

Manplan Summary Report

Created for: Scheetz Family Farm
&
MK Pork

Gladstone, Illinois 61243
Phone: (309) 627-2374

Plan: Scheetz Family Farm & MK Pork

Plan Year: 2010-2014

State: Illinois

Description: Illinois NMP; 2010 to 2014

General Plan Information

People and Companies:

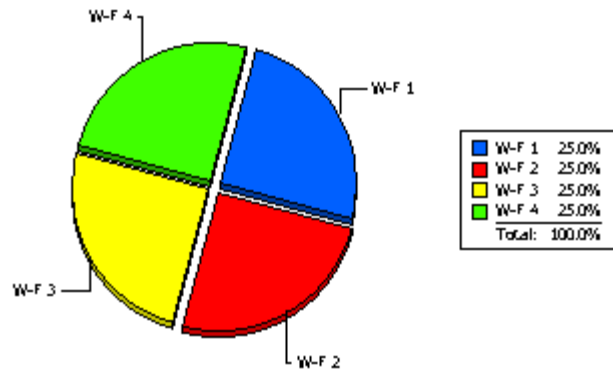
Name	Address	Position	Phone
Netmapping Riverland	126 South Public Square, PO Box 217; Knoxville , IL 61448	Soil Sampling Service	309-289-2383
MK Pork Inc	220 RR Street; Gladstone, IL 61243	Facility Manager	309 627-2374
Midwest Labs Inc	13611 B St; Omaha, NE 68144	Manure Testing Lab	402-334-7770
Curt McChesney	209 East Oak Street, P.O. Box 200; Gladstone, IL 61437	Land Owner	(309) 627-2374
Marlene McChesney	209 East Oak Street, P.O. Box 200; Gladstone, IL 61437	Land Owner	(309) 627-2374
Joe Scheetz	2446 North County Road 1500; Niota, IL 62358	Facility Owner	217-755-4459

General Plan Information

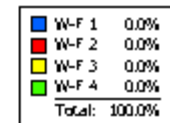
Waste Storage Facilities:

Waste Storage Facilities:				Tons	Gallons			
Name	Plat Location	Dimensions	Capacity	Dry Stacks	Under Barn Pit	Earthen Lagoon	Outside Pit	Above Ground Storage
W-F 1	SE1/4 NE1/4 NE1/4 Sect 34	70' 6" * 279' 8"	1,098,090		X			
W-F 2	SE1/4 NW1/4 NW1/4 Sect 35	70' 6" * 279' 8"	1,098,000		X			
W-F 3	SW1/4 NW1/4 NE1/4 Sect 35	70' 6" * 279' 8"	1,098,000		X			
W-F 4	SE1/4 NW1/4 NE1/4 Sect 35	70' 6" * 279' 8"	1,098,000		X			
			Total:	4,392,090				

Storage Capacity, Gallons



Storage Capacity, Tons



General Plan Information

Waste Production Facilities:

Name	Head Capacity	Type of Production	Apply from Source?	Animal Units	Total Animal Units	Production Cycles	Average Weight	Total Weight Capacity
W-F 1	2,480	Swine, Wean to Finish, Pit	Y	0.40	992.0	2.0	130	322,400
W-F 2	2,480	Swine, Wean to Finish, Pit	Y	0.40	992.0	2.0	130	322,400
W-F 3	2,480	Swine, Wean to Finish, Pit	Y	0.40	992.0	2.0	130	322,400
W-F 4	2,480	Swine, Wean to Finish, Pit	Y	0.40	992.0	2.0	130	322,400
Total:					3,968.0			

General Plan Information

Fields:

Name	Location	Field Owner	Spreadable Acres	Non-Manure Acres	Total Acres
MCCF01 - North 160			143.10	0.00	143.10
MCCF06M - East of Pond-Middle		Marlene McChesney	245.00	14.20	259.20
MCCF06N - East of Pond-North		Marlene McChesney	46.40	0.00	46.40
MCCF06S - East of Pond-South		Marlene McChesney	55.00	0.00	55.00
MCCF07 - Holfords		Marlene McChesney	63.50	0.00	63.50
Total:			553.00	14.20	567.20

Manure Management Plan Assumptions

Crops Available: The following crops have suggested nutrient removal per the sources listed.

