

**Dixon Springs Agricultural Center
Brownstown Agronomy Research Center
Crop Sciences
Southern Illinois Newsletter**

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Weather and Crop Report.

OK, breathe! In case you are wondering where I have been for the past two months, see the attached list of projects for Dixon Springs which also lists plots off-center in many cases. With the unexpected retirement of Jim Belford, we have been operating short-handed and have been busier than a(you fill in the rest).

Early wheat yields are looking pretty good, around 90 bu/acre for the plots at Belleville and 60-70 bu/acre at Dixon Springs for some early returns.

At the end of May we were over 13" above average rainfall, but now are needing a little rain at the Center. What a year! Crops look good and are growing rapidly, now that temperatures are approaching 90° and the sun is shining bright.

Mark Your Calendars

SIU Belleville Field Day (see attached program)	July 10
Brownstown Field Day	July 31
Dixon Springs Field Day	August 7
Urbana Field Day	August 21

Additional information on these events to follow in future newsletters.

Dixon Springs Weather Summary 2008

Month	Total Rainfall	Departure From Normal	Growing Degree Days	Departure From Normal	Ave. Air Temp.		Soil Temp. 4" Sod		Soil Temp. 4" Bare	
					High	Low	High	Low	High	Low
January	2.47	-1.09	52	16	44	25	41	40	34	33
February	6.38	2.98	56	-14	45	29	44	42	40	36
March	12.48	8.19	169	-16	59	39	51	48	49	42
April	7.81	3.33	324	-29	69	47	63	60	59	53
May	5.35	0.08	531	-16	78	56	72	69	68	61
<i>Totals</i>	<i>34.49</i>	<i>13.50</i>	<i>1131</i>	<i>-59</i>						

Brownstown Weather Summary 2008

Month	Total Rainfall	Departure From Normal	Growing Degree Days	Departure From Normal	Ave. Air Temp.		Soil Temp. 4" Sod		Soil Temp. 4" Bare	
					High	Low	High	Low	High	Low
January	2.44	-0.68	42	20	40	23	41	39	43	41
February	4.80	2.51	15	-26	37	29	36	34	38	35
March	7.44	5.26	71	-41	50	34	41	39	44	41
April	4.89	0.14	217	-49	62	46	53	51	56	54
May										
<i>Totals</i>	<i>19.57</i>	<i>7.23</i>	<i>329</i>	<i>-96</i>						

**42nd Annual Belleville Field Day
Belleville Research Center
Thursday, July 10, 2008
Rain or Shine**

Early Bird Program (8:00 – 8:50 AM)

Food-vs-Fuel: Fact or Fantasy?

John Caupert – Director, National Corn-to-Ethanol Research Center

General Welcome (8:50 – 9:00 AM)

Gary Minish, Dean – College of Agricultural Sciences

Recognition of Recipient for George Kapusta Endowed Graduate Assistantship

Regular Program (9:00 – 12:00 Noon)

Soybean Diseases, Seed Treatments, and Breeding

Jason Bond – Plant Pathologist, Southern Illinois University Carbondale

Weed Management Strategies: Why Can't It Be Easy

Ron Krausz – Weed Scientist, Southern Illinois University Carbondale

Status of Herbicide Resistance in Illinois

Bryan Young – Weed Scientist, Southern Illinois University Carbondale

The New Farm Bill and Costs of Production

Ruth Hambleton – Extension Educator, University of Illinois

Soybean Flash and the Effects of Manganese Nutrition

Steve Ebelhar – Soil Fertility Specialist, University of Illinois

Using Corn Fungicides – Does it Pay?

Carl Bradley – Plant Pathologist, University of Illinois

Wheat Production

Emerson Nafziger – Agronomist, University of Illinois

Complimentary Lunch (12:00 Noon until...)

