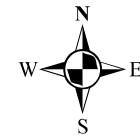


North Fork Pork LLC

Individual Fields Soil Map



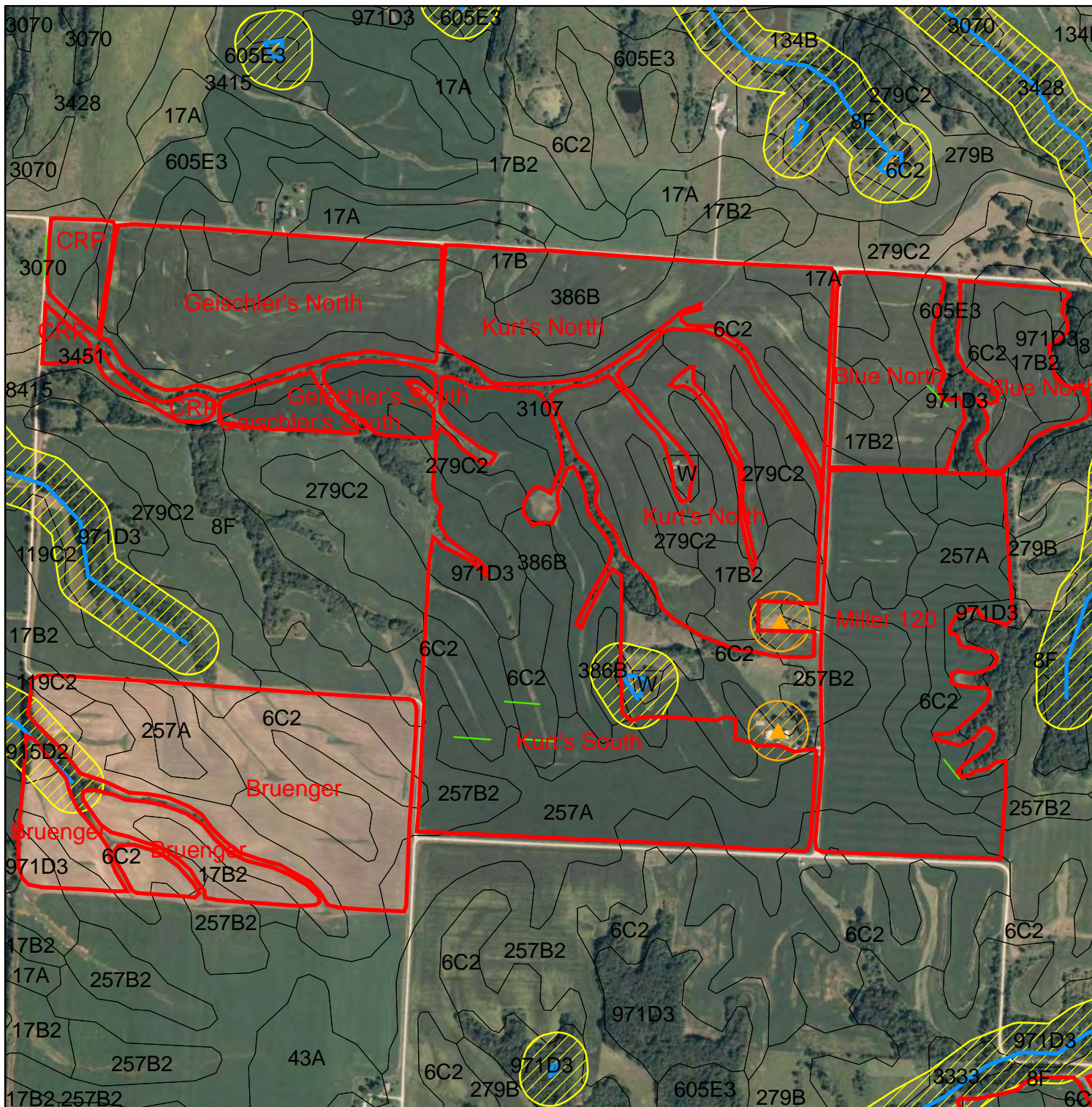
Legend

- Fields
- Water
- Water Buffer
- Well
- Well Buffer
- Grass Waterways
- Livestock Facilities

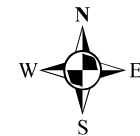
1,800

Feet








 **Frank & West**
Environmental Engineers, Inc.
7226 N. State Route 29 Phone: 217/487-7686
Springfield, IL 62707 Fax: 217/487-7687



Individual Fields Soil Map



Legend

-  Fields
 Water
 Water Buffer
 Well
 Well Buffer
 Grass Waterways
 Livestock Facilities