Crop Name	Data Source	N Required (lbs/Bu)	K Required (lbs/Bu)	P Required (lbs/Bu)	Next Years N Credits
Corn, IL-1.2	ILAgronHandbk, tbl-11.23	1.20	0.23	0.19	0.00

Application Methods:

Application Method	Data Source	% N Retention	Application Method	Data Source	% N Retention
Knifed In- Fall	Manure Characterisitcs, Pub. 18, MWPS, Ames,	0.98			

Production Types: The following animal production and/or waste storage facilities are assumed to produce the listed amount of waste products.

Production Type	Animal Units	Manure Produced (gall/day)	Production Type	Animal Units	Manure Produced (gall/day)
Swine, Wean to Finish, Pit	0.40	0.9000			

Note: Manure produced units are gallons per day for liquid manure, and tons per day for dry manure.

Mineralization Rates for Organic Nitrogen

Mineralization Rates for Organic Nitrogen

Manure Type	Manure Handling	Min Factor
Swine	Fresh	.50
	Anaerobic liquid	.35
	Aerobic liquid	.30
Beef	Solid without bedding	.35
	Solid with bedding	.25
	Anaerobic liquid	.30
	Aerobic liquid	.25
Sheep	Solid	.25

Manure Type	Manure Handling	Min Factor
Dairy	Solid without bedding	.35
	Solid with bedding	.25
	Anaerobic liquid	.30
	Aerobic liquid	.25
Poultry	Deep Pit	.60
	Solid with litter	.60
	Solid without litter	.60
Horse	Solid with bedding	.20

Manure Sample Results

Storage Facility Nutrient Analysis: Liquid Manure

Storage Facility	Lab	Sampler	Plan Year	Date	N (lb/unit)	NH3 (lb/unit)	Org N (lb/unit)	P2O5 (lb/unit)	K2O (lb/unit)
W-F 1	Midwest Labs INC	MK Pork Inc	2010	9/22/09	25.40	22.60	2.80	8.00	22.30
				Average:	25.40	22.60	2.80	8.00	22.30
W-F 2	Midwest Labs INC	MK Pork Inc	2010	9/22/09	22.80	20.90	1.90	7.50	16.30
				Average:	22.80	20.90	1.90	7.50	16.30
W-F 3	Midwest Labs INC	MK Pork Inc	2010	9/22/09	35.50	24.20	11.30	18.50	18.50
				Average:	35.50	24.20	11.30	18.50	18.50
W-F 4	Midwest Labs INC	MK Pork Inc	2010	9/22/09	41.40	30.60	10.80	14.30	30.40
				Average:	41.40	30.60	10.80	14.30	30.40

Available Nitrogen Concentration in Applied Manure

Available Nitrogen Concentration in Applied Manure
(after deducting application losses)

Manure Storage Structure	1st Yr. Organic N Mineralization Factor	N Concentration (lb/1000 gal or lb/ton)	NH3 Concentration (lb/1000 gal or lbs/ton)	Organic N Concentration (lb/1000 gal or lb/ton)	Planned Method of Application	Application Loss Factor	Available N					
							1st Year		2nd Year		3rd Year	4th Year
							%	(lbs/1000 gal or lbs/ton)	%	(lbs/1000 gal or lbs/ton)	(lbs/1000 gal or lbs/ton)	(lbs/1000 gal or lbs/ton)
W-F 3	0.35	35.50	24.20	11.30	Knifed In- Fall	0.98	17.50	27.67	8.75	1.98	0.99	0.49
W-F 4	0.35	41.40	30.60	10.80	Knifed In- Fall	0.98	17.50	33.77	8.75	1.89	0.94	0.47
W-F 1	0.35	25.40	22.60	2.80	Knifed In- Fall	0.98	17.50	23.13	8.75	0.49	0.24	0.12
W-F 2	0.35	22.80	20.90	1.90	Knifed In- Fall	0.98	17.50	21.15	8.75	0.33	0.17	0.08
W-F 4	0.35	41.40	30.60	10.80	Knifed In- Fall	0.98	17.50	33.77	8.75	1.89	0.94	0.47

General Nutrient Budget

General Nutrient Budget:

Crop	Manure Source	Yield (bu/acre or ton/acre)	Nutrient Uptake Lbs/acre Required for Targeted Yields*			Gallons/acre or Tons/acre to supply all Required:				
			Nitrogen	P2O5	K2O	N Ret**	Nitrogen	P2O5	K2O	Units
2010										
Corn,IL-1.2		184.00	221	80	51					
	W-F 1					0.98	9,538	9,998	2,245	Gallons
	W-F 2					0.98	10,432	10,665	2,428	Gallons
	W-F 3					0.98	7,972	4,324	2,097	Gallons
	W-F 4					0.98	6,533	5,594	1,658	Gallons
2011										
Corn,IL-1.2		184.00	221	80	51					
	W-F 1					0.98	11,410	6,611	3,815	Gallons
	W-F 2					0.98	11,410	6,611	3,815	Gallons
	W-F 3					0.98	11,410	6,611	3,815	Gallons
	W-F 4					0.98	11,410	6,611	3,815	Gallons
2012										
Corn,IL-1.2		184.00	221	80	51					
	W-F 1					0.98	11,410	6,611	3,815	Gallons
	W-F 2					0.98	11,410	6,611	3,815	Gallons
	W-F 3					0.98	11,410	6,611	3,815	Gallons
	W-F 4					0.98	11,410	6,611	3,815	Gallons
2013										
Corn,IL-1.2		184.00	221	80	51					
	W-F 1					0.98	11,410	6,611	3,815	Gallons
	W-F 2					0.98	11,410	6,611	3,815	Gallons
	W-F 3					0.98	11,410	6,611	3,815	Gallons
	W-F 4					0.98	11,410	6,611	3,815	Gallons
2014										
Corn,IL-1.2		184.00	221	80	51					
	W-F 1					0.98	11,410	6,611	3,815	Gallons
	W-F 2					0.98	11,410	6,611	3,815	Gallons
	W-F 3					0.98	11,410	6,611	3,815	Gallons
	W-F 4					0.98	11,410	6,611	3,815	Gallons

* Weighted average on acres planted from nutrient requirement values used in the plan. ** Weighted average NH3 retention factor on applications in the plan.

Soil Test Results

Soil Tests:

Field Name	Lab	Sampler	Acres	PlanYear	Date	Soil pH	Prev Year N Credits lbs/acre	Bray P1 lbs/acre	Potassium lbs/acre
MCCF01 - North 160	Netmapping Riverland	Kurt McChesney	143.10	2010	1/1/07	6.5	0.00	81.00	532.00
	Netmapping Riverland	Kurt McChesney		2011	1/1/07	6.5	0.00	81.00	532.00
	Netmapping Riverland	Kurt McChesney		2012	1/1/07	6.5	0.00	81.00	532.00
	Netmapping Riverland	Kurt McChesney		2013	1/1/07	6.5	0.00	81.00	532.00
	Netmapping Riverland	Kurt McChesney		2014	1/1/07	6.5	0.00	81.00	532.00
MCCF06M - East of	Netmapping Riverland	Kurt McChesney	259.20	2010	1/1/07	6	0.00	50.00	519.00
	Netmapping Riverland	Kurt McChesney		2011	1/1/07	6	0.00	50.00	519.00
	Netmapping Riverland	Kurt McChesney		2012	1/1/07	6	0.00	50.00	519.00
	Netmapping Riverland	Kurt McChesney		2013	1/1/07	6	0.00	50.00	519.00
	Netmapping Riverland	Kurt McChesney		2014	1/1/07	6	0.00	50.00	519.00
MCCF06N - East of	Netmapping Riverland	Kurt McChesney	46.40	2010	1/1/07	6.3	0.00	37.00	409.00
	Netmapping Riverland	Kurt McChesney		2011	1/1/07	6.3	0.00	37.00	409.00
	Netmapping Riverland	Kurt McChesney		2012	1/1/07	6.3	0.00	37.00	409.00
	Netmapping Riverland	Kurt McChesney		2013	1/1/07	6.3	0.00	37.00	409.00
	Netmapping Riverland	Kurt McChesney		2014	1/1/07	6.3	0.00	37.00	409.00
MCCF06S - East of	Netmapping Riverland	Kurt McChesney	55.00	2010	1/1/07	6.4	0.00	49.00	350.00
	Netmapping Riverland	Kurt McChesney		2011	1/1/07	6.4	0.00	49.00	350.00
	Netmapping Riverland	Kurt McChesney		2012	1/1/07	6.4	0.00	49.00	350.00
	Netmapping Riverland	Kurt McChesney		2013	1/1/07	6.4	0.00	49.00	350.00
	Netmapping Riverland	Kurt McChesney		2014	1/1/07	6.4	0.00	49.00	350.00
MCCF07 - Holfords	Netmapping Riverland	Kurt McChesney	63.50	2010	1/1/07	6.6	0.00	49.00	358.00
	Netmapping Riverland	Kurt McChesney		2011	1/1/07	6.6	0.00	49.00	358.00
	Netmapping Riverland	Kurt McChesney		2012	1/1/07	6.6	0.00	49.00	358.00
	Netmapping Riverland	Kurt McChesney		2013	1/1/07	6.6	0.00	49.00	358.00
	Netmapping Riverland	Kurt McChesney		2014	1/1/07	6.6	0.00	49.00	358.00

