



PRODUCER INFORMATION

Site ID: 50% Spring-50% Post
 Account: 42201
 Name: Paris High School
 E-mail: 0
 Address: 14040E 1200th Rd.
 City: Paris
 State: IL
 Zip: 61944
 Cell Phone: 217-466-1175
 Program: Special Project with Illini FS

SITE INFORMATION

Package: Monthly sampling
 Collection: Illini FS
 Field Name: Sullivan's Farm
 Latitude: 0
 Longitude: 0
 Prev. Crop: Soybeans
 Target N Rate: 180
 Target Yield: 220
 Tillage: No-Till

ACCOUNT INFORMATION

Crop Specialist: Jeff Williamson
 Site Cost: Outreach Project
 Reviewed by: Howard Brown
 Current Sampling Date: 5/19/2017
 Source of Rainfall Data: Paris, IL
 Source of 4" Bare Soil Temp: Champaign, IL

STAGE OF GROWTH:

TEST RESULTS

Date	LAB RESULTS				SOIL NITROGEN (Estimate)				Total N Applied (Lbs/A)
	0 - 1 ft. Sampling Depth		1 - 2 ft. Sampling Depth		0 - 2 FT. SAMPLING DEPTH				
	NO ₃ -N (ppm)	NH ₄ -N (ppm)	NO ₃ -N (ppm)	NH ₄ -N (ppm)	NO ₃ -N (Lbs/A)	NH ₄ -N (Lbs/A)	TOTAL PAN (lbs/A)	% NH ₄ PAN	
11/9/16	7.7	3.3	5.7	3.3	53.3	26.7	80.0	33.3%	0
11/17/16	9.7	3.3	5.3	2.3	60.0	22.7	82.7	27.4%	0
12/6/16	6.7	2.0	7.3	2.0	56.0	16.0	72.0	22.2%	0
1/3/17	5.7	2.7	5.3	2.0	44.0	18.8	62.8	29.9%	0
1/30/17	5.7	2.7	5.7	1.7	45.6	17.6	63.2	27.8%	0
3/1/17	11.0	19.0	8.3	3.3	77.3	89.3	166.7	53.6%	90
3/29/17	13.0	11.3	8.3	5.3	85.2	66.4	151.6	43.8%	90
4/24/17	22.0	14.0	9.0	3.0	124.0	68.0	192.0	35.4%	90
5/19/17	20.0	5.0	10.7	3.0	122.8	32.0	154.8	20.7%	90

NITROGEN APPLICATIONS

Date Applied	Direction Applied	N Source	Placement	N Rate Applied (Lbs/A)	Stabilizer Used
2/25/17	Parallel	Anhy. Ammonia	Injected	90	N-Serve



Reviewer: Howard Brown

REVIEWER COMMENTS

11/10/16: No N was applied prior to the first sampling date. The Plant-AvailableN (PAN) detected is considered residual soil N remaining after the previous crop whether applied, left-over, or released from the soil organic matter (mineralization).

11/15/16: Sample results continue to reflect no additional N.

12/6/16: Sample results show little change from the previous testing date. The slight drop in Plant-Available N concentration may be the result of rainfall received prior to the December 6 sampling date. It will be interesting to see what concentration of Plant-Available N (PAN) the next testing date will detect.

1/3/17: Sample results show little change from the previous testing date.

1/30/17: Sample results show little change from the previous testing date.

3/1/2017: Test results detected enough Plant-Available N in the upper 2 ft. of the soil profile to account for the application of 90 lbs. N as well as 77 lbs beyond the application provided by the soil through mineralization and/or as N left-over from the Fall cropping year. 60 to 80 lbs. residual N is typical across many N-TRACKER Sites collected in March, 2017. So far, so good. :-)

3/29/2017: Test results suggest residual N is still a part of Plant-Available N in the upper 2 ft. of the soil profile. It will be interesting to see what the numbers look like after the next testing date the first part of May. This N Management Plan is still on target.



4/24/2017: It appears this N management system has enhanced mineralization beyond the treatments utilizing any fall-applied N. The "as-applied" application maps has yet to be reviewed from the spring application. So far, this N management system appears to be the best so far when it comes to detectable plant-available N. We'll be watching this one as we progress through the season.