1,200

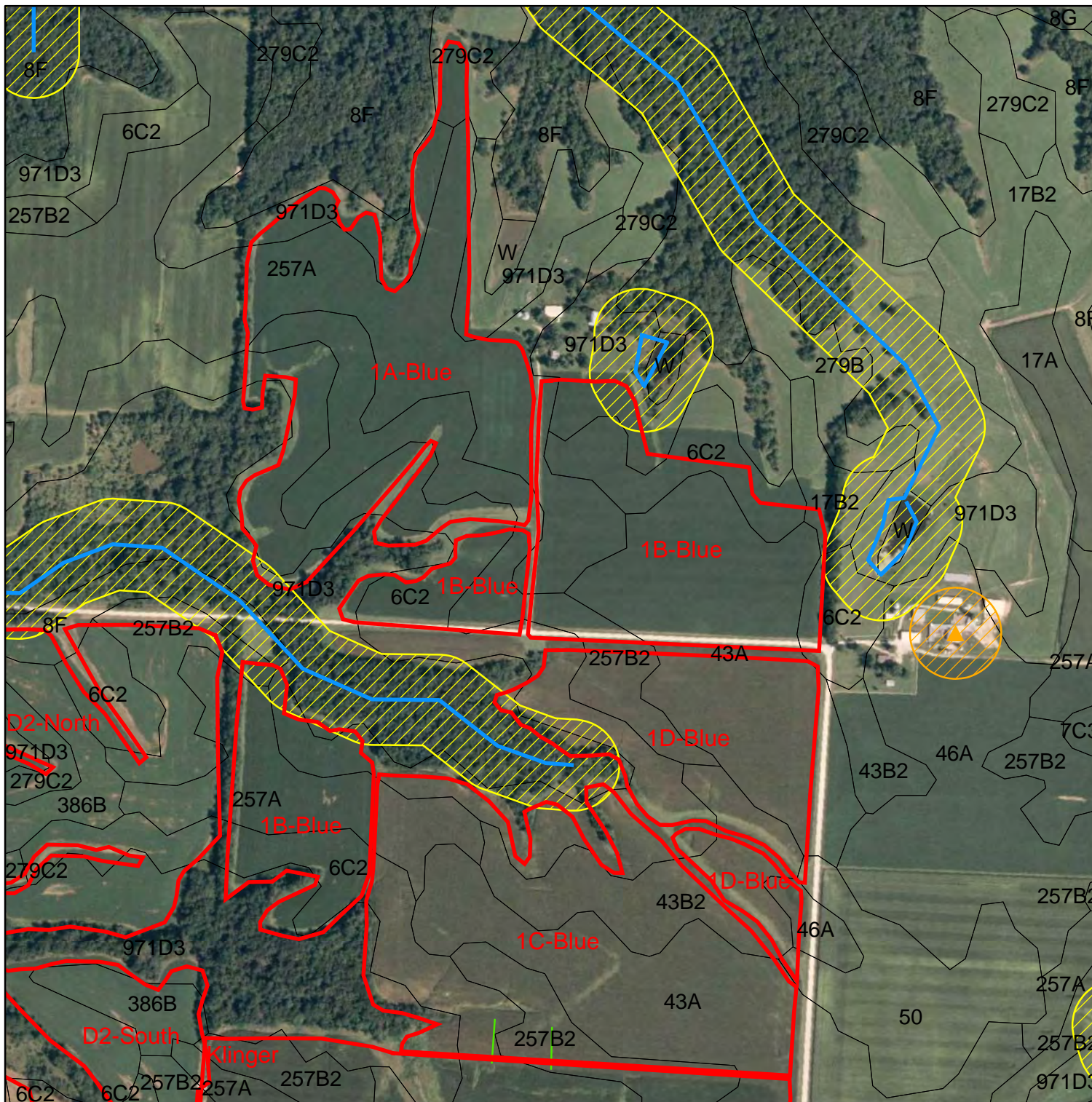
_____ Feet



Frank & West
Environmental Engineers, Inc.

7226 N. State Route 29
Springfield, IL 62707

Phone: 217/487-7686
Fax: 217/487-7687



Individual Field Information**North Fork Pork, LLC**

Field Name:	<u>1A-Blue</u>	Total Acres	38.0
		Non-Spreadable Acres	0.3
Township	St. Albans	Total Spreadable Acres	37.7
Section	4		
FSA Farm #	782	Predominant Soil Type:	257A Clarksdale silt loam, 0-2% slopes
FSA Tract #	3394	P test	--
FSA Field #'s	3,5	K test	--

Individual Field Application & Nutrients

Crop needs	Year	2009	2010	2011	2012	2013	2014
Crop		Beans	Corn	Beans	Wheat	Corn	Beans
Yield	(bu/acre OR ton/acre)		180	60	80	180	60
N needed (lbs/ac)	lbs/ac		216	0	80	216	0
- Legume N credits	(lb/acre)		40	0	40	0	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		0.0	27.3	13.7	6.8	30.0
Total N Credits	(lb/acre)		40.0	27.3	53.7	6.8	30.0
Crop N Need Minus Credits	(lb/acre)		176.0	-27.3	26.3	209.2	-30.0
Maintenance P needed *	(lb/acre)		77.4	51.0	72.0	77.4	51.0
Maintenance K needed *	(lb/acre)		50.4	78.0	24.0	50.4	78.0