Production Facility Manure Values

Value of Manure Produced:

Facility	Head Capacity	Manure Produced		N (lbs/1000 gall or lbs/Ton)	P2O5 (lbs/1000 gall or lbs/Ton)	K2O (lbs/1000 gall or lbs/Ton)	Total N (lbs)	Total P2O5 (lbs)	Total K2O (lbs)	Value N	Value P2O5	Value K2O	Total Value
		Gallons	Tons										
W-F 1	2,480	724,160	0	25.40	8.00	22.30	18,394	5,793	16,149	\$13,795	\$5,504	\$13,726	\$33,025
W-F 2	2,480	724,160	0	22.80	7.50	16.30	16,511	5,431	11,804	\$12,383	\$5,160	\$10,033	\$27,576
W-F 3	2,480	724,160	0	35.50	18.50	18.50	25,708	13,397	13,397	\$19,281	\$12,727	\$11,387	\$43,395
W-F 4	2,480	724,160	0	41.40	14.30	30.40	29,980	10,355	22,014	\$22,485	\$9,838	\$18,712	\$51,035
Total:	9,920	2,896,640	0				90,592	34,977	63,364	\$67,944	\$33,228	\$53,859	\$155,032

Manure Applied

Value of Manure Applied:

Field; Storage Name	Acres Applied	Date	N Applied		P Applied		K Applied		Value N		Value P		Value K	
			lbs/acre	Total	lbs/acre	Total	lbs/acre	Total	\$/acre	Total	\$/acre	Total	\$/acre	Total
MCCF01 - North 160 W-F 3	143	11/1/09	147	20,987	43	6,127	82	11,692	\$47	\$6,716	\$34	\$4,911	\$21	\$2,946
W-F 3	143	11/1/10	116	16,600	32	4,537	109	15,669	\$37	\$5,312	\$25	\$3,636	\$28	\$3,949
W-F 3	143	11/1/11	116	16,600	32	4,537	109	15,669	\$37	\$5,312	\$25	\$3,636	\$28	\$3,949
W-F 3	143	11/1/12	116	16,600	32	4,537	109	15,669	\$37	\$5,312	\$25	\$3,636	\$28	\$3,949
W-F 3	143	11/1/13	116	16,600	32	4,537	109	15,669	\$37	\$5,312	\$25	\$3,636	\$28	\$3,949
<i>MCCF01 - North 160 Total:</i>			611	87,387	170	24,275	520	74,368	\$195	\$27,964	\$136	\$19,456	\$131	\$18,741
MCCF06M - East of W-F 2	123	11/1/09	127	15,543	20	2,407	82	9,984	\$95	\$11,657	\$43	\$5,236	\$83	\$10,184
W-F 1	123	11/1/09	139	16,999	21	2,568	112	13,659	\$44	\$5,440	\$17	\$2,058	\$28	\$3,442
W-F 2	123	11/1/10	116	14,210	32	3,884	110	13,414	\$87	\$10,658	\$69	\$8,450	\$112	\$13,682
W-F 1	123	11/1/10	116	14,210	32	3,884	110	13,414	\$37	\$4,547	\$25	\$3,113	\$28	\$3,380
W-F 2	123	11/1/11	116	14,210	32	3,884	110	13,414	\$87	\$10,658	\$69	\$8,450	\$112	\$13,682