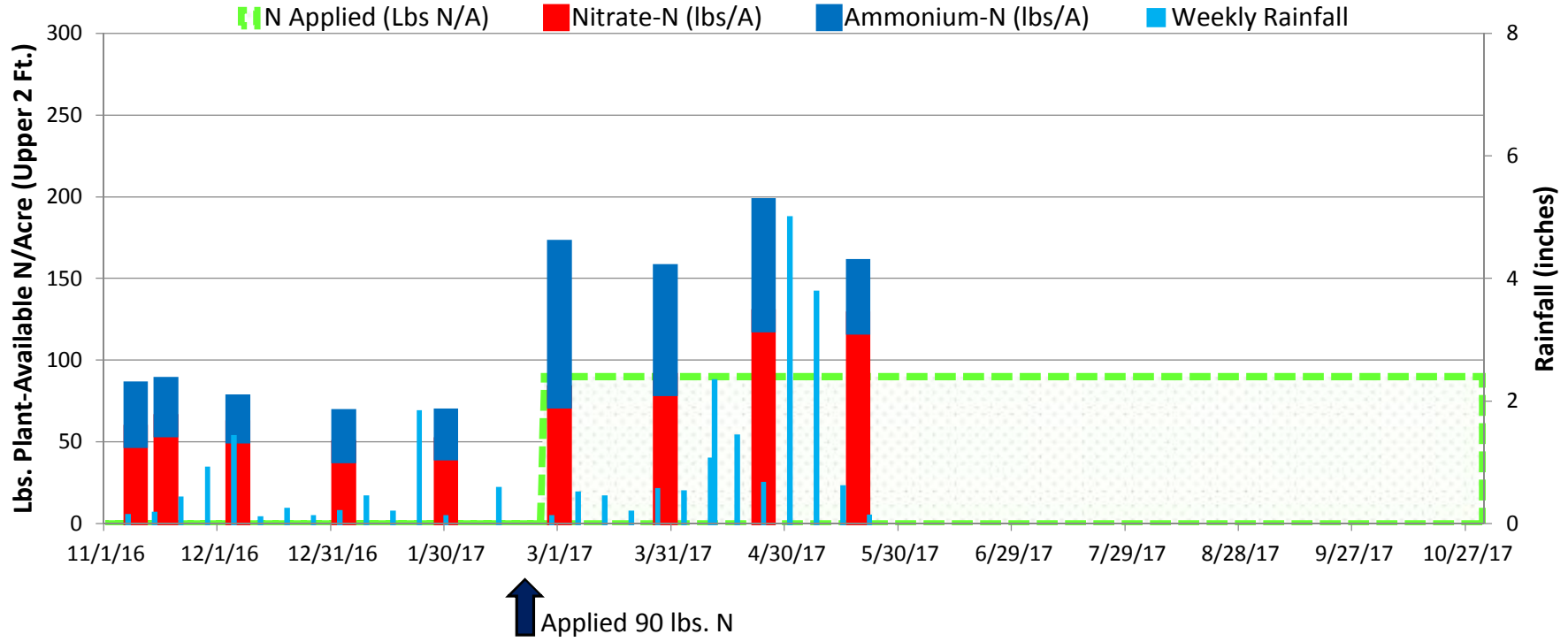
5/19/2017: Results suggest that this N Management System has the potential to provide the most plant-available N compared to the other treatments once the final application is made. Interpretation of the data also suggests that further investigation of just how much N is needed to optimize yield (PAN in upper 2 ft.). There may be an opportunity to improve our N recommendation system simply by changing the time of application. Something new? Likely not, but there is mounting evidence it will make economic sense to give it consideration. The final treatment of f90 lbs. N will be made within the next 7-10 days.



