

- Install conservation buffers adjacent to water resources to create nutrient application setbacks.

Reduce Runoff Potential:

- Terrace fields to reduce slope length.
- Contour strip cropping, contour buffer strips, cover crops, crop rotations that include meadow and/or small grains, and crop residue management.

Lower Soil Test Phosphorus:

- Sample soils on high testing fields to determine vertical distribution of the phosphorus.
- If phosphorus is concentrated in the top two inches of soil, invert the soil (e.g. moldboard plow) where soil erosion will not be a problem.
- Avoid stratification by placing phosphorus materials beneath the top two inches of the soil surface.

Practice Nutrient Management:

- Apply no more than maintenance levels of phosphorus when soil test P reaches the levels described in the Illinois Agronomy Handbook, Chapter 11.

Phosphorous Risk Assessment - Site Characteristic Definitions:

1. SOIL EROSION – Sheet and rill erosion as measured by the most current version of the Revised Universal Soil Loss Equation (RUSLE).
2. CONNECTIVITY TO WATER – Defines the potential for P to be transferred from the site to a perennial stream or water body. The more closely connected the runoff is from the field via concentrated flow (from a defined grassed waterway or surface drain) to a perennial stream or water body the higher the potential for of P transport.
3. RUNOFF CLASS – Represents the effect of the Hydrologic Soil Group (A, B, C, D) on runoff. This factor represents the site's runoff vulnerability.
4. SOIL "P" TEST (BRAY P1 or Mehlich 3) – The soil test procedure using the Bray P1 extraction, or other extraction test calibrated to Bray P1, that provides an index of plant available P expressed in lbs. P/ac (PPM X 2 = lbs./ac where soil samples are obtained to the 6 2/3" depth).
5. "P INPUTS" - Represents the combined effect of application method and application rate on the potential for phosphorus to be transported in runoff in both dissolved and sediment-bound phases. Phosphorus application rate is expressed in terms of the University of Illinois maintenance phosphorus recommendations applicable to crops/yields grown on the site being evaluated. See the "P Inputs Matrix" below. Phosphorus may be in the form of commercial fertilizer or organic materials such as manure, animal waste lagoon supernatant, wastewater from municipal or agricultural sources or nonagricultural biosolids such as sewage sludge or landscape waste. When using the "P Input Matrix, it is assumed that soil incorporation is performed prior to runoff events. Instances where incorporation is typically not performed prior to runoff events will be considered as non-incorporated surface applications.

P INPUT MATRIX

Application Method	Application Rate		
	<= UI Recommendations	>UI – 150% UI	>150% UI
Incorporation or Injection > 3" below surface	Low	Low	Low
Shallowly incorporated surface applications <3 inches	Low	Medium	High
Non-incorporated surface applications	Medium	High	High

Recommended Management Practices to Reduce Phosphorus Losses

1. Perform soil test regularly (minimum of every four years) and follow University of Illinois' recommendations for application rates.
2. Do not maintain excessively high phosphorus soil test levels, especially in areas prone to phosphorus transport.
3. Use variable rate applications to increase the precision of phosphorus applications and to maintain rates needed for optimal crop production.
4. In areas where phosphorus losses occur primarily from surface runoff, incorporate or inject phosphorus beneath the soil surface.
5. Control soil erosion to 'T' or less.
6. Utilize agronomic practices that optimize crop production to maximize phosphorus utilization.
7. Use filter strips or riparian forest buffers to reduce offsite transport of particulate phosphorus.
8. Avoid applying nutrients when soils are frozen or covered with ice or snow.
9. Fall applications of phosphorus that are not incorporated into the soil should not be applied on slopes greater than 5% unless runoff control measures such as heavy residue cover, contour mulch tillage, contour strip cropping, or terraces have been applied.
10. Minimize surface runoff of water by reducing compaction, maintaining high crop residue levels, installing runoff control structures such as terraces, etc.
11. Avoid stratification on soils that are susceptible to runoff and erosion.

Field Specific Phosphorus Risk Factors

The table below identifies specific risk factors that may present in a given field. No attempt should be made to "average" the factors and assign a composite rating for the field. It is recognized that the risk factors do not act independently to influence phosphorus loss from agricultural fields and P loading into water resources. Simple averaging however, assumes that all risk factors have the same amount of influence. Attempts to objectively weight some factors more or less than others would be desirable but difficult without supporting data. The phosphorus assessment procedure is not a process based or empirical model. The procedure was developed as a conservation planning tool. The

tool is designed to provide guidance to select and plan conservation measures that will lower the potential for phosphorus loss from agricultural fields and P loading into water resources.

	P Risk Factors					
Field Number	Soil Erosion Factor RUSLE	Connectivity to surface water	Runoff potential (Hydrological group)	P1 Soil Test	"P inputs"	Management to maintain Low 'P inputs' risk
Janssen	Low	High	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Stoner 1	Low	High	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Stoner 2	Low	Low	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
T&S	Low	Low	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Nehrkorn Becker, Plant55, North, West, Nessemeyer	Low	Low	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Nehrkorn Middle	Low	Hirh	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Byer 1, 2	Low	Low	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Fink 1, 2	Low	High	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Schrader 2, 1	Low	High	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Frederick 80	Low	High	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Frederick Home	Low	Low	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Delp 1	Low	Low	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion

Delp 2	Low	High	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Delp 3	Low	Low	Medium	Low	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Flikkema 1	Low	High	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Flikkema2	Low	Low	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion
Flikkema 3,4	Low	Low	Medium	High	Low	Manure will be surface applied and incorporated on day of application and current tillage practices will be maintained to minimize erosion

Generalized Interpretation of Phosphorus Ratings & Management

LOW potential for P movement from the field. If current farming practices are maintained there is a low probability of an adverse impact to surface waters from P loss.

MEDIUM potential for P movement from the field.

HIGH potential for P movement from the field and for an adverse impact on surface waters.

VERY HIGH potential for P movement from the field and an adverse impact on surface water. A complete soil and water conservation system is needed. No P application should be planned until risk is reduced.

Illinois Nitrogen Risk Assessment Procedure

Nitrate loss potentials based on soil texture, timing, and nitrification inhibitors

FIELDS:	None	All Fields	None
Application Timing¹	Soil Texture²		
	Coarse	Medium	Fine
Fall with an inhibitor > 60° F	High	High	High
Fall with an inhibitor < 60° F	High	Medium	Medium
Fall without an inhibitor > 50° F	High	High	High
Fall without an inhibitor < 50° F	High	Medium	Medium
Spring without an inhibitor	Medium	Medium	Medium-Low
Spring with an inhibitor	Medium-Low	Low	Low
Spring split applied or sidedress	Medium-Low	Low	Low

Foot notes:

1. Temperatures refer to soil temperature measured at a depth of 4 inches. For this assessment, inhibitors refer to nitrification inhibitors.
2. Soil Texture: Coarse - sand, loamy sand, sandy loam
Medium - silt, silt loam, loam
Fine - silty clay loam, silty clay, clay, clay loam, sandy clay, loam, sandy clay

NITROGEN RISK SUMMARY

All of the fields behave essentially the same under the following management regarding nitrogen conservation:

- High risk of nitrogen losses if fall applied without use of an inhibitor until temperatures are below 50 degrees at a depth of 4".
- Medium risk of nitrogen loss if fall applied with a nitrification inhibitor added.
- Medium to Low risk if spring applied without an inhibitor.
- Low risk if spring applied with a nitrification inhibitor added.
- Low risk if split applied or sidedress.

Recommended Management Practices to Reduce Nitrogen Losses:

1. Set realistic yield goals and follow University of Illinois' nitrogen recommendations.

2. Take credit for nitrogen from **all** sources: previous legume crop, incidental nitrogen contained in diammonium phosphate (DAP) and other fertilizers, manure applications, etc.
3. Determine nitrate loss potential using the table above. Use this as a guideline to determine application timing for fields with various soil textures. (More detailed information on total nitrogen loss potential is available in the University of Illinois Agricultural Experiment Station Bulletin 784, Nitrogen-Loss Potential Ratings for Illinois Soils.)
4. In fields where spring applications are not usually troublesome, apply the majority of the nitrogen shortly before or after planting.
5. For fall applications, use a nitrification inhibitor or wait until the soil has cooled down to 50° F. Even when applying a nitrification inhibitor, do not apply nitrogen until soil has cooled to 60° F. Probable dates when these soil temperatures are expected are contained in the *Illinois Agronomy Handbook*. In most cases, fall nitrogen and manure applications should not begin prior to the third week in October.
6. Use adequate levels of phosphorus, potassium, and other nutrients to ensure optimum yields and nitrogen use efficiency.
7. Conduct a post-harvest evaluation of the nitrogen program:
 - Compare actual yields vs. yield goal;
 - Evaluate factors affecting yields and nitrogen use efficiency;
 - Consider using plant tissue analyses and an end-of-season corn stalk nitrate test to evaluate plant nitrogen sufficiency;
 - Refine nitrogen rates for future years.
8. Review each nutrient management plan annually to determine if changes in the nutrient budget are needed.
9. Calibrate application equipment annually, at minimum, to ensure uniform distribution of material at planned rates.
10. Use filter strips and riparian forest buffers to intercept nutrients transported surface runoff to the stream. (Note: these practices will have minimal effect in areas with extensive subsurface drainage.)
11. Avoid applying nitrogen around environmentally sensitive areas such as sinkholes, wells, gullies, ditches, surface inlets, or rapidly permeable areas.
12. Use cover crops, such as rye, to capture residual nitrogen after harvest and prevent nitrogen from being lost between harvest and planting of the next crop.
13. Utilize water table management to reduce artificial drainage when it is not needed for crop growth or field operations.
14. Utilize water table management to reduce artificial drainage when it is not needed for crop growth or field operations.
15. Outlet tiles into constructed wetlands to remove a portion of the nitrogen before tile effluent discharges into lakes or streams.

Northwest Illini Feedlot

238-07036.01

Manure Nutrient Management Plan

Years
2010-2016

Table of Contents

Manure Management Plan Data

General

Fields

Soil Tests

Crops

Storage

Animals

Analysis

Equipment

Manure Applications – Part 1

Manure Applications – Part 2

Manure Transfer

Fertilizer Applications

Annual Nutrient Needs

Field Nutrient Balance

Projected Soil P and K Levels

Manure Management Plan Data

Operation: Northwest Illini Feed Lots
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County: Carroll
State: Illinois

Plan Saved: 4/12/2012
Init. File Rev: 10/19/2011
Soils File Rev: 8/29/2011

GENERAL

Operation

Address

Town **State** **Zip Code**

Contact

Office Phone **Home Phone**

E-Mail Address

Notes

County

Starting Year **Starting Month** **Years In Plan**

Setbacks

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FIELDS

Field ID	Subfield ID	Total Size (Acres)	Spreadable Size (Acres)	Storage Distance (Miles)	County (If Different From Operation's County)	Predominant Soil Type (Name, Texture, Survey Area ID, Map Symbol, Slope Range)	Slope % (If Not Ave.)	Irrigated With Water	Is Not Owned	Farm ID	FSA Farm	FSA Tract	FSA Field	Notes
Stoner Farm #1		387	360			Greenbush SIL (015 675C2 5-10%)	7	<input type="checkbox"/>	<input type="checkbox"/>		4101	11012		T25N. R6E. Sec 33
Stoner Farm #4		60	57.1			Oscos SIL (015 86C 5-10%)	7	<input type="checkbox"/>	<input type="checkbox"/>		1222	947		T24N. R6E. Sec. 16
Stoner Farm #5		497	450			Oscos SIL (015 86C 5-10%)	7	<input type="checkbox"/>	<input type="checkbox"/>		1222	947	1	T24N. R6E. sec 9
Byers Farm #1		127	122			Oscos SIL (015 86C2 5-10%)	7	<input type="checkbox"/>	<input type="checkbox"/>		5296	9850	1	T24N. R5E. Sec1
Byers Farm #2		60	55			Oscos SIL (015 86C2 5-10%)	7	<input type="checkbox"/>	<input type="checkbox"/>		5037	12017		R25N. R6E. Sec. 33
Jassen Farm #1		125	121			Fayette SICL (015 280C3 5-10%)	7	<input type="checkbox"/>	<input type="checkbox"/>					T25N. R6E. Sec 33
Frederick Fm #2		80	70			Oscos SIL (015 86C2 5-10%)	6	<input type="checkbox"/>	<input type="checkbox"/>					T24N. R5E. Sec 24
Schrader Frm #1		160	145			Greenbush SIL (015 675C2 5-10%)	6	<input type="checkbox"/>	<input type="checkbox"/>					T25N. R5E. Sec 35
Schrader Frm #2		77.5	70.5			Oscos SIL (015 86B 2-5%)	6	<input type="checkbox"/>	<input type="checkbox"/>					T 25N. R6E. Sec 31 West
Schrader Fm #2		72.5	65.5			Greenbush SIL (015 675C2 5-10%)	6	<input type="checkbox"/>	<input type="checkbox"/>					T25N. R6E. Sec 32 East
Delp Farm #1		107.9	103.8			Fayette SIL (015 280C2 5-10%)	6	<input type="checkbox"/>	<input type="checkbox"/>		4161	1071	2	T25N. R5E. Sec 27,28
Delp Farm # 2		10	10			Pecatonica SIL (015 21C2 5-10%)	7	<input type="checkbox"/>	<input type="checkbox"/>		3450	1315	1	T25N. R6E. Sec 17
Delp Farm #3		53.5	46.6			Greenbush SIL (015 675B 2-5%)	4	<input type="checkbox"/>	<input type="checkbox"/>		3356	783	13	T24N. R5E. Sec 10
Fink Farm #1		150	138			Greenbush SIL (015 675C2 5-10%)	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>		77	1287	1	T25N. R6E. Sec 31
Fink Frm #2		120	105			Fayette SIL (015 280C2 5-10%)	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>					T25N. R6E. Sec 31,32

Manure Management Plan Data

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Plan File: MMP NWI 4-9-12.mmp

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Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Field ID	Subfield ID	Total Size (Acres)	Spread-able Size (Acres)	Storage Distance (Miles)	County (If Different From Operation's County)	Predominant Soil Type (Name, Texture, Survey Area ID, Map Symbol, Slope Range)	Slope % (If Not Ave.)	Irrigated With Water	Is Not Owned	Farm ID	FSA Farm	FSA Tract	FSA Field	Notes
Flikkema Frm#1		200	187			Greenbush SIL (015 675C 5-10%)	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>		5157	1296		T25N. R6E. Sec 28 (Hawbecker)
Flikkema Frm #2		240	231.4			Greenbush SIL (015 675C 5-10%)	6	<input type="checkbox"/>	<input type="checkbox"/>		1644	1779		T25N. R5E. Sec 27,28,33,34
Nerhkorn Frm #1		92.8	87			Myrtle SIL (015 414C2 5-10%)	7	<input type="checkbox"/>	<input type="checkbox"/>					T25N. R6E. Sec 20 (Craigs Middle)
Nerhkorn Frm #2		331	321			Flagg SIL (015 419C2 5-10%)	6	<input type="checkbox"/>	<input type="checkbox"/>		4351	1359	1	T25N. R6E. Sec 19,29,30 (Craigs West)
Nerhkorn Frm #3		47	45.1			Fayette SIL (015 280C 5-10%)	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>		4919	1067		T25N. R6E. Sec 16 (Plant 55)
Nerhkorn Frm #4		130.6	124.4			Flagg SIL (015 419C2 5-10%)	7	<input type="checkbox"/>	<input type="checkbox"/>		4919	1067	1	T25N. R6E. Sec 20 (Craigs North)
Nerhkorn Frm #5		74	70			Flagg SIL (015 419C2 5-10%)	6	<input type="checkbox"/>	<input type="checkbox"/>		4919	1067		T25N. R6E. Sec 17 (Becker)
Nerhkorn		67.2	65.1			Oscos SIL (015 86C 5-10%)	7	<input type="checkbox"/>	<input checked="" type="checkbox"/>			10362		T25N. R6E. Sec 29 (Nesemeyer)
NerhkornKruse 2		96.9	96.9			Oscos SIL (015 86C 5-10%)	5	<input type="checkbox"/>	<input checked="" type="checkbox"/>			11279	5	T25N. R5E. Sec 23,26
NerhkornKruse 3		56.4	7.6			Fayette SIL (015 280D2 10-18%)	10	<input type="checkbox"/>	<input checked="" type="checkbox"/>			11279		Fld 1,3,13,15,16,17,18 T25N. R5E. Sec 23,26
NerhkornKruse 1		16.5	4.6			Palsgrove SIL (015 429C2 5-10%)	10	<input type="checkbox"/>	<input checked="" type="checkbox"/>			11279		Fld 4,7,31,32,33 T25N. R5E. Sec 23,26
Nerhkorn Metz64		154.3	154.3			Oscos SIL (015 86C 5-10%)	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>		5304	12252		T24N. R5E. Sec 12
Nerhkorn Rbsn		74.8	74.8			Oscos SIL (015 86C 5-10%)	7	<input type="checkbox"/>	<input checked="" type="checkbox"/>			1759	1760	T25N. R6E. Sec 15
NerhkornPluck N		208.7	201.5			Flagg SIL (015 419D2 10-18%)	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>					T25N. R6E. Sec 18

Manure Management Plan Data

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Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

ASSESSMENT, All States

Field ID	Subfield ID	Distance To Water (Feet)	Type Of Water	Slope Length (Feet)	Runoff Reduction Practice	Buffer Width (Feet)	Type Of Artificial Drainage	Manure Applied Annually	Will Not Receive Manure	Water Erosion (T/A/Yr)	Wind Erosion (T/A/Yr)	Irrigation Erosion (T/A/Yr)	Gully Erosion (T/A/Yr)	Ephem. Erosion (T/A/Yr)	P Index Or Risk Index	Notes
Stoner Farm #1					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Stoner Farm #4					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Stoner Farm #5					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Byers Farm #1					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Byers Farm #2					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Jassen Farm #1					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Frederick Fm #2					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Schrader Frm #1					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Schrader Frm #2					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Schrader Fm #2					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Delp Farm #1					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Delp Farm # 2					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Delp Farm #3					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Fink Farm #1					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Fink Frm #2					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							

Manure Management Plan Data

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Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

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Flikkema Frm#1					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Flikkema Frm #2					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Nerhkorn Frm #1					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Nerhkorn Frm #2					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Nerhkorn Frm #3					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Nerhkorn Frm #4					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Nerhkorn Frm #5					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Nerhkorn					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
NerhkornKruse 2					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
NerhkornKruse 3					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
NerhkornKruse 1					<input type="checkbox"/>			<input type="checkbox"/>	<input checked="" type="checkbox"/>							
Nerhkorn Metz64					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Nerhkorn Rbsn					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							
NerhkornPluck N					<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>							

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

ASSESSMENT, State-Specific

No state-specific assessment data columns are defined.

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

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Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

SOIL TESTS

Field ID	Subfield ID	Test Year	OM (%)	P	P Test Used	K	Mg	Ca	Na	Al	Levels Are In Lb/A	Soil pH	Buffer pH	Estimated CEC	CEC	NO ₃ -N (ppm)	EC (mmhos /cm)	SO ₄ -S (ppm)	Notes
Stoner Farm #1		2009		83	Bray P1	516					<input checked="" type="checkbox"/>	6.5			11.7				
Stoner Farm #4		2009		70	Bray P1	300					<input checked="" type="checkbox"/>								
Stoner Farm #5		2009		70	Bray P1	300					<input checked="" type="checkbox"/>								
Byers Farm #1		2006		70	Bray P1	300					<input checked="" type="checkbox"/>								
Byers Farm #2		2006		70	Bray P1	300					<input checked="" type="checkbox"/>								
Jassen Farm #1		2006		70	Bray P1	300					<input checked="" type="checkbox"/>								
Frederick Fm #2		2006		70	Bray P1	300					<input checked="" type="checkbox"/>								
Schrader Frm #1		2009		70	Bray P1	300					<input checked="" type="checkbox"/>								
Schrader Frm #2		2006		70	Bray P1	300					<input checked="" type="checkbox"/>								
Schrader Fm #2		2006		70	Bray P1	300					<input checked="" type="checkbox"/>								
Delp Farm #1		2007		96	Bray P1	637					<input checked="" type="checkbox"/>	6.4							
Delp Farm # 2		2006		70	Bray P1	300					<input checked="" type="checkbox"/>								
Delp Farm #3		2006		70	Bray P1	300					<input checked="" type="checkbox"/>								
Fink Farm #1		2006		70	Bray P1	300					<input checked="" type="checkbox"/>								
Fink Frm #2		2006		70	Bray P1	300					<input checked="" type="checkbox"/>								

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Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Field ID	Subfield ID	Test Year	OM (%)	P	P Test Used	K	Mg	Ca	Na	Al	Levels Are In Lb/A	Soil pH	Buffer pH	Estimated CEC	CEC	NO ₃ -N (ppm)	EC (mmhos/cm)	SO ₄ -S (ppm)	Notes
Flikkema Frm#1		2006		70	Bray P1	300					<input checked="" type="checkbox"/>								
Flikkema Frm #2		2011		87	Bray P1	369					<input checked="" type="checkbox"/>	6.6							
Nerhkorn Frm #1		2006		70	Bray P1	300					<input checked="" type="checkbox"/>								
Nerhkorn Frm #2		2011		87	Bray P1	369					<input checked="" type="checkbox"/>	6.5							
Nerhkorn Frm #3		2007		266	Bray P1	946					<input checked="" type="checkbox"/>	6.6							
Nerhkorn Frm #4		2007		69	Bray P1	346					<input checked="" type="checkbox"/>	6.3							
Nerhkorn Frm #5		2007		86	Bray P1	371					<input checked="" type="checkbox"/>	6.6							
Nerhkorn		2007		70	Bray P1	300					<input checked="" type="checkbox"/>								
NerhkornKruse 2		2007		70	Bray P1	300					<input checked="" type="checkbox"/>								
NerhkornKruse 3		2007		70	Bray P1	300					<input checked="" type="checkbox"/>								
NerhkornKruse 1		2009		98	Bray P1	603					<input checked="" type="checkbox"/>	6.2							
Nerhkorn Metz64		2005		70	Bray P1	300					<input checked="" type="checkbox"/>								
Nerhkorn Rbsn		2011		86	Bray P1	543					<input checked="" type="checkbox"/>	6.4							
NerhkornPluck N		2005		70	Bray P1	300					<input checked="" type="checkbox"/>								

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

CROPS

Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
Stoner Farm #1		2010	Corn	180	Bu		175	0	0	170	77	50	U of I
Stoner Farm #1		2011	Corn	180	Bu		215	0	0	200	77	50	U of I
Stoner Farm #1		2012	Corn	180	Bu		215	0	0	200	77	50	U of I
Stoner Farm #1		2013	Corn	180	Bu		215	0	0	200	77	50	U of I
Stoner Farm #1		2014	Soybean	65	Bu		0	0	0		55	85	U of I
Stoner Farm #1		2015	Corn	180	Bu		175	0	0	170	77	50	U of I
Stoner Farm #1		2016	Corn	180	Bu		215	0	0	200	77	50	U of I
Stoner Farm #4		2010	Corn	180	Bu		175	0	50	200	77	50	U of I
Stoner Farm #4		2011	Corn	180	Bu		215	0	50	170	77	50	U of I
Stoner Farm #4		2012	Soybean	65	Bu		0	0	85		55	85	U of I
Stoner Farm #4		2013	Corn	180	Bu		175	0	50	170	77	50	U of I
Stoner Farm #4		2014	Corn	180	Bu		215	0	50	200	77	50	U of I
Stoner Farm #4		2015	Corn	180	Bu		215	0	50	200	77	50	U of I
Stoner Farm #4		2016	Corn	180	Bu		215	0	50	200	77	50	U of I
Stoner Farm #5		2010	Corn	180	Bu		175	0	50	170	77	50	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
Stoner Farm #5		2011	Corn	180	Bu		215	0	50	200	77	50	U of I
Stoner Farm #5		2012	Corn	180	Bu		215	0	50	200	77	50	U of I
Stoner Farm #5		2013	Soybean	65	Bu		0	0	85		55	85	U of I
Stoner Farm #5		2014	Corn	180	Bu		175	0	50	170	77	50	U of I
Stoner Farm #5		2015	Corn	180	Bu		215	0	50	200	77	50	U of I
Stoner Farm #5		2016	Corn	180	Bu		215	0	50	200	77	50	U of I
Byers Farm #1		2010	Corn	180	Bu		175	0	50	200	77	50	U of I
Byers Farm #1		2011	Corn	180	Bu		215	0	50	200	77	50	U of I
Byers Farm #1		2012	Soybean	65	Bu		0	0	85		55	85	U of I
Byers Farm #1		2013	Corn	180	Bu		175	0	50	170	77	50	U of I
Byers Farm #1		2014	Corn	180	Bu		215	0	50	200	77	50	U of I
Byers Farm #1		2015	Corn	180	Bu		215	0	50	200	77	85	U of I
Byers Farm #1		2016	Corn	180	Bu		215	0	50	200	77	85	U of I
Byers Farm #2		2010	Soybean	65	Bu		0	0	85		55	85	U of I
Byers Farm #2		2011	Corn	180	Bu		175	0	50	200	77	50	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

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Plan File: MMP NWI 4-9-12.mmp