* Maintenance P & K needed are listed for calculation & uptake purposes only

** Manure N carryover credit = Previous years' apps * Org N * Mineralization factor

North Fork Pork, LLC							
1A-Blue		2009	2010	2011	2012	2013	2014
Manure Application		Beans	Corn	Beans	Wheat	Corn	Beans
Storage			Deep Pit			Deep Pit	
Application Method			Inject			Inject	
Storage/Application Method			LINE1			LINE1	
1st Year Available N (<i>Am-N * N retention due to app method</i>) + (<i>OrgN * .35</i>)	(lb/1000 gal)		17.48			17.48	
N App Rate (<i>Crop N Need / 1st Yr Av N</i>)	(1000 gal/acre)		10.1			12.0	
P App Rate (<i>Maintenance P / P in analysis</i>)	(1000 gal/acre)		9.80			9.80	
Apply at Prate or Nrate?			Nrate			Prate	
Application Rate to Use	(1000 gal)	0.0	10.1	0.0	0.0	9.8	0.0
Total application (<i>App Rate * Spreadable Acres</i>)	(gallons)		379,610			369,365	
N applied (<i>1st Year AvN * App rate</i>)	(lb/acre)		176			171	
P applied (<i>P in manure * App rate</i>)	(lb/acre)		176			77	
K applied (<i>K in manure * App rate</i>)	(lb/acre)		80			138	
Additional N Needed	(lb/acre)		0	-27	26	38	-30
Acres Covered	(acres)		37.7	0.0	0.0	37.7	0.0

Individual Field Information**North Fork Pork, LLC**

Field Name:	<u>1B-Blue</u>	Total Acres	43.3
		Non-Spreadable Acres	1.0
Township	St. Albans	Total Spreadable Acres	42.3
Section	4,9		
FSA Farm #	782	Predominant Soil Type:	43A Ipava silt loam, 0-2% slopes
FSA Tract #	3394	P test	--
FSA Field #'s	6,7,10	K test	--

Individual Field Application & Nutrients

Crop needs	Year	2009	2010	2011	2012	2013	2014
Crop		Beans	Corn	Beans	Corn	Beans	Corn
Yield	(bu/acre OR ton/acre)		180	60	180	60	180
N needed (lbs/ac)	lbs/ac		216	0	216	0	216
- Legume N credits	(lb/acre)		40	0	40	0	40
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		0.0	0.0	0.0	26.6	13.3
Total N Credits	(lb/acre)		40.0	0.0	40.0	26.6	53.3
Crop N Need Minus Credits	(lb/acre)		176.0	0.0	176.0	-26.6	162.7
Maintenance P needed *	(lb/acre)		77.4	51.0	77.4	51.0	77.4
Maintenance K needed *	(lb/acre)		50.4	78.0	50.4	78.0	50.4

* Maintenance P & K needed are listed for calculation & uptake purposes only

** Manure N carryover credit = Previous years' apps * Org N * Mineralization factor

North Fork Pork, LLC							
1B-Blue		2009	2010	2011	2012	2013	2014
Manure Application		Beans	Corn	Beans	Corn	Beans	Corn
Storage					Deep Pit		Deep Pit
Application Method					Inject		Inject
Storage/Application Method					LINE1		LINE1
1st Year Available N ($Am-N * N$ <i>retention due to app method</i>) + ($OrgN$ $* .35$)	(lb/1000 gal)				17.48		17.48
N App Rate ($Crop\ N\ Need / 1st\ Yr\ Av\ N$)	(1000 gal/acre)				10.1		9.3
P App Rate ($Maintenance\ P / P\ in\ analysis$)	(1000 gal/acre)				9.80		9.80
Apply at Prate or Nrate?					Prate		Prate
Application Rate to Use	(1000 gal)	0.0	0.0	0.0	9.8	0.0	9.8
Total application ($App\ Rate * Spreadable\ Acres$)	(gallons)				414,433		414,433
N applied ($1st\ Year\ AvN * App\ rate$)	(lb/acre)				171		171
P applied ($P\ in\ manure * App\ rate$)	(lb/acre)				77		77
K applied ($K\ in\ manure * App\ rate$)	(lb/acre)				138		138
Additional N Needed	(lb/acre)		176	0	5	-27	-9
Acres Covered	(acres)		0.0	0.0	42.3	0.0	42.3

Individual Field Information**North Fork Pork, LLC**

Field Name:	<u>1C-Blue</u>	Total Acres	41.2
		Non-Spreadable Acres	0.4
Township	St. Albans	Total Spreadable Acres	40.8
Section	9		
FSA Farm #	782	Predominant Soil Type:	43A Ipava silt loam, 0-2% slopes
FSA Tract #	3394	P test	--
FSA Field #'s	13	K test	--