For Further Information Contact

Ronald Krausz 618 - 566 - 4761

***Belleville Research Center is part of SIUC College of Agricultural Sciences.
It is located on Illinois Rte. 161, south of Scott AFB Mascoutah Gate.***

*We have applied for 2 CCA Continuing Education Units
for this Field Day*

List of Projects, 2008
Department of Crop Sciences
Dixon Springs Ag. Center

S. A. Ebelhar and C. D. Hart

CROP PRODUCTION

1. Long-term effects of cover crops in crop rotations on yield and soil quality
..... *S. A. Ebelhar, G. Bollero, and C. D. Hart*
2. Variety and rotation (corn-corn-soybean vs corn-soybean vs continuous corn) effects on crop yields
(BARC†) *E. D. Nafziger, S. A. Ebelhar and C. D. Hart*
3. Effects of hybrid, planting rate, cover crops, and fertilizer management on yield under continuous corn
management *S. A. Ebelhar, C. D. Hart, and E. D. Nafziger*
4. Wheat variety trial (BARC) *D. K. Joos, E. D. Nafziger, S. A. Ebelhar & C. D. Hart*
5. Planting rate and variety effects on wheat production *S. A. Ebelhar and C. D. Hart*
6. Crop rotation, variety and fungicide effects on wheat production and SCAB
..... *C. Bradley, S. A. Ebelhar and C. D. Hart*
7. Tillage and cover crop effects on yield and carbon sequestration in a corn-soybean rotation on a highly
eroded Grantsburg sil. soil. *K. R. Olson, S. A. Ebelhar and C. D. Hart*
8. Miscanthus production in southern Illinois (BARC)
..... *F. Dohleman, S. P. Long, S. A. Ebelhar and C. D. Hart*
9. Comparison of organic, conventional and IPM cropping systems in southern IL
..... *J. D. Kindhart, S. A. Ebelhar, B. Aly and C. D. Hart*
10. Planting rates and planting dates effects on corn after soybeans (BARC and others)
..... *E. D. Nafziger, E. A. Adee, S. A. Ebelhar, and L. E. Paul*
11. Planting rates and planting dates effects on corn after corn (BARC, and others)
..... *E. D. Nafziger, E. A. Adee, S. A. Ebelhar, and L. E. Paul*
12. Eastern gamagrass seeding rates and row spacing effects establishment and production
..... *C. D. Hart and S. A. Ebelhar*
13. Irrigation, N rate, fungicide, and seed treatment effects on soybean production
..... *S. A. Ebelhar, E. D. Nafziger, C. D. Hart, J. D. Kindhart and B. Aly*
14. Evaluation of tropical maize, sweet sorghum and forage sorghum for carbohydrate production with an
eye toward ethanol production *M. L. Vincent, F. E. Below, S. A. Ebelhar and C. D. Hart*

SOIL FERTILITY

15. Assessing variability in corn response to N rates (BARC, and others)
..... *E. D. Nafziger, R. G. Hoefl, E. A. Adee, R. E. Dunker, S. A. Ebelhar & L. E. Paul*
16. Effects of tillage and limestone application on soil profile pH changes and crop yields in a corn-soybean rotation *S. A. Ebelhar and C. D. Hart*
17. N sources, inhibitors and new technologies for no-till continuous corn (BRC)
..... *S. A. Ebelhar, J. D. Hernandez and C. D. Hart*
18. N sources, inhibitors and new technologies for wheat (BARC) *S. A. Ebelhar and C. D. Hart*
19. Using N stamps to identify optimal N rates for wheat (BARC) *S. A. Ebelhar and C. D. Hart*
20. N sources, inhibitors and new technologies for conventional tillage corn after soybeans (BRC, Urbana, DeKalb, and Massac Co.) *S. A. Ebelhar, L. E. Paul, J. J. Warren and C. D. Hart*
21. Assessing variability in wheat response to N rate and timing after corn (BARC)
..... *S. A. Ebelhar and C. D. Hart*
22. Assessing variability in wheat response to N rate and timing after soybeans (BARC, Monmouth, and DeKalb) *S. A. Ebelhar, L. E. Paul and E. A. Adee*
23. Effects of Agrotain and other additives on yields and nitrogen use efficiency of corn (Univ. of Kentucky)
..... *S. A. Ebelhar, L. Murdock and C. D. Hart*
24. Starter formulation effects on no-till corn after corn *S. A. Ebelhar and C. D. Hart*
25. Nutrient and fungicide interaction effects on diseases of soybeans (BARC)
..... *S. A. Ebelhar and C. D. Hart*
26. P and K management of wheat:double-crop soybean systems (BARC, BRC)
..... *S. A. Ebelhar, F. Fernandez, C. D. Hart, and J. D. Hernandez*
27. Effects of late spring N application to wheat (BARC) *S. A. Ebelhar and C. D. Hart*
28. Effects of corn planting dates and N rates on corn after corn, soybeans, and double-crop soybeans (BARC) *S. A. Ebelhar and C. D. Hart*
29. N recovery from fall vs. spring DAP fertilizer application to corn (BARC)
..... *S. A. Ebelhar and C. D. Hart*
30. Fine tuning N recommendations through N rate strip trial (BARC)
..... *E. D. Nafziger, S. A. Ebelhar and C. D. Hart*
31. N sources effects on tall fescue yield and fungus expression (ARC)
..... *S. A. Ebelhar, R. Adkinson, and C. D. Hart*
32. Potassium effects on stalk carbohydrates of corn, sweet sorghum and tropical maize
..... *S. A. Ebelhar, F. E. Below, and C. D. Hart*