State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
Byers Farm #2		2012	Corn	180	Bu		215	0	50	200	77	50	U of I
Byers Farm #2		2013	Corn	180	Bu		215	0	50	200	77	50	U of I
Byers Farm #2		2014	Corn	180	Bu		215	0	50	200	77	50	U of I
Byers Farm #2		2015	Soybean	65	Bu		0	0	85		55	85	U of I
Byers Farm #2		2016	Corn	180	Bu		175	0	50	170	77	50	U of I
Jassen Farm #1		2010	Corn	180	Bu		215	0	50	200	77	50	U of I
Jassen Farm #1		2011	Soybean	65	Bu		0	0	85		55	85	U of I
Jassen Farm #1		2012	Wheat	70	Bu			0	20	120	65	30	U of I
Jassen Farm #1		2013	Corn	180	Bu		215	0	50	200	65	50	U of I
Jassen Farm #1		2014	Soybean	65	Bu		0	0	85		55	85	U of I
Jassen Farm #1		2015	Wheat	70	Bu			0	20	120	65	30	U of I
Jassen Farm #1		2016	Corn	180	Bu		215	0	50	200	77	50	U of I
Frederick Fm #2		2010	Soybean	65	Bu		0	0	85		55	85	U of I
Frederick Fm #2		2011	Corn	180	Bu		175	0	50	170	77	50	U of I
Frederick Fm #2		2012	Corn	180	Bu		215	0	50	200	77	50	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

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Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
Frederick Fm #2		2013	Soybean	65	Bu		0	0	85		55	85	U of I
Frederick Fm #2		2014	Corn	180	Bu		175	0	50	170	77	50	U of I
Frederick Fm #2		2015	Corn	180	Bu		215	0	50	200	77	50	U of I
Frederick Fm #2		2016	Soybean	65	Bu		0	0	85		55	85	U of I
Schrader Frm #1		2010	Corn	180	Bu		175	0	50	170	77	50	U of I
Schrader Frm #1		2011	Soybean	65	Bu		0	0	85		55	85	U of I
Schrader Frm #1		2012	Corn	180	Bu		175	0	50	170	77	50	U of I
Schrader Frm #1		2013	Corn	180	Bu		215	0	50	200	77	50	U of I
Schrader Frm #1		2014	Corn	180	Bu		215	0	50	200	77	50	U of I
Schrader Frm #1		2015	Soybean	65	Bu		0	0	85		55	85	U of I
Schrader Frm #1		2016	Corn	180	Bu		175	0	50	170	77	50	U of I
Schrader Frm #2		2010	Corn	180	Bu		175	0	50	200	77	50	U of I
Schrader Frm #2		2011	Corn	180	Bu		215	0	50	200	77	50	U of I
Schrader Frm #2		2012	Soybean	65	Bu		0	0	85		55	85	U of I
Schrader Frm #2		2013	Corn	180	Bu		175	0	50	170	77	50	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
Schrader Frm #2		2014	Corn	180	Bu		215	0	50	200	77	50	U of I
Schrader Frm #2		2015	Soybean	65	Bu		0	0	85	200	77	50	U of I
Schrader Frm #2		2016	Corn	180	Bu		175	0	50		55	85	U of I
Schrader Fm #2		2010	Corn	180	Bu		175	0	50	170	77	50	U of I
Schrader Fm #2		2011	Corn	180	Bu		215	0	50	200	77	50	U of I
Schrader Fm #2		2012	Soybean	65	Bu		0	0	85		55	85	U of I
Schrader Fm #2		2013	Corn	180	Bu		175	0	50	170	77	50	U of I
Schrader Fm #2		2014	Corn	180	Bu		215	0	50	200	77	50	U of I
Schrader Fm #2		2015	Soybean	65	Bu		0	0	85	200	77	50	U of I
Schrader Fm #2		2016	Corn	180	Bu		175	0	50		55	85	U of I
Delp Farm #1		2010	Soybean	65	Bu		0	0	0		55	85	U of I
Delp Farm #1		2011	Wheat	70	Bu			0	0	120	65	30	U of I
Delp Farm #1		2012	Corn	180	Bu		215	0	0	200	77	50	U of I
Delp Farm #1		2013	Soybean	65	Bu		0	0	0		55	85	U of I
Delp Farm #1		2014	Wheat	70	Bu			0	0	120	65	30	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

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Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

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Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
Delp Farm #1		2015	Corn	180	Bu		215	0	0	200	77	50	U of I
Delp Farm #1		2016	Soybean	65	Bu		0	0	0		55	85	U of I
Delp Farm # 2		2010	Soybean	65	Bu		0	0	85		55	85	U of I
Delp Farm # 2		2011	Wheat	70	Bu			0	20	120	65	30	U of I
Delp Farm # 2		2012	Soybean	65	Bu		0	0	85		55	85	U of I
Delp Farm # 2		2013	Wheat	70	Bu			0	20	120	65	30	U of I
Delp Farm # 2		2014	Soybean	65	Bu		0	0	85		55	85	U of I
Delp Farm # 2		2015	Wheat	70	Bu			0	20	120	65	30	U of I
Delp Farm # 2		2016	Soybean	65	Bu		0	0	85		55	85	U of I
Delp Farm #3		2010	Soybean	65	Bu		0	0	85		55	82	U of I
Delp Farm #3		2011	Corn	180	Bu		175	0	50	170	77	50	U of I
Delp Farm #3		2012	Corn	180	Bu		215	0	50	200	77	50	U of I
Delp Farm #3		2013	Corn	180	Bu		215	0	50	200	77	50	U of I
Delp Farm #3		2014	Soybean	65	Bu		0	0	85		55	85	U of I
Delp Farm #3		2015	Corn	180	Bu		175	0	50	170	77	50	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
Delp Farm #3		2016	Corn	180	Bu		215	0	50	200	77	50	U of I
Fink Farm #1		2010	Soybean	65	Bu		0	0	85		55	85	U of I
Fink Farm #1		2011	Corn	180	Bu		175	0	50	170	77	50	U of I
Fink Farm #1		2012	Corn	180	Bu		215	0	50	200	77	50	U of I
Fink Farm #1		2013	Soybean	65	Bu		0	0	85		55	85	U of I
Fink Farm #1		2014	Corn	180	Bu		175	0	50	170	77	50	U of I
Fink Farm #1		2015	Corn	180	Bu		215	0	50	200	77	50	U of I
Fink Farm #1		2016	Soybean	65	Bu		0	0	85		55	85	U of I
Fink Frm #2		2010	Corn	180	Bu		175	0	50	170	77	50	U of I
Fink Frm #2		2011	Soybean	65	Bu		0	0	85		55	85	U of I
Fink Frm #2		2012	Corn	180	Bu		175	0	50	170	77	50	U of I
Fink Frm #2		2013	Corn	180	Bu		215	0	50	200	77	50	U of I
Fink Frm #2		2014	Soybean	65	Bu		0	0	85		55	85	U of I
Fink Frm #2		2015	Corn	180	Bu		175	0	50	170	77	50	U of I
Fink Frm #2		2016	Corn	180	Bu		215	0	50	200	77	50	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

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Plan File: MMP NWI 4-9-12.mmp

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Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
Flikkema Frm#1		2010	Corn	180	Bu		175	0	50	200	77	50	U of I
Flikkema Frm#1		2011	Corn	180	Bu		215	0	50	200	77	50	U of I
Flikkema Frm#1		2012	Soybean	65	Bu		0	0	85		55	85	U of I
Flikkema Frm#1		2013	Corn	180	Bu		175	0	50	170	77	50	U of I
Flikkema Frm#1		2014	Corn	180	Bu		215	0	50	200	77	50	U of I
Flikkema Frm#1		2015	Corn	180	Bu		215	0	50	200	77	50	U of I
Flikkema Frm#1		2016	Soybean	65	Bu		0	0	85		55	85	U of I
Flikkema Frm #2		2010	Corn	180	Bu		175	0	50	170	77	50	U of I
Flikkema Frm #2		2011	Soybean	65	Bu		0	0	85		55	85	U of I
Flikkema Frm #2		2012	Corn	180	Bu		175	0	50	180	77	50	U of I
Flikkema Frm #2		2013	Corn	180	Bu		215	0	50	200	77	50	U of I
Flikkema Frm #2		2014	Corn	180	Bu		215	0	50	200	77	50	U of I
Flikkema Frm #2		2015	Soybean	65	Bu		0	0	85		55	85	U of I
Flikkema Frm #2		2016	Corn	180	Bu		175	0	50	170	77	50	U of I
Nerhkorn Frm #1		2010	Corn	180	Bu		175	0	50	200	77	50	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

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Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
Nerhkorn Frm #1		2011	Corn	180	Bu		215	0	50	200	77	50	U of I
Nerhkorn Frm #1		2012	Corn	180	Bu		215	0	50	200	77	50	U of I
Nerhkorn Frm #1		2013	Corn	180	Bu		215	0	50	200	77	50	U of I
Nerhkorn Frm #1		2014	Soybean	65	Bu		0	0	85		55	85	U of I
Nerhkorn Frm #1		2015	Corn	180	Bu		175	0	50	170	77	50	U of I
Nerhkorn Frm #1		2016	Corn	180	Bu		215	0	50	200	77	50	U of I
Nerhkorn Frm #2		2010	Soybean	65	Bu		0	0	85		55	85	U of I
Nerhkorn Frm #2		2011	Corn	180	Bu		175	0	50	170	77	50	U of I
Nerhkorn Frm #2		2012	Corn	180	Bu		215	0	50	200	77	50	U of I
Nerhkorn Frm #2		2013	Corn	180	Bu		215	0	50	200	77	50	U of I
Nerhkorn Frm #2		2014	Corn	180	Bu		215	0	50	200	77	50	U of I
Nerhkorn Frm #2		2015	Soybean	65	Bu		0	0	85		55	85	U of I
Nerhkorn Frm #2		2016	Corn	180	Bu		175	0	50	170	77	50	U of I
Nerhkorn Frm #3		2010	Soybean	65	Bu		0	0	0		55	85	U of I
Nerhkorn Frm #3		2011	Corn	180	Bu		175	0	0	170	77	50	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

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Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
Nehrkorn Frm #3		2012	Corn	180	Bu		215	0	0	200	77	50	U of I
Nehrkorn Frm #3		2013	Corn	180	Bu		215	0	0	200	77	50	U of I
Nehrkorn Frm #3		2014	Corn	180	Bu		215	0	0	200	77	50	U of I
Nehrkorn Frm #3		2015	Soybean	65	Bu		0	0	0		55	85	U of I
Nehrkorn Frm #3		2016	Corn	180	Bu		175	0	0	170	77	50	U of I
Nehrkorn Frm #4		2010	Corn	180	Bu		175	0	50	200	77	50	U of I
Nehrkorn Frm #4		2011	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn Frm #4		2012	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn Frm #4		2013	Soybean	65	Bu		0	0	85		55	85	U of I
Nehrkorn Frm #4		2014	Corn	180	Bu		175	0	50	170	77	50	U of I
Nehrkorn Frm #4		2015	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn Frm #4		2016	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn Frm #5		2010	Corn	180	Bu		175	0	50	200	77	50	U of I
Nehrkorn Frm #5		2011	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn Frm #5		2012	Soybean	65	Bu		0	0	85		55	85	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

State: Illinois

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Soils File Rev: 8/29/2011

Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
Nehrkorn Frm #5		2013	Corn	180	Bu		175	0	50	170	77	50	U of I
Nehrkorn Frm #5		2014	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn Frm #5		2015	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn Frm #5		2016	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn		2010	Corn	180	Bu		175	0	50	200	77	50	U of I
Nehrkorn		2011	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn		2012	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn		2013	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn		2014	Soybean	65	Bu		0	0	85		55	85	U of I
Nehrkorn		2015	Corn	180	Bu		175	0	50	170	77	50	U of I
Nehrkorn		2016	Corn	180	Bu		215	0	50	200	77	50	U of I
NehrkornKruse 2		2010	Soybean	65	Bu		0	0	85		55	85	U of I
NehrkornKruse 2		2011	Corn	180	Bu		175	0	50	170	77	50	U of I
NehrkornKruse 2		2012	Corn	180	Bu		215	0	50	200	77	50	U of I
NehrkornKruse 2		2013	Corn	180	Bu		215	0	50	200	77	50	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

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Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
NehrkornKruse 2		2014	Corn	180	Bu		215	0	50	200	77	50	U of I
NehrkornKruse 2		2015	Soybean	65	Bu		0	0	85		55	85	U of I
NehrkornKruse 2		2016	Corn	180	Bu		175	0	50	170	77	50	U of I
NehrkornKruse 3		2010	Corn	180	Bu		175	0	50	200	77	50	U of I
NehrkornKruse 3		2011	Corn	180	Bu		215	0	50	200	77	50	U of I
NehrkornKruse 3		2012	Corn	180	Bu		215	0	50	200	77	50	U of I
NehrkornKruse 3		2013	Corn	180	Bu		215	0	50	200	77	50	U of I
NehrkornKruse 3		2014	Soybean	65	Bu		0	0	85		55	85	U of I
NehrkornKruse 3		2015	Corn	180	Bu		175	0	50	170	77	50	U of I
NehrkornKruse 3		2016	Corn	180	Bu		215	0	50	200	77	50	U of I
NehrkornKruse 1		2010	Corn	180	Bu		175	0	0	200	77	50	U of I
NehrkornKruse 1		2011	Soybean	65	Bu		0	0	0		55	85	U of I
NehrkornKruse 1		2012	Corn	180	Bu		175	0	0	170	77	50	U of I
NehrkornKruse 1		2013	Corn	180	Bu		215	0	0	200	77	50	U of I
NehrkornKruse 1		2014	Corn	180	Bu		215	0	0	200	77	50	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

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Soils File Rev: 8/29/2011

Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
NehrkornKruse 1		2015	Corn	180	Bu		215	0	0	200	77	50	U of I
NehrkornKruse 1		2016	Soybean	65	Bu		0	0	0		55	85	U of I
Nehrkorn Metz64		2010	Corn	180	Bu		175	0	50	170	77	50	U of I
Nehrkorn Metz64		2011	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn Metz64		2012	Soybean	65	Bu		0	0	85		55	85	U of I
Nehrkorn Metz64		2013	Corn	180	Bu		175	0	50	170	77	50	U of I
Nehrkorn Metz64		2014	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn Metz64		2015	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn Metz64		2016	Corn	180	Bu		215	0	50	200	77	50	U of I
Nehrkorn Rbsn		2010	Soybean	65	Bu		0	0	0		55	85	U of I
Nehrkorn Rbsn		2011	Corn	180	Bu		175	0	0	170	77	50	U of I
Nehrkorn Rbsn		2012	Corn	180	Bu		215	0	0	200	77	50	U of I
Nehrkorn Rbsn		2013	Corn	180	Bu		215	0	0	200	77	50	U of I
Nehrkorn Rbsn		2014	Corn	180	Bu		215	0	0	200	77	50	U of I
Nehrkorn Rbsn		2015	Soybean	65	Bu		0	0	0		55	85	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

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Soils File Rev: 8/29/2011

Field ID	Subfield ID	Crop Year	Planned Crop	Yield Goal (/Acre)	Yield Units	Legume % Stand	Default N Rec (Lb/A)	Default P ₂ O ₅ Rec (Lb/A)	Default K ₂ O Rec (Lb/A)	Custom N Rec (Lb/A)	Custom P ₂ O ₅ Rec (Lb/A)	Custom K ₂ O Rec (Lb/A)	Source Of Custom Fertilizer Recommendations
Nehrkorn Rbsn		2016	Corn	180	Bu		175	0	0	170	77	50	U of I
NerhkornPluck N		2010	Corn	180	Bu		175	0	50	200	77	50	U of I
NerhkornPluck N		2011	Soybean	65	Bu		0	0	85		55	85	U of I
NerhkornPluck N		2012	Corn	180	Bu		175	0	50	170	77	50	U of I
NerhkornPluck N		2013	Corn	180	Bu		215	0	50	200	77	50	U of I
NerhkornPluck N		2014	Corn	180	Bu		215	0	50	200	77	50	U of I
NerhkornPluck N		2015	Corn	180	Bu		215	0	50	200	77	50	U of I
NerhkornPluck N		2016	Soybean	180	Bu		0	0	235		55	85	U of I

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

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State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

RUSLE2

Field ID	Subfield ID	Rock Cover (%)	Contouring	Strips/Barriers	Diversion/Terrace	Residue Burial	Managements
Stoner Farm #1							
Stoner Farm #4							
Stoner Farm #5							
Byers Farm #1							
Byers Farm #2							
Jassen Farm #1							
Frederick Fm #2							
Schrader Frm #1							
Schrader Frm #2							
Schrader Fm #2							
Delp Farm #1							
Delp Farm # 2							
Delp Farm #3							
Fink Farm #1							

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Field ID	Subfield ID	Rock Cover (%)	Contouring	Strips/Barriers	Diversion/Terrace	Residue Burial	Managements
Fink Frm #2							
Flikkema Frm#1							
Flikkema Frm #2							
Nerhkorn Frm #1							
Nerhkorn Frm #2							
Nerhkorn Frm #3							
Nerhkorn Frm #4							
Nerhkorn Frm #5							
Nerhkorn							
NerhkornKruse 2							
NerhkornKruse 3							
NerhkornKruse 1							
Nerhkorn Metz64							
Nerhkorn Rbsn							
NerhkornPluck N							

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

STORAGE

<i>Storage ID</i>	<i>Storage Type</i>	<i>Units</i>	<i>Pumpable Or Spreadable Capacity</i>	<i>Manure On Hand At Start Of Plan</i>	<i>Notes</i>
Holding Pond	Earthen storage	Gal	4,340,000	2,021,000	
Pen Storage	Manure pack	Ton	32,000	32,000	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

ANIMALS

<i>Animal ID</i>	<i>Animal Type And Production Phase</i>	<i>Animal Weight (Lb)</i>	<i>Number Of Animals</i>	<i>Animals Present From</i>	<i>Animals Present Through</i>	<i>Manure Collected (%)</i>	<i>Extra Water (Gal/Animal/Day)</i>	<i>Bedding (Lb/Animal/Day)</i>	<i>Where Will Manure Be Stored?</i>	<i>Notes</i>
Shed	Finishing steer (beef)	1,000	4,500	Jan Early	Dec Late	100		10	Pen Storage	
Open Lots	Finishing steer (beef)	1,000	500	Jan Early	Dec Late	10			Holding Pond	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

ESTIMATED ANALYSIS

Storage ID	Esti- mated Total N	Est. NH ₄ -N	Est. Total P ₂ O ₅	Est. Total K ₂ O	Est. Max. Avail. N	Est. Avail. P ₂ O ₅	Est. Avail. K ₂ O	Analysis Units	Estimated Manure Production	Production Units
Holding Pond	27.2	7.3	15.1	23.0	13.3	15.1	23.0	Lb/1000Gal	230,000	Gal/Year
Pen Storage	7.9	2.9	4.4	6.7	4.2	4.4	6.7	Lb/Ton	70,902	Ton/Year

MEASURED ANALYSIS

Storage ID	Meas- ured Total N	Meas. NH ₄ -N	Meas. Total P ₂ O ₅	Meas. Total K ₂ O	Meas. Max. Avail. N	Meas. Avail. P ₂ O ₅	Meas. Avail. K ₂ O	Analysis Units	Meas. % Dry Matter	Measured Manure Production	Production Units	Source And Date Of Manure Analysis
Holding Pond	2.5	1.5	1.3	6.3	1.8	1.3	6.3	Lb/1000Gal		4,340,000	Gal/Year	MidWest Labs
Pen Storage	16.0	3.1	13.0	14.0	6.3	13.0	14.0	Lb/Ton		64,000	Ton/Year	MidWest Labs

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

EQUIPMENT

Equipment ID	Spreader Or Applicator Type	Spreader Or Pump Capacity	Capacity Units	Minimum Application Rate	Rate Units	Application Width Or Area	Rate Units	Notes
Liquid	Center pivot	2,000	Gal/Min	5,000	Gal/A	80	Acres	
Spreader #1	Solid spreader	10	Ton	1	Ton/A	30	Feet	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots
Plan File: MMP NWI 4-9-12.mmp
Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

County: Carroll
State: Illinois

Plan Saved: 4/12/2012
Init. File Rev: 10/19/2011
Soils File Rev: 8/29/2011

MANURE APPLICATIONS, Part 1

Application Date	Field Where Manure Will Be Applied	Source Of Manure	Application Equipment	Days To Incorp.	Rate (/Acre)	Rate Basis	Loads	Amount Applied	Area Covered (Acres)	Apply At Or For	Units
Oct 2009	Stoner Farm #1	Pen Storage	Spreader #1		12	2-year crop P needs	432	4,320	360	1,210	Feet/Load
Oct 2009	Stoner Farm #4	Pen Storage	Spreader #1		16.5	3-year crop P needs	99	990	60	880	Feet/Load
Oct 2009	Stoner Farm #5	Pen Storage	Spreader #1		12	2-year crop P needs	540	5,400	450	1,210	Feet/Load
Oct 2009	Byers Farm #1	Pen Storage	Spreader #1		16.5	3-year crop P needs	201.3	2,013	122	880	Feet/Load
Oct 2009	Jassen Farm #1	Pen Storage	Spreader #1		9.5	Custom rate	115	1,150	121.1	1,530	Feet/Load
Oct 2009	Schrader Frm #1	Pen Storage	Spreader #1		10.5	2-year crop P needs	152.3	1,523	145	1,380	Feet/Load
Oct 2009	Schrader Frm #2	Holding Pond	Liquid		18,000	Custom rate		1,269,000	70.5	634	Minutes
Oct 2009	Schrader Fm #2	Holding Pond	Liquid		18,000	Custom rate		1,114,300	61.9	557	Minutes
Oct 2009	Fink Frm #2	Pen Storage	Spreader #1		10.5	2-year crop P needs	110.3	1,103	105	1,380	Feet/Load
Oct 2009	Flikkema Frm#1	Pen Storage	Spreader #1		16.5	3-year crop P needs	313.5	3,135	190	880	Feet/Load
Oct 2009	Flikkema Frm #2	Pen Storage	Spreader #1		10.5	2-year crop P needs	252	2,520	240	1,380	Feet/Load
Oct 2009	Nerhkorn Frm #1	Pen Storage	Spreader #1		12	2-year crop P needs	104.4	1,044	87	1,210	Feet/Load
Oct 2009	Nerhkorn Frm #4	Pen Storage	Spreader #1		12	2-year crop P needs	156.8	1,568	130.7	1,210	Feet/Load
Oct 2009	Nerhkorn Frm #5	Pen Storage	Spreader #1		16.5	3-year crop P needs	115.5	1,155	70	880	Feet/Load
Oct 2009	Nerhkorn	Pen Storage	Spreader #1		12	2-year crop P needs	80.7	807	67.3	1,210	Feet/Load

Manure Management Plan Data

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Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Application Date	Field Where Manure Will Be Applied	Source Of Manure	Application Equipment	Days To Incorp.	Rate (/Acre)	Rate Basis	Loads	Amount Applied	Area Covered (Acres)	Apply At Or For	Units
Oct 2009	NehrkornKruse 3	Pen Storage	Spreader #1		12	2-year crop P needs	9.2	92	7.7	1,210	Feet/Load
Oct 2009	Nehrkorn Metz64	Pen Storage	Spreader #1		16.5	3-year crop P needs	254.6	2,546	154.3	880	Feet/Load
Oct 2009	NerhkornPluck N	Pen Storage	Spreader #1		10.5	2-year crop P needs	213.9	2,139	203.7	1,380	Feet/Load
Jun 2010	Schrader Frm #2	Holding Pond	Liquid		18,000	Custom rate		1,269,000	70.5	634	Minutes
Jun 2010	Schrader Fm #2	Holding Pond	Liquid		18,000	Custom rate		64,800	3.6	32	Minutes
Aug 2010	Schrader Frm #2	Holding Pond	Liquid		18,000	Custom rate		1,110,200	61.7	555	Minutes
Aug 2010	Schrader Fm #2	Holding Pond	Liquid		18,000	Custom rate		1,179,000	65.5	590	Minutes
Oct 2010	Byers Farm #2	Pen Storage	Spreader #1		10.5	Custom rate	57.8	578	55	1,380	Feet/Load
Oct 2010	Frederick Fm #2	Pen Storage	Spreader #1		10.5	Custom rate	73.5	735	70	1,380	Feet/Load
Oct 2010	Delp Farm #1	Pen Storage	Spreader #1		11	2-year crop P needs	118.7	1,187	107.9	1,320	Feet/Load
Oct 2010	Delp Farm # 2	Pen Storage	Spreader #1		9.2	Custom rate	9.2	92	10	1,580	Feet/Load
Oct 2010	Delp Farm #3	Pen Storage	Spreader #1		10.5	Custom rate	49	490	46.7	1,380	Feet/Load
Oct 2010	Nehrkorn Frm #2	Pen Storage	Spreader #1		18	3-year crop P needs	581.4	5,814	323	810	Feet/Load
Oct 2010	Nehrkorn Frm #3	Pen Storage	Spreader #1		10.5	Custom rate	49.4	494	47	1,380	Feet/Load
Oct 2010	NehrkornKruse 2	Pen Storage	Spreader #1		10.5	Custom rate	101.8	1,018	97	1,380	Feet/Load