Individual Field Application & Nutrients

Crop needs	Year	2009	2010	2011	2012	2013	2014
Crop		Corn	Beans	Corn	Beans	Corn	Beans
Yield	(bu/acre OR ton/acre)		60	200	60	200	60
N needed (lbs/ac)	lbs/ac		0	240	0	240	0
- Legume N credits	(lb/acre)		0	40	0	40	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		27.1	13.6	36.3	18.2	36.9
Total N Credits	(lb/acre)		27.1	53.6	36.3	58.2	36.9
Crop N Need Minus Credits	(lb/acre)		-27.1	186.4	-36.3	181.8	-36.9
Maintenance P needed *	(lb/acre)		51.0	86.0	51.0	86.0	51.0
Maintenance K needed *	(lb/acre)		78.0	56.0	78.0	56.0	78.0

* Maintenance P & K needed are listed for calculation & uptake purposes only

** Manure N carryover credit = Previous years' apps * Org N * Mineralization factor

North Fork Pork, LLC							
1C-Blue		2009	2010	2011	2012	2013	2014
Manure Application		Corn	Beans	Corn	Beans	Corn	Beans
Storage		Deep Pit		Deep Pit		Deep Pit	
Application Method		Inject		Inject		Inject	
Storage/Application Method		LINE1		LINE1		LINE1	
1st Year Available N ($Am-N * N$ <i>retention due to app method</i>) + ($OrgN$ $* .35$)	(lb/1000 gal)			17.48		17.48	
N App Rate ($Crop\ N\ Need / 1st\ Yr\ Av\ N$)	(1000 gal/acre)			10.7		10.4	
P App Rate ($Maintenance\ P / P\ in\ analysis$)	(1000 gal/acre)			10.89		10.89	
Apply at Prate or Nrate?				Prate		Prate	
Application Rate to Use	(1000 gal)	10.0	0.0	10.9	0.0	10.9	0.0
Total application ($App\ Rate * Spreadable\ Acres$)	(gallons)			444,152		444,152	
N applied ($1st\ Year\ AvN * App\ rate$)	(lb/acre)			190		190	
P applied ($P\ in\ manure * App\ rate$)	(lb/acre)			86		86	
K applied ($K\ in\ manure * App\ rate$)	(lb/acre)			153		153	
Additional N Needed	(lb/acre)		-27	-4	-36	-8	-37
Acres Covered	(acres)		0.0	40.8	0.0	40.8	0.0

Individual Field Information**North Fork Pork, LLC**

Field Name:	<u>1D-Blue</u>	Total Acres	22.6
		Non-Spreadable Acres	1.4
Township	St. Albans	Total Spreadable Acres	21.2
Section	9		
FSA Farm #	782	Predominant Soil Type:	43A Ipava silt loam, 0-2% slopes
FSA Tract #	3394	P test	--
FSA Field #'s	14,15,9	K test	--

Individual Field Application & Nutrients

Crop needs	Year	2009	2010	2011	2012	2013	2014
Crop		Beans	Beans	Corn	Beans	Corn	Beans
Yield	(bu/acre OR ton/acre)		60	200	60	200	60
N needed (lbs/ac)	lbs/ac		0	240	0	240	0
- Legume N credits	(lb/acre)		40	40	0	40	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		0.0	0.0	29.5	14.8	36.9
Total N Credits	(lb/acre)		40.0	40.0	29.5	54.8	36.9
Crop N Need Minus Credits	(lb/acre)		-40.0	200.0	-29.5	185.2	-36.9
Maintenance P needed *	(lb/acre)		51.0	86.0	51.0	86.0	51.0
Maintenance K needed *	(lb/acre)		78.0	56.0	78.0	56.0	78.0

* Maintenance P & K needed are listed for calculation & uptake purposes only

** Manure N carryover credit = Previous years' apps * Org N * Mineralization factor

North Fork Pork, LLC							
1D-Blue		2009	2010	2011	2012	2013	2014
Manure Application		Beans	Beans	Corn	Beans	Corn	Beans
Storage				Deep Pit		Deep Pit	
Application Method				Inject		Inject	
Storage/Application Method				LINE1		LINE1	
1st Year Available N ($Am-N * N$ <i>retention due to app method</i>) + ($OrgN$ $* .35$)	(lb/1000 gal)			17.48		17.48	
N App Rate ($Crop\ N\ Need / 1st\ Yr\ Av\ N$)	(1000 gal/acre)			11.4		10.6	
P App Rate ($Maintenance\ P / P\ in\ analysis$)	(1000 gal/acre)			10.89		10.89	
Apply at Prate or Nrate?				Prate		Prate	
Application Rate to Use	(1000 gal)	0.0	0.0	10.9	0.0	10.9	0.0
Total application ($App\ Rate * Spreadable\ Acres$)	(gallons)			230,785		230,785	
N applied ($1st\ Year\ AvN * App\ rate$)	(lb/acre)			190		190	
P applied ($P\ in\ manure * App\ rate$)	(lb/acre)			86		86	
K applied ($K\ in\ manure * App\ rate$)	(lb/acre)			153		153	
Additional N Needed	(lb/acre)		-40	10	-30	-5	-37
Acres Covered	(acres)		0.0	21.2	0.0	21.2	0.0

