
Wheat Variety Trial	D. Joos, Esgar, Henry, Nafziger	Annual	Entry fees
Wheat Date of Planting	L. Paul	2001-2004	
Wheat Nitrogen Rate	L. Paul,E. Adee,S. Ebelhar	2004-2006	FREC
USDA Uniform Soybean Screening Trials	B. Diers	1976-indefinite	ISPOB
Soybean Variety Development Trials	B. Diers	1976-indefinite	ISPOB
Corn breeding study	F. Troyer	2004	
Assessing Variability in Corn Response to N Rates	E. Nafziger/R.Hoeft/L Paul	1998-2004	FREC
Evaluating timing and form of nitrogen fertilizer	R. Hoeft/L. Gonzini	2003-2004	
Evaluating timing and form of nitrogen fertilizer	F. Below/L. Paul	2004-2005	Found.-Agron. Res.
Assessing Simulated Hail Damage on Corn	E. Nafziger/L. Paul	2002-2004	Nat'l Crop Ins. Serv.
Yieldgard Corn Rootworm Corn Population	E. Nafziger/E. Adee/L. Paul	2003-2004	
Soybean Seed Treatment	D. Malvick	1997-2004	
Tillage Rotation & Soil Organic Matter	M. Wander	1997-2004	NRI
Efficacy of Corn Rootworm Control Products	M. Gray/K. Steffey/R. Estes	1988-indefinite	
Corn Breeding for Rootworm Resistance	M. Bohn	2003-2004	
Western Corn Rootworm Beetle Movement	J.L. Spencer/Schroeder/Gray	1998-2004	C-FAR
Herbicide Pre-emergence herbicides for corn	A. Hager/D. Maxwell/J. Moody	2004	
Sequential herbicide program for corn	A. Hager/D. Maxwell/J. Moody	2004	
Kumiai Product Evaluation	A. Hager/D. Maxwell/J. Moody	2004	Kumiai
Lambsquarter weather response	A. Hager/D. Maxwell/J. Moody	2004	Monsanto
Volunteer Corn in Soybeans	A. Hager/D. Maxwell/J. Moody	2004	
Influence of Tillage and Crop on Gt Ragweed Emergence, Seed distribution, and Seed Longevity	D. Nordby	2003-2004	ISPOB
Stem boring insects and the effect on weed control	D. Nordby/K.Cook	2003-2004	
Option Herbicide and Variety Interaction	J. Bunting	2004	Bayer
Bayer Weed Control Evaluation	J. Bunting	2004	Bayer
Ragweed Control in Sweet Corn	M. Williams /R. Hasty	2004	USDA
Green stem evaluation in Soybean	C. Hill/G.L. Hartman	2003-2004	USDA- ISCB
Brown Stem Rot in Soybean	D. Malvick	2001-2003	NCSRP
Effect of Planting Date on Brown Stem Rot	M. Miles/ G.L. Hartman	2003-2004	USDA
Residue Management for continuous corn	E. Nafziger/ E. Adee/ L. Paul	2003-2005	Monsanto
Corn, Corn and Soybean Rotation Comparisons	E. Nafziger/ L. Paul	2002-2006	Pioneer
Managing Continuous Corn for High Yields	E. Nafziger/ L. Paul	2004-2006	FREC
Experimental Herbicide pH Interaction & Carryover	F.W. Simmons	2000-2004	
Soil pH, herbicide and variety in Soybean	F.W. Simmons	2003-2004	
Herbicide Activity and Soil pH-Corn	F.W. Simmons/N. Fassler	2000-2004	
Relationship Between Grain & Silage Yield in Corn	J. Morrison/E. Nafziger/L. Paul	1999-2004	NW IL Forage & Grassland Council
FMC Insecticide Product Evaluation	L. Paul/R.S. Perry	2003-2004	FMC
Tillage/Variety/Herbicide Evaluation	B. Simmons/L. Paul	2001-2003	Monsanto
Miscanthus as an bio-energy source	S. Long/E. Heaton	2002-2004	C-FAR
Soybean seeding efficiency	E. Adee/L. Paul	2000-2004	
Soybean Aphid Interception	D. Voegtlin	2001-2004	CFAR
Switchgrass Adaptation Trial	M. Casler	2001-2004	USDA
Crops Training Center	D. Feltes	1995-2004	Registration Fees & U of I Extension

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