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

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Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Application Date	Field Where Manure Will Be Applied	Source Of Manure	Application Equipment	Days To Incorp.	Rate (/Acre)	Rate Basis	Loads	Amount Applied	Area Covered (Acres)	Apply At Or For	Units
Oct 2010	Nehrkorn Rbsn	Pen Storage	Spreader #1		10.5	Custom rate	78.6	786	74.9	1,380	Feet/Load
Jun 2011	Fink Farm #1	Holding Pond	Liquid		18,000	Custom rate		2,484,000	138	1,242	Minutes
Aug 2011	Schrader Frm #2	Holding Pond	Liquid		18,000	Custom rate		684,600	38	342	Minutes
Aug 2011	Schrader Fm #2	Holding Pond	Liquid		18,000	Custom rate		1,179,000	65.5	590	Minutes
Oct 2011	Stoner Farm #1	Pen Storage	Spreader #1		6	1-year crop P needs	216	2,160	360	2,420	Feet/Load
Oct 2011	Stoner Farm #5	Pen Storage	Spreader #1		10.5	2-year crop P needs	472.5	4,725	450	1,380	Feet/Load
Oct 2011	Byers Farm #2	Pen Storage	Spreader #1		12	2-year crop P needs	66	660	55	1,210	Feet/Load
Oct 2011	Jassen Farm #1	Pen Storage	Spreader #1		5	1-year crop P needs	60.5	605	121	2,900	Feet/Load
Oct 2011	Frederick Fm #2	Pen Storage	Spreader #1		10.5	2-year crop P needs	73.5	735	70	1,380	Feet/Load
Oct 2011	Schrader Frm #1	Pen Storage	Spreader #1		12	2-year crop P needs	174	1,740	145	1,210	Feet/Load
Oct 2011	Delp Farm #3	Pen Storage	Spreader #1		6	1-year crop P needs	28	280	46.7	2,420	Feet/Load
Oct 2011	Fink Frm #2	Pen Storage	Spreader #1		6	1-year crop P needs	63	630	105	2,420	Feet/Load
Oct 2011	Flikkema Frm #2	Pen Storage	Spreader #1		12	2-year crop P needs	288	2,880	240	1,210	Feet/Load
Oct 2011	Nerhkorn Frm #1	Pen Storage	Spreader #1		6	1-year crop P needs	52.2	522	87	2,420	Feet/Load
Oct 2011	Nehrkorn Frm #3	Pen Storage	Spreader #1		12	2-year crop P needs	56.4	564	47	1,210	Feet/Load

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

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Application Date	Field Where Manure Will Be Applied	Source Of Manure	Application Equipment	Days To Incorp.	Rate (/Acre)	Rate Basis	Loads	Amount Applied	Area Covered (Acres)	Apply At Or For	Units
Oct 2011	Nehrkorn Frm #4	Pen Storage	Spreader #1		10.5	2-year crop P needs	137.2	1,372	130.7	1,380	Feet/Load
Oct 2011	Nehrkorn	Pen Storage	Spreader #1		6	1-year crop P needs	40.4	404	67.3	2,420	Feet/Load
Oct 2011	NehrkornKruse 2	Pen Storage	Spreader #1		12	2-year crop P needs	116.3	1,163	96.9	1,210	Feet/Load
Oct 2011	NehrkornKruse 3	Pen Storage	Spreader #1		6	1-year crop P needs	4.6	46	7.7	2,420	Feet/Load
Oct 2011	Nehrkorn Rbsn	Pen Storage	Spreader #1		12	2-year crop P needs	89.8	898	74.8	1,210	Feet/Load
Oct 2011	NerhkornPluck N	Pen Storage	Spreader #1		12	2-year crop P needs	244.5	2,445	203.8	1,210	Feet/Load
Jun 2012	Fink Farm #1	Holding Pond	Liquid		18,000	Custom rate		2,484,000	138	1,242	Minutes
Aug 2012	Fink Farm #1	Holding Pond	Liquid		18,000	Custom rate		1,863,600	103.5	932	Minutes
Oct 2012	Stoner Farm #1	Pen Storage	Spreader #1		10.5	2-year crop P needs	378	3,780	360	1,380	Feet/Load
Oct 2012	Stoner Farm #4	Pen Storage	Spreader #1		12	2-year crop P needs	72	720	60	1,210	Feet/Load
Oct 2012	Byers Farm #1	Pen Storage	Spreader #1		12	2-year crop P needs	146.5	1,465	122.1	1,210	Feet/Load
Oct 2012	Jassen Farm #1	Pen Storage	Spreader #1		9.5	Custom rate	115	1,150	121.1	1,530	Feet/Load
Oct 2012	Delp Farm #1	Pen Storage	Spreader #1		4.5	1-year crop P needs	48.6	486	108	3,230	Feet/Load
Oct 2012	Delp Farm # 2	Pen Storage	Spreader #1		9.5	2-year crop P needs	9.5	95	10	1,530	Feet/Load
Oct 2012	Delp Farm #3	Pen Storage	Spreader #1		10.5	2-year crop P needs	49	490	46.7	1,380	Feet/Load

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

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Plan File: MMP NWI 4-9-12.mmp

State: Illinois

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Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Application Date	Field Where Manure Will Be Applied	Source Of Manure	Application Equipment	Days To Incorp.	Rate (/Acre)	Rate Basis	Loads	Amount Applied	Area Covered (Acres)	Apply At Or For	Units
Oct 2012	Fink Frm #2	Pen Storage	Spreader #1		10.5	2-year crop P needs	110.3	1,103	105	1,380	Feet/Load
Oct 2012	Flikkema Frm#1	Pen Storage	Spreader #1		12	2-year crop P needs	228	2,280	190	1,210	Feet/Load
Oct 2012	Nerhkorn Frm #1	Pen Storage	Spreader #1		10.5	2-year crop P needs	91.4	914	87	1,380	Feet/Load
Oct 2012	Nehrkorn Frm #5	Pen Storage	Spreader #1		12	2-year crop P needs	84	840	70	1,210	Feet/Load
Oct 2012	Nehrkorn	Pen Storage	Spreader #1		10.5	2-year crop P needs	70.6	706	67.2	1,380	Feet/Load
Oct 2012	NehrkornKruse 3	Pen Storage	Spreader #1		10.5	2-year crop P needs	8	80	7.6	1,380	Feet/Load
Oct 2012	Nehrkorn Metz64	Pen Storage	Spreader #1		12	2-year crop P needs	185.2	1,852	154.3	1,210	Feet/Load
Jun 2013	Schrader Frm #2	Holding Pond	Liquid		18,000	Custom rate		1,269,000	70.5	634	Minutes
Jun 2013	Schrader Fm #2	Holding Pond	Liquid		18,000	Custom rate		1,179,000	65.5	590	Minutes
Jul 2013	Schrader Frm #2	Holding Pond	Liquid		18,000	Custom rate		1,269,000	70.5	634	Minutes
Aug 2013	Schrader Fm #2	Holding Pond	Liquid		18,000	Custom rate		630,600	35	315	Minutes
Sep 2013	Flikkema Frm #2	Pen Storage	Spreader #1		10.5	2-year crop P needs	252	2,520	240	1,380	Feet/Load
Sep 2013	Nehrkorn Frm #2	Pen Storage	Spreader #1		10.5	2-year crop P needs	339.2	3,392	323	1,380	Feet/Load
Sep 2013	Nehrkorn Frm #3	Pen Storage	Spreader #1		10.5	2-year crop P needs	49.4	494	47	1,380	Feet/Load
Sep 2013	Nehrkorn Frm #4	Pen Storage	Spreader #1		12	2-year crop P needs	156.8	1,568	130.7	1,210	Feet/Load

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

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Application Date	Field Where Manure Will Be Applied	Source Of Manure	Application Equipment	Days To Incorp.	Rate (/Acre)	Rate Basis	Loads	Amount Applied	Area Covered (Acres)	Apply At Or For	Units
Sep 2013	NehrkornKruse 2	Pen Storage	Spreader #1		10.5	2-year crop P needs	101.8	1,018	97	1,380	Feet/Load
Sep 2013	Nehrkorn Rbsn	Pen Storage	Spreader #1		6	1-year crop P needs	44.9	449	74.8	2,420	Feet/Load
Sep 2013	NerhkornPluck N	Pen Storage	Spreader #1		6	1-year crop P needs	122.3	1,223	203.8	2,420	Feet/Load
Oct 2013	Stoner Farm #5	Pen Storage	Spreader #1		18	3-year crop P needs	810	8,100	450	810	Feet/Load
Oct 2013	Byers Farm #2	Pen Storage	Spreader #1		10.5	2-year crop P needs	57.8	578	55	1,380	Feet/Load
Oct 2013	Frederick Fm #2	Pen Storage	Spreader #1		6	1-year crop P needs	42	420	70	2,420	Feet/Load
Oct 2013	Schrader Frm #1	Pen Storage	Spreader #1		10.5	2-year crop P needs	152.3	1,523	145	1,380	Feet/Load
Oct 2013	Delp Farm #1	Pen Storage	Spreader #1		11	2-year crop P needs	118.7	1,187	107.9	1,320	Feet/Load
Jun 2014	Fink Farm #1	Holding Pond	Liquid		18,000	Custom rate		2,484,000	138	1,242	Minutes
Jul 2014	Schrader Fm #2	Holding Pond	Liquid		18,000	Custom rate		1,179,000	65.5	590	Minutes
Aug 2014	Schrader Frm #2	Holding Pond	Liquid		18,000	Custom rate		684,600	38	342	Minutes
Oct 2014	Stoner Farm #1	Pen Storage	Spreader #1		12	2-year crop P needs	432	4,320	360	1,210	Feet/Load
Oct 2014	Stoner Farm #4	Pen Storage	Spreader #1		12	2-year crop P needs	72	720	60	1,210	Feet/Load
Oct 2014	Byers Farm #1	Pen Storage	Spreader #1		12	2-year crop P needs	146.5	1,465	122.1	1,210	Feet/Load
Oct 2014	Jassen Farm #1	Pen Storage	Spreader #1		4	Custom rate	48.4	484	121	3,630	Feet/Load

Manure Management Plan Data

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Application Date	Field Where Manure Will Be Applied	Source Of Manure	Application Equipment	Days To Incorp.	Rate (/Acre)	Rate Basis	Loads	Amount Applied	Area Covered (Acres)	Apply At Or For	Units
Oct 2014	Frederick Fm #2	Pen Storage	Spreader #1		10.5	2-year crop P needs	73.5	735	70	1,380	Feet/Load
Oct 2014	Delp Farm # 2	Pen Storage	Spreader #1		9.5	2-year crop P needs	9.5	95	10	1,530	Feet/Load
Oct 2014	Delp Farm #3	Pen Storage	Spreader #1		12	2-year crop P needs	56	560	46.7	1,210	Feet/Load
Oct 2014	Fink Fm #2	Pen Storage	Spreader #1		12	2-year crop P needs	126	1,260	105	1,210	Feet/Load
Oct 2014	Flikkema Fm#1	Pen Storage	Spreader #1		10.5	2-year crop P needs	199.5	1,995	190	1,380	Feet/Load
Oct 2014	Nerhkorn Fm #1	Pen Storage	Spreader #1		12	2-year crop P needs	104.4	1,044	87	1,210	Feet/Load
Oct 2014	Nerhkorn Fm #5	Pen Storage	Spreader #1		12	2-year crop P needs	84	840	70	1,210	Feet/Load
Oct 2014	Nerhkorn	Pen Storage	Spreader #1		12	2-year crop P needs	80.7	807	67.3	1,210	Feet/Load
Oct 2014	NerhkornKruse 3	Pen Storage	Spreader #1		12	2-year crop P needs	9.2	92	7.7	1,210	Feet/Load
Oct 2014	Nerhkorn Metz64	Pen Storage	Spreader #1		12	2-year crop P needs	185.2	1,852	154.3	1,210	Feet/Load
Oct 2014	Nerhkorn Rbsn	Pen Storage	Spreader #1		10.5	2-year crop P needs	78.6	786	74.9	1,380	Feet/Load
Oct 2014	NerhkornPluck N	Pen Storage	Spreader #1		18	2-year crop P needs	366.7	3,667	203.7	810	Feet/Load
Jun 2015	Fink Farm #1	Holding Pond	Liquid		18,000	Custom rate		2,484,000	138	1,242	Minutes
Aug 2015	Fink Farm #1	Holding Pond	Liquid		18,000	Custom rate		1,863,600	103.5	932	Minutes
Oct 2015	Byers Farm #2	Pen Storage	Spreader #1		6	1-year crop P needs	33	330	55	2,420	Feet/Load

Manure Management Plan Data

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County: Carroll

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Soils File Rev: 8/29/2011

Application Date	Field Where Manure Will Be Applied	Source Of Manure	Application Equipment	Days To Incorporate	Rate (/Acre)	Rate Basis	Loads	Amount Applied	Area Covered (Acres)	Apply At Or For	Units
Oct 2015	Jassen Farm #1	Pen Storage	Spreader #1		6	1-year crop P needs	72.7	727	121.2	2,420	Feet/Load
Oct 2015	Schrader Frm #1	Pen Storage	Spreader #1		6	1-year crop P needs	87	870	145	2,420	Feet/Load
Oct 2015	Delp Farm #1	Pen Storage	Spreader #1		4.5	1-year crop P needs	48.6	486	108	3,230	Feet/Load
Oct 2015	Flikkema Frm #2	Pen Storage	Spreader #1		6	1-year crop P needs	144	1,440	240	2,420	Feet/Load
Oct 2015	Nehrkorn Frm #2	Pen Storage	Spreader #1		6	1-year crop P needs	193.8	1,938	323	2,420	Feet/Load
Oct 2015	Nehrkorn Frm #3	Pen Storage	Spreader #1		6	1-year crop P needs	28.2	282	47	2,420	Feet/Load
Oct 2015	Nehrkorn Frm #4	Pen Storage	Spreader #1		6	1-year crop P needs	78.4	784	130.7	2,420	Feet/Load
Oct 2015	NehrkornKruse 2	Pen Storage	Spreader #1		6	1-year crop P needs	58.2	582	97	2,420	Feet/Load
Jun 2016	Schrader Fm #2	Holding Pond	Liquid		18,000	Custom rate		1,179,000	65.5	590	Minutes
Jul 2016	Schrader Frm #2	Holding Pond	Liquid		18,000	Custom rate		1,269,000	70.5	634	Minutes
Aug 2016	Schrader Frm #2	Holding Pond	Liquid		18,000	Custom rate		720,600	40	360	Minutes
Aug 2016	Schrader Fm #2	Holding Pond	Liquid		18,000	Custom rate		1,179,000	65.5	590	Minutes

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

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Plan File: MMP NWI 4-9-12.mmp

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Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

MANURE APPLICATIONS, Part 2

Application Date	Field Where Manure Will Be Applied	Avail. N (Lb/A)	N Balance (Lb/A)	Avail. P ₂ O ₅ (Lb/A)	P ₂ O ₅ Balance (Lb/A)	Avail. K ₂ O (Lb/A)	K ₂ O Balance (Lb/A)	Notes
Oct 2009	Stoner Farm #1	67	-103	156	79	168	118	
Oct 2009	Stoner Farm #4	92	-108	215	138	231	181	
Oct 2009	Stoner Farm #5	67	-103	156	79	168	118	
Oct 2009	Byers Farm #1	92	-108	215	138	231	181	
Oct 2009	Jassen Farm #1	53	-147	124	47	133	83	
Oct 2009	Schrader Frm #1	59	-111	137	60	147	97	
Oct 2009	Schrader Frm #2	25	-175	23	-54	113	63	
Oct 2009	Schrader Fm #2	25	-145	23	-54	113	63	
Oct 2009	Fink Frm #2	59	-111	137	60	147	97	
Oct 2009	Flikkema Frm#1	92	-108	215	138	231	181	
Oct 2009	Flikkema Frm #2	59	-111	137	60	147	97	
Oct 2009	Nerhkorn Frm #1	67	-133	156	79	168	118	
Oct 2009	Nehr Korn Frm #4	67	-133	156	79	168	118	
Oct 2009	Nehr Korn Frm #5	92	-108	215	138	231	181	
Oct 2009	Nehr Korn	67	-133	156	79	168	118	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

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Application Date	Field Where Manure Will Be Applied	Avail. N (Lb/A)	N Balance (Lb/A)	Avail. P ₂ O ₅ (Lb/A)	P ₂ O ₅ Balance (Lb/A)	Avail. K ₂ O (Lb/A)	K ₂ O Balance (Lb/A)	Notes
Oct 2009	NehrkornKruse 3	67	-133	156	79	168	118	
Oct 2009	Nehrkorn Metz64	92	-78	215	138	231	181	
Oct 2009	NerhkornPluck N	59	-141	137	60	147	97	
Jun 2010	Schrader Frm #2	25	-175	23	-54	113	63	
Jun 2010	Schrader Fm #2	25	-145	23	-54	113	63	
Aug 2010	Schrader Frm #2	25	-175	23	-54	113	63	
Aug 2010	Schrader Fm #2	25	-145	23	-54	113	63	
Oct 2010	Byers Farm #2	59	-141	137	60	147	97	
Oct 2010	Frederick Fm #2	59	-111	137	60	147	97	
Oct 2010	Delp Farm #1	62	-58	143	78	154	124	
Oct 2010	Delp Farm # 2	52	-68	120	55	129	99	
Oct 2010	Delp Farm #3	59	-111	137	60	147	97	
Oct 2010	Nehrkorn Frm #2	101	-69	234	157	252	202	
Oct 2010	Nehrkorn Frm #3	59	-111	137	60	147	97	
Oct 2010	NehrkornKruse 2	59	-111	137	60	147	97	

Manure Management Plan Data

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Application Date	Field Where Manure Will Be Applied	Avail. N (Lb/A)	N Balance (Lb/A)	Avail. P ₂ O ₅ (Lb/A)	P ₂ O ₅ Balance (Lb/A)	Avail. K ₂ O (Lb/A)	K ₂ O Balance (Lb/A)	Notes
Oct 2010	Nehrkorn Rbsn	59	-111	137	60	147	97	
Jun 2011	Fink Farm #1	25	-145	23	-54	113	63	
Aug 2011	Schrader Frm #2	25	-163	23	-54	113	63	
Aug 2011	Schrader Fm #2	25	-167	23	-54	113	63	
Oct 2011	Stoner Farm #1	34	-156	78	1	84	34	
Oct 2011	Stoner Farm #5	59	-131	137	60	147	97	
Oct 2011	Byers Farm #2	67	-116	156	79	168	118	
Oct 2011	Jassen Farm #1	28	-84	65	0	70	40	
Oct 2011	Frederick Fm #2	59	-124	137	60	147	97	
Oct 2011	Schrader Frm #1	67	-95	156	79	168	118	
Oct 2011	Delp Farm #3	34	-149	78	1	84	34	
Oct 2011	Fink Frm #2	34	-128	78	1	84	34	
Oct 2011	Flikkema Frm #2	67	-105	156	79	168	118	
Oct 2011	Nerhkorn Frm #1	34	-156	78	1	84	34	
Oct 2011	Nehrkorn Frm #3	67	-115	156	79	168	118	

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Application Date	Field Where Manure Will Be Applied	Avail. N (Lb/A)	N Balance (Lb/A)	Avail. P ₂ O ₅ (Lb/A)	P ₂ O ₅ Balance (Lb/A)	Avail. K ₂ O (Lb/A)	K ₂ O Balance (Lb/A)	Notes
Oct 2011	Nehrkorn Frm #4	59	-130	137	60	147	97	
Oct 2011	Nehrkorn	34	-156	78	1	84	34	
Oct 2011	NehrkornKruse 2	67	-116	156	79	168	118	
Oct 2011	NehrkornKruse 3	34	-156	78	1	84	34	
Oct 2011	Nehrkorn Rbsn	67	-116	156	79	168	118	
Oct 2011	NerhkornPluck N	67	-95	156	79	168	118	
Jun 2012	Fink Farm #1	25	-171	23	-54	113	63	
Aug 2012	Fink Farm #1	25	-171	23	-54	113	63	
Oct 2012	Stoner Farm #1	59	-126	137	60	147	97	
Oct 2012	Stoner Farm #4	67	-96	156	79	168	118	
Oct 2012	Byers Farm #1	67	-96	156	79	168	118	
Oct 2012	Jassen Farm #1	53	-135	124	59	133	83	
Oct 2012	Delp Farm #1	25	0	59	4	63	-22	
Oct 2012	Delp Farm # 2	53	-60	124	59	133	103	
Oct 2012	Delp Farm #3	59	-123	137	60	147	97	

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Application Date	Field Where Manure Will Be Applied	Avail. N (Lb/A)	N Balance (Lb/A)	Avail. P ₂ O ₅ (Lb/A)	P ₂ O ₅ Balance (Lb/A)	Avail. K ₂ O (Lb/A)	K ₂ O Balance (Lb/A)	Notes
Oct 2012	Fink Frm #2	59	-127	137	60	147	97	
Oct 2012	Flikkema Frm#1	67	-96	156	79	168	118	
Oct 2012	Nerhkorn Frm #1	59	-126	137	60	147	97	
Oct 2012	Nehrkorn Frm #5	67	-96	156	79	168	118	
Oct 2012	Nehrkorn	59	-126	137	60	147	97	
Oct 2012	NehrkornKruse 3	59	-126	137	60	147	97	
Oct 2012	Nehrkorn Metz64	67	-96	156	79	168	118	
Jun 2013	Schrader Frm #2	25	-144	23	-54	113	63	
Jun 2013	Schrader Fm #2	25	-143	23	-54	113	63	
Jul 2013	Schrader Frm #2	25	-144	23	-54	113	63	
Aug 2013	Schrader Fm #2	25	-143	23	-54	113	63	
Sep 2013	Flikkema Frm #2	59	-131	137	60	147	97	
Sep 2013	Nehrkorn Frm #2	59	-134	137	60	147	97	
Sep 2013	Nehrkorn Frm #3	59	-127	137	60	147	97	
Sep 2013	Nehrkorn Frm #4	67	-95	156	79	168	118	

Manure Management Plan Data

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Application Date	Field Where Manure Will Be Applied	Avail. N (Lb/A)	N Balance (Lb/A)	Avail. P ₂ O ₅ (Lb/A)	P ₂ O ₅ Balance (Lb/A)	Avail. K ₂ O (Lb/A)	K ₂ O Balance (Lb/A)	Notes
Sep 2013	NehrkornKruse 2	59	-127	137	60	147	97	
Sep 2013	Nehrkorn Rbsn	34	-152	78	1	84	34	
Sep 2013	NerhkornPluck N	34	-156	78	1	84	34	
Oct 2013	Stoner Farm #5	101	-61	234	157	252	202	
Oct 2013	Byers Farm #2	59	-127	137	60	147	97	
Oct 2013	Frederick Fm #2	34	-124	78	1	84	34	
Oct 2013	Schrader Frm #1	59	-131	137	60	147	97	
Oct 2013	Delp Farm #1	62	-47	143	78	154	124	
Jun 2014	Fink Farm #1	25	-141	23	-54	113	63	
Jul 2014	Schrader Fm #2	25	-169	23	-54	113	63	
Aug 2014	Schrader Frm #2	25	-167	23	-54	113	63	
Oct 2014	Stoner Farm #1	67	-93	156	79	168	118	
Oct 2014	Stoner Farm #4	67	-122	156	79	168	118	
Oct 2014	Byers Farm #1	67	-123	156	79	168	83	
Oct 2014	Jassen Farm #1	22	-88	52	-13	56	26	

Manure Management Plan Data

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Application Date	Field Where Manure Will Be Applied	Avail. N (Lb/A)	N Balance (Lb/A)	Avail. P ₂ O ₅ (Lb/A)	P ₂ O ₅ Balance (Lb/A)	Avail. K ₂ O (Lb/A)	K ₂ O Balance (Lb/A)	Notes
Oct 2014	Frederick Fm #2	59	-127	137	60	147	97	
Oct 2014	Delp Farm # 2	53	-59	124	59	133	103	
Oct 2014	Delp Farm #3	67	-93	156	79	168	118	
Oct 2014	Fink Fm #2	67	-93	156	79	168	118	
Oct 2014	Flikkema Fm#1	59	-131	137	60	147	97	
Oct 2014	Nerhkorn Fm #1	67	-93	156	79	168	118	
Oct 2014	Nehrkorn Fm #5	67	-123	156	79	168	118	
Oct 2014	Nehrkorn	67	-93	156	79	168	118	
Oct 2014	NehrkornKruse 3	67	-93	156	79	168	118	
Oct 2014	Nehrkorn Metz64	67	-123	156	79	168	118	
Oct 2014	Nehrkorn Rbsn	59	0	137	82	147	62	
Oct 2014	NerhkornPluck N	101	-84	234	157	252	202	
Jun 2015	Fink Farm #1	25	-171	23	-54	113	63	
Aug 2015	Fink Farm #1	25	-171	23	-54	113	63	
Oct 2015	Byers Farm #2	34	-128	78	1	84	34	

Manure Management Plan Data

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Application Date	Field Where Manure Will Be Applied	Avail. N (Lb/A)	N Balance (Lb/A)	Avail. P ₂ O ₅ (Lb/A)	P ₂ O ₅ Balance (Lb/A)	Avail. K ₂ O (Lb/A)	K ₂ O Balance (Lb/A)	Notes
Oct 2015	Jassen Farm #1	34	-156	78	1	84	34	
Oct 2015	Schrader Frm #1	34	-128	78	1	84	34	
Oct 2015	Delp Farm #1	25	0	59	4	63	-22	
Oct 2015	Flikkema Frm #2	34	-128	78	1	84	34	
Oct 2015	Nehrkorn Frm #2	34	-128	78	1	84	34	
Oct 2015	Nehrkorn Frm #3	34	-128	78	1	84	34	
Oct 2015	Nehrkorn Frm #4	34	-155	78	1	84	34	
Oct 2015	NehrkornKruse 2	34	-128	78	1	84	34	
Jun 2016	Schrader Fm #2	25	-148	23	-32	113	28	
Jul 2016	Schrader Frm #2	25	-149	23	-32	113	28	
Aug 2016	Schrader Frm #2	25	-149	23	-32	113	28	
Aug 2016	Schrader Fm #2	25	-148	23	-32	113	28	

Manure Management Plan Data

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Plan File: MMP NWI 4-9-12.mmp