W-F 1	123	11/1/11	116	14,210	32	3,884	110	13,414	\$37	\$4,547	\$25	\$3,113	\$28	\$3,380
W-F 2	123	11/1/12	116	14,210	32	3,884	110	13,414	\$87	\$10,658	\$69	\$8,450	\$112	\$13,682
W-F 1	123	11/1/12	116	14,210	32	3,884	110	13,414	\$37	\$4,547	\$25	\$3,113	\$28	\$3,380
W-F 2	123	11/1/13	116	14,210	32	3,884	110	13,414	\$87	\$10,658	\$69	\$8,450	\$112	\$13,682
W-F 1	123	11/1/13	116	14,210	32	3,884	110	13,414	\$37	\$4,547	\$25	\$3,113	\$28	\$3,380
<i>MCCF06M - East of Pond-Middle Total:</i>			1,194	146,222	294	36,047	1,069	130,955	\$636	\$77,916	\$437	\$53,545	\$668	\$81,876
MCCF06N - East of W-F 4	46	11/1/09	203	9,401	37	1,738	152	7,053	\$65	\$3,008	\$30	\$1,393	\$38	\$1,777
W-F 4	46	11/1/10	116	5,383	32	1,471	110	5,081	\$37	\$1,723	\$25	\$1,179	\$28	\$1,280
W-F 4	46	11/1/11	116	5,383	32	1,471	110	5,081	\$37	\$1,723	\$25	\$1,179	\$28	\$1,280
W-F 4	46	11/1/12	116	5,383	32	1,471	110	5,081	\$37	\$1,723	\$25	\$1,179	\$28	\$1,280
W-F 4	46	11/1/13	116	5,383	32	1,471	110	5,081	\$37	\$1,723	\$25	\$1,179	\$28	\$1,280
<i>MCCF06N - East of Pond-North Total:</i>			667	30,933	164	7,622	590	27,377	\$213	\$9,899	\$132	\$6,109	\$149	\$6,899
MCCF07 - Holfords W-F 4	64	11/1/09	203	12,866	37	2,379	152	9,652	\$152	\$9,650	\$82	\$5,176	\$155	\$9,845
W-F 4	64	11/1/10	116	7,366	32	2,013	109	6,953	\$87	\$5,525	\$69	\$4,379	\$112	\$7,092
W-F 4	64	11/1/11	116	7,366	32	2,013	109	6,953	\$87	\$5,525	\$69	\$4,379	\$112	\$7,092
W-F 4	64	11/1/12	116	7,366	32	2,013	109	6,953	\$87	\$5,525	\$69	\$4,379	\$112	\$7,092
W-F 4	64	11/1/13	116	7,366	32	2,013	109	6,953	\$87	\$5,525	\$69	\$4,379	\$112	\$7,092
<i>MCCF07 - Holfords Total:</i>			667	42,330	164	10,431	590	37,464	\$500	\$31,748	\$357	\$22,693	\$602	\$38,213
Grand Total:			3,138	306,872	792	78,375	2,769	270,164	\$1,545	\$147,526	\$1,062	\$101,803	\$1,550	\$145,729
Grand Total Value:													\$395,058	

Summary All Years P and K Balance

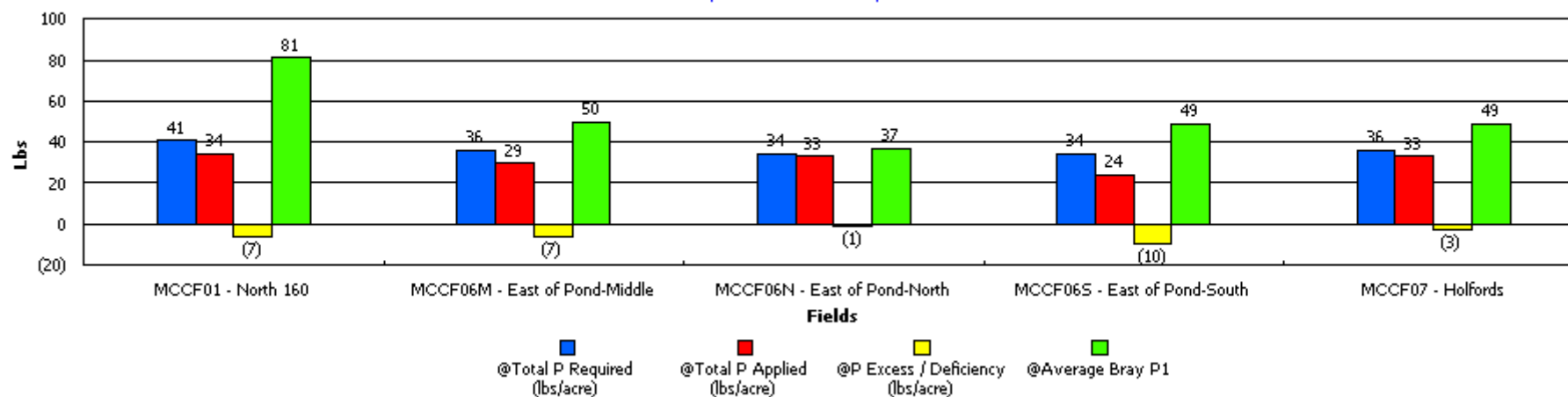
Phosphorus and Potassium Report:

Field	Planted Acres, All Years	Phosphorus								Potassium							
		Bray P1 Test	Required		Applied		Excess / Deficiency		Potassium Test	Required		Applied		Excess / Deficiency		Total lbs	lbs /
			Total lbs	lbs / acre*	Total lbs	lbs / acre*	Total lbs	lbs / acre*		Total lbs	lbs / acre*	Total lbs	lbs / acre*	Total lbs	lbs /		
MCCF01	716	81	29,079	41	24,275	34	-4,804	-7	532	35,200	49	74,368	104	39,168	55		
MCCF06M	1,296	50	44,323	36	36,047	29	-8,276	-7	519	53,654	44	130,955	107	77,301	63		
MCCF06N	232	37	7,934	34	7,622	33	-312	-1	409	9,605	41	27,377	118	17,772	77		
MCCF06S	275	49	9,405	34	6,629	24	-2,776	-10	350	11,385	41	0	0	-11,385	-41		
MCCF07	318	49	11,462	36	10,431	33	-1,031	-3	358	13,875	44	37,464	118	23,589	74		
Total:	2,836	57	102,203		85,004		-17,199		481	123,719		270,164		146,445			

* per spreadable acre

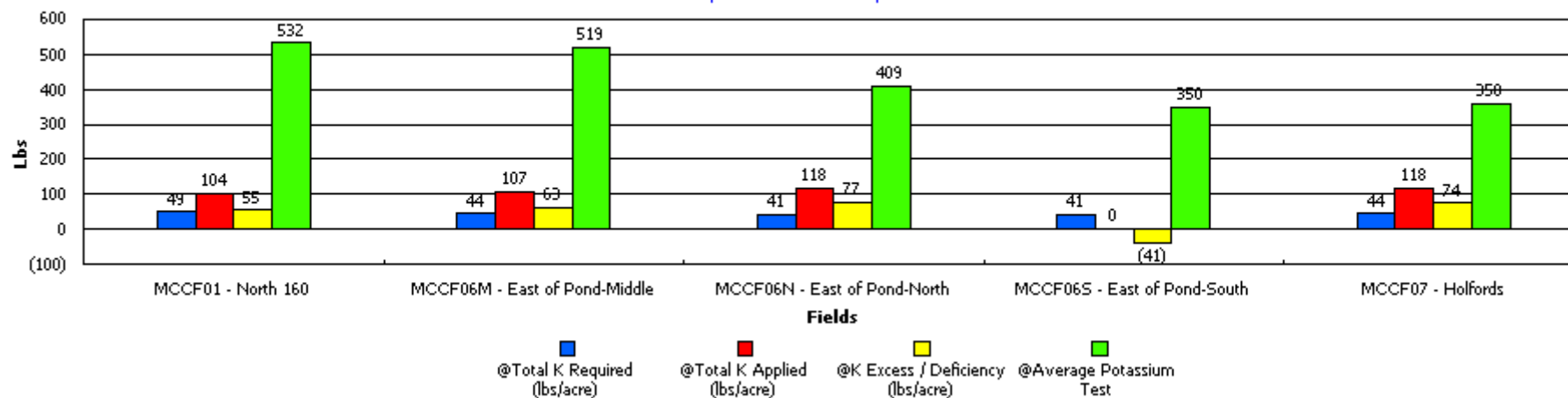
Phosphorus Balance

per field for the year



Potassium Balance

per field for the year



Nutrient Balance - 2010 through 2014

General Nutrient Budget:

Crop	Acres Planted	Nitrogen*	P2O5**	K2O	Average Yield	N	P	K
Corn, IL-1.2 (Illinois)	2,926	645,492	234,045	148,463	184	1.20	0.19	0.23

Total Crop Nutrients Utilized:

For All Crops	2,926	645,492	234,045	148,463
For Non Legume Crops	2,926	645,492	234,045	148,463

Nutrients Required Per Acre

Average All Crops	221	80	51
Average Non Legume Crops	221	80	51

* Based on recommended nitrogen for corn and 3.3 lb N per bushel yield for soybeans.