Individual Field Information**North Fork Pork, LLC**

Field Name:	<u>North Blue</u>	Total Acres	38.5
		Non-Spreadable Acres	0.0
Township	St. Albans	Total Spreadable Acres	38.5
Section	5		
FSA Farm #	782	Predominant Soil Type:	17B2 Keomah silt loam, 2-5% slopes
FSA Tract #	3394	P test	--
FSA Field #'s	16,17	K test	--

Individual Field Application & Nutrients

Crop needs	Year	2009	2010	2011	2012	2013	2014
Crop		Corn	Beans	Wheat	Corn	Beans	Wheat
Yield	(bu/acre OR ton/acre)		60	80	180	60	80
N needed (lbs/ac)	lbs/ac		0	80	216	0	80
- Legume N credits	(lb/acre)		0	40	0	0	40
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		27.1	13.6	6.8	30.0	13.3
Total N Credits	(lb/acre)		27.1	53.6	6.8	30.0	53.3
Crop N Need Minus Credits	(lb/acre)		-27.1	26.4	209.2	-30.0	26.7
Maintenance P needed *	(lb/acre)		51.0	72.0	77.4	51.0	72.0
Maintenance K needed *	(lb/acre)		78.0	24.0	50.4	78.0	24.0

* Maintenance P & K needed are listed for calculation & uptake purposes only

** Manure N carryover credit = Previous years' apps * Org N * Mineralization factor

North Fork Pork, LLC							
North Blue		2009	2010	2011	2012	2013	2014
Manure Application		Corn	Beans	Wheat	Corn	Beans	Wheat
Storage		Deep Pit			Deep Pit		
Application Method		Inject			Inject		
Storage/Application Method					LINE1		
1st Year Available N ($Am-N * N$ <i>retention due to app method</i>) + ($OrgN$ $* .35$)	(lb/1000 gal)				17.48		
N App Rate ($Crop\ N\ Need / 1st\ Yr\ Av\ N$)	(1000 gal/acre)				12.0		
P App Rate ($Maintenance\ P / P\ in\ analysis$)	(1000 gal/acre)				9.80		
Apply at Prate or Nrate?					Prate		
Application Rate to Use	(1000 gal)	10.0	0.0	0.0	9.8	0.0	0.0
Total application ($App\ Rate * Spreadable\ Acres$)	(gallons)				377,203		
N applied ($1st\ Year\ AvN * App\ rate$)	(lb/acre)				171		
P applied ($P\ in\ manure * App\ rate$)	(lb/acre)				77		
K applied ($K\ in\ manure * App\ rate$)	(lb/acre)				138		
Additional N Needed	(lb/acre)		-27	26	38	-30	27
Acres Covered	(acres)		0.0	0.0	38.5	0.0	0.0

Individual Field Information**North Fork Pork, LLC**

Field Name:	<u>Bruenger</u>	Total Acres	80.0
		Non-Spreadable Acres	9.5
Township	St. Albans	Total Spreadable Acres	70.5
Section	6		
FSA Farm #	7324	Predominant Soil Type:	6C2 Fishhook silt loam, 5-10% slopes
FSA Tract #	9024	P test	38
FSA Field #'s	1,3-8	K test	295

Individual Field Application & Nutrients

Crop needs	Year	2009	2010	2011	2012	2013	2014
Crop		Wheat	Corn	Beans	Wheat	Corn	Beans
Yield	(bu/acre OR ton/acre)		170	55	80	170	55
N needed (lbs/ac)	lbs/ac		204	0	80	204	0
- Legume N credits	(lb/acre)		0	0	40	0	0
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		0.0	31.7	15.8	7.9	34.4
Total N Credits	(lb/acre)		0.0	31.7	55.8	7.9	34.4
Crop N Need Minus Credits	(lb/acre)		204.0	-31.7	24.2	196.1	-34.4
Maintenance P needed *	(lb/acre)		73.1	46.8	72.0	73.1	46.8
Maintenance K needed *	(lb/acre)		47.6	71.5	24.0	47.6	71.5

* Maintenance P & K needed are listed for calculation & uptake purposes only

** Manure N carryover credit = Previous years' apps * Org N * Mineralization factor

North Fork Pork, LLC							
Bruenger		2009	2010	2011	2012	2013	2014
Manure Application		Wheat	Corn	Beans	Wheat	Corn	Beans
Storage			Deep Pit			Deep Pit	
Application Method			Inject			Inject	
Storage/Application Method			LINE1			LINE1	
1st Year Available N ($Am-N * N$ <i>retention due to app method</i>) + ($OrgN$ $* .35$)	(lb/1000 gal)		17.48			17.48	
N App Rate ($Crop\ N\ Need / 1st\ Yr\ Av\ N$)	(1000 gal/acre)		11.7			11.2	
P App Rate ($Maintenance\ P / P\ in\ analysis$)	(1000 gal/acre)		9.25			9.25	
Apply at Prate or Nrate?			Nrate			Nrate	
Application Rate to Use	(1000 gal)	0.0	11.7	0.0	0.0	11.2	0.0
Total application ($App\ Rate * Spreadable\ Acres$)	(gallons)		822,816			790,894	
N applied ($1st\ Year\ AvN * App\ rate$)	(lb/acre)		204			196	
P applied ($P\ in\ manure * App\ rate$)	(lb/acre)		204			89	
K applied ($K\ in\ manure * App\ rate$)	(lb/acre)		92			158	
Additional N Needed	(lb/acre)		0	-32	24	0	-34
Acres Covered	(acres)		70.5	0.0	0.0	70.5	0.0