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Soils File Rev: 8/29/2011

MANURE TRANSFERS

Transfer Date	Storage ID	Transfer Type	Amount	Units	Operation	Location	Imported Manure's Animal Type	Internal Transfer's Destination	Notes
Mar 2010	Pen Storage	Export To	32,000	Ton	offsite	broker			
Dec 2010	Pen Storage	Export To	30,000	Ton	offsite transfer	neighbors			
Apr 2011	Pen Storage	Export To	23,000	Ton	offsite transfer	neighbor			
Feb 2012	Pen Storage	Export To	37,000	Ton	offsite	broker			
Apr 2012	Pen Storage	Export To	10,800	Ton	offsite transfer	Neighbor			
Nov 2012	Pen Storage	Export To	20,000	Ton	offsite transfer	Neighbor			
Apr 2013	Pen Storage	Export To	26,600	Ton	offsite transfer	Neighbor			
Feb 2014	Pen Storage	Export To	31,000	Ton	offsite transfer	Neighbor			
May 2014	Pen Storage	Export To	16,000	Ton	offsite transfer	Neighbor			
Mar 2015	Pen Storage	Export To	28,000	Ton	offsite transfer	Neighbor			
May 2015	Pen Storage	Export To	10,000	Ton	offsite transfer	Neighbor			
Nov 2015	Pen Storage	Export To	27,000	Ton	ofsite transfer	Neighbor			
May 2016	Pen Storage	Export To	26,000	Ton	offsite transfer	Neighbor			

Manure Management Plan Data

Operation: Northwest Illini Feed Lots
Plan File: MMP NWI 4-9-12.mmp
Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

County: Carroll
State: Illinois

Plan Saved: 4/12/2012
Init. File Rev: 10/19/2011
Soils File Rev: 8/29/2011

FERTILIZER APPLICATIONS

Application Date	Field Where Fertilizer Will Be Applied	Nutrient Source	Rate	Units	Rate Basis	Application Method	Area Covered (Acres)	N Applied (Lb/A)	P ₂ O ₅ Applied (Lb/A)	K ₂ O Applied (Lb/A)	Notes
Oct 2009	Stoner Farm #1	0-44-0	175	Lb/A	2-yr P	Surface broadcast	27	0	77	0	
Oct 2009	Stoner Farm #1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	27	0	0	50	
Oct 2009	Stoner Farm #1	82-0-0	126	Lb/A	1-yr N	Inject	360	103	0	0	
Oct 2009	Stoner Farm #1	82-0-0	207	Lb/A	1-yr N	Inject	27	170	0	0	
Oct 2009	Stoner Farm #4	82-0-0	132	Lb/A	1-yr N	Inject	60	108	0	0	
Oct 2009	Stoner Farm #5	82-0-0	207	Lb/A	1-yr N	Inject	47	170	0	0	
Oct 2009	Stoner Farm #5	82-0-0	126	Lb/A	1-yr N	Inject	450	103	0	0	
Oct 2009	Stoner Farm #5	0-0-60	83	Lb/A	2-yr K	Surface broadcast	47	0	0	50	
Oct 2009	Stoner Farm #5	0-44-0	175	Lb/A	2-yr P	Surface broadcast	47	0	77	0	
Oct 2009	Byers Farm #1	82-0-0	132	Lb/A	1-yr N	Inject	122	108	0	0	
Oct 2009	Byers Farm #1	0-0-60	308	Lb/A	3-yr K	Surface broadcast	5	0	0	185	
Oct 2009	Byers Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	5	200	0	0	
Oct 2009	Byers Farm #1	0-44-0	350	Lb/A	3-yr P	Surface broadcast	5	0	154	0	
Oct 2009	Jassen Farm #1	0-0-60	275	Lb/A	3-yr K	Surface broadcast	4	0	0	165	
Oct 2009	Jassen Farm #1	82-0-0	172	Lb/A	1-yr N	Inject	121	141	0	0	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

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Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Application Date	Field Where Fertilizer Will Be Applied	Nutrient Source	Rate	Units	Rate Basis	Application Method	Area Covered (Acres)	N Applied (Lb/A)	P ₂ O ₅ Applied (Lb/A)	K ₂ O Applied (Lb/A)	Notes
Oct 2009	Jassen Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	4	200	0	0	
Oct 2009	Jassen Farm #1	0-44-0	300	Lb/A	2-yr P	Surface broadcast	4	0	132	0	
Oct 2009	Schrader Frm #1	0-0-60	225	Lb/A	2-yr K	Surface broadcast	15	0	0	135	
Oct 2009	Schrader Frm #1	0-44-0	300	Lb/A	2-yr P	Surface broadcast	15	0	132	0	
Oct 2009	Schrader Frm #1	82-0-0	135	Lb/A	1-yr N	Inject	145	111	0	0	
Oct 2009	Schrader Frm #1	82-0-0	207	Lb/A	1-yr N	Inject	15	170	0	0	
Oct 2009	Schrader Frm #2	0-0-60	83	Lb/A	2-yr K	Surface broadcast	7	0	0	50	
Oct 2009	Schrader Frm #2	82-0-0	244	Lb/A	1-yr N	Inject	7	200	0	0	
Oct 2009	Schrader Frm #2	0-44-0	225	Lb/A	2-yr P	Surface broadcast	7	0	99	0	
Oct 2009	Schrader Frm #2	82-0-0	101	Lb/A	1-yr N	Inject	70.5	83	0	0	
Oct 2009	Schrader Fm #2	0-44-0	225	Lb/A	2-yr P	Surface broadcast	7	0	99	0	
Oct 2009	Schrader Fm #2	82-0-0	207	Lb/A	1-yr N	Inject	7	170	0	0	
Oct 2009	Schrader Fm #2	0-0-60	83	Lb/A	2-yr K	Surface broadcast	7	0	0	50	
Oct 2009	Schrader Fm #2	82-0-0	65	Lb/A	1-yr N	Inject	65.5	53	0	0	
Oct 2009	Fink Frm #2	0-0-60	225	Lb/A	2-yr K	Surface broadcast	15	0	0	135	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

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Application Date	Field Where Fertilizer Will Be Applied	Nutrient Source	Rate	Units	Rate Basis	Application Method	Area Covered (Acres)	N Applied (Lb/A)	P ₂ O ₅ Applied (Lb/A)	K ₂ O Applied (Lb/A)	Notes
Oct 2009	Fink Frm #2	82-0-0	135	Lb/A	1-yr N	Inject	105	111	0	0	
Oct 2009	Fink Frm #2	82-0-0	207	Lb/A	1-yr N	Inject	15	170	0	0	
Oct 2009	Fink Frm #2	0-44-0	300	Lb/A	2-yr P	Surface broadcast	15	0	132	0	
Oct 2009	Flikkema Frm#1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	13	0	0	50	
Oct 2009	Flikkema Frm#1	82-0-0	132	Lb/A	1-yr N	Inject	187	108	0	0	
Oct 2009	Flikkema Frm#1	82-0-0	244	Lb/A	1-yr N	Inject	13	200	0	0	
Oct 2009	Flikkema Frm#1	0-44-0	350	Lb/A	2-yr P	Surface broadcast	13	0	154	0	
Oct 2009	Flikkema Frm #2	82-0-0	135	Lb/A	1-yr N	Inject	240	111	0	0	
Oct 2009	Nerhkorn Frm #1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	5.8	0	0	50	
Oct 2009	Nerhkorn Frm #1	82-0-0	162	Lb/A	1-yr N	Inject	87	133	0	0	
Oct 2009	Nerhkorn Frm #1	82-0-0	244	Lb/A	1-yr N	Inject	5.8	200	0	0	
Oct 2009	Nerhkorn Frm #1	0-44-0	175	Lb/A	2-yr P	Surface broadcast	5.8	0	77	0	
Oct 2009	Nerhkorn Frm #4	82-0-0	162	Lb/A	1-yr N	Inject	130.6	133	0	0	
Oct 2009	Nerhkorn Frm #5	0-0-60	83	Lb/A	2-yr K	Surface broadcast	4	0	0	50	
Oct 2009	Nerhkorn Frm #5	82-0-0	132	Lb/A	1-yr N	Inject	70	108	0	0	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

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Application Date	Field Where Fertilizer Will Be Applied	Nutrient Source	Rate	Units	Rate Basis	Application Method	Area Covered (Acres)	N Applied (Lb/A)	P ₂ O ₅ Applied (Lb/A)	K ₂ O Applied (Lb/A)	Notes
Oct 2009	Nehrkorn Frm #5	82-0-0	244	Lb/A	1-yr N	Inject	4	200	0	0	
Oct 2009	Nehrkorn Frm #5	0-44-0	175	Lb/A	2-yr P	Surface broadcast	4	0	77	0	
Oct 2009	Nehrkorn	82-0-0	162	Lb/A	1-yr N	Inject	67.2	133	0	0	
Oct 2009	NehrkornKruse 3	0-44-0	175	Lb/A	2-yr P	Surface broadcast	48.8	0	77	0	
Oct 2009	NehrkornKruse 3	82-0-0	161	Lb/A	1-yr N	Surface band/incorporate	7.6	132	0	0	
Oct 2009	NehrkornKruse 3	0-0-60	83	Lb/A	2-yr K	Surface broadcast	48.8	0	0	50	
Oct 2009	NehrkornKruse 3	82-0-0	244	Lb/A	1-yr N	Inject	48.8	200	0	0	
Oct 2009	NehrkornKruse 1	0-0-60	225	Lb/A	2-yr K	Surface broadcast	16.5	0	0	135	
Oct 2009	NehrkornKruse 1	82-0-0	244	Lb/A	1-yr N	Inject	16.5	200	0	0	
Oct 2009	NehrkornKruse 1	0-44-0	300	Lb/A	2-yr P	Surface broadcast	16.5	0	132	0	
Oct 2009	Nehrkorn Metz64	82-0-0	95	Lb/A	1-yr N	Inject	154.3	78	0	0	
Oct 2009	NerhkornPluck N	0-0-60	225	Lb/A	2-yr K	Surface broadcast	7.2	0	0	135	
Oct 2009	NerhkornPluck N	82-0-0	172	Lb/A	1-yr N	Inject	201.5	141	0	0	
Oct 2009	NerhkornPluck N	82-0-0	244	Lb/A	1-yr N	Inject	7.2	200	0	0	
Oct 2009	NerhkornPluck N	0-44-0	300	Lb/A	2-yr P	Surface broadcast	7.2	0	132	0	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

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Application Date	Field Where Fertilizer Will Be Applied	Nutrient Source	Rate	Units	Rate Basis	Application Method	Area Covered (Acres)	N Applied (Lb/A)	P ₂ O ₅ Applied (Lb/A)	K ₂ O Applied (Lb/A)	Notes
Oct 2010	Stoner Farm #1	0-44-0	175	Lb/A	2-yr P	Surface broadcast	27	0	77	0	
Oct 2010	Stoner Farm #1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	27	0	0	50	
Oct 2010	Stoner Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	27	200	0	0	
Oct 2010	Stoner Farm #1	82-0-0	221	Lb/A	1-yr N	Inject	360	181	0	0	
Oct 2010	Stoner Farm #4	82-0-0	175	Lb/A	1-yr N	Inject	60	144	0	0	
Oct 2010	Stoner Farm #5	82-0-0	244	Lb/A	1-yr N	Inject	47	200	0	0	
Oct 2010	Stoner Farm #5	0-44-0	225	Lb/A	2-yr P	Surface broadcast	47	0	99	0	
Oct 2010	Stoner Farm #5	82-0-0	221	Lb/A	1-yr N	Inject	450	181	0	0	
Oct 2010	Stoner Farm #5	0-0-60	83	Lb/A	2-yr K	Surface broadcast	47	0	0	50	
Oct 2010	Byers Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	5	200	0	0	
Oct 2010	Byers Farm #1	0-44-0	125	Lb/A	2-yr P	Surface broadcast	5	0	55	0	
Oct 2010	Byers Farm #1	82-0-0	212	Lb/A	1-yr N	Inject	122	174	0	0	
Oct 2010	Byers Farm #2	82-0-0	172	Lb/A	1-yr N	Inject	55	141	0	0	
Oct 2010	Byers Farm #2	82-0-0	244	Lb/A	1-yr N	Inject	5	200	0	0	
Oct 2010	Byers Farm #2	0-44-0	175	Lb/A	2-yr P	Surface broadcast	5	0	77	0	

Manure Management Plan Data

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Application Date	Field Where Fertilizer Will Be Applied	Nutrient Source	Rate	Units	Rate Basis	Application Method	Area Covered (Acres)	N Applied (Lb/A)	P ₂ O ₅ Applied (Lb/A)	K ₂ O Applied (Lb/A)	Notes
Oct 2010	Byers Farm #2	0-0-60	83	Lb/A	2-yr K	Surface broadcast	5	0	0	50	
Oct 2010	Frederick Fm #2	82-0-0	207	Lb/A	1-yr N	Inject	10	170	0	0	
Oct 2010	Frederick Fm #2	82-0-0	135	Lb/A	1-yr N	Inject	70	111	0	0	
Oct 2010	Frederick Fm #2	0-44-0	350	Lb/A	2-yr P	Surface broadcast	10	0	154	0	
Oct 2010	Frederick Fm #2	0-0-60	166	Lb/A	2-yr K	Surface broadcast	10	0	0	100	
Oct 2010	Schrader Frm #2	82-0-0	244	Lb/A	1-yr N	Inject	7	200	0	0	
Oct 2010	Schrader Frm #2	0-0-60	141	Lb/A	2-yr K	Surface broadcast	7	0	0	85	
Oct 2010	Schrader Frm #2	0-44-0	125	Lb/A	2-yr P	Surface broadcast	7	0	55	0	
Oct 2010	Schrader Frm #2	82-0-0	207	Lb/A	1-yr N	Inject	70.5	170	0	0	
Oct 2010	Schrader Fm #2	82-0-0	207	Lb/A	1-yr N	Inject	65.5	170	0	0	
Oct 2010	Schrader Fm #2	0-0-60	141	Lb/A	2-yr K	Surface broadcast	7	0	0	85	
Oct 2010	Schrader Fm #2	0-44-0	125	Lb/A	2-yr P	Surface broadcast	7	0	55	0	
Oct 2010	Schrader Fm #2	82-0-0	244	Lb/A	1-yr N	Inject	7	200	0	0	
Oct 2010	Delp Farm #1	82-0-0	82	Lb/A	1-yr N	Inject	107.9	67	0	0	
Oct 2010	Delp Farm # 2	82-0-0	83	Lb/A	1-yr N	Inject	10	68	0	0	

Manure Management Plan Data

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Application Date	Field Where Fertilizer Will Be Applied	Nutrient Source	Rate	Units	Rate Basis	Application Method	Area Covered (Acres)	N Applied (Lb/A)	P ₂ O ₅ Applied (Lb/A)	K ₂ O Applied (Lb/A)	Notes
Oct 2010	Delp Farm #3	0-44-0	350	Lb/A	2-yr P	Surface broadcast	6.9	0	154	0	
Oct 2010	Delp Farm #3	82-0-0	135	Lb/A	1-yr N	Inject	46.6	111	0	0	
Oct 2010	Delp Farm #3	82-0-0	207	Lb/A	1-yr N	Inject	6.9	170	0	0	
Oct 2010	Delp Farm #3	0-0-60	166	Lb/A	2-yr K	Surface broadcast	6.9	0	0	100	
Oct 2010	Fink Farm #1	82-0-0	116	Lb/A	1-yr N	Inject	138	95	0	0	
Oct 2010	Fink Farm #1	0-44-0	350	Lb/A	2-yr P	Surface broadcast	12	0	154	0	
Oct 2010	Fink Farm #1	82-0-0	207	Lb/A	1-yr N	Inject	12	170	0	0	
Oct 2010	Fink Farm #1	0-0-60	166	Lb/A	2-yr K	Surface broadcast	12	0	0	100	
Oct 2010	Flikkema Frm#1	82-0-0	244	Lb/A	1-yr N	Inject	13	200	0	0	
Oct 2010	Flikkema Frm#1	0-0-60	141	Lb/A	2-yr K	Surface broadcast	13	0	0	85	
Oct 2010	Flikkema Frm#1	82-0-0	212	Lb/A	1-yr N	Inject	187	174	0	0	
Oct 2010	Nerhkorn Frm #1	82-0-0	244	Lb/A	1-yr N	Inject	5.8	200	0	0	
Oct 2010	Nerhkorn Frm #1	82-0-0	221	Lb/A	1-yr N	Inject	87	181	0	0	
Oct 2010	Nerhkorn Frm #1	0-44-0	175	Lb/A	2-yr P	Surface broadcast	5.8	0	77	0	
Oct 2010	Nerhkorn Frm #1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	5.8	0	0	50	

Manure Management Plan Data

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Application Date	Field Where Fertilizer Will Be Applied	Nutrient Source	Rate	Units	Rate Basis	Application Method	Area Covered (Acres)	N Applied (Lb/A)	P ₂ O ₅ Applied (Lb/A)	K ₂ O Applied (Lb/A)	Notes
Oct 2010	Nehrkorn Frm #2	82-0-0	84	Lb/A	1-yr N	Inject	321	69	0	0	
Oct 2010	Nehrkorn Frm #2	82-0-0	207	Lb/A	1-yr N	Inject	10	170	0	0	
Oct 2010	Nehrkorn Frm #2	0-0-60	166	Lb/A	2-yr K	Surface broadcast	10	0	0	100	
Oct 2010	Nehrkorn Frm #2	0-44-0	350	Lb/A	2-yr P	Surface broadcast	10	0	154	0	
Oct 2010	Nehrkorn Frm #3	82-0-0	135	Lb/A	1-yr N	Inject	47	111	0	0	
Oct 2010	Nehrkorn Frm #4	82-0-0	221	Lb/A	1-yr N	Inject	130.6	181	0	0	
Oct 2010	Nehrkorn Frm #5	0-0-60	141	Lb/A	2-yr K	Surface broadcast	4	0	0	85	
Oct 2010	Nehrkorn Frm #5	0-44-0	250	Lb/A	2-yr P	Surface broadcast	4	0	110	0	
Oct 2010	Nehrkorn Frm #5	82-0-0	244	Lb/A	1-yr N	Inject	4	200	0	0	
Oct 2010	Nehrkorn Frm #5	82-0-0	212	Lb/A	1-yr N	Inject	70	174	0	0	
Oct 2010	Nehrkorn	82-0-0	221	Lb/A	1-yr N	Inject	67.2	181	0	0	
Oct 2010	NehrkornKruse 2	82-0-0	135	Lb/A	1-yr N	Inject	96.9	111	0	0	
Oct 2010	NehrkornKruse 3	0-44-0	175	Lb/A	2-yr P	Surface broadcast	48.8	0	77	0	
Oct 2010	NehrkornKruse 3	82-0-0	244	Lb/A	1-yr N	Inject	48.8	200	0	0	
Oct 2010	NehrkornKruse 3	82-0-0	221	Lb/A	1-yr N	Surface band/incorporate	7.6	181	0	0	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

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Init. File Rev: 10/19/2011

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Oct 2010	NehrkornKruse 3	0-0-60	83	Lb/A	2-yr K	Surface broadcast	48.8	0	0	50	
Oct 2010	Nehrkorn Metz64	82-0-0	212	Lb/A	1-yr N	Inject	154.3	174	0	0	
Oct 2010	Nehrkorn Rbsn	82-0-0	135	Lb/A	1-yr N	Inject	74.8	111	0	0	
Oct 2011	Stoner Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	27	200	0	0	
Oct 2011	Stoner Farm #1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	27	0	0	50	
Oct 2011	Stoner Farm #1	0-44-0	225	Lb/A	2-yr P	Surface broadcast	27	0	99	0	
Oct 2011	Stoner Farm #1	82-0-0	119	Lb/A	1-yr N	Inject	360	98	0	0	
Oct 2011	Stoner Farm #5	0-44-0	125	Lb/A	2-yr P	Surface broadcast	47	0	55	0	
Oct 2011	Stoner Farm #5	82-0-0	244	Lb/A	1-yr N	Inject	47	200	0	0	
Oct 2011	Stoner Farm #5	0-0-60	141	Lb/A	2-yr K	Surface broadcast	47	0	0	85	
Oct 2011	Stoner Farm #5	82-0-0	160	Lb/A	1-yr N	Inject	450	131	0	0	
Oct 2011	Byers Farm #2	0-0-60	83	Lb/A	2-yr K	Surface broadcast	5	0	0	50	
Oct 2011	Byers Farm #2	82-0-0	244	Lb/A	1-yr N	Inject	5	200	0	0	
Oct 2011	Byers Farm #2	82-0-0	141	Lb/A	1-yr N	Inject	55	116	0	0	
Oct 2011	Byers Farm #2	0-44-0	175	Lb/A	2-yr P	Surface broadcast	5	0	77	0	

Manure Management Plan Data

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Oct 2011	Jassen Farm #1	82-0-0	102	Lb/A	1-yr N	Inject	121	84	0	0	
Oct 2011	Jassen Farm #1	0-44-0	147	Lb/A	2-yr P	Surface broadcast	4	0	65	0	
Oct 2011	Jassen Farm #1	82-0-0	146	Lb/A	1-yr N	Inject	4	120	0	0	
Oct 2011	Frederick Fm #2	82-0-0	244	Lb/A	1-yr N	Inject	10	200	0	0	
Oct 2011	Frederick Fm #2	0-44-0	125	Lb/A	2-yr P	Surface broadcast	10	0	55	0	
Oct 2011	Frederick Fm #2	0-0-60	141	Lb/A	2-yr K	Surface broadcast	10	0	0	85	
Oct 2011	Frederick Fm #2	82-0-0	151	Lb/A	1-yr N	Inject	70	124	0	0	
Oct 2011	Schrader Frm #1	82-0-0	207	Lb/A	1-yr N	Inject	15	170	0	0	
Oct 2011	Schrader Frm #1	82-0-0	116	Lb/A	1-yr N	Inject	145	95	0	0	
Oct 2011	Schrader Frm #1	0-44-0	175	Lb/A	2-yr P	Surface broadcast	15	0	77	0	
Oct 2011	Schrader Frm #1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	15	0	0	50	
Oct 2011	Delp Farm #1	82-0-0	154	Lb/A	1-yr N	Inject	107.9	126	0	0	
Oct 2011	Delp Farm #3	82-0-0	182	Lb/A	1-yr N	Inject	46.6	149	0	0	
Oct 2011	Delp Farm #3	0-44-0	175	Lb/A	2-yr P	Surface broadcast	6.9	0	77	0	
Oct 2011	Delp Farm #3	82-0-0	244	Lb/A	1-yr N	Inject	6.9	200	0	0	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Application Date	Field Where Fertilizer Will Be Applied	Nutrient Source	Rate	Units	Rate Basis	Application Method	Area Covered (Acres)	N Applied (Lb/A)	P ₂ O ₅ Applied (Lb/A)	K ₂ O Applied (Lb/A)	Notes
Oct 2011	Fink Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	12	200	0	0	
Oct 2011	Fink Farm #1	0-0-60	141	Lb/A	2-yr K	Surface broadcast	12	0	0	85	
Oct 2011	Fink Farm #1	0-44-0	125	Lb/A	2-yr P	Surface broadcast	12	0	55	0	
Oct 2011	Fink Farm #1	82-0-0	174	Lb/A	1-yr N	Inject	138	143	0	0	
Oct 2011	Fink Frm #2	82-0-0	156	Lb/A	1-yr N	Inject	105	128	0	0	
Oct 2011	Fink Frm #2	0-0-60	83	Lb/A	2-yr K	Surface broadcast	15	0	0	50	
Oct 2011	Fink Frm #2	0-44-0	225	Lb/A	2-yr P	Surface broadcast	15	0	99	0	
Oct 2011	Fink Frm #2	82-0-0	207	Lb/A	1-yr N	Inject	15	170	0	0	
Oct 2011	Flikkema Frm #2	82-0-0	128	Lb/A	1-yr N	Inject	240	105	0	0	
Oct 2011	Nerhkorn Frm #1	82-0-0	244	Lb/A	1-yr N	Inject	5.8	200	0	0	
Oct 2011	Nerhkorn Frm #1	82-0-0	190	Lb/A	1-yr N	Inject	87	156	0	0	
Oct 2011	Nerhkorn Frm #1	0-44-0	225	Lb/A	2-yr P	Surface broadcast	5.8	0	99	0	
Oct 2011	Nerhkorn Frm #2	0-44-0	175	Lb/A	2-yr P	Surface broadcast	10	0	77	0	
Oct 2011	Nerhkorn Frm #2	82-0-0	244	Lb/A	1-yr N	Inject	10	200	0	0	
Oct 2011	Nerhkorn Frm #2	0-0-60	83	Lb/A	2-yr K	Surface broadcast	10	0	0	50	

Manure Management Plan Data

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Application Date	Field Where Fertilizer Will Be Applied	Nutrient Source	Rate	Units	Rate Basis	Application Method	Area Covered (Acres)	N Applied (Lb/A)	P ₂ O ₅ Applied (Lb/A)	K ₂ O Applied (Lb/A)	Notes
Oct 2011	Nehrkorn Frm #2	82-0-0	208	Lb/A	1-yr N	Inject	321	171	0	0	
Oct 2011	Nehrkorn Frm #3	82-0-0	141	Lb/A	1-yr N	Inject	47	116	0	0	
Oct 2011	Nehrkorn Frm #4	82-0-0	160	Lb/A	1-yr N	Inject	130.6	131	0	0	
Oct 2011	Nehrkorn	82-0-0	190	Lb/A	1-yr N	Inject	67.2	156	0	0	
Oct 2011	NehrkornKruse 2	82-0-0	141	Lb/A	1-yr N	Inject	96.9	116	0	0	
Oct 2011	NehrkornKruse 3	82-0-0	190	Lb/A	1-yr N	Surface band/incorporate	7.6	156	0	0	
Oct 2011	NehrkornKruse 3	82-0-0	244	Lb/A	1-yr N	Inject	48.8	200	0	0	
Oct 2011	NehrkornKruse 3	0-0-60	83	Lb/A	2-yr K	Surface broadcast	48.8	0	0	50	
Oct 2011	NehrkornKruse 3	0-44-0	225	Lb/A	2-yr P	Surface broadcast	48.8	0	99	0	
Oct 2011	NehrkornKruse 1	82-0-0	207	Lb/A	1-yr N	Inject	16.5	170	0	0	
Oct 2011	NehrkornKruse 1	0-44-0	175	Lb/A	2-yr P	Surface broadcast	16.5	0	77	0	
Oct 2011	NehrkornKruse 1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	16.5	0	0	50	
Oct 2011	Nehrkorn Rbsn	82-0-0	141	Lb/A	1-yr N	Inject	74.8	116	0	0	
Oct 2011	NerhkornPluck N	0-44-0	175	Lb/A	2-yr P	Surface broadcast	7.2	0	77	0	
Oct 2011	NerhkornPluck N	82-0-0	207	Lb/A	1-yr N	Inject	7.2	170	0	0	