** Based on crop removal rates.

Total Manure Quantity and Total Estimated Nutrients:

Type of Manure	Annual Collected	Units	Lbs. Nitrogen	Lbs. P2O5	Lbs. K2O
Liquid Manure	14,483,200	Gallons	453,252	175,174	317,110
Solid Manure	0	Tons	0	0	0
Total Manure Nutrients			453,252	175,174	317,110

TOTAL NUTRIENTS PRODUCED:	Avail. Nitrogen***	P2O5	K2O
Total Manure Nutrients	453,252	175,174	317,110
Nutrient Balance (Supplied By Manure - Crop Needs)	-192,240	-58,870	168,647
Nutrient Balance If No Manure On Legumes	-192,240	-58,870	168,647

TOTAL PLANTED ACRES IN ALL PLAN YEARS:	Acres	Acres / Year
Average Acres Needed To Utilize Available Manure P2O5 At Crop Removal	2,190	438
Additional Acres Needed To Apply Manure At P2O5 Crop Removal	-736	-147
Average Acres Needed To Utilize Available Manure N At Crop Need (All Crops)	2,055	411
Average Acres Needed To Utilize Available Manure N At Crop Need (Non-Legumes)	2,055	411

*** Based on maximum nitrogen available the first year after application.

Actual Nitrogen available to plants is contingent on the following: 1) Application Losses & 2) Organic N that Mineralizes in future

Projected Soil P and K Levels

Projected Soil P and K Levels for existing facilities:

Plan Year: 2010 Number of Plan Years: 5

Field Name	Units	P at Start	P at End	K at Start	K at End	Units	P Balance	Net P1 Soil Change	K Balance	Net K Soil Change
MCCF01 - North 160	Lbs / Acre	81	72	532	615	Lbs / Acre	-7	-2	55	17
MCCF06M - East of Pond-Middle	Lbs / Acre	50	41	519	615	Lbs / Acre	-7	-2	63	19
MCCF06N - East of Pond-North	Lbs / Acre	37	35	409	525	Lbs / Acre	-1	0	77	23
MCCF06S - East of Pond-South	Lbs / Acre	49	36	350	287	Lbs / Acre	-10	-3	-41	-13
MCCF07 - Holfords	Lbs / Acre	49	45	358	471	Lbs / Acre	-3	-1	74	23

Manure Summary

Manure Summary:

Manure Application and Allocation	Manure Produced	Manure Transferred	Planned Applications	Recorded Applications
2010				
Annual Manure & Waste water Production: W-F 1	724,160			
Annual Manure & Waste water Production: W-F 2	724,160			
Annual Manure & Waste water Production: W-F 3	724,160			
Annual Manure & Waste water Production: W-F 4	724,160			
Estimated Application to: MCCF01 - North 160			758,430	
Estimated Application to: MCCF06M - East of Pond-Middle			735,000	
Estimated Application to: MCCF06M - East of Pond-Middle			735,000	
Estimated Application to: MCCF06N - East of Pond-North			278,400	
Estimated Application to: MCCF07 - Holfords			381,000	
2010 Total:	2,896,640		2,887,830	
2011				
Annual Manure & Waste water Production: W-F 1	724,160			
Annual Manure & Waste water Production: W-F 2	724,160			
Annual Manure & Waste water Production: W-F 3	724,160			
Annual Manure & Waste water Production: W-F 4	724,160			
Estimated Application to: MCCF01 - North 160			858,600	
Estimated Application to: MCCF06M - East of Pond-Middle			735,000	
Estimated Application to: MCCF06M - East of Pond-Middle			735,000	
Estimated Application to: MCCF06N - East of Pond-North			278,400	
Estimated Application to: MCCF07 - Holfords			381,000	
2011 Total:	2,896,640		2,988,000	
2012				
Annual Manure & Waste water Production: W-F 1	724,160			
Annual Manure & Waste water Production: W-F 2	724,160			
Annual Manure & Waste water Production: W-F 3	724,160			
Annual Manure & Waste water Production: W-F 4	724,160			
Estimated Application to: MCCF01 - North 160			858,600	
Estimated Application to: MCCF06M - East of Pond-Middle			735,000	
Estimated Application to: MCCF06M - East of Pond-Middle			735,000	
Estimated Application to: MCCF06N - East of Pond-North			278,400	
Estimated Application to: MCCF07 - Holfords			381,000	
2012 Total:	2,896,640		2,988,000	
2013				
Annual Manure & Waste water Production: W-F 1	724,160			
Annual Manure & Waste water Production: W-F 2	724,160			
Annual Manure & Waste water Production: W-F 3	724,160			
Annual Manure & Waste water Production: W-F 4	724,160			
Estimated Application to: MCCF01 - North 160			858,600	

