



PRODUCER INFORMATION

Site ID: 100% Spring N
 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	6.0	2.7	6.3	3.7	49.3	25.3	74.7	33.9%	0
11/17/16	9.0	4.3	6.3	3.7	61.3	32.0	93.3	34.3%	0
12/6/16	7.0	2.3	6.0	2.0	52.0	17.3	69.3	25.0%	0
1/3/17	5.7	2.7	5.0	2.3	42.8	20.0	62.8	31.8%	0
1/30/17	6.3	2.0	6.0	1.3	49.2	13.2	62.4	21.2%	0
3/1/17	11.3	23.3	7.0	3.0	73.3	105.3	178.7	59.0%	180
3/29/17	12.3	31.7	7.0	3.0	77.3	138.7	216.0	64.2%	180
4/24/17	22.0	23.0	10.0	4.0	128.0	108.0	236.0	45.8%	180
5/19/17	25.0	12.0	14.3	4.0	157.2	64.0	221.2	28.9%	180

NITROGEN APPLICATIONS

Date Applied	Direction Applied	N Source	Placement	N Rate Applied (Lbs/A)	Stabilizer Used
2/25/17	Parallel	Anhy. Ammonia	Injected	180	N-Serve



Reviewer: Howard Brown

REVIEWER COMMENTS

11/10/16: No N was applied prior to the first sampling date. The Plant-Available N (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 as much Plant-Available N in the upper 2 ft. of the soil profile as was applied on 2/25/17. The amount is 60 to 70 lbs. N less than anticipated when compared to the other N Management System Sites (allowance for residual or mineralized N since the 2016 harvest). One reason for the decrease may be due to sampling too close to the time of

3/29/2017: Soil tests detected more Plant-Available N than was applied this Spring. The additional N likely originated from residual N left-over after the 2016 cropping year and/or from mineralization from a warmer-than-expected Spring. The N Management System is still on target to provide the required N for the 2017 corn crop.



Reviewer: Howard Brown

REVIEWER COMMENTS

4/24/2017: Soil tests detected 56 lbs. plant-available N beyond what was applied which is typical at this time of the cropping year (see other sites). Mineralization of soil organic N is likely the primary contributor. So far, this N management system remains on-target. Note: This sampling date preceded the heavy rains of late April and early May.

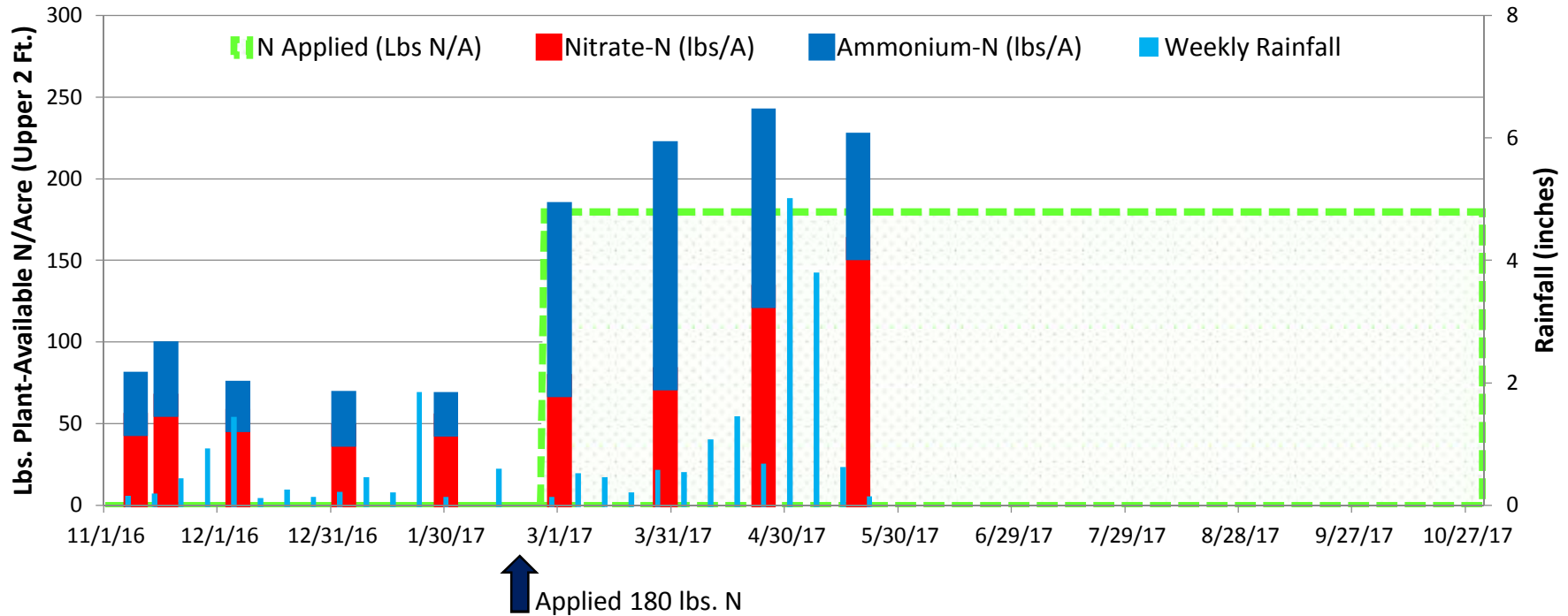
5/19/2017: Results show a slight decrease in plant-available N since the last testing date. Of the plant-available N detected, 29% remains in the ammonium-N form, a good thing for this time of year. Although not the greatest concentration of plant-available N of all the systems being tested, this site shows consistent results reflecting environmental conditions.