Manure Management Plan Data

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Oct 2011	NerhkornPluck N	82-0-0	116	Lb/A	1-yr N	Inject	201.5	95	0	0	
Oct 2012	Stoner Farm #1	0-44-0	125	Lb/A	2-yr P	Surface broadcast	27	0	55	0	
Oct 2012	Stoner Farm #1	82-0-0	134	Lb/A	1-yr N	Inject	360	110	0	0	
Oct 2012	Stoner Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	27	200	0	0	
Oct 2012	Stoner Farm #1	0-0-60	141	Lb/A	2-yr K	Surface broadcast	27	0	0	85	
Oct 2012	Stoner Farm #4	82-0-0	117	Lb/A	1-yr N	Inject	60	96	0	0	
Oct 2012	Byers Farm #1	82-0-0	117	Lb/A	1-yr N	Inject	122	96	0	0	
Oct 2012	Byers Farm #1	82-0-0	207	Lb/A	1-yr N	Inject	5	170	0	0	
Oct 2012	Byers Farm #1	0-44-0	175	Lb/A	2-yr P	Surface broadcast	5	0	77	0	
Oct 2012	Byers Farm #2	82-0-0	211	Lb/A	1-yr N	Inject	55	173	0	0	
Oct 2012	Byers Farm #2	82-0-0	244	Lb/A	1-yr N	Inject	5	200	0	0	
Oct 2012	Byers Farm #2	0-44-0	225	Lb/A	2-yr P	Surface broadcast	5	0	99	0	
Oct 2012	Byers Farm #2	0-0-60	83	Lb/A	2-yr K	Surface broadcast	5	0	0	50	
Oct 2012	Jassen Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	4	200	0	0	
Oct 2012	Jassen Farm #1	0-44-0	272	Lb/A	2-yr P	Surface broadcast	4	0	120	0	

Manure Management Plan Data

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Oct 2012	Jassen Farm #1	0-0-60	275	Lb/A	3-yr K	Surface broadcast	4	0	0	165	
Oct 2012	Jassen Farm #1	82-0-0	157	Lb/A	1-yr N	Inject	121	129	0	0	
Oct 2012	Schrader Frm #1	82-0-0	216	Lb/A	1-yr N	Inject	145	177	0	0	
Oct 2012	Schrader Frm #1	0-44-0	225	Lb/A	2-yr P	Surface broadcast	15	0	99	0	
Oct 2012	Schrader Frm #1	82-0-0	244	Lb/A	1-yr N	Inject	15	200	0	0	
Oct 2012	Schrader Frm #1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	15	0	0	50	
Oct 2012	Schrader Frm #2	82-0-0	207	Lb/A	1-yr N	Inject	7	170	0	0	
Oct 2012	Schrader Frm #2	0-0-60	83	Lb/A	2-yr K	Surface broadcast	7	0	0	50	
Oct 2012	Schrader Frm #2	82-0-0	145	Lb/A	1-yr N	Inject	70.5	119	0	0	
Oct 2012	Schrader Frm #2	0-44-0	300	Lb/A	2-yr P	Surface broadcast	7	0	132	0	
Oct 2012	Schrader Fm #2	0-0-60	166	Lb/A	2-yr K	Surface broadcast	7	0	0	100	
Oct 2012	Schrader Fm #2	0-44-0	300	Lb/A	2-yr P	Surface broadcast	7	0	132	0	
Oct 2012	Schrader Fm #2	82-0-0	207	Lb/A	1-yr N	Inject	7	170	0	0	
Oct 2012	Schrader Fm #2	82-0-0	135	Lb/A	1-yr N	Inject	65.5	111	0	0	
Oct 2012	Delp Farm # 2	82-0-0	73	Lb/A	1-yr N	Inject	10	60	0	0	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

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Oct 2012	Delp Farm #3	82-0-0	150	Lb/A	1-yr N	Inject	46.6	123	0	0	
Oct 2012	Delp Farm #3	0-44-0	125	Lb/A	2-yr P	Surface broadcast	6.9	0	55	0	
Oct 2012	Delp Farm #3	82-0-0	244	Lb/A	1-yr N	Inject	6.9	200	0	0	
Oct 2012	Fink Frm #2	0-0-60	141	Lb/A	2-yr K	Surface broadcast	15	0	0	85	
Oct 2012	Fink Frm #2	82-0-0	155	Lb/A	1-yr N	Inject	105	127	0	0	
Oct 2012	Fink Frm #2	0-44-0	125	Lb/A	2-yr P	Surface broadcast	15	0	55	0	
Oct 2012	Fink Frm #2	82-0-0	244	Lb/A	1-yr N	Inject	15	200	0	0	
Oct 2012	Flikkema Frm#1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	13	0	0	50	
Oct 2012	Flikkema Frm#1	0-44-0	350	Lb/A	2-yr P	Surface broadcast	13	0	154	0	
Oct 2012	Flikkema Frm#1	82-0-0	207	Lb/A	1-yr N	Inject	13	170	0	0	
Oct 2012	Flikkema Frm#1	82-0-0	117	Lb/A	1-yr N	Inject	187	96	0	0	
Oct 2012	Flikkema Frm #2	82-0-0	216	Lb/A	1-yr N	Inject	240	177	0	0	
Oct 2012	Nerhkorn Frm #1	82-0-0	244	Lb/A	1-yr N	Inject	5.8	200	0	0	
Oct 2012	Nerhkorn Frm #1	0-0-60	141	Lb/A	2-yr K	Surface broadcast	5.8	0	0	85	
Oct 2012	Nerhkorn Frm #1	82-0-0	154	Lb/A	1-yr N	Inject	87	126	0	0	

Manure Management Plan Data

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Oct 2012	Nehrkorn Frm #1	0-44-0	125	Lb/A	2-yr P	Surface broadcast	5.8	0	55	0	
Oct 2012	Nehrkorn Frm #2	82-0-0	227	Lb/A	1-yr N	Inject	321	186	0	0	
Oct 2012	Nehrkorn Frm #2	0-44-0	175	Lb/A	2-yr P	Surface broadcast	10	0	77	0	
Oct 2012	Nehrkorn Frm #2	0-0-60	83	Lb/A	2-yr K	Surface broadcast	10	0	0	50	
Oct 2012	Nehrkorn Frm #2	82-0-0	244	Lb/A	1-yr N	Inject	10	200	0	0	
Oct 2012	Nehrkorn Frm #3	82-0-0	211	Lb/A	1-yr N	Inject	47	173	0	0	
Oct 2012	Nehrkorn Frm #5	0-0-60	83	Lb/A	2-yr K	Surface broadcast	4	0	0	50	
Oct 2012	Nehrkorn Frm #5	0-44-0	175	Lb/A	2-yr P	Surface broadcast	4	0	77	0	
Oct 2012	Nehrkorn Frm #5	82-0-0	207	Lb/A	1-yr N	Inject	4	170	0	0	
Oct 2012	Nehrkorn Frm #5	82-0-0	117	Lb/A	1-yr N	Inject	70	96	0	0	
Oct 2012	Nehrkorn	82-0-0	154	Lb/A	1-yr N	Inject	67.2	126	0	0	
Oct 2012	NehrkornKruise 2	82-0-0	211	Lb/A	1-yr N	Inject	96.9	173	0	0	
Oct 2012	NehrkornKruise 3	82-0-0	154	Lb/A	1-yr N	Surface band/incorporate	7.6	126	0	0	
Oct 2012	NehrkornKruise 3	0-0-60	141	Lb/A	2-yr K	Surface broadcast	48.8	0	0	85	
Oct 2012	NehrkornKruise 3	0-44-0	125	Lb/A	2-yr P	Surface broadcast	48.8	0	55	0	

Manure Management Plan Data

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Oct 2012	NehrkornKruse 3	82-0-0	244	Lb/A	1-yr N	Inject	48.8	200	0	0	
Oct 2012	NehrkornKruse 1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	16.5	0	0	50	
Oct 2012	NehrkornKruse 1	0-44-0	175	Lb/A	2-yr P	Surface broadcast	16.5	0	77	0	
Oct 2012	NehrkornKruse 1	82-0-0	244	Lb/A	1-yr N	Inject	16.5	200	0	0	
Oct 2012	Nehrkorn Metz64	82-0-0	117	Lb/A	1-yr N	Inject	154.3	96	0	0	
Oct 2012	Nehrkorn Rbsn	82-0-0	211	Lb/A	1-yr N	Inject	74.8	173	0	0	
Oct 2012	NerhkornPluck N	82-0-0	216	Lb/A	1-yr N	Inject	201.5	177	0	0	
Oct 2012	NerhkornPluck N	0-44-0	300	Lb/A	2-yr P	Surface broadcast	7.2	0	132	0	
Oct 2012	NerhkornPluck N	82-0-0	244	Lb/A	1-yr N	Inject	7.2	200	0	0	
Oct 2013	Stoner Farm #4	82-0-0	221	Lb/A	1-yr N	Inject	60	181	0	0	
Oct 2013	Stoner Farm #5	82-0-0	74	Lb/A	1-yr N	Inject	450	61	0	0	
Oct 2013	Stoner Farm #5	0-44-0	175	Lb/A	2-yr P	Surface broadcast	47	0	77	0	
Oct 2013	Stoner Farm #5	82-0-0	207	Lb/A	1-yr N	Inject	47	170	0	0	
Oct 2013	Stoner Farm #5	0-0-60	83	Lb/A	2-yr K	Surface broadcast	47	0	0	50	
Oct 2013	Byers Farm #1	82-0-0	221	Lb/A	1-yr N	Inject	122	181	0	0	

Manure Management Plan Data

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Oct 2013	Byers Farm #1	0-44-0	175	Lb/A	2-yr P	Surface broadcast	5	0	77	0	
Oct 2013	Byers Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	5	200	0	0	
Oct 2013	Byers Farm #2	0-0-60	141	Lb/A	2-yr K	Surface broadcast	5	0	0	85	
Oct 2013	Byers Farm #2	82-0-0	155	Lb/A	1-yr N	Inject	55	127	0	0	
Oct 2013	Byers Farm #2	82-0-0	244	Lb/A	1-yr N	Inject	5	200	0	0	
Oct 2013	Byers Farm #2	0-44-0	125	Lb/A	2-yr P	Surface broadcast	5	0	55	0	
Oct 2013	Frederick Fm #2	82-0-0	207	Lb/A	1-yr N	Inject	10	170	0	0	
Oct 2013	Frederick Fm #2	82-0-0	151	Lb/A	1-yr N	Inject	70	124	0	0	
Oct 2013	Frederick Fm #2	0-0-60	166	Lb/A	2-yr K	Surface broadcast	10	0	0	100	
Oct 2013	Frederick Fm #2	0-44-0	350	Lb/A	2-yr P	Surface broadcast	10	0	154	0	
Oct 2013	Schrader Fm #1	82-0-0	160	Lb/A	1-yr N	Inject	145	131	0	0	
Oct 2013	Schrader Fm #1	82-0-0	244	Lb/A	1-yr N	Inject	15	200	0	0	
Oct 2013	Schrader Fm #1	0-0-60	141	Lb/A	2-yr K	Surface broadcast	15	0	0	85	
Oct 2013	Schrader Fm #1	0-44-0	125	Lb/A	2-yr P	Surface broadcast	15	0	55	0	
Oct 2013	Schrader Fm #2	82-0-0	134	Lb/A	1-yr N	Inject	70.5	110	0	0	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

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Oct 2013	Schrader Frm #2	82-0-0	244	Lb/A	1-yr N	Inject	7	200	0	0	
Oct 2013	Schrader Frm #2	0-0-60	83	Lb/A	2-yr K	Surface broadcast	7	0	0	50	
Oct 2013	Schrader Frm #2	0-44-0	50	Lb/A	2-yr P	Surface broadcast	7	0	22	0	
Oct 2013	Schrader Fm #2	82-0-0	244	Lb/A	1-yr N	Inject	7	200	0	0	
Oct 2013	Schrader Fm #2	82-0-0	154	Lb/A	1-yr N	Inject	65.5	126	0	0	
Oct 2013	Schrader Fm #2	0-44-0	50	Lb/A	2-yr P	Surface broadcast	7	0	22	0	
Oct 2013	Delp Farm #1	82-0-0	97	Lb/A	1-yr N	Inject	107.9	80	0	0	
Oct 2013	Fink Farm #1	0-44-0	350	Lb/A	2-yr P	Surface broadcast	12	0	154	0	
Oct 2013	Fink Farm #1	82-0-0	182	Lb/A	1-yr N	Inject	138	149	0	0	
Oct 2013	Fink Farm #1	82-0-0	207	Lb/A	1-yr N	Inject	12	170	0	0	
Oct 2013	Fink Farm #1	0-0-60	166	Lb/A	2-yr K	Surface broadcast	12	0	0	100	
Oct 2013	Flikkema Frm#1	82-0-0	221	Lb/A	1-yr N	Inject	187	181	0	0	
Oct 2013	Flikkema Frm#1	82-0-0	244	Lb/A	1-yr N	Inject	13	200	0	0	
Oct 2013	Flikkema Frm#1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	13	0	0	50	
Oct 2013	Flikkema Frm #2	82-0-0	160	Lb/A	1-yr N	Inject	240	131	0	0	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

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Oct 2013	Nehrkorn Frm #2	82-0-0	163	Lb/A	1-yr N	Inject	321	134	0	0	
Oct 2013	Nehrkorn Frm #2	0-44-0	125	Lb/A	2-yr P	Surface broadcast	10	0	55	0	
Oct 2013	Nehrkorn Frm #2	82-0-0	244	Lb/A	1-yr N	Inject	10	200	0	0	
Oct 2013	Nehrkorn Frm #2	0-0-60	141	Lb/A	2-yr K	Surface broadcast	10	0	0	85	
Oct 2013	Nehrkorn Frm #3	82-0-0	155	Lb/A	1-yr N	Inject	47	127	0	0	
Oct 2013	Nehrkorn Frm #4	82-0-0	116	Lb/A	1-yr N	Inject	130.6	95	0	0	
Oct 2013	Nehrkorn Frm #5	0-44-0	175	Lb/A	2-yr P	Surface broadcast	4	0	77	0	
Oct 2013	Nehrkorn Frm #5	82-0-0	244	Lb/A	1-yr N	Inject	4	200	0	0	
Oct 2013	Nehrkorn Frm #5	0-0-60	83	Lb/A	2-yr K	Surface broadcast	4	0	0	50	
Oct 2013	Nehrkorn Frm #5	82-0-0	221	Lb/A	1-yr N	Inject	70	181	0	0	
Oct 2013	NehrkornKruse 2	82-0-0	155	Lb/A	1-yr N	Inject	96.9	127	0	0	
Oct 2013	NehrkornKruse 1	0-44-0	225	Lb/A	2-yr P	Surface broadcast	16.5	0	99	0	
Oct 2013	NehrkornKruse 1	82-0-0	244	Lb/A	1-yr N	Inject	16.5	200	0	0	
Oct 2013	NehrkornKruse 1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	16.5	0	0	50	
Oct 2013	Nehrkorn Metz64	82-0-0	221	Lb/A	1-yr N	Inject	154.3	181	0	0	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

County: Carroll

Plan Saved: 4/12/2012

Plan File: MMP NWI 4-9-12.mmp

State: Illinois

Init. File Rev: 10/19/2011

Plan Folder: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)

Soils File Rev: 8/29/2011

Application Date	Field Where Fertilizer Will Be Applied	Nutrient Source	Rate	Units	Rate Basis	Application Method	Area Covered (Acres)	N Applied (Lb/A)	P ₂ O ₅ Applied (Lb/A)	K ₂ O Applied (Lb/A)	Notes
Oct 2013	Nehrkorn Rbsn	82-0-0	185	Lb/A	1-yr N	Inject	74.8	152	0	0	
Oct 2013	NerhkornPluck N	0-44-0	50	Lb/A	2-yr P	Surface broadcast	7.2	0	22	0	
Oct 2013	NerhkornPluck N	82-0-0	244	Lb/A	1-yr N	Inject	7.2	200	0	0	
Oct 2013	NerhkornPluck N	82-0-0	190	Lb/A	1-yr N	Inject	201.5	156	0	0	
Oct 2014	Stoner Farm #1	0-44-0	225	Lb/A	2-yr P	Surface broadcast	27	0	99	0	
Oct 2014	Stoner Farm #1	82-0-0	107	Lb/A	1-yr N	Inject	360	88	0	0	
Oct 2014	Stoner Farm #1	82-0-0	207	Lb/A	1-yr N	Inject	27	170	0	0	
Oct 2014	Stoner Farm #1	0-0-60	166	Lb/A	2-yr K	Surface broadcast	27	0	0	100	
Oct 2014	Stoner Farm #4	82-0-0	150	Lb/A	1-yr N	Inject	60	123	0	0	
Oct 2014	Stoner Farm #5	0-44-0	225	Lb/A	2-yr P	Surface broadcast	47	0	99	0	
Oct 2014	Stoner Farm #5	82-0-0	204	Lb/A	1-yr N	Inject	450	167	0	0	
Oct 2014	Stoner Farm #5	0-0-60	83	Lb/A	2-yr K	Surface broadcast	47	0	0	50	
Oct 2014	Stoner Farm #5	82-0-0	244	Lb/A	1-yr N	Inject	47	200	0	0	
Oct 2014	Byers Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	5	200	0	0	
Oct 2014	Byers Farm #1	82-0-0	150	Lb/A	1-yr N	Inject	122	123	0	0	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

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Oct 2014	Byers Farm #1	0-44-0	225	Lb/A	2-yr P	Surface broadcast	5	0	99	0	
Oct 2014	Frederick Fm #2	82-0-0	244	Lb/A	1-yr N	Inject	10	200	0	0	
Oct 2014	Frederick Fm #2	0-44-0	125	Lb/A	2-yr P	Surface broadcast	10	0	55	0	
Oct 2014	Frederick Fm #2	82-0-0	155	Lb/A	1-yr N	Inject	70	127	0	0	
Oct 2014	Frederick Fm #2	0-0-60	141	Lb/A	2-yr K	Surface broadcast	10	0	0	85	
Oct 2014	Schrader Frm #2	82-0-0	145	Lb/A	1-yr N	Inject	70.5	119	0	0	
Oct 2014	Schrader Frm #2	82-0-0	244	Lb/A	1-yr N	Inject	7	200	0	0	
Oct 2014	Schrader Frm #2	0-44-0	125	Lb/A	2-yr P	Surface broadcast	7	0	55	0	
Oct 2014	Schrader Frm #2	0-0-60	141	Lb/A	2-yr K	Surface broadcast	7	0	0	85	
Oct 2014	Schrader Fm #2	0-44-0	125	Lb/A	2-yr P	Surface broadcast	7	0	55	0	
Oct 2014	Schrader Fm #2	82-0-0	105	Lb/A	1-yr N	Inject	65.5	86	0	0	
Oct 2014	Schrader Fm #2	0-0-60	141	Lb/A	2-yr K	Surface broadcast	7	0	0	85	
Oct 2014	Schrader Fm #2	82-0-0	244	Lb/A	1-yr N	Inject	7	200	0	0	
Oct 2014	Delp Farm #1	82-0-0	157	Lb/A	1-yr N	Inject	107.9	129	0	0	
Oct 2014	Delp Farm # 2	82-0-0	72	Lb/A	1-yr N	Inject	10	59	0	0	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

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Oct 2014	Delp Farm #3	82-0-0	113	Lb/A	1-yr N	Inject	46.6	93	0	0	
Oct 2014	Delp Farm #3	0-44-0	350	Lb/A	2-yr P	Surface broadcast	6.9	0	154	0	
Oct 2014	Delp Farm #3	82-0-0	207	Lb/A	1-yr N	Inject	6.9	170	0	0	
Oct 2014	Fink Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	12	200	0	0	
Oct 2014	Fink Farm #1	82-0-0	140	Lb/A	1-yr N	Inject	138	115	0	0	
Oct 2014	Fink Farm #1	0-0-60	141	Lb/A	2-yr K	Surface broadcast	12	0	0	85	
Oct 2014	Fink Farm #1	0-44-0	125	Lb/A	2-yr P	Surface broadcast	12	0	55	0	
Oct 2014	Fink Frm #2	82-0-0	113	Lb/A	1-yr N	Inject	105	93	0	0	
Oct 2014	Fink Frm #2	0-44-0	225	Lb/A	2-yr P	Surface broadcast	15	0	99	0	
Oct 2014	Fink Frm #2	82-0-0	207	Lb/A	1-yr N	Inject	15	170	0	0	
Oct 2014	Fink Frm #2	0-0-60	83	Lb/A	2-yr K	Surface broadcast	15	0	0	50	
Oct 2014	Flikkema Frm#1	0-0-60	141	Lb/A	2-yr K	Surface broadcast	13	0	0	85	
Oct 2014	Flikkema Frm#1	82-0-0	244	Lb/A	1-yr N	Inject	13	200	0	0	
Oct 2014	Flikkema Frm#1	82-0-0	160	Lb/A	1-yr N	Inject	187	131	0	0	
Oct 2014	Nerhkorn Frm #1	0-44-0	225	Lb/A	2-yr P	Surface broadcast	5.8	0	99	0	

Manure Management Plan Data

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Oct 2014	Nerhkorn Frm #1	82-0-0	113	Lb/A	1-yr N	Inject	87	93	0	0	
Oct 2014	Nerhkorn Frm #1	0-0-60	83	Lb/A	2-yr K	Surface broadcast	5.8	0	0	50	
Oct 2014	Nerhkorn Frm #1	82-0-0	207	Lb/A	1-yr N	Inject	5.8	170	0	0	
Oct 2014	Nerhkorn Frm #4	82-0-0	216	Lb/A	1-yr N	Inject	130.6	177	0	0	
Oct 2014	Nerhkorn Frm #5	0-0-60	83	Lb/A	2-yr K	Surface broadcast	4	0	0	50	
Oct 2014	Nerhkorn Frm #5	82-0-0	150	Lb/A	1-yr N	Inject	70	123	0	0	
Oct 2014	Nerhkorn Frm #5	82-0-0	244	Lb/A	1-yr N	Inject	4	200	0	0	
Oct 2014	Nerhkorn Frm #5	0-44-0	225	Lb/A	2-yr P	Surface broadcast	4	0	99	0	
Oct 2014	Nerhkorn	82-0-0	113	Lb/A	1-yr N	Inject	67.2	93	0	0	
Oct 2014	NerhkornKruse 3	82-0-0	207	Lb/A	1-yr N	Inject	48.8	170	0	0	
Oct 2014	NerhkornKruse 3	82-0-0	112	Lb/A	1-yr N	Surface band/incorporate	7.6	92	0	0	
Oct 2014	NerhkornKruse 3	0-44-0	225	Lb/A	2-yr P	Surface broadcast	48.8	0	99	0	
Oct 2014	NerhkornKruse 3	0-0-60	83	Lb/A	2-yr K	Surface broadcast	48.8	0	0	50	
Oct 2014	NerhkornKruse 1	0-44-0	125	Lb/A	2-yr P	Surface broadcast	16.5	0	55	0	
Oct 2014	NerhkornKruse 1	82-0-0	244	Lb/A	1-yr N	Inject	16.5	200	0	0	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

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Oct 2014	NehrkornKruse 1	0-0-60	141	Lb/A	2-yr K	Surface broadcast	16.5	0	0	85	
Oct 2014	Nehrkorn Metz64	82-0-0	150	Lb/A	1-yr N	Inject	154.3	123	0	0	
Oct 2014	NerhkornPluck N	0-44-0	125	Lb/A	2-yr P	Surface broadcast	7.2	0	55	0	
Oct 2014	NerhkornPluck N	82-0-0	102	Lb/A	1-yr N	Inject	201.5	84	0	0	
Oct 2014	NerhkornPluck N	82-0-0	244	Lb/A	1-yr N	Inject	7.2	200	0	0	
Oct 2015	Stoner Farm #1	0-44-0	125	Lb/A	2-yr P	Surface broadcast	27	0	55	0	
Oct 2015	Stoner Farm #1	0-0-60	141	Lb/A	2-yr K	Surface broadcast	27	0	0	85	
Oct 2015	Stoner Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	27	200	0	0	
Oct 2015	Stoner Farm #1	82-0-0	216	Lb/A	1-yr N	Inject	360	177	0	0	
Oct 2015	Stoner Farm #4	82-0-0	215	Lb/A	1-yr N	Inject	60	176	0	0	
Oct 2015	Stoner Farm #5	82-0-0	244	Lb/A	1-yr N	Inject	47	200	0	0	
Oct 2015	Stoner Farm #5	0-0-60	141	Lb/A	2-yr K	Surface broadcast	47	0	0	85	
Oct 2015	Stoner Farm #5	0-44-0	125	Lb/A	2-yr P	Surface broadcast	47	0	55	0	
Oct 2015	Stoner Farm #5	82-0-0	227	Lb/A	1-yr N	Inject	450	186	0	0	
Oct 2015	Byers Farm #1	0-44-0	125	Lb/A	2-yr P	Surface broadcast	5	0	55	0	