Individual Field Information**North Fork Pork, LLC**

Field Name: Kurt's North

Total Acres 99.4

Non-Spreadable Acres 0.0

Total Spreadable Acres 99.4

Township St. Albans

Section 5

FSA Farm # 6696

FSA Tract # 3393

FSA Field #'s 1,14

Predominant Soil Type: 386B Downs silt loam, 2-5% slopes

P test --

K test --

Individual Field Application & Nutrients

Crop needs	Year	2009	2010	2011	2012	2013	2014
Crop		Corn	Beans	Wheat	Corn	Beans	Wheat
Yield	(bu/acre OR ton/acre)		55	80	180	55	80
N needed (lbs/ac)	lbs/ac		0	80	216	0	80
- Legume N credits	(lb/acre)		0	40	0	0	40
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		27.1	13.6	6.8	30.0	13.3
Total N Credits	(lb/acre)		27.1	53.6	6.8	30.0	53.3
Crop N Need Minus Credits	(lb/acre)		-27.1	26.4	209.2	-30.0	26.7
Maintenance P needed *	(lb/acre)		46.8	72.0	77.4	46.8	72.0
Maintenance K needed *	(lb/acre)		71.5	24.0	50.4	71.5	24.0

* Maintenance P & K needed are listed for calculation & uptake purposes only

** Manure N carryover credit = Previous years' apps * Org N * Mineralization factor

North Fork Pork, LLC							
Kurt's North		2009	2010	2011	2012	2013	2014
Manure Application		Corn	Beans	Wheat	Corn	Beans	Wheat
Storage		Deep Pit			Deep Pit		
Application Method		Inject			Inject		
Storage/Application Method		LINE1			LINE1		
1st Year Available N (<i>Am-N * N retention due to app method</i>) + (<i>OrgN * .35</i>)	(lb/1000 gal)				17.48		
N App Rate (<i>Crop N Need / 1st Yr Av N</i>)	(1000 gal/acre)				12.0		
P App Rate (<i>Maintenance P / P in analysis</i>)	(1000 gal/acre)				9.80		
Apply at Prate or Nrate?					Prate		
Application Rate to Use	(1000 gal)	10.0	0.0	0.0	9.8	0.0	0.0
Total application (<i>App Rate * Spreadable Acres</i>)	(gallons)				973,868		
N applied (<i>1st Year AvN * App rate</i>)	(lb/acre)				171		
P applied (<i>P in manure * App rate</i>)	(lb/acre)				77		
K applied (<i>K in manure * App rate</i>)	(lb/acre)				138		
Additional N Needed	(lb/acre)		-27	26	38	-30	27
Acres Covered	(acres)		0.0	0.0	99.4	0.0	0.0

Individual Field Information**North Fork Pork, LLC**

Field Name:	<u>Kurt's South</u>	Total Acres	101.2
		Non-Spreadable Acres	1.6
Township	St. Albans	Total Spreadable Acres	99.6
Section	5		
FSA Farm #	6696	Predominant Soil Type:	257A Clarksdale silt loam, 0-2% slopes
FSA Tract #	3393	P test	--
FSA Field #'s	3,6,7	K test	--

Individual Field Application & Nutrients

Crop needs	Year	2009	2010	2011	2012	2013	2014
Crop		Beans	Corn	Beans	Corn	Beans	Corn
Yield	(bu/acre OR ton/acre)		200	60	200	60	200
N needed (lbs/ac)	lbs/ac		240	0	240	0	240
- Legume N credits	(lb/acre)		40	0	40	0	40
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		0.0	31.0	15.5	37.3	18.6
Total N Credits	(lb/acre)		40.0	31.0	55.5	37.3	58.6
Crop N Need Minus Credits	(lb/acre)		200.0	-31.0	184.5	-37.3	181.4
Maintenance P needed *	(lb/acre)		86.0	51.0	86.0	51.0	86.0
Maintenance K needed *	(lb/acre)		56.0	78.0	56.0	78.0	56.0