- 33. Nitrogen management of tropical maize *A. Henninger, F. E. Below and S. A. Ebelhar*
- 34. Nitrogen and hybrid effects on corn grain quality *A. Henninger, F. E. Below and S. A. Ebelhar*
- 35. Evaluation of a new N inhibitor (Dow Chemical Co.) for corn *S. A. Ebelhar*
- 36. Interactions of seed treatment insecticides, fungicides, and N rates for corn
 *S. A. Ebelhar, C. Bradley, R. A. Hines, and C. D. Hart*
- 37. Evaluation of new product coatings for urea (Agrium) *S. A. Ebelhar and C. D. Hart*
- 38. Evaluation of Stabl-U N fertilizer for corn *S. A. Ebelhar and C. D. Hart*
- 39. Hybrid response to N rates (Monsanto) *S. A. Ebelhar and C. D. Hart*

PRECISION AGRICULTURE

- 40. Utilizing active light sensor technology for N management of wheat in southern Illinois (BARC)
 *S. A. Ebelhar and C. D. Hart*
- 41. Utilizing active light sensor technology for N management of corn in southern Illinois
 *S. A. Ebelhar and C. D. Hart*

PEST MANAGEMENT

42. Wheat seed treatment study (BARC) *C. Bradley, S. A. Ebelhar and C. D. Hart*
43. Corn seed treatment study (BARC) *C. Bradley, S. A. Ebelhar and C. D. Hart*
44. Foliar fungicide effect on no-till yellow corn *C. Bradley, S. A. Ebelhar and C. D. Hart*
45. Foliar fungicide effects on no-till soybeans *C. Bradley, S. A. Ebelhar and C. D. Hart*
46. Foliar fungicide effects on no-till double-crop soybeans *C. Bradley, S. A. Ebelhar and C. D. Hart*
47. Foliar fungicide interaction with wheat varieties after corn and after soybeans
. *C. Bradley, E. A. Adee, S. A. Ebelhar and C. D. Hart*
48. Evaluation of new foliar fungicide products for SCAB control in wheat
. *E. A. Adee, C. Bradley, S. A. Ebelhar and C. D. Hart*
49. Soybean rust sentinel plots *C. Bradley, S. A. Ebelhar and C. D. Hart*
50. Aphid suction trap monitoring program *D. Voigtlin, S. A. Ebelhar and C. D. Hart*
51. Soybean rust spore trap monitoring program *T. Slaminko, S. A. Ebelhar and C. D. Hart*
52. Giant ragweed hierarchy study with corn and soybeans *D. Refsell, S. A. Ebelhar and C. D. Hart*

†Parentheses indicate research locations in addition to the Dixon Springs location:

BARC = Brownstown Agronomy Research Center,

ARC = SIU Carbondale Research Center,

BRC = SIU Belleville Research Center