Manure Management Plan Data

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Oct 2015	Byers Farm #1	82-0-0	215	Lb/A	1-yr N	Inject	122	176	0	0	
Oct 2015	Byers Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	5	200	0	0	
Oct 2015	Byers Farm #2	82-0-0	207	Lb/A	1-yr N	Inject	5	170	0	0	
Oct 2015	Byers Farm #2	0-44-0	300	Lb/A	2-yr P	Surface broadcast	5	0	132	0	
Oct 2015	Byers Farm #2	0-0-60	225	Lb/A	2-yr K	Surface broadcast	5	0	0	135	
Oct 2015	Byers Farm #2	82-0-0	156	Lb/A	1-yr N	Inject	55	128	0	0	
Oct 2015	Jassen Farm #1	82-0-0	188	Lb/A	1-yr N	Inject	121	154	0	0	
Oct 2015	Jassen Farm #1	82-0-0	244	Lb/A	1-yr N	Inject	4	200	0	0	
Oct 2015	Jassen Farm #1	0-44-0	300	Lb/A	2-yr P	Surface broadcast	4	0	132	0	
Oct 2015	Schrader Frm #1	82-0-0	156	Lb/A	1-yr N	Inject	145	128	0	0	
Oct 2015	Schrader Frm #1	0-44-0	300	Lb/A	2-yr P	Surface broadcast	15	0	132	0	
Oct 2015	Schrader Frm #1	82-0-0	207	Lb/A	1-yr N	Inject	15	170	0	0	
Oct 2015	Schrader Frm #1	0-0-60	225	Lb/A	2-yr K	Surface broadcast	15	0	0	135	
Oct 2015	Delp Farm #3	82-0-0	216	Lb/A	1-yr N	Inject	46.6	177	0	0	
Oct 2015	Delp Farm #3	82-0-0	244	Lb/A	1-yr N	Inject	6.9	200	0	0	

Manure Management Plan Data

Operation: Northwest Illini Feed Lots

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Oct 2015	Delp Farm #3	0-44-0	125	Lb/A	2-yr P	Surface broadcast	6.9	0	55	0	
Oct 2015	Fink Frm #2	0-44-0	125	Lb/A	2-yr P	Surface broadcast	15	0	55	0	
Oct 2015	Fink Frm #2	82-0-0	216	Lb/A	1-yr N	Inject	105	177	0	0	
Oct 2015	Fink Frm #2	82-0-0	244	Lb/A	1-yr N	Inject	15	200	0	0	
Oct 2015	Fink Frm #2	0-0-60	141	Lb/A	2-yr K	Surface broadcast	15	0	0	85	
Oct 2015	Flikkema Frm #2	82-0-0	156	Lb/A	1-yr N	Inject	240	128	0	0	
Oct 2015	Nerhkorn Frm #1	0-0-60	141	Lb/A	2-yr K	Surface broadcast	5.8	0	0	85	
Oct 2015	Nerhkorn Frm #1	82-0-0	216	Lb/A	1-yr N	Inject	87	177	0	0	
Oct 2015	Nerhkorn Frm #1	82-0-0	244	Lb/A	1-yr N	Inject	5.8	200	0	0	
Oct 2015	Nerhkorn Frm #1	0-44-0	125	Lb/A	2-yr P	Surface broadcast	5.8	0	55	0	
Oct 2015	Nerhkorn Frm #2	0-0-60	225	Lb/A	2-yr K	Surface broadcast	10	0	0	135	
Oct 2015	Nerhkorn Frm #2	0-44-0	300	Lb/A	2-yr P	Surface broadcast	10	0	132	0	
Oct 2015	Nerhkorn Frm #2	82-0-0	207	Lb/A	1-yr N	Inject	10	170	0	0	
Oct 2015	Nerhkorn Frm #2	82-0-0	156	Lb/A	1-yr N	Inject	321	128	0	0	
Oct 2015	Nerhkorn Frm #3	82-0-0	156	Lb/A	1-yr N	Inject	47	128	0	0	

Manure Management Plan Data

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Oct 2015	Nehrkorn Frm #4	82-0-0	190	Lb/A	1-yr N	Inject	130.6	156	0	0	
Oct 2015	Nehrkorn Frm #5	82-0-0	244	Lb/A	1-yr N	Inject	4	200	0	0	
Oct 2015	Nehrkorn Frm #5	0-44-0	125	Lb/A	2-yr P	Surface broadcast	4	0	55	0	
Oct 2015	Nehrkorn Frm #5	0-0-60	141	Lb/A	2-yr K	Surface broadcast	4	0	0	85	
Oct 2015	Nehrkorn Frm #5	82-0-0	215	Lb/A	1-yr N	Inject	70	176	0	0	
Oct 2015	Nehrkorn	82-0-0	216	Lb/A	1-yr N	Inject	67.2	177	0	0	
Oct 2015	NehrkornKruse 2	82-0-0	156	Lb/A	1-yr N	Inject	96.9	128	0	0	
Oct 2015	NehrkornKruse 3	82-0-0	244	Lb/A	1-yr N	Inject	48.8	200	0	0	
Oct 2015	NehrkornKruse 3	0-44-0	125	Lb/A	2-yr P	Surface broadcast	48.8	0	55	0	
Oct 2015	NehrkornKruse 3	82-0-0	216	Lb/A	1-yr N	Surface band/incorporate	7.6	177	0	0	
Oct 2015	NehrkornKruse 3	0-0-60	141	Lb/A	2-yr K	Surface broadcast	48.8	0	0	85	
Oct 2015	Nehrkorn Metz64	82-0-0	215	Lb/A	1-yr N	Inject	154.3	176	0	0	
Oct 2015	Nehrkorn Rbsn	82-0-0	180	Lb/A	1-yr N	Inject	74.8	148	0	0	

Annual Field Nutrient Needs

Plan File: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)\MMP NWI 4-9-12.mmp
Operation: Northwest Illini Feed Lots

State: Illinois

Last Saved: 4/12/2012
Init. File Rev: 10/19/2011

<i>Year</i>	<i>Field ID</i>	<i>Sub ID</i>	<i>Size</i> <i>Acres</i>	<i>Crop</i>	<i>Yield Goal</i> <i>/Acre</i>	<i>N</i> <i>Lb/Acre</i>	<i>P₂O₅</i> <i>Lb/Acre</i>	<i>K₂O</i> <i>Lb/Acre</i>	<i>N</i> <i>Lb/Field</i>	<i>P₂O₅</i> <i>Lb/Field</i>	<i>K₂O</i> <i>Lb/Field</i>
2010	Stoner Farm #1		387	Corn	180	170▯	77▯	50▯	65,790	29,799	19,350
2010	Stoner Farm #4		60	Corn	180	200▯	77▯	50▯	12,000	4,620	3,000
2010	Stoner Farm #5		497	Corn	180	170▯	77▯	50▯	84,490	38,269	24,850
2010	Byers Farm #1		127	Corn	180	200▯	77▯	50▯	25,400	9,779	6,350
2010	Byers Farm #2		60	Soybean	65	0	55▯	85▯	0	3,300	5,100
2010	Jassen Farm #1		125	Corn	180	200▯	77▯	50▯	25,000	9,625	6,250
2010	Frederick Fm #2		80	Soybean	65	0	55▯	85▯	0	4,400	6,800
2010	Schrader Frm #1		160	Corn	180	170▯	77▯	50▯	27,200	12,320	8,000
2010	Schrader Frm #2		77.5	Corn	180	200▯	77▯	50▯	15,500	5,968	3,875
2010	Schrader Fm #2		72.5	Corn	180	170▯	77▯	50▯	12,325	5,582	3,625
2010	Delp Farm #1		107.9	Soybean	65	0	55▯	85▯	0	5,935	9,172
2010	Delp Farm # 2		10	Soybean	65	0	55▯	85▯	0	550	850
2010	Delp Farm #3		53.5	Soybean	65	0	55▯	82▯	0	2,942	4,387
2010	Fink Farm #1		150	Soybean	65	0	55▯	85▯	0	8,250	12,750
2010	Fink Frm #2		120	Corn	180	170▯	77▯	50▯	20,400	9,240	6,000
2010	Flikkema Frm#1		200	Corn	180	200▯	77▯	50▯	40,000	15,400	10,000
2010	Flikkema Frm #2		240	Corn	180	170▯	77▯	50▯	40,800	18,480	12,000
2010	Nehrkorn Frm #1		92.8	Corn	180	200▯	77▯	50▯	18,560	7,146	4,640
2010	Nehrkorn Frm #2		331	Soybean	65	0	55▯	85▯	0	18,205	28,135
2010	Nehrkorn Frm #3		47	Soybean	65	0	55▯	85▯	0	2,585	3,995
2010	Nehrkorn Frm #4		130.6	Corn	180	200▯	77▯	50▯	26,120	10,056	6,530
2010	Nehrkorn Frm #5		74	Corn	180	200▯	77▯	50▯	14,800	5,698	3,700
2010	Nehrkorn		67.2	Corn	180	200▯	77▯	50▯	13,440	5,174	3,360
2010	NehrkornKruise 2		96.9	Soybean	65	0	55▯	85▯	0	5,330	8,237
2010	NehrkornKruise 3		56.4	Corn	180	200▯	77▯	50▯	11,280	4,343	2,820
2010	NehrkornKruise 1		16.5	Corn	180	200▯	77▯	50▯	3,300	1,270	825
2010	Nehrkorn Metz64		154.3	Corn	180	170▯	77▯	50▯	26,231	11,881	7,715
2010	Nehrkorn Rbsn		74.8	Soybean	65	0	55▯	85▯	0	4,114	6,358
2010	NehrkornPluck N		208.7	Corn	180	200▯	77▯	50▯	41,740	16,070	10,435
Total			3877.6						524,376	276,331	229,109
2011	Stoner Farm #1		387	Corn	180	200▯	77▯	50▯	77,400	29,799	19,350
2011	Stoner Farm #4		60	Corn	180	170▯	77▯	50▯	10,200	4,620	3,000
2011	Stoner Farm #5		497	Corn	180	200▯	77▯	50▯	99,400	38,269	24,850
2011	Byers Farm #1		127	Corn	180	200▯	77▯	50▯	25,400	9,779	6,350
2011	Byers Farm #2		60	Corn	180	200▯	77▯	50▯	12,000	4,620	3,000
2011	Jassen Farm #1		125	Soybean	65	0	55▯	85▯	0	6,875	10,625
2011	Frederick Fm #2		80	Corn	180	170▯	77▯	50▯	13,600	6,160	4,000
2011	Schrader Frm #1		160	Soybean	65	0	55▯	85▯	0	8,800	13,600

<i>Year</i>	<i>Field ID</i>	<i>Sub ID</i>	<i>Size</i> <i>Acres</i>	<i>Crop</i>	<i>Yield Goal</i> <i>/Acre</i>	<i>N</i> <i>Lb/Acre</i>	<i>P₂O₅</i> <i>Lb/Acre</i>	<i>K₂O</i> <i>Lb/Acre</i>	<i>N</i> <i>Lb/Field</i>	<i>P₂O₅</i> <i>Lb/Field</i>	<i>K₂O</i> <i>Lb/Field</i>
2011	Schrader Frm #2		77.5	Corn	180	200	77	50	15,500	5,968	3,875
2011	Schrader Fm #2		72.5	Corn	180	200	77	50	14,500	5,582	3,625
2011	Delp Farm #1		107.9	Wheat	70	120	65	30	12,948	7,014	3,237
2011	Delp Farm # 2		10	Wheat	70	120	65	30	1,200	650	300
2011	Delp Farm #3		53.5	Corn	180	170	77	50	9,095	4,120	2,675
2011	Fink Farm #1		150	Corn	180	170	77	50	25,500	11,550	7,500
2011	Fink Frm #2		120	Soybean	65	0	55	85	0	6,600	10,200
2011	Flikkema Frm#1		200	Corn	180	200	77	50	40,000	15,400	10,000
2011	Flikkema Frm #2		240	Soybean	65	0	55	85	0	13,200	20,400
2011	Nerhkorn Frm #1		92.8	Corn	180	200	77	50	18,560	7,146	4,640
2011	Nehrkorn Frm #2		331	Corn	180	170	77	50	56,270	25,487	16,550
2011	Nehrkorn Frm #3		47	Corn	180	170	77	50	7,990	3,619	2,350
2011	Nehrkorn Frm #4		130.6	Corn	180	200	77	50	26,120	10,056	6,530
2011	Nehrkorn Frm #5		74	Corn	180	200	77	50	14,800	5,698	3,700
2011	Nehrkorn		67.2	Corn	180	200	77	50	13,440	5,174	3,360
2011	NehrkornKruse 2		96.9	Corn	180	170	77	50	16,473	7,461	4,845
2011	NehrkornKruse 3		56.4	Corn	180	200	77	50	11,280	4,343	2,820
2011	NehrkornKruse 1		16.5	Soybean	65	0	55	85	0	908	1,402
2011	Nehrkorn Metz64		154.3	Corn	180	200	77	50	30,860	11,881	7,715
2011	Nehrkorn Rbsn		74.8	Corn	180	170	77	50	12,716	5,760	3,740
2011	NerhkornPluck N		208.7	Soybean	65	0	55	85	0	11,478	17,739
Total			3877.6						565,252	278,017	221,978
2012	Stoner Farm #1		387	Corn	180	200	77	50	77,400	29,799	19,350
2012	Stoner Farm #4		60	Soybean	65	0	55	85	0	3,300	5,100
2012	Stoner Farm #5		497	Corn	180	200	77	50	99,400	38,269	24,850
2012	Byers Farm #1		127	Soybean	65	0	55	85	0	6,985	10,795
2012	Byers Farm #2		60	Corn	180	200	77	50	12,000	4,620	3,000
2012	Jassen Farm #1		125	Wheat	70	120	65	30	15,000	8,125	3,750
2012	Frederick Fm #2		80	Corn	180	200	77	50	16,000	6,160	4,000
2012	Schrader Frm #1		160	Corn	180	170	77	50	27,200	12,320	8,000
2012	Schrader Frm #2		77.5	Soybean	65	0	55	85	0	4,262	6,588
2012	Schrader Fm #2		72.5	Soybean	65	0	55	85	0	3,988	6,162
2012	Delp Farm #1		107.9	Corn	180	200	77	50	21,580	8,308	5,395
2012	Delp Farm # 2		10	Soybean	65	0	55	85	0	550	850
2012	Delp Farm #3		53.5	Corn	180	200	77	50	10,700	4,120	2,675
2012	Fink Farm #1		150	Corn	180	200	77	50	30,000	11,550	7,500
2012	Fink Frm #2		120	Corn	180	170	77	50	20,400	9,240	6,000
2012	Flikkema Frm#1		200	Soybean	65	0	55	85	0	11,000	17,000
2012	Flikkema Frm #2		240	Corn	180	180	77	50	43,200	18,480	12,000
2012	Nerhkorn Frm #1		92.8	Corn	180	200	77	50	18,560	7,146	4,640
2012	Nehrkorn Frm #2		331	Corn	180	200	77	50	66,200	25,487	16,550
2012	Nehrkorn Frm #3		47	Corn	180	200	77	50	9,400	3,619	2,350

<i>Year</i>	<i>Field ID</i>	<i>Sub ID</i>	<i>Size</i> <i>Acres</i>	<i>Crop</i>	<i>Yield Goal</i> <i>/Acre</i>	<i>N</i> <i>Lb/Acre</i>	<i>P₂O₅</i> <i>Lb/Acre</i>	<i>K₂O</i> <i>Lb/Acre</i>	<i>N</i> <i>Lb/Field</i>	<i>P₂O₅</i> <i>Lb/Field</i>	<i>K₂O</i> <i>Lb/Field</i>
2012	Nehrkorn Frm #4		130.6	Corn	180	200▯	77▯	50▯	26,120	10,056	6,530
2012	Nehrkorn Frm #5		74	Soybean	65	0	55▯	85▯	0	4,070	6,290
2012	Nehrkorn		67.2	Corn	180	200▯	77▯	50▯	13,440	5,174	3,360
2012	NehrkornKruse 2		96.9	Corn	180	200▯	77▯	50▯	19,380	7,461	4,845
2012	NehrkornKruse 3		56.4	Corn	180	200▯	77▯	50▯	11,280	4,343	2,820
2012	NehrkornKruse 1		16.5	Corn	180	170▯	77▯	50▯	2,805	1,270	825
2012	Nehrkorn Metz64		154.3	Soybean	65	0	55▯	85▯	0	8,487	13,116
2012	Nehrkorn Rbsn		74.8	Corn	180	200▯	77▯	50▯	14,960	5,760	3,740
2012	NerhkornPluck N		208.7	Corn	180	170▯	77▯	50▯	35,479	16,070	10,435
Total			3877.6						590,504	280,019	218,516
2013	Stoner Farm #1		387	Corn	180	200▯	77▯	50▯	77,400	29,799	19,350
2013	Stoner Farm #4		60	Corn	180	170▯	77▯	50▯	10,200	4,620	3,000
2013	Stoner Farm #5		497	Soybean	65	0	55▯	85▯	0	27,335	42,245
2013	Byers Farm #1		127	Corn	180	170▯	77▯	50▯	21,590	9,779	6,350
2013	Byers Farm #2		60	Corn	180	200▯	77▯	50▯	12,000	4,620	3,000
2013	Jassen Farm #1		125	Corn	180	200▯	65▯	50▯	25,000	8,125	6,250
2013	Frederick Fm #2		80	Soybean	65	0	55▯	85▯	0	4,400	6,800
2013	Schrader Frm #1		160	Corn	180	200▯	77▯	50▯	32,000	12,320	8,000
2013	Schrader Frm #2		77.5	Corn	180	170▯	77▯	50▯	13,175	5,968	3,875
2013	Schrader Fm #2		72.5	Corn	180	170▯	77▯	50▯	12,325	5,582	3,625
2013	Delp Farm #1		107.9	Soybean	65	0	55▯	85▯	0	5,935	9,172
2013	Delp Farm # 2		10	Wheat	70	120▯	65▯	30▯	1,200	650	300
2013	Delp Farm #3		53.5	Corn	180	200▯	77▯	50▯	10,700	4,120	2,675
2013	Fink Farm #1		150	Soybean	65	0	55▯	85▯	0	8,250	12,750
2013	Fink Frm #2		120	Corn	180	200▯	77▯	50▯	24,000	9,240	6,000
2013	Flikkema Frm#1		200	Corn	180	170▯	77▯	50▯	34,000	15,400	10,000
2013	Flikkema Frm #2		240	Corn	180	200▯	77▯	50▯	48,000	18,480	12,000
2013	Nerhkorn Frm #1		92.8	Corn	180	200▯	77▯	50▯	18,560	7,146	4,640
2013	Nehrkorn Frm #2		331	Corn	180	200▯	77▯	50▯	66,200	25,487	16,550
2013	Nehrkorn Frm #3		47	Corn	180	200▯	77▯	50▯	9,400	3,619	2,350
2013	Nehrkorn Frm #4		130.6	Soybean	65	0	55▯	85▯	0	7,183	11,101
2013	Nehrkorn Frm #5		74	Corn	180	170▯	77▯	50▯	12,580	5,698	3,700
2013	Nehrkorn		67.2	Corn	180	200▯	77▯	50▯	13,440	5,174	3,360
2013	NehrkornKruse 2		96.9	Corn	180	200▯	77▯	50▯	19,380	7,461	4,845
2013	NehrkornKruse 3		56.4	Corn	180	200▯	77▯	50▯	11,280	4,343	2,820
2013	NehrkornKruse 1		16.5	Corn	180	200▯	77▯	50▯	3,300	1,270	825
2013	Nehrkorn Metz64		154.3	Corn	180	170▯	77▯	50▯	26,231	11,881	7,715
2013	Nehrkorn Rbsn		74.8	Corn	180	200▯	77▯	50▯	14,960	5,760	3,740
2013	NerhkornPluck N		208.7	Corn	180	200▯	77▯	50▯	41,740	16,070	10,435
Total			3877.6						558,661	275,715	227,473
2014	Stoner Farm #1		387	Soybean	65	0	55▯	85▯	0	21,285	32,895

<i>Year</i>	<i>Field ID</i>	<i>Sub ID</i>	<i>Size</i> <i>Acres</i>	<i>Crop</i>	<i>Yield Goal</i> <i>/Acre</i>	<i>N</i> <i>Lb/Acre</i>	<i>P₂O₅</i> <i>Lb/Acre</i>	<i>K₂O</i> <i>Lb/Acre</i>	<i>N</i> <i>Lb/Field</i>	<i>P₂O₅</i> <i>Lb/Field</i>	<i>K₂O</i> <i>Lb/Field</i>
2014	Stoner Farm #4		60	Corn	180	200	77	50	12,000	4,620	3,000
2014	Stoner Farm #5		497	Corn	180	170	77	50	84,490	38,269	24,850
2014	Byers Farm #1		127	Corn	180	200	77	50	25,400	9,779	6,350
2014	Byers Farm #2		60	Corn	180	200	77	50	12,000	4,620	3,000
2014	Jassen Farm #1		125	Soybean	65	0	55	85	0	6,875	10,625
2014	Frederick Fm #2		80	Corn	180	170	77	50	13,600	6,160	4,000
2014	Schrader Frm #1		160	Corn	180	200	77	50	32,000	12,320	8,000
2014	Schrader Frm #2		77.5	Corn	180	200	77	50	15,500	5,968	3,875
2014	Schrader Fm #2		72.5	Corn	180	200	77	50	14,500	5,582	3,625
2014	Delp Farm #1		107.9	Wheat	70	120	65	30	12,948	7,014	3,237
2014	Delp Farm # 2		10	Soybean	65	0	55	85	0	550	850
2014	Delp Farm #3		53.5	Soybean	65	0	55	85	0	2,942	4,548
2014	Fink Farm #1		150	Corn	180	170	77	50	25,500	11,550	7,500
2014	Fink Frm #2		120	Soybean	65	0	55	85	0	6,600	10,200
2014	Flikkema Frm#1		200	Corn	180	200	77	50	40,000	15,400	10,000
2014	Flikkema Frm #2		240	Corn	180	200	77	50	48,000	18,480	12,000
2014	Nerhkorn Frm #1		92.8	Soybean	65	0	55	85	0	5,104	7,888
2014	Nerhkorn Frm #2		331	Corn	180	200	77	50	66,200	25,487	16,550
2014	Nerhkorn Frm #3		47	Corn	180	200	77	50	9,400	3,619	2,350
2014	Nerhkorn Frm #4		130.6	Corn	180	170	77	50	22,202	10,056	6,530
2014	Nerhkorn Frm #5		74	Corn	180	200	77	50	14,800	5,698	3,700
2014	Nerhkorn		67.2	Soybean	65	0	55	85	0	3,696	5,712
2014	NerhkornKruse 2		96.9	Corn	180	200	77	50	19,380	7,461	4,845
2014	NerhkornKruse 3		56.4	Soybean	65	0	55	85	0	3,102	4,794
2014	NerhkornKruse 1		16.5	Corn	180	200	77	50	3,300	1,270	825
2014	Nerhkorn Metz64		154.3	Corn	180	200	77	50	30,860	11,881	7,715
2014	Nerhkorn Rbsn		74.8	Corn	180	200	77	50	14,960	5,760	3,740
2014	NerhkornPluck N		208.7	Corn	180	200	77	50	41,740	16,070	10,435
Total			3877.6						558,780	277,218	223,639
2015	Stoner Farm #1		387	Corn	180	170	77	50	65,790	29,799	19,350
2015	Stoner Farm #4		60	Corn	180	200	77	50	12,000	4,620	3,000
2015	Stoner Farm #5		497	Corn	180	200	77	50	99,400	38,269	24,850
2015	Byers Farm #1		127	Corn	180	200	77	85	25,400	9,779	10,795
2015	Byers Farm #2		60	Soybean	65	0	55	85	0	3,300	5,100
2015	Jassen Farm #1		125	Wheat	70	120	65	30	15,000	8,125	3,750
2015	Frederick Fm #2		80	Corn	180	200	77	50	16,000	6,160	4,000
2015	Schrader Frm #1		160	Soybean	65	0	55	85	0	8,800	13,600
2015	Schrader Frm #2		77.5	Soybean	65	200	77	50	15,500	5,968	3,875
2015	Schrader Fm #2		72.5	Soybean	65	200	77	50	14,500	5,582	3,625
2015	Delp Farm #1		107.9	Corn	180	200	77	50	21,580	8,308	5,395
2015	Delp Farm # 2		10	Wheat	70	120	65	30	1,200	650	300
2015	Delp Farm #3		53.5	Corn	180	170	77	50	9,095	4,120	2,675

