

Manplan Summary Report

Created for: Tri-Oak Foods / Henco Hogs, L.L.C.

R.R. 3

Box 72

Monmouth, Illinois 61462

Phone: (309) 729-5534

Plan: Henco Hogs-2008-2011

Plan Year: 2008-2011

State: Illinois CNMP

Description: Driving Directions to farm: From Little York, Ill go west to H-135, turn left/south go 1 1/2 miles, turn right/west go 1 mile, turn left/south 1 mile, turn right/west go 1 3/4 miles

General Plan Information

People and Companies:

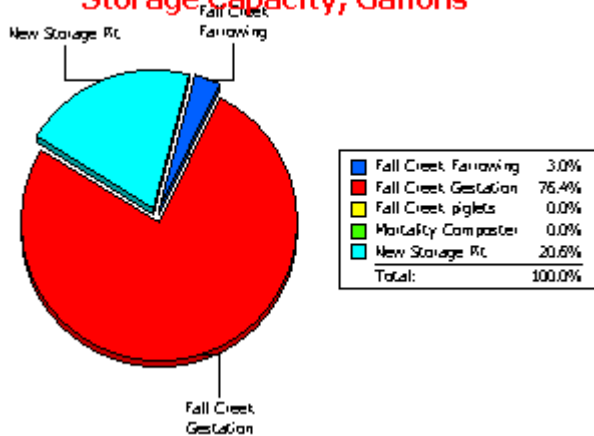
Name	Address	Position	Phone
Twomey Company	P.O. Box 158, 1 West State Street ; Smithshire, IL 61478	Fertilizer Service Company	xxx-xxx-xxxx
Jerry Darrah	R.R. 3 Box 66; Mommouth, Illinois 61462	Owner-Manager	309-729-5373
Riverland FS	126 S Public Square, PO Box 217; Knoxville, IL 61448	Fertilizer Service Company	309 289-2383
Dennis Godar	8810 Buckhart Road; Rochester, Illinois 62563	Consultant/ TSP	217 622-4199
Monmouth Grain&Dryer	903 S Sunnylan; Monmouth, IL 61462	Fertilizer Service Company	309 734-8423
Midwest Labs	13611 B Street; Omaha, NE 68144	Soil & Manure Lab	402 334-7770
Tri Oak Foods	P.O. Box 68; Oakville, Iowa 52646	Corporate owner	319-766-4411

General Plan Information

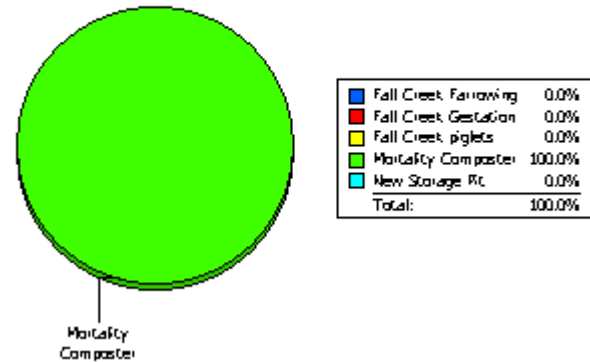
Waste Storage Facilities:

Name	Plat Location	Dimensions	Capacity	Tons		Gallons		
				Dry Stacks	Under Barn Pit	Earthen Lagoon	Outside Pit	Above Ground Storage
Fall Creek Farrowing		multiple pits	164,713			X		
Fall Creek Gestation		96.2*728.5*10	4,163,000			X		
Fall Creek piglets			0			X		
Mortality Composter			125	X				
New Storage Pit		79*200*9.5	1,121,247				X	
Total:			5,449,085					

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
Mortality Composter	3,300	Composter,SowFarm	Y	0.00	0.0	1.0	0	0
New Storage Pit	0	Manure Storage Only	Y	0.00	0.0	0.0	0	0
Fall Creek piglets	3,500	Swine, <55lbs., Pit	N	0.03	105.0	8.0	25	87,500
Fall Creek Gestation	2,800	Swine, Gestating Sow, Pit	Y	0.40	1,120.0	1.0	475	1,330,000
Fall Creek Farrowing	500	Swine, Lactating Sow, Pit	Y	0.40	200.0	1.0	425	212,500
Total:					1,425.0			

General Plan Information

Fields:

Name	Location	Field Owner	Spreadable Acres	Non-Manure Acres	Total Acres
H-1 -	Hogue East, SE1/4 Sec 11, Rozetta		77.60	0.00	77.60
H-2 -	Hogue West; SE1/4 Sec 11, Rozetta		71.20	0.00	71.20
LT-1 -	L Thompson,SW1/4 Sec 11, Rozetta		78.20	0.00	78.20
LT-2 -	L Thompson,SW1/4 Sec 11; Rozetta		73.00	0.00	73.00
LT-3 -	L Thompson,NW1/4 Sec 11; Rozetta		9.20	1.10	10.30
LT-4 -	L Thompson,NW1/4 Sec 11; Rozetta		38.90	0.00	38.90
LT-5 -	L Thompson,SW1/4 Sec 2; Rozetta		25.10	0.00	25.10
Lucille's 40 -	"Miller 33"; SW1/4 Sec36,Bald Bluff		37.20	0.00	37.20
T-1008-1 - Home, west field	E1/2, NE 1/4 Sect 2, Rozetta Twnshp,		42.80	1.30	44.10
T-1008-2 - Home, church	E 1/2, NE 1/4 Sect 2, Rozetta Twnshp,		14.60	1.70	16.30
T-1008-3E - Home; North part East	NW 1/4 Sect 1, Rozetta Twnshp,		36.80	0.00	36.80
T-1008-3W - Home, around buildings	NW 1/4 Sect 1, Rozetta Twnshp,		26.80	0.00	26.80
T-1008-4e - Home east of drive	NW 1/4 Sect 1, Rozetta Twnshp,		15.00	0.00	15.00
T-1008-4w - Home, west of driveway	NW 1/4 Sect 1, Rozetta Twnshp		12.40	0.40	12.80
T-1008-5 - Home; South part East 80	NW 1/4 Sect 1, Rozetta Twnshp,		39.50	0.00	39.50
T-1100-2 & 8 - Downes Place	W 1/2, NW 1/4 Sect 12, Rozetta		47.00	0.00	47.00
T-1100-6 - Downes Place	SW 1/4 Sect 12, Rozetta Twnshp,		128.50	0.00	128.50
Total:			773.80	4.50	778.30