* Maintenance P & K needed are listed for calculation & uptake purposes only

** Manure N carryover credit = Previous years' apps * Org N * Mineralization factor

North Fork Pork, LLC							
Kurt's South		2009	2010	2011	2012	2013	2014
Manure Application		Beans	Corn	Beans	Corn	Beans	Corn
Storage			Deep Pit		Deep Pit		Deep Pit
Application Method			Inject		Inject		Inject
Storage/Application Method			LINE1		LINE1		LINE1
1st Year Available N ($Am-N * N$ <i>retention due to app method</i>) + ($OrgN$ $* .35$)	(lb/1000 gal)		17.48		17.48		17.48
N App Rate ($Crop\ N\ Need / 1st\ Yr\ Av\ N$)	(1000 gal/acre)		11.4		10.6		10.4
P App Rate ($Maintenance\ P / P\ in\ analysis$)	(1000 gal/acre)		10.89		10.89		10.89
Apply at Prate or Nrate?			Nrate		Prate		Prate
Application Rate to Use	(1000 gal)	0.0	11.4	0.0	10.9	0.0	10.9
Total application ($App\ Rate * Spreadable\ Acres$)	(gallons)		1,139,653		1,084,253		1,084,253
N applied ($1st\ Year\ AvN * App\ rate$)	(lb/acre)		200		190		190
P applied ($P\ in\ manure * App\ rate$)	(lb/acre)		200		86		86
K applied ($K\ in\ manure * App\ rate$)	(lb/acre)		90		153		153
Additional N Needed	(lb/acre)		0	-31	-6	-37	-9
Acres Covered	(acres)		99.6	0.0	99.6	0.0	99.6

Individual Field Information**North Fork Pork, LLC**

Field Name:	<u>Miller 120</u>	Total Acres	67.2
		Non-Spreadable Acres	0.0
Township	St. Albans	Total Spreadable Acres	67.2
Section	5		
FSA Farm #	6696	Predominant Soil Type:	257A Clarksdale silt loam, 0-2% slopes
FSA Tract #	3393	P test	--
FSA Field #'s	8	K test	--

Individual Field Application & Nutrients

Crop needs	Year	2009	2010	2011	2012	2013	2014
Crop		Corn	Corn	Beans	Corn	Beans	Corn
Yield	(bu/acre OR ton/acre)		200	60	200	60	200
N needed (lbs/ac)	lbs/ac		240	0	240	0	240
- Legume N credits	(lb/acre)		0	0	40	0	40
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		0.0	37.2	18.6	38.8	19.4
Total N Credits	(lb/acre)		0.0	37.2	58.6	38.8	59.4
Crop N Need Minus Credits	(lb/acre)		240.0	-37.2	181.4	-38.8	180.6
Maintenance P needed *	(lb/acre)		86.0	51.0	86.0	51.0	86.0
Maintenance K needed *	(lb/acre)		56.0	78.0	56.0	78.0	56.0

* Maintenance P & K needed are listed for calculation & uptake purposes only

** Manure N carryover credit = Previous years' apps * Org N * Mineralization factor

North Fork Pork, LLC							
Miller 120		2009	2010	2011	2012	2013	2014
Manure Application		Corn	Corn	Beans	Corn	Beans	Corn
Storage			Deep Pit		Deep Pit		Deep Pit
Application Method			Inject		Inject		Inject
Storage/Application Method			LINE1		LINE1		LINE1
1st Year Available N ($Am-N * N$ <i>retention due to app method</i>) + ($OrgN$ $* .35$)	(lb/1000 gal)		17.48		17.48		17.48
N App Rate ($Crop\ N\ Need / 1st\ Yr\ Av\ N$)	(1000 gal/acre)		13.7		10.4		10.3
P App Rate ($Maintenance\ P / P\ in\ analysis$)	(1000 gal/acre)		10.89		10.89		10.89
Apply at Prate or Nrate?			Nrate		Prate		Prate
Application Rate to Use	(1000 gal)	0.0	13.7	0.0	10.9	0.0	10.9
Total application ($App\ Rate * Spreadable\ Acres$)	(gallons)		922,707		731,544		731,544
N applied ($1st\ Year\ AvN * App\ rate$)	(lb/acre)		240		190		190
P applied ($P\ in\ manure * App\ rate$)	(lb/acre)		240		86		86
K applied ($K\ in\ manure * App\ rate$)	(lb/acre)		108		153		153
Additional N Needed	(lb/acre)		0	-37	-9	-39	-10
Acres Covered	(acres)		67.2	0.0	67.2	0.0	67.2

Individual Field Information**North Fork Pork, LLC**

Field Name:	<u>Geischler's North</u>	Total Acres	46.4
		Non-Spreadable Acres	0.0
Township	St. Albans	Total Spreadable Acres	46.4
Section	6		
FSA Farm #	6696	Predominant Soil Type:	6C2 Fishhook silt loam, 5-10% slopes
FSA Tract #	3389	P test	--
FSA Field #'s	6,7	K test	--