<i>Year</i>	<i>Field ID</i>	<i>Sub ID</i>	<i>Size</i> <i>Acres</i>	<i>Crop</i>	<i>Yield Goal</i> <i>/Acre</i>	<i>N</i> <i>Lb/Acre</i>	<i>P₂O₅</i> <i>Lb/Acre</i>	<i>K₂O</i> <i>Lb/Acre</i>	<i>N</i> <i>Lb/Field</i>	<i>P₂O₅</i> <i>Lb/Field</i>	<i>K₂O</i> <i>Lb/Field</i>
2015	Fink Farm #1		150	Corn	180	200▯	77▯	50▯	30,000	11,550	7,500
2015	Fink Frm #2		120	Corn	180	170▯	77▯	50▯	20,400	9,240	6,000
2015	Flikkema Frm#1		200	Corn	180	200▯	77▯	50▯	40,000	15,400	10,000
2015	Flikkema Frm #2		240	Soybean	65	0	55▯	85▯	0	13,200	20,400
2015	Nerhkorn Frm #1		92.8	Corn	180	170▯	77▯	50▯	15,776	7,146	4,640
2015	Nehrkorn Frm #2		331	Soybean	65	0	55▯	85▯	0	18,205	28,135
2015	Nehrkorn Frm #3		47	Soybean	65	0	55▯	85▯	0	2,585	3,995
2015	Nehrkorn Frm #4		130.6	Corn	180	200▯	77▯	50▯	26,120	10,056	6,530
2015	Nehrkorn Frm #5		74	Corn	180	200▯	77▯	50▯	14,800	5,698	3,700
2015	Nehrkorn		67.2	Corn	180	170▯	77▯	50▯	11,424	5,174	3,360
2015	NehrkornKruse 2		96.9	Soybean	65	0	55▯	85▯	0	5,330	8,237
2015	NehrkornKruse 3		56.4	Corn	180	170▯	77▯	50▯	9,588	4,343	2,820
2015	NehrkornKruse 1		16.5	Corn	180	200▯	77▯	50▯	3,300	1,270	825
2015	Nehrkorn Metz64		154.3	Corn	180	200▯	77▯	50▯	30,860	11,881	7,715
2015	Nehrkorn Rbsn		74.8	Soybean	65	0	55▯	85▯	0	4,114	6,358
2015	NerhkornPluck N		208.7	Corn	180	200▯	77▯	50▯	41,740	16,070	10,435
Total			3877.6						539,473	274,742	230,965
2016	Stoner Farm #1		387	Corn	180	200▯	77▯	50▯	77,400	29,799	19,350
2016	Stoner Farm #4		60	Corn	180	200▯	77▯	50▯	12,000	4,620	3,000
2016	Stoner Farm #5		497	Corn	180	200▯	77▯	50▯	99,400	38,269	24,850
2016	Byers Farm #1		127	Corn	180	200▯	77▯	85▯	25,400	9,779	10,795
2016	Byers Farm #2		60	Corn	180	170▯	77▯	50▯	10,200	4,620	3,000
2016	Jassen Farm #1		125	Corn	180	200▯	77▯	50▯	25,000	9,625	6,250
2016	Frederick Fm #2		80	Soybean	65	0	55▯	85▯	0	4,400	6,800
2016	Schrader Frm #1		160	Corn	180	170▯	77▯	50▯	27,200	12,320	8,000
2016	Schrader Frm #2		77.5	Corn	180	175	55▯	85▯	13,562	4,262	6,588
2016	Schrader Fm #2		72.5	Corn	180	175	55▯	85▯	12,688	3,988	6,162
2016	Delp Farm #1		107.9	Soybean	65	0	55▯	85▯	0	5,935	9,172
2016	Delp Farm # 2		10	Soybean	65	0	55▯	85▯	0	550	850
2016	Delp Farm #3		53.5	Corn	180	200▯	77▯	50▯	10,700	4,120	2,675
2016	Fink Farm #1		150	Soybean	65	0	55▯	85▯	0	8,250	12,750
2016	Fink Frm #2		120	Corn	180	200▯	77▯	50▯	24,000	9,240	6,000
2016	Flikkema Frm#1		200	Soybean	65	0	55▯	85▯	0	11,000	17,000
2016	Flikkema Frm #2		240	Corn	180	170▯	77▯	50▯	40,800	18,480	12,000
2016	Nerhkorn Frm #1		92.8	Corn	180	200▯	77▯	50▯	18,560	7,146	4,640
2016	Nehrkorn Frm #2		331	Corn	180	170▯	77▯	50▯	56,270	25,487	16,550
2016	Nehrkorn Frm #3		47	Corn	180	170▯	77▯	50▯	7,990	3,619	2,350
2016	Nehrkorn Frm #4		130.6	Corn	180	200▯	77▯	50▯	26,120	10,056	6,530
2016	Nehrkorn Frm #5		74	Corn	180	200▯	77▯	50▯	14,800	5,698	3,700
2016	Nehrkorn		67.2	Corn	180	200▯	77▯	50▯	13,440	5,174	3,360
2016	NehrkornKruse 2		96.9	Corn	180	170▯	77▯	50▯	16,473	7,461	4,845
2016	NehrkornKruse 3		56.4	Corn	180	200▯	77▯	50▯	11,280	4,343	2,820

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Operation: Northwest Illini Feed Lots

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State: Illinois
Init. File Rev: 10/19/2011

<i>Year</i>	<i>Field ID</i>	<i>Sub ID</i>	<i>Size</i> <i>Acres</i>	<i>Crop</i>	<i>Yield Goal</i> <i>/Acre</i>	<i>N</i> <i>Lb/Acre</i>	<i>P₂O₅</i> <i>Lb/Acre</i>	<i>K₂O</i> <i>Lb/Acre</i>	<i>N</i> <i>Lb/Field</i>	<i>P₂O₅</i> <i>Lb/Field</i>	<i>K₂O</i> <i>Lb/Field</i>
2016	NehrkornKruse 1		16.5	Soybean	65	0	55▣	85▣	0	908	1,402
2016	Nehrkorn Metz64		154.3	Corn	180	200▣	77▣	50▣	30,860	11,881	7,715
2016	Nehrkorn Rbsn		74.8	Corn	180	170▣	77▣	50▣	12,716	5,760	3,740
2016	NerhkornPluck N		208.7	Soybean	180	0	55▣	85▣	0	11,478	17,739
Total			3877.6						586,859	278,268	230,633

Notes

▣ Indicates a custom fertilizer recommendation.

Field Nutrient Balance

Plan File: S:\238\2007 projects\23807036.01 (NW Illini CNMP update and permit appl)\MMP NWI 4-9-12.mmp
Operation: Northwest Illini Feed Lots

Last Saved: 4/12/2012
State: Illinois
Init. File Rev: 10/19/2011

Year	Field ID	Sub ID	Size Acres ¹	Crop	Yield Goal /Acre	Fertilizer Recs ²			Nutrients Applied ³			Balance After Recs ⁴			After Removal ⁵	
						N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	P ₂ O ₅	K ₂ O
2010	Stoner Farm #1		360	Corn	180	170	77	50	170	156	168	0	79	118	79	118
2011	Stoner Farm #1		360	Corn	180	200	77	50	181	0	0	0†	2	68	2	68
2012	Stoner Farm #1		360	Corn	180	200	77	50	132	78	84	-58†	3	102	3	102
2013	Stoner Farm #1		360	Corn	180	200	77	50	169	137	147	-16†	63	199	63	199
2014	Stoner Farm #1		360	Soybean	65	0	55	85	0	0	0	0	8	114	8	114
2015	Stoner Farm #1		360	Corn	180	170	77	50	155	156	168	-5†	87	232	87	232
2016	Stoner Farm #1		360	Corn	180	200	77	50	177	0	0	0†	10	182	10	182
Total	Stoner Farm #1		360			1,140	517	385	984	527	567					
2010	Stoner Farm #1		27	Corn	180	170	77	50	170	77	50	0	0	0	0	0
2011	Stoner Farm #1		27	Corn	180	200	77	50	200	77	50	0	0	0	0	0
2012	Stoner Farm #1		27	Corn	180	200	77	50	200	99	50	0	22	0	22	0
2013	Stoner Farm #1		27	Corn	180	200	77	50	200	55	85	0	0	35	0	35
2014	Stoner Farm #1		27	Soybean	65	0	55	85	0	0	0	0	-55	-50	-55	-50
2015	Stoner Farm #1		27	Corn	180	170	77	50	170	99	100	0	22	50	22	50
2016	Stoner Farm #1		27	Corn	180	200	77	50	200	55	85	0	0	85	0	85
Total	Stoner Farm #1		27			1,140	517	385	1,140	462	420					
2010	Stoner Farm #4		57.1	Corn	180	200	77	50	205	226	243	5	149	193	149	193
2011	Stoner Farm #4		57.1	Corn	180	170	77	50	144	0	0	1†	72	143	72	143
2012	Stoner Farm #4		57.1	Soybean	65	0	55	85	0	0	0	0	17	58	17	58
2013	Stoner Farm #4		57.1	Corn	180	170	77	50	166	164	177	3†	104	185	104	185
2014	Stoner Farm #4		57.1	Corn	180	200	77	50	181	0	0	1†	27	135	27	135
2015	Stoner Farm #4		57.1	Corn	180	200	77	50	193	164	177	4†	114	262	114	262
2016	Stoner Farm #4		57.1	Corn	180	200	77	50	176	0	0	1†	37	212	37	212
Total	Stoner Farm #4		57.1			1,140	517	385	1,065	554	597					
2010	Stoner Farm #4		2.9	Corn	180	200	77	50	108	0	0	-92	-77	-50	-77	-50
2011	Stoner Farm #4		2.9	Corn	180	170	77	50	144	0	0	-26	-77	-50	-77	-50
2012	Stoner Farm #4		2.9	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2013	Stoner Farm #4		2.9	Corn	180	170	77	50	96	0	0	-74	-77	-50	-77	-50
2014	Stoner Farm #4		2.9	Corn	180	200	77	50	181	0	0	-19	-77	-50	-77	-50
2015	Stoner Farm #4		2.9	Corn	180	200	77	50	123	0	0	-77	-77	-50	-77	-50
2016	Stoner Farm #4		2.9	Corn	180	200	77	50	176	0	0	-24	-77	-50	-77	-50
Total	Stoner Farm #4		2.9			1,140	517	385	828	0	0					

Year	Field ID	Sub ID	Size Acres ¹	Crop	Yield Goal /Acre	Fertilizer Recs ²			Nutrients Applied ³			Balance After Recs ⁴			After Removal ⁵	
						N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	P ₂ O ₅	K ₂ O
						Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A
2010	Stoner Farm #5		450	Corn	180	170	77	50	170	156	168	0	79	118	79	118
2011	Stoner Farm #5		450	Corn	180	200	77	50	181	0	0	0†	2	68	2	68
2012	Stoner Farm #5		450	Corn	180	200	77	50	190	137	147	0†	62	165	62	165
2013	Stoner Farm #5		450	Soybean	65	0	55	85	0	0	0	0	7	80	7	80
2014	Stoner Farm #5		450	Corn	180	170	77	50	162	234	252	0†	164	282	164	282
2015	Stoner Farm #5		450	Corn	180	200	77	50	167	0	0	0†	87	232	87	232
2016	Stoner Farm #5		450	Corn	180	200	77	50	186	0	0	0†	10	182	10	182
Total	Stoner Farm #5		450			1,140	517	385	1,056	527	567					
2010	Stoner Farm #5		47	Corn	180	170	77	50	170	77	50	0	0	0	0	0
2011	Stoner Farm #5		47	Corn	180	200	77	50	200	99	50	0	22	0	22	0
2012	Stoner Farm #5		47	Corn	180	200	77	50	200	55	85	0	0	35	0	35
2013	Stoner Farm #5		47	Soybean	65	0	55	85	0	0	0	0	-55	-50	-55	-50
2014	Stoner Farm #5		47	Corn	180	170	77	50	170	77	50	0	0	0	0	0
2015	Stoner Farm #5		47	Corn	180	200	77	50	200	99	50	0	22	0	22	0
2016	Stoner Farm #5		47	Corn	180	200	77	50	200	55	85	0	0	35	0	35
Total	Stoner Farm #5		47			1,140	517	385	1,140	462	370					
2010	Byers Farm #1		122	Corn	180	200	77	50	200	215	231	0	138	181	138	181
2011	Byers Farm #1		122	Corn	180	200	77	50	174	0	0	0†	61	131	61	131
2012	Byers Farm #1		122	Soybean	65	0	55	85	0	0	0	0	6	46	6	46
2013	Byers Farm #1		122	Corn	180	170	77	50	163	156	168	0†	85	164	85	164
2014	Byers Farm #1		122	Corn	180	200	77	50	181	0	0	0†	8	114	8	114
2015	Byers Farm #1		122	Corn	180	200	77	85	190	156	168	0†	87	197	87	232
2016	Byers Farm #1		122	Corn	180	200	77	85	176	0	0	0†	10	112	10	182
Total	Byers Farm #1		122			1,170	517	455	1,084	527	567					
2010	Byers Farm #1		5	Corn	180	200	77	50	200	154	185	0	77	135	77	135
2011	Byers Farm #1		5	Corn	180	200	77	50	200	55	0	0	55	85	55	85
2012	Byers Farm #1		5	Soybean	65	0	55	85	0	0	0	0	0	0	0	0
2013	Byers Farm #1		5	Corn	180	170	77	50	170	77	0	0	0	-50	0	-50
2014	Byers Farm #1		5	Corn	180	200	77	50	200	77	0	0	0	-50	0	-50
2015	Byers Farm #1		5	Corn	180	200	77	85	200	99	0	0	22	-85	22	-50
2016	Byers Farm #1		5	Corn	180	200	77	85	200	55	0	0	0	-85	0	-50
Total	Byers Farm #1		5			1,170	517	455	1,170	517	185					

Year	Field ID	Sub ID	Size Acres ¹	Crop	Yield Goal /Acre	Fertilizer Recs ²			Nutrients Applied ³			Balance After Recs ⁴			After Removal ⁵	
						N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	P ₂ O ₅	K ₂ O
						Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A
2010	Byers Farm #2		55	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Byers Farm #2		55	Corn	180	200	77	50	200	137	147	0	60	97	60	97
2012	Byers Farm #2		55	Corn	180	200	77	50	183	156	168	0†	139	215	139	215
2013	Byers Farm #2		55	Corn	180	200	77	50	173	0	0	0†	62	165	62	165
2014	Byers Farm #2		55	Corn	180	200	77	50	186	137	147	0†	122	262	122	262
2015	Byers Farm #2		55	Soybean	65	0	55	85	0	0	0	0	67	177	67	177
2016	Byers Farm #2		55	Corn	180	170	77	50	162	78	84	0†	68	211	68	211
Total	Byers Farm #2		55			970	495	420	904	508	546					
2010	Byers Farm #2		5	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Byers Farm #2		5	Corn	180	200	77	50	200	77	50	0	0	0	0	0
2012	Byers Farm #2		5	Corn	180	200	77	50	200	77	50	0	0	0	0	0
2013	Byers Farm #2		5	Corn	180	200	77	50	200	99	50	0	22	0	22	0
2014	Byers Farm #2		5	Corn	180	200	77	50	200	55	85	0	0	35	0	35
2015	Byers Farm #2		5	Soybean	65	0	55	85	0	0	0	0	-55	-50	-55	-50
2016	Byers Farm #2		5	Corn	180	170	77	50	170	132	135	0	55	85	55	85
Total	Byers Farm #2		5			970	495	420	970	440	370					
2010	Jassen Farm #1		121	Corn	180	200	77	50	194	124	133	-6	47	83	47	83
2011	Jassen Farm #1		121	Soybean	65	0	55	85	0	0	0	0	-8	-2	-8	-2
2012	Jassen Farm #1		121	Wheat	70	120	65	30	112	65	70	0†	0	40	23	49
2013	Jassen Farm #1		121	Corn	180	200	65	50	182	124	133	-6†	59	123	70	132
2014	Jassen Farm #1		121	Soybean	65	0	55	85	0	0	0	0	4	38	15	47
2015	Jassen Farm #1		121	Wheat	70	120	65	30	22	52	56	-88†	-9	64	25	82
2016	Jassen Farm #1		121	Corn	180	200	77	50	188	78	84	-2†	1	98	26	116
Total	Jassen Farm #1		121			840	459	380	698	443	476					
2010	Jassen Farm #1		4	Corn	180	200	77	50	200	132	165	0	55	115	55	115
2011	Jassen Farm #1		4	Soybean	65	0	55	85	0	0	0	0	0	30	0	30
2012	Jassen Farm #1		4	Wheat	70	120	65	30	120	65	0	0	0	0	23	9
2013	Jassen Farm #1		4	Corn	180	200	65	50	200	120	165	0	55	115	66	124
2014	Jassen Farm #1		4	Soybean	65	0	55	85	0	0	0	0	0	30	11	39
2015	Jassen Farm #1		4	Wheat	70	120	65	30	0	0	0	-120	-65	0	-31	18
2016	Jassen Farm #1		4	Corn	180	200	77	50	200	132	0	0	55	-50	55	-32
Total	Jassen Farm #1		4			840	459	380	720	449	330					

Year	Field ID	Sub ID	Size Acres ¹	Crop	Yield Goal /Acre	Fertilizer Recs ²			Nutrients Applied ³			Balance After Recs ⁴			After Removal ⁵	
						N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	P ₂ O ₅	K ₂ O
						Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A
2010	Frederick Fm #2		70	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Frederick Fm #2		70	Corn	180	170	77	50	170	137	147	0	60	97	60	97
2012	Frederick Fm #2		70	Corn	180	200	77	50	183	137	147	0†	120	194	120	194
2013	Frederick Fm #2		70	Soybean	65	0	55	85	0	0	0	0	65	109	65	109
2014	Frederick Fm #2		70	Corn	180	170	77	50	158	78	84	0†	66	143	66	143
2015	Frederick Fm #2		70	Corn	180	200	77	50	186	137	147	0†	126	240	126	240
2016	Frederick Fm #2		70	Soybean	65	0	55	85	0	0	0	0	71	155	71	155
Total	Frederick Fm #2		70			740	473	455	697	489	525					
2010	Frederick Fm #2		10	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Frederick Fm #2		10	Corn	180	170	77	50	170	154	100	0	77	50	77	50
2012	Frederick Fm #2		10	Corn	180	200	77	50	200	55	85	0	55	85	55	85
2013	Frederick Fm #2		10	Soybean	65	0	55	85	0	0	0	0	0	0	0	0
2014	Frederick Fm #2		10	Corn	180	170	77	50	170	154	100	0	77	50	77	50
2015	Frederick Fm #2		10	Corn	180	200	77	50	200	55	85	0	55	85	55	85
2016	Frederick Fm #2		10	Soybean	65	0	55	85	0	0	0	0	0	0	0	0
Total	Frederick Fm #2		10			740	473	455	740	418	370					
2010	Schrader Frm #1		145	Corn	180	170	77	50	170	137	147	0	60	97	60	97
2011	Schrader Frm #1		145	Soybean	65	0	55	85	0	0	0	0	5	12	5	12
2012	Schrader Frm #1		145	Corn	180	170	77	50	162	156	168	0†	84	130	84	130
2013	Schrader Frm #1		145	Corn	180	200	77	50	177	0	0	0†	7	80	7	80
2014	Schrader Frm #1		145	Corn	180	200	77	50	190	137	147	0†	67	177	67	177
2015	Schrader Frm #1		145	Soybean	65	0	55	85	0	0	0	0	12	92	12	92
2016	Schrader Frm #1		145	Corn	180	170	77	50	162	78	84	0†	13	126	13	126
Total	Schrader Frm #1		145			910	495	420	861	508	546					
2010	Schrader Frm #1		15	Corn	180	170	77	50	170	132	135	0	55	85	55	85
2011	Schrader Frm #1		15	Soybean	65	0	55	85	0	0	0	0	0	0	0	0
2012	Schrader Frm #1		15	Corn	180	170	77	50	170	77	50	0	0	0	0	0
2013	Schrader Frm #1		15	Corn	180	200	77	50	200	99	50	0	22	0	22	0
2014	Schrader Frm #1		15	Corn	180	200	77	50	200	55	85	0	0	35	0	35
2015	Schrader Frm #1		15	Soybean	65	0	55	85	0	0	0	0	-55	-50	-55	-50
2016	Schrader Frm #1		15	Corn	180	170	77	50	170	132	135	0	55	85	55	85
Total	Schrader Frm #1		15			910	495	420	910	495	455					

Year	Field ID	Sub ID	Size Acres ¹	Crop	Yield Goal /Acre	Fertilizer Recs ²			Nutrients Applied ³			Balance After Recs ⁴			After Removal ⁵	
						N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	P ₂ O ₅	K ₂ O
2010	Schrader Frm #2		70.5	Corn	180	200	77	50	155	66	325	-45	-11	275	-11	275
2011	Schrader Frm #2		70.5	Corn	180	200	77	50	183	12	61	-5†	-65	286	-65	286
2012	Schrader Frm #2		70.5	Soybean	65	0	55	85	0	0	0	0	-55	201	-55	201
2013	Schrader Frm #2		70.5	Corn	180	170	77	50	169	46	226	0†	-31	377	-31	377
2014	Schrader Frm #2		70.5	Corn	180	200	77	50	123	12	61	-69†	-65	388	-65	388
2015	Schrader Frm #2		70.5	Soybean	65	200	77	50	119	0	0	-75†	-77	338	-55	303
2016	Schrader Frm #2		70.5	Corn	180	175	55	85	39	36	177	-135†	-19	430	-41	430
Total	Schrader Frm #2		70.5			1,145	495	420	788	172	850					
2010	Schrader Frm #2		7	Corn	180	200	77	50	200	99	50	0	22	0	22	0
2011	Schrader Frm #2		7	Corn	180	200	77	50	200	55	85	0	0	35	0	35
2012	Schrader Frm #2		7	Soybean	65	0	55	85	0	0	0	0	-55	-50	-55	-50
2013	Schrader Frm #2		7	Corn	180	170	77	50	170	132	50	0	55	0	55	0
2014	Schrader Frm #2		7	Corn	180	200	77	50	200	22	50	0	0	0	0	0
2015	Schrader Frm #2		7	Soybean	65	200	77	50	200	55	85	0	-22	35	0	0
2016	Schrader Frm #2		7	Corn	180	175	55	85	0	0	0	-175	-55	-50	-77	-50
Total	Schrader Frm #2		7			1,145	495	420	970	363	320					
2010	Schrader Fm #2		65.5	Corn	180	170	77	50	103	46	226	-67	-31	176	-31	176
2011	Schrader Fm #2		65.5	Corn	180	200	77	50	195	23	113	3†	-54	239	-54	239
2012	Schrader Fm #2		65.5	Soybean	65	0	55	85	0	0	0	0	-55	154	-55	154
2013	Schrader Fm #2		65.5	Corn	180	170	77	50	149	35	173	-19†	-42	277	-42	277
2014	Schrader Fm #2		65.5	Corn	180	200	77	50	151	23	113	-43†	-54	340	-54	340
2015	Schrader Fm #2		65.5	Soybean	65	200	77	50	86	0	0	-107†	-77	290	-55	255
2016	Schrader Fm #2		65.5	Corn	180	175	55	85	50	46	226	-123†	-9	431	-31	431
Total	Schrader Fm #2		65.5			1,115	495	420	734	173	851					
2010	Schrader Fm #2		7	Corn	180	170	77	50	170	99	50	0	22	0	22	0
2011	Schrader Fm #2		7	Corn	180	200	77	50	200	55	85	0	0	35	0	35
2012	Schrader Fm #2		7	Soybean	65	0	55	85	0	0	0	0	-55	-50	-55	-50
2013	Schrader Fm #2		7	Corn	180	170	77	50	170	132	100	0	55	50	55	50
2014	Schrader Fm #2		7	Corn	180	200	77	50	200	22	0	0	0	0	0	0
2015	Schrader Fm #2		7	Soybean	65	200	77	50	200	55	85	0	-22	35	0	0
2016	Schrader Fm #2		7	Corn	180	175	55	85	0	0	0	-175	-55	-50	-77	-50
Total	Schrader Fm #2		7			1,115	495	420	940	363	320					

Year	Field ID	Sub ID	Size Acres ¹	Crop	Yield Goal /Acre	Fertilizer Recs ²			Nutrients Applied ³			Balance After Recs ⁴			After Removal ⁵	
						N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	P ₂ O ₅	K ₂ O
						Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A
2010	Delp Farm #1		103.8	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Delp Farm #1		103.8	Wheat	70	120	65	30	131	149	160	11	84	130	107	139
2012	Delp Farm #1		103.8	Corn	180	200	77	50	126	0	0	-55	7	80	30	89
2013	Delp Farm #1		103.8	Soybean	65	0	55	85	26	61	66	0 ^a	13	61	36	70
2014	Delp Farm #1		103.8	Wheat	70	120	65	30	144	149	160	35	97	191	143	209
2015	Delp Farm #1		103.8	Corn	180	200	77	50	129	0	0	-48	20	141	66	159
2016	Delp Farm #1		103.8	Soybean	65	0	55	85	26	61	66	0 ^a	26	122	72	140
Total	Delp Farm #1		103.8			640	449	415	582	420	452					
2010	Delp Farm #1		4.1	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Delp Farm #1		4.1	Wheat	70	120	65	30	67	0	0	-53	-65	-30	-42	-21
2012	Delp Farm #1		4.1	Corn	180	200	77	50	126	0	0	-74	-77	-50	-77	-50
2013	Delp Farm #1		4.1	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2014	Delp Farm #1		4.1	Wheat	70	120	65	30	80	0	0	-40	-65	-30	-42	-21
2015	Delp Farm #1		4.1	Corn	180	200	77	50	129	0	0	-71	-77	-50	-77	-50
2016	Delp Farm #1		4.1	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
Total	Delp Farm #1		4.1			640	449	415	402	0	0					
2010	Delp Farm # 2		10	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Delp Farm # 2		10	Wheat	70	120	65	30	120	120	129	0	55	99	78	108
2012	Delp Farm # 2		10	Soybean	65	0	55	85	0	0	0	0	0	14	23	23
2013	Delp Farm # 2		10	Wheat	70	120	65	30	113	124	133	0	59	117	105	135
2014	Delp Farm # 2		10	Soybean	65	0	55	85	0	0	0	0	4	32	50	50
2015	Delp Farm # 2		10	Wheat	70	120	65	30	112	124	133	0	63	135	132	162
2016	Delp Farm # 2		10	Soybean	65	0	55	85	0	0	0	0	8	50	77	77
Total	Delp Farm # 2		10			360	415	430	345	368	395					
2010	Delp Farm #3		46.6	Soybean	65	0	55	82	0	0	0	0	-55	-82	-55	-85
2011	Delp Farm #3		46.6	Corn	180	170	77	50	170	137	147	0	60	97	60	97
2012	Delp Farm #3		46.6	Corn	180	200	77	50	183	78	84	0	61	131	61	131
2013	Delp Farm #3		46.6	Corn	180	200	77	50	182	137	147	0	121	228	121	228
2014	Delp Farm #3		46.6	Soybean	65	0	55	85	0	0	0	0	66	143	66	143
2015	Delp Farm #3		46.6	Corn	180	170	77	50	160	156	168	0	145	261	145	261
2016	Delp Farm #3		46.6	Corn	180	200	77	50	177	0	0	0	68	211	68	211
Total	Delp Farm #3		46.6			940	495	417	872	508	546					