Estimated Application to: MCCF06M - East of Pond-Middle	735,000
Estimated Application to: MCCF06M - East of Pond-Middle	735,000
Estimated Application to: MCCF06N - East of Pond-North	278,400
Estimated Application to: MCCF07 - Holfords	381,000
2013 Total:	2,896,640
	2,988,000

2014

Annual Manure & Waste water Production: W-F 1	724,160
Annual Manure & Waste water Production: W-F 2	724,160
Annual Manure & Waste water Production: W-F 3	724,160
Annual Manure & Waste water Production: W-F 4	724,160
Estimated Application to: MCCF01 - North 160	858,600
Estimated Application to: MCCF06M - East of Pond-Middle	735,000
Estimated Application to: MCCF06M - East of Pond-Middle	735,000
Estimated Application to: MCCF06N - East of Pond-North	278,400
Estimated Application to: MCCF07 - Holfords	381,000
2014 Total:	2,896,640
	2,988,000

Manure Produced Grand Total: 14,483,200

Manure Transferred Grand Total:

Planned Manure Applications Grand Total: 14,839,830

Recorded Manure Applications Grand Total:

Crop Rotation - All Years

Crop Rotation:

Field	Plan Year	Crop Name	Acres Planted	Yield Potential	NRequired	PRequired	KRequired
MCCF01 - North 160	2010	Corn, IL-1.2	161	190	36,731	5,816	7,040
	2011	Corn, IL-1.2	161	190	36,731	5,816	7,040
	2012	Corn, IL-1.2	161	190	36,731	5,816	7,040
	2013	Corn, IL-1.2	161	190	36,731	5,816	7,040
	2014	Corn, IL-1.2	161	190	36,731	5,816	7,040
MCCF01 - North 160 Total:					183,654	29,079	35,200
MCCF06M - East of Pond-Middle	2010	Corn, IL-1.2	259	180	55,987	8,865	10,731
	2011	Corn, IL-1.2	259	180	55,987	8,865	10,731
	2012	Corn, IL-1.2	259	180	55,987	8,865	10,731
	2013	Corn, IL-1.2	259	180	55,987	8,865	10,731
	2014	Corn, IL-1.2	259	180	55,987	8,865	10,731
MCCF06M - East of Pond-Middle Total:					279,936	44,323	53,654
MCCF06N - East of Pond-North	2010	Corn, IL-1.2	46	180	10,022	1,587	1,921
	2011	Corn, IL-1.2	46	180	10,022	1,587	1,921
	2012	Corn, IL-1.2	46	180	10,022	1,587	1,921
	2013	Corn, IL-1.2	46	180	10,022	1,587	1,921
	2014	Corn, IL-1.2	46	180	10,022	1,587	1,921
MCCF06N - East of Pond-North Total:					50,112	7,934	9,605
MCCF06S - East of Pond-South	2010	Corn, IL-1.2	55	180	11,880	1,881	2,277
	2011	Corn, IL-1.2	55	180	11,880	1,881	2,277
	2012	Corn, IL-1.2	55	180	11,880	1,881	2,277
	2013	Corn, IL-1.2	55	180	11,880	1,881	2,277
	2014	Corn, IL-1.2	55	180	11,880	1,881	2,277
MCCF06S - East of Pond-South Total:					59,400	9,405	11,385
MCCF07 - Holfords	2010	Corn, IL-1.2	64	190	14,478	2,292	2,775
	2011	Corn, IL-1.2	64	190	14,478	2,292	2,775
	2012	Corn, IL-1.2	64	190	14,478	2,292	2,775
	2013	Corn, IL-1.2	64	190	14,478	2,292	2,775
	2014	Corn, IL-1.2	64	190	14,478	2,292	2,775
MCCF07 - Holfords Total:					72,390	11,462	13,875
Grand Total:					645,492	102,203	123,719