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



Paris, IL



N Applied To-Date: 180

N Detected in Upper 2 Ft: 221

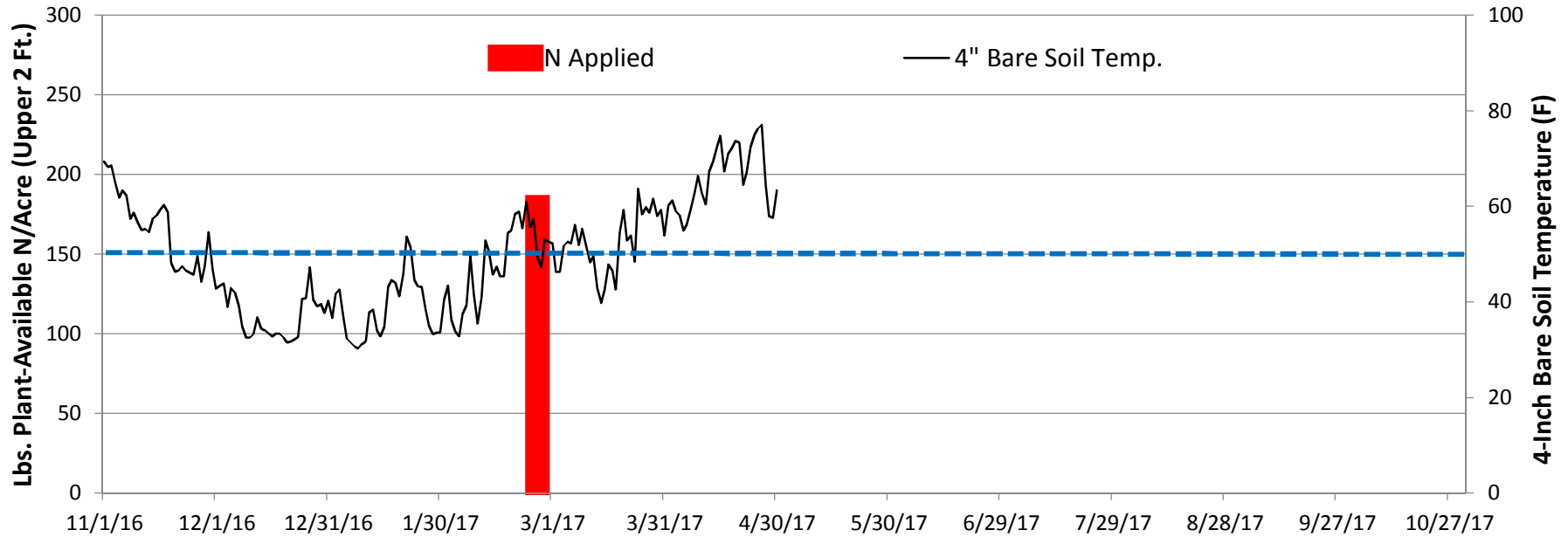
Difference (Detected-Applied): 41

COMMENTS:



N APPLIED vs. 4" BARE SOIL TEMPERATURE

Paris, IL



N Applied To-Date: 180

N Detected in Upper 2 Ft: 221

Difference (Detected-Applied): 41

COMMENTS:

0 to 1 ft. Sampling Depth

Date of Sampling	NO ₃ -N (ppm)	NH ₄ -N (ppm)
11/9/16	6.0	2.7
11/17/16	9.0	4.3
12/6/16	7.0	2.3
1/3/17	5.7	2.7
1/30/17	6.3	2.0
3/1/17	11.3	23.3

1 to 2 ft. Sampling Depth

Date of Sampling	NO ₃ -N (ppm)	NH ₄ -N (ppm)
11/9/16	6.3	3.7
11/17/16	6.3	3.7
12/6/16	6.0	2.0
1/3/17	5.0	2.3
1/30/17	6.0	1.3
3/1/17	7.0	3.0

0 to 1 ft. Sampling Depth

Date of Sampling	NO ₃ -N (ppm)	NH ₄ -N (ppm)
3/29/17	12.3	31.7
4/24/17	22.0	23.0
5/19/17	25.0	12.0

1 to 2 ft. Sampling Depth

Date of Sampling	NO ₃ -N (ppm)	NH ₄ -N (ppm)
3/29/17	7.0	3.0
4/24/17	10.0	4.0
5/19/17	14.3	4.0