Year	Field ID	Sub ID	Size Acres ¹	Crop	Yield Goal /Acre	Fertilizer Recs ²			Nutrients Applied ³			Balance After Recs ⁴			After Removal ⁵	
						N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	P ₂ O ₅	K ₂ O
						Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A
2010	Delp Farm #3		6.9	Soybean	65	0	55	82	0	0	0	0	-55	-82	-55	-85
2011	Delp Farm #3		6.9	Corn	180	170	77	50	170	154	100	0	77	50	77	50
2012	Delp Farm #3		6.9	Corn	180	200	77	50	200	77	0	0	77	0	77	0
2013	Delp Farm #3		6.9	Corn	180	200	77	50	200	55	0	0	55	-50	55	-50
2014	Delp Farm #3		6.9	Soybean	65	0	55	85	0	0	0	0	0	-85	0	-85
2015	Delp Farm #3		6.9	Corn	180	170	77	50	170	154	0	0	77	-50	77	-50
2016	Delp Farm #3		6.9	Corn	180	200	77	50	200	55	0	0	55	-50	55	-50
Total	Delp Farm #3		6.9			940	495	417	940	495	100					
2010	Fink Farm #1		138	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Fink Farm #1		138	Corn	180	170	77	50	120	23	113	-50	-54	63	-54	63
2012	Fink Farm #1		138	Corn	180	200	77	50	187	40	198	-9	-37	211	-37	211
2013	Fink Farm #1		138	Soybean	65	0	55	85	0	0	0	0	-55	126	-55	126
2014	Fink Farm #1		138	Corn	180	170	77	50	174	23	113	8	-54	189	-54	189
2015	Fink Farm #1		138	Corn	180	200	77	50	159	40	198	-37	-37	337	-37	337
2016	Fink Farm #1		138	Soybean	65	0	55	85	0	0	0	0	-55	252	-55	252
Total	Fink Farm #1		138			740	473	455	640	126	622					
2010	Fink Farm #1		12	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Fink Farm #1		12	Corn	180	170	77	50	170	154	100	0	77	50	77	50
2012	Fink Farm #1		12	Corn	180	200	77	50	200	55	85	0	55	85	55	85
2013	Fink Farm #1		12	Soybean	65	0	55	85	0	0	0	0	0	0	0	0
2014	Fink Farm #1		12	Corn	180	170	77	50	170	154	100	0	77	50	77	50
2015	Fink Farm #1		12	Corn	180	200	77	50	200	55	85	0	55	85	55	85
2016	Fink Farm #1		12	Soybean	65	0	55	85	0	0	0	0	0	0	0	0
Total	Fink Farm #1		12			740	473	455	740	418	370					
2010	Fink Frm #2		105	Corn	180	170	77	50	170	137	147	0	60	97	60	97
2011	Fink Frm #2		105	Soybean	65	0	55	85	0	0	0	0	5	12	5	12
2012	Fink Frm #2		105	Corn	180	170	77	50	162	78	84	0	6	46	6	46
2013	Fink Frm #2		105	Corn	180	200	77	50	186	137	147	0	66	143	66	143
2014	Fink Frm #2		105	Soybean	65	0	55	85	0	0	0	0	11	58	11	58
2015	Fink Frm #2		105	Corn	180	170	77	50	160	156	168	0	90	176	90	176
2016	Fink Frm #2		105	Corn	180	200	77	50	177	0	0	0	13	126	13	126
Total	Fink Frm #2		105			910	495	420	855	508	546					

Year	Field ID	Sub ID	Size Acres ¹	Crop	Yield Goal /Acre	Fertilizer Recs ²			Nutrients Applied ³			Balance After Recs ⁴			After Removal ⁵	
						N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	P ₂ O ₅	K ₂ O
						Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A
2010	Fink Frm #2		15	Corn	180	170	77	50	170	132	135	0	55	85	55	85
2011	Fink Frm #2		15	Soybean	65	0	55	85	0	0	0	0	0	0	0	0
2012	Fink Frm #2		15	Corn	180	170	77	50	170	99	50	0	22	0	22	0
2013	Fink Frm #2		15	Corn	180	200	77	50	200	55	85	0	0	35	0	35
2014	Fink Frm #2		15	Soybean	65	0	55	85	0	0	0	0	-55	-50	-55	-50
2015	Fink Frm #2		15	Corn	180	170	77	50	170	99	50	0	22	0	22	0
2016	Fink Frm #2		15	Corn	180	200	77	50	200	55	85	0	0	35	0	35
Total	Fink Frm #2		15			910	495	420	910	440	405					
2010	Flikkema Frm#1		187	Corn	180	200	77	50	201	218	235	1	141	185	141	185
2011	Flikkema Frm#1		187	Corn	180	200	77	50	174	0	0	0	64	135	64	135
2012	Flikkema Frm#1		187	Soybean	65	0	55	85	0	0	0	0	9	50	9	50
2013	Flikkema Frm#1		187	Corn	180	170	77	50	164	159	171	1	91	171	91	171
2014	Flikkema Frm#1		187	Corn	180	200	77	50	181	0	0	0	14	121	14	121
2015	Flikkema Frm#1		187	Corn	180	200	77	50	191	139	149	1	76	220	76	220
2016	Flikkema Frm#1		187	Soybean	65	0	55	85	0	0	0	0	21	135	21	135
Total	Flikkema Frm#1		187			970	495	420	911	516	555					
2010	Flikkema Frm#1		13	Corn	180	200	77	50	200	154	50	0	77	0	77	0
2011	Flikkema Frm#1		13	Corn	180	200	77	50	200	0	85	0	0	35	0	35
2012	Flikkema Frm#1		13	Soybean	65	0	55	85	0	0	0	0	-55	-50	-55	-50
2013	Flikkema Frm#1		13	Corn	180	170	77	50	170	154	50	0	77	0	77	0
2014	Flikkema Frm#1		13	Corn	180	200	77	50	200	0	50	0	0	0	0	0
2015	Flikkema Frm#1		13	Corn	180	200	77	50	200	0	85	0	-77	35	-77	35
2016	Flikkema Frm#1		13	Soybean	65	0	55	85	0	0	0	0	-55	-50	-55	-50
Total	Flikkema Frm#1		13			970	495	420	970	308	320					
2010	Flikkema Frm #2		231.4	Corn	180	170	77	50	172	142	152	2	65	102	65	102
2011	Flikkema Frm #2		231.4	Soybean	65	0	55	85	0	0	0	0	10	17	10	17
2012	Flikkema Frm #2		231.4	Corn	180	180	77	50	174	162	174	2	95	141	95	141
2013	Flikkema Frm #2		231.4	Corn	180	200	77	50	177	0	0	1	18	91	18	91
2014	Flikkema Frm #2		231.4	Corn	180	200	77	50	192	142	152	2	83	193	83	193
2015	Flikkema Frm #2		231.4	Soybean	65	0	55	85	0	0	0	0	28	108	28	108
2016	Flikkema Frm #2		231.4	Corn	180	170	77	50	163	81	87	1	32	145	32	145
Total	Flikkema Frm #2		231.4			920	495	420	878	527	565					

Year	Field ID	Sub ID	Size Acres ¹	Crop	Yield Goal /Acre	Fertilizer Recs ²			Nutrients Applied ³			Balance After Recs ⁴			After Removal ⁵	
						N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	P ₂ O ₅	K ₂ O
						Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A
2010	Flikkema Frm #2		8.6	Corn	180	170	77	50	111	0	0	-59	-77	-50	-77	-50
2011	Flikkema Frm #2		8.6	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2012	Flikkema Frm #2		8.6	Corn	180	180	77	50	105	0	0	-75	-77	-50	-77	-50
2013	Flikkema Frm #2		8.6	Corn	180	200	77	50	177	0	0	-23	-77	-50	-77	-50
2014	Flikkema Frm #2		8.6	Corn	180	200	77	50	131	0	0	-69	-77	-50	-77	-50
2015	Flikkema Frm #2		8.6	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2016	Flikkema Frm #2		8.6	Corn	180	170	77	50	128	0	0	-42	-77	-50	-77	-50
Total	Flikkema Frm #2		8.6			920	495	420	652	0	0					
2010	Nerhkorn Frm #1		87	Corn	180	200	77	50	200	156	168	0	79	118	79	118
2011	Nerhkorn Frm #1		87	Corn	180	200	77	50	181	0	0	0†	2	68	2	68
2012	Nerhkorn Frm #1		87	Corn	180	200	77	50	190	78	84	0†	3	102	3	102
2013	Nerhkorn Frm #1		87	Corn	180	200	77	50	185	137	147	0†	63	199	63	199
2014	Nerhkorn Frm #1		87	Soybean	65	0	55	85	0	0	0	0	8	114	8	114
2015	Nerhkorn Frm #1		87	Corn	180	170	77	50	160	156	168	0†	87	232	87	232
2016	Nerhkorn Frm #1		87	Corn	180	200	77	50	177	0	0	0†	10	182	10	182
Total	Nerhkorn Frm #1		87			1,170	517	385	1,093	527	567					
2010	Nerhkorn Frm #1		5.8	Corn	180	200	77	50	200	77	50	0	0	0	0	0
2011	Nerhkorn Frm #1		5.8	Corn	180	200	77	50	200	77	50	0	0	0	0	0
2012	Nerhkorn Frm #1		5.8	Corn	180	200	77	50	200	99	0	0	22	-50	22	-50
2013	Nerhkorn Frm #1		5.8	Corn	180	200	77	50	200	55	85	0	0	35	0	35
2014	Nerhkorn Frm #1		5.8	Soybean	65	0	55	85	0	0	0	0	-55	-50	-55	-50
2015	Nerhkorn Frm #1		5.8	Corn	180	170	77	50	170	99	50	0	22	0	22	0
2016	Nerhkorn Frm #1		5.8	Corn	180	200	77	50	200	55	85	0	0	35	0	35
Total	Nerhkorn Frm #1		5.8			1,170	517	385	1,170	462	320					
2010	Nehrkorn Frm #2		321	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Nehrkorn Frm #2		321	Corn	180	170	77	50	171	235	254	1	158	204	158	204
2012	Nehrkorn Frm #2		321	Corn	180	200	77	50	171	0	0	0†	81	154	81	154
2013	Nehrkorn Frm #2		321	Corn	180	200	77	50	186	0	0	0†	4	104	4	104
2014	Nehrkorn Frm #2		321	Corn	180	200	77	50	193	138	148	0†	65	202	65	202
2015	Nehrkorn Frm #2		321	Soybean	65	0	55	85	0	0	0	0	10	117	10	117
2016	Nehrkorn Frm #2		321	Corn	180	170	77	50	162	78	85	0†	11	152	11	152
Total	Nehrkorn Frm #2		321			940	495	420	883	451	487					

Year	Field ID	Sub ID	Size Acres ¹	Crop	Yield Goal /Acre	Fertilizer Recs ²			Nutrients Applied ³			Balance After Recs ⁴			After Removal ⁵	
						N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	P ₂ O ₅	K ₂ O
2010	Nehrkorn Frm #2		10	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Nehrkorn Frm #2		10	Corn	180	170	77	50	170	154	100	0	77	50	77	50
2012	Nehrkorn Frm #2		10	Corn	180	200	77	50	200	77	50	0	77	50	77	50
2013	Nehrkorn Frm #2		10	Corn	180	200	77	50	200	77	50	0	77	50	77	50
2014	Nehrkorn Frm #2		10	Corn	180	200	77	50	200	55	85	0	55	85	55	85
2015	Nehrkorn Frm #2		10	Soybean	65	0	55	85	0	0	0	0	0	0	0	0
2016	Nehrkorn Frm #2		10	Corn	180	170	77	50	170	132	135	0	55	85	55	85
Total	Nehrkorn Frm #2		10			940	495	420	940	495	420					
2010	Nehrkorn Frm #3		45.1	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Nehrkorn Frm #3		45.1	Corn	180	170	77	50	172	143	153	2	66	103	66	103
2012	Nehrkorn Frm #3		45.1	Corn	180	200	77	50	186	163	175	4†	152	228	152	228
2013	Nehrkorn Frm #3		45.1	Corn	180	200	77	50	173	0	0	1†	75	178	75	178
2014	Nehrkorn Frm #3		45.1	Corn	180	200	77	50	188	143	153	2†	141	281	141	281
2015	Nehrkorn Frm #3		45.1	Soybean	65	0	55	85	0	0	0	0	86	196	86	196
2016	Nehrkorn Frm #3		45.1	Corn	180	170	77	50	163	81	88	1†	90	234	90	234
Total	Nehrkorn Frm #3		45.1			940	495	420	882	530	569					
2010	Nehrkorn Frm #3		1.9	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Nehrkorn Frm #3		1.9	Corn	180	170	77	50	111	0	0	-59	-77	-50	-77	-50
2012	Nehrkorn Frm #3		1.9	Corn	180	200	77	50	116	0	0	-84	-77	-50	-77	-50
2013	Nehrkorn Frm #3		1.9	Corn	180	200	77	50	173	0	0	-27	-77	-50	-77	-50
2014	Nehrkorn Frm #3		1.9	Corn	180	200	77	50	127	0	0	-73	-77	-50	-77	-50
2015	Nehrkorn Frm #3		1.9	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2016	Nehrkorn Frm #3		1.9	Corn	180	170	77	50	128	0	0	-42	-77	-50	-77	-50
Total	Nehrkorn Frm #3		1.9			940	495	420	655	0	0					
2010	Nehrkorn Frm #4		124.4	Corn	180	200	77	50	203	164	177	3	87	127	87	127
2011	Nehrkorn Frm #4		124.4	Corn	180	200	77	50	181	0	0	1†	10	77	10	77
2012	Nehrkorn Frm #4		124.4	Corn	180	200	77	50	193	144	154	4†	77	181	77	181
2013	Nehrkorn Frm #4		124.4	Soybean	65	0	55	85	0	0	0	0	22	96	22	96
2014	Nehrkorn Frm #4		124.4	Corn	180	170	77	50	165	164	177	3†	109	223	109	223
2015	Nehrkorn Frm #4		124.4	Corn	180	200	77	50	177	0	0	1†	32	173	32	173
2016	Nehrkorn Frm #4		124.4	Corn	180	200	77	50	192	82	88	3†	37	211	37	211
Total	Nehrkorn Frm #4		124.4			1,170	517	385	1,111	554	596					

Year	Field ID	Sub ID	Size Acres ¹	Crop	Yield Goal /Acre	Fertilizer Recs ²			Nutrients Applied ³			Balance After Recs ⁴			After Removal ⁵	
						N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	P ₂ O ₅	K ₂ O
2010	Nehrkorn Frm #4		6.2	Corn	180	200	77	50	133	0	0	-67	-77	-50	-77	-50
2011	Nehrkorn Frm #4		6.2	Corn	180	200	77	50	181	0	0	-19	-77	-50	-77	-50
2012	Nehrkorn Frm #4		6.2	Corn	180	200	77	50	131	0	0	-69	-77	-50	-77	-50
2013	Nehrkorn Frm #4		6.2	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2014	Nehrkorn Frm #4		6.2	Corn	180	170	77	50	95	0	0	-75	-77	-50	-77	-50
2015	Nehrkorn Frm #4		6.2	Corn	180	200	77	50	177	0	0	-23	-77	-50	-77	-50
2016	Nehrkorn Frm #4		6.2	Corn	180	200	77	50	156	0	0	-44	-77	-50	-77	-50
Total	Nehrkorn Frm #4		6.2			1,170	517	385	873	0	0					
2010	Nehrkorn Frm #5		70	Corn	180	200	77	50	200	215	231	0	138	181	138	181
2011	Nehrkorn Frm #5		70	Corn	180	200	77	50	174	0	0	0†	61	131	61	131
2012	Nehrkorn Frm #5		70	Soybean	65	0	55	85	0	0	0	0	6	46	6	46
2013	Nehrkorn Frm #5		70	Corn	180	170	77	50	163	156	168	0†	85	164	85	164
2014	Nehrkorn Frm #5		70	Corn	180	200	77	50	181	0	0	0†	8	114	8	114
2015	Nehrkorn Frm #5		70	Corn	180	200	77	50	190	156	168	0†	87	232	87	232
2016	Nehrkorn Frm #5		70	Corn	180	200	77	50	176	0	0	0†	10	182	10	182
Total	Nehrkorn Frm #5		70			1,170	517	385	1,084	527	567					
2010	Nehrkorn Frm #5		4	Corn	180	200	77	50	200	77	50	0	0	0	0	0
2011	Nehrkorn Frm #5		4	Corn	180	200	77	50	200	110	85	0	33	35	33	35
2012	Nehrkorn Frm #5		4	Soybean	65	0	55	85	0	0	0	0	-22	-50	-22	-50
2013	Nehrkorn Frm #5		4	Corn	180	170	77	50	170	77	50	0	0	0	0	0
2014	Nehrkorn Frm #5		4	Corn	180	200	77	50	200	77	50	0	0	0	0	0
2015	Nehrkorn Frm #5		4	Corn	180	200	77	50	200	99	50	0	22	0	22	0
2016	Nehrkorn Frm #5		4	Corn	180	200	77	50	200	55	85	0	0	35	0	35
Total	Nehrkorn Frm #5		4			1,170	517	385	1,170	495	370					
2010	Nehrkorn		65.1	Corn	180	200	77	50	202	161	174	2	84	124	84	124
2011	Nehrkorn		65.1	Corn	180	200	77	50	181	0	0	1†	7	74	7	74
2012	Nehrkorn		65.1	Corn	180	200	77	50	191	81	87	1†	11	111	11	111
2013	Nehrkorn		65.1	Corn	180	200	77	50	187	141	152	2†	75	213	75	213
2014	Nehrkorn		65.1	Soybean	65	0	55	85	0	0	0	0	20	128	20	128
2015	Nehrkorn		65.1	Corn	180	170	77	50	162	161	174	2†	104	252	104	252
2016	Nehrkorn		65.1	Corn	180	200	77	50	177	0	0	1†	27	202	27	202
Total	Nehrkorn		65.1			1,170	517	385	1,100	544	587					

Year	Field ID	Sub ID	Size Acres ¹	Crop	Yield Goal /Acre	Fertilizer Recs ²			Nutrients Applied ³			Balance After Recs ⁴			After Removal ⁵	
						N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	P ₂ O ₅	K ₂ O
						Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A
2010	Nehrkorn		2.1	Corn	180	200	77	50	133	0	0	-67	-77	-50	-77	-50
2011	Nehrkorn		2.1	Corn	180	200	77	50	181	0	0	-19	-77	-50	-77	-50
2012	Nehrkorn		2.1	Corn	180	200	77	50	156	0	0	-44	-77	-50	-77	-50
2013	Nehrkorn		2.1	Corn	180	200	77	50	126	0	0	-74	-77	-50	-77	-50
2014	Nehrkorn		2.1	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2015	Nehrkorn		2.1	Corn	180	170	77	50	93	0	0	-77	-77	-50	-77	-50
2016	Nehrkorn		2.1	Corn	180	200	77	50	177	0	0	-23	-77	-50	-77	-50
Total	Nehrkorn		2.1			1,170	517	385	866	0	0					
2010	NehrkornKruse 2		96.9	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	NehrkornKruse 2		96.9	Corn	180	170	77	50	170	137	147	0	60	97	60	97
2012	NehrkornKruse 2		96.9	Corn	180	200	77	50	183	156	168	0	139	215	139	215
2013	NehrkornKruse 2		96.9	Corn	180	200	77	50	173	0	0	0	62	165	62	165
2014	NehrkornKruse 2		96.9	Corn	180	200	77	50	186	137	147	0	122	262	122	262
2015	NehrkornKruse 2		96.9	Soybean	65	0	55	85	0	0	0	0	67	177	67	177
2016	NehrkornKruse 2		96.9	Corn	180	170	77	50	162	78	84	0	68	211	68	211
Total	NehrkornKruse 2		96.9			940	495	420	874	508	546					
2010	NehrkornKruse 3		7.6	Corn	180	200	77	50	200	158	170	0	81	120	81	120
2011	NehrkornKruse 3		7.6	Corn	180	200	77	50	181	0	0	0	4	70	4	70
2012	NehrkornKruse 3		7.6	Corn	180	200	77	50	190	79	85	0	6	105	6	105
2013	NehrkornKruse 3		7.6	Corn	180	200	77	50	185	137	147	0	66	202	66	202
2014	NehrkornKruse 3		7.6	Soybean	65	0	55	85	0	0	0	0	11	117	11	117
2015	NehrkornKruse 3		7.6	Corn	180	170	77	50	160	158	170	0	92	237	92	237
2016	NehrkornKruse 3		7.6	Corn	180	200	77	50	177	0	0	0	15	187	15	187
Total	NehrkornKruse 3		7.6			1,170	517	385	1,093	532	572					
2010	NehrkornKruse 3		48.8	Corn	180	200	77	50	200	77	50	0	0	0	0	0
2011	NehrkornKruse 3		48.8	Corn	180	200	77	50	200	77	50	0	0	0	0	0
2012	NehrkornKruse 3		48.8	Corn	180	200	77	50	200	99	50	0	22	0	22	0
2013	NehrkornKruse 3		48.8	Corn	180	200	77	50	200	55	85	0	0	35	0	35
2014	NehrkornKruse 3		48.8	Soybean	65	0	55	85	0	0	0	0	-55	-50	-55	-50
2015	NehrkornKruse 3		48.8	Corn	180	170	77	50	170	99	50	0	22	0	22	0
2016	NehrkornKruse 3		48.8	Corn	180	200	77	50	200	55	85	0	0	35	0	35
Total	NehrkornKruse 3		48.8			1,170	517	385	1,170	462	370					

Year	Field ID	Sub ID	Size Acres ¹	Crop	Yield Goal /Acre	Fertilizer Recs ²			Nutrients Applied ³			Balance After Recs ⁴			After Removal ⁵	
						N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	P ₂ O ₅	K ₂ O
						Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A	Lb/A
2010	NehrkornKruse 1		16.5	Corn	180	200	77	50	200	132	135	0	55	85	55	85
2011	NehrkornKruse 1		16.5	Soybean	65	0	55	85	0	0	0	0	0	0	0	0
2012	NehrkornKruse 1		16.5	Corn	180	170	77	50	170	77	50	0	0	0	0	0
2013	NehrkornKruse 1		16.5	Corn	180	200	77	50	200	77	50	0	0	0	0	0
2014	NehrkornKruse 1		16.5	Corn	180	200	77	50	200	99	50	0	22	0	22	0
2015	NehrkornKruse 1		16.5	Corn	180	200	77	50	200	55	85	0	0	35	0	35
2016	NehrkornKruse 1		16.5	Soybean	65	0	55	85	0	0	0	0	-55	-50	-55	-50
Total	NehrkornKruse 1		16.5			970	495	420	970	440	370					
2010	Nehrkorn Metz64		154.3	Corn	180	170	77	50	170	215	231	0	138	181	138	181
2011	Nehrkorn Metz64		154.3	Corn	180	200	77	50	174	0	0	0†	61	131	61	131
2012	Nehrkorn Metz64		154.3	Soybean	65	0	55	85	0	0	0	0	6	46	6	46
2013	Nehrkorn Metz64		154.3	Corn	180	170	77	50	163	156	168	0†	85	164	85	164
2014	Nehrkorn Metz64		154.3	Corn	180	200	77	50	181	0	0	0†	8	114	8	114
2015	Nehrkorn Metz64		154.3	Corn	180	200	77	50	190	156	168	0†	87	232	87	232
2016	Nehrkorn Metz64		154.3	Corn	180	200	77	50	176	0	0	0†	10	182	10	182
Total	Nehrkorn Metz64		154.3			1,140	517	385	1,054	527	567					
2010	Nehrkorn Rbsn		74.8	Soybean	65	0	55	85	0	0	0	0	-55	-85	-55	-85
2011	Nehrkorn Rbsn		74.8	Corn	180	170	77	50	170	137	147	0	60	97	60	97
2012	Nehrkorn Rbsn		74.8	Corn	180	200	77	50	183	156	168	0†	139	215	139	215
2013	Nehrkorn Rbsn		74.8	Corn	180	200	77	50	173	0	0	0†	62	165	62	165
2014	Nehrkorn Rbsn		74.8	Corn	180	200	77	50	186	78	84	0†	63	199	63	199
2015	Nehrkorn Rbsn		74.8	Soybean	65	0	55	85	59	137	147	0 ^a	145	261	145	261
2016	Nehrkorn Rbsn		74.8	Corn	180	170	77	50	148	0	0	0†	68	211	68	211
Total	Nehrkorn Rbsn		74.8			940	495	420	919	508	546					
2010	NerhkornPluck N		201.5	Corn	180	200	77	50	201	138	149	1	61	99	61	99
2011	NerhkornPluck N		201.5	Soybean	65	0	55	85	0	0	0	0	6	14	6	14
2012	NerhkornPluck N		201.5	Corn	180	170	77	50	163	158	170	1†	87	134	87	134
2013	NerhkornPluck N		201.5	Corn	180	200	77	50	177	0	0	0†	10	84	10	84
2014	NerhkornPluck N		201.5	Corn	180	200	77	50	190	79	85	0†	12	119	12	119
2015	NerhkornPluck N		201.5	Corn	180	200	77	50	186	237	255	1†	172	324	172	324
2016	NerhkornPluck N		201.5	Soybean	180	0	55	85	0	0	0	0	117	239	19	90
Total	NerhkornPluck N		201.5			970	495	420	917	612	659					