PLANT-AVAILABLE N vs. WEEKLY RAINFALL and N APPLIED (Accumulated)



Paris, IL



N Applied To-Date: 90

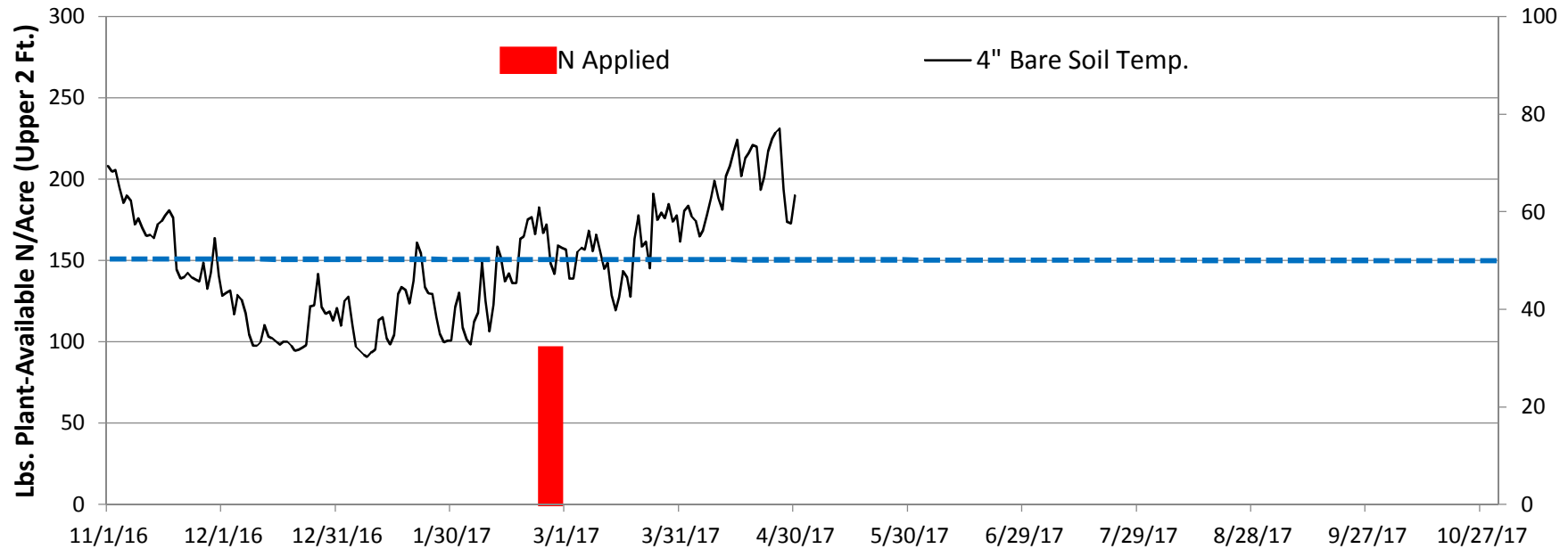
N Detected in Upper 2 Ft: 155

Difference (Detected-Applied): 65

COMMENTS:



N APPLIED vs. 4" BARE SOIL TEMPERATURE Paris, IL



N Applied To-Date: 90

N Detected in Upper 2 Ft: 155

Difference (Detected-Applied): 65

COMMENTS:

0 to 1 ft. Sampling Depth

Date of Sampling	NO ₃ -N (ppm)	NH ₄ -N (ppm)
11/9/16	7.7	3.3
11/17/16	9.7	3.3
12/6/16	6.7	2.0
1/3/17	5.7	2.7
1/30/17	5.7	2.7
3/1/17	11.0	19.0

1 to 2 ft. Sampling Depth

Date of Sampling	NO ₃ -N (ppm)	NH ₄ -N (ppm)
11/9/16	5.7	3.3
11/17/16	5.3	2.3
12/6/16	7.3	2.0
1/3/17	5.3	2.0
1/30/17	5.7	1.7
3/1/17	8.3	3.3

0 to 1 ft. Sampling Depth

Date of Sampling	NO ₃ -N (ppm)	NH ₄ -N (ppm)
3/29/17	13.0	11.3
4/24/17	22.0	14.0
5/19/17	20.0	5.0

1 to 2 ft. Sampling Depth

Date of Sampling	NO ₃ -N (ppm)	NH ₄ -N (ppm)
3/29/17	8.3	5.3
4/24/17	9.0	3.0
5/19/17	10.7	3.0