Individual Field Application & Nutrients

Crop needs	Year	2009	2010	2011	2012	2013	2014
Crop		Corn	Beans	Wheat	Corn	Beans	Wheat
Yield	(bu/acre OR ton/acre)		55	80	170	55	80
N needed (lbs/ac)	lbs/ac		0	80	204	0	80
- Legume N credits	(lb/acre)		0	40	0	0	40
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		27.1	13.6	6.8	28.5	12.5
Total N Credits	(lb/acre)		27.1	53.6	6.8	28.5	52.5
Crop N Need Minus Credits	(lb/acre)		-27.1	26.4	197.2	-28.5	27.5
Maintenance P needed *	(lb/acre)		46.8	72.0	73.1	46.8	72.0
Maintenance K needed *	(lb/acre)		71.5	24.0	47.6	71.5	24.0

* Maintenance P & K needed are listed for calculation & uptake purposes only

** Manure N carryover credit = Previous years' apps * Org N * Mineralization factor

North Fork Pork, LLC							
Geischler's North		2009	2010	2011	2012	2013	2014
Manure Application		Corn	Beans	Wheat	Corn	Beans	Wheat
Storage		Deep Pit			Deep Pit		
Application Method		Inject			Inject		
Storage/Application Method					LINE1		
1st Year Available N ($Am-N * N$ <i>retention due to app method</i>) + ($OrgN$ $* .35$)	(lb/1000 gal)				17.48		
N App Rate ($Crop\ N\ Need / 1st\ Yr\ Av\ N$)	(1000 gal/acre)				11.3		
P App Rate ($Maintenance\ P / P\ in\ analysis$)	(1000 gal/acre)				9.25		
Apply at Prate or Nrate?					Prate		
Application Rate to Use	(1000 gal)	10.0	0.0	0.0	9.3	0.0	0.0
Total application ($App\ Rate * Spreadable\ Acres$)	(gallons)				429,347		
N applied ($1st\ Year\ AvN * App\ rate$)	(lb/acre)				162		
P applied ($P\ in\ manure * App\ rate$)	(lb/acre)				73		
K applied ($K\ in\ manure * App\ rate$)	(lb/acre)				130		
Additional N Needed	(lb/acre)		-27	26	35	-28	27
Acres Covered	(acres)		0.0	0.0	46.4	0.0	0.0

Individual Field Information**North Fork Pork, LLC**

Field Name:	<u>Geischler's South</u>	Total Acres	11.8
		Non-Spreadable Acres	0.0
Township	St. Albans	Total Spreadable Acres	11.8
Section	6		
FSA Farm #	6696	Predominant Soil Type:	971D3 Fishhook-Atlas complex, 10-15% slopes
FSA Tract #	3389	P test	--
FSA Field #'s	3,4	K test	--

Individual Field Application & Nutrients

Crop needs	Year	2009	2010	2011	2012	2013	2014
Crop		Beans	Corn	Beans	Corn	Beans	Corn
Yield	(bu/acre OR ton/acre)		170	55	170	55	170
N needed (lbs/ac)	lbs/ac		204	0	204	0	204
- Legume N credits	(lb/acre)		40	0	40	0	40
- Commercial fertilizer N credits	(lb/acre)						
- Manure N carryover credit **	(lb/acre)		0.0	25.5	12.7	31.5	15.7
Total N Credits	(lb/acre)		40.0	25.5	52.7	31.5	55.7
Crop N Need Minus Credits	(lb/acre)		164.0	-25.5	151.3	-31.5	148.3
Maintenance P needed *	(lb/acre)		73.1	46.8	73.1	46.8	73.1
Maintenance K needed *	(lb/acre)		47.6	71.5	47.6	71.5	47.6

* Maintenance P & K needed are listed for calculation & uptake purposes only

** Manure N carryover credit = Previous years' apps * Org N * Mineralization factor

North Fork Pork, LLC							
Geischler's South		2009	2010	2011	2012	2013	2014
Manure Application		Beans	Corn	Beans	Corn	Beans	Corn
Storage			Deep Pit		Deep Pit		Deep Pit
Application Method			Inject		Inject		Inject
Storage/Application Method			LINE1		LINE1		LINE1
1st Year Available N ($Am-N * N$ <i>retention due to app method</i>) + ($OrgN$ $* .35$)	(lb/1000 gal)		17.48		17.48		17.48
N App Rate ($Crop\ N\ Need / 1st\ Yr\ Av\ N$)	(1000 gal/acre)		9.4		8.7		8.5
P App Rate ($Maintenance\ P / P\ in\ analysis$)	(1000 gal/acre)		9.25		9.25		9.25
Apply at Prate or Nrate?			Nrate		Prate		Prate
Application Rate to Use	(1000 gal)	0.0	9.4	0.0	9.3	0.0	9.3
Total application ($App\ Rate * Spreadable\ Acres$)	(gallons)		110,716		109,187		109,187
N applied ($1st\ Year\ AvN * App\ rate$)	(lb/acre)		164		162		162
P applied ($P\ in\ manure * App\ rate$)	(lb/acre)		164		73		73
K applied ($K\ in\ manure * App\ rate$)	(lb/acre)		74		130		130
Additional N Needed	(lb/acre)		0	-25	-10	-31	-13
Acres Covered	(acres)		11.8	0.0	11.8	0.0	11.8