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
Soybeans	ILAgronHndbk, tbl-11.23	3.30	1.08	0.37	40.00

Application Methods:

Application Method	Data Source	% N Retention	Application Method	Data Source	% N Retention
Incorp. within24hrs	Manure Characterisitcs, Pub. 18, MWPS, Ames,	0.95	Knifed In- Fall	Manure Characterisitcs, Pub. 18, MWPS, Ames,	0.98
Knifing In (Ref. MWPS)	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)
Composter, SowFarm	0.00	0.0002	Manure Storage Only	0.00	1.0000
Swine, <55lbs., Pit	0.03	0.2500	Swine, Gestating Sow, Pit	0.40	1.7400
Swine, Lactating Sow, Pit	0.40	3.8000			

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)
Fall Creek Farrowing			2008		25.30	19.40	5.90	5.60	14.40
Average:					25.30	19.40	5.90	5.60	14.40
Fall Creek Gestation	Midwest Labs	Jerry Darrah	2008	10/26/06	25.70	21.70	4.00	9.70	12.40
Average:					25.70	21.70	4.00	9.70	12.40
New Storage Pit	Midwest Labs	Jerry Darrah	2008	10/26/06	25.70	21.70	4.00	9.70	12.40
Average:					25.70	21.70	4.00	9.70	12.40

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)
New Storage	0.35	25.70	21.70	4.00	Knifing In (Ref. MWPS)	0.98	17.50	22.67	8.75	0.70	0.35	0.18
New Storage	0.35	25.70	21.70	4.00	Knifing In (Ref. MWPS)	0.98	17.50	22.67	8.75	0.70	0.35	0.17
New Storage	0.35	25.70	21.70	4.00	Knifed In- Fall	0.98	17.50	22.67	8.75	0.70	0.35	0.17
New Storage	0.35	25.70	21.70	4.00	Knifed In- Fall	0.98	17.50	22.67	8.75	0.70	0.35	0.18
New Storage	0.35	25.70	21.70	4.00	Knifed In- Fall	0.98	17.50	22.67	8.75	0.70	0.35	0.17

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
2007										
Corn, IL-1.2		232.67	272	100	63					
	Fall Creek					1.00	12,672	17,794	3,225	Gallons
	Fall Creek Gestation					0.98	12,906	17,794	3,225	Gallons
	Mortality Composter					1.00	0	0	0	Tons
	New Storage Pit					0.98	12,825	10,273	3,052	Gallons
Soybeans		52.00	173	49	90					
	Fall Creek					1.00	8,063	8,822	4,625	Gallons
	Fall Creek Gestation					0.98	8,212	8,822	4,625	Gallons
	Mortality Composter					1.00	0	0	0	Tons
	New Storage Pit					0.98	8,160	5,093	4,377	Gallons
2008										
Corn, IL-1.2		200.00	240	94	55					
	Fall Creek					1.00	11,181	16,746	2,845	Gallons
	Fall Creek Gestation					1.00	10,390	9,668	2,544	Gallons
	Mortality Composter					1.00	0	0	0	Tons
	New Storage Pit					0.98	10,589	9,668	2,544	Gallons
Soybeans		52.78	172	44	68					
	Fall Creek					1.00	8,027	7,900	3,488	Gallons
	Fall Creek Gestation					1.00	7,459	4,561	3,118	Gallons
	Mortality Composter					1.00	0	0	0	Tons
	New Storage Pit					0.98	7,602	4,561	3,118	Gallons
2009										
Corn, IL-1.2		200.00	240	88	55					
	Fall Creek					1.00	11,181	15,718	2,845	Gallons
	Fall Creek Gestation					1.00	11,181	15,718	2,845	Gallons
	Mortality Composter					0.95	8	7	3	Tons
	New Storage Pit					0.98	11,315	9,074	2,693	Gallons
Soybeans		53.13	175	49	86					
	Fall Creek					1.00	8,132	8,734	4,457	Gallons
	Fall Creek Gestation					1.00	8,132	8,734	4,457	Gallons
	Mortality Composter					0.95	6	4	5	Tons
	New Storage Pit					0.98	8,230	5,042	4,218	Gallons
2010										
Corn, IL-1.2		200.00	240	94	55					
	Fall Creek					1.00	11,181	16,746	2,845	Gallons
	Fall Creek Gestation					1.00	7,796	1,660	2,107	Gallons
	Mortality Composter					0.95	8	7	3	Tons

Corn,IL-1.2	New Storage Pit					0.98	11,315	9,668	2,693	Gallons
Soybeans		52.78	172	44	68					
	Fall Creek					1.00	8,027	7,900	3,488	Gallons
	Fall Creek Gestation					1.00	5,597	783	2,583	Gallons
	Mortality Composter					0.95	5	3	4	Tons
	New Storage Pit					0.98	8,124	4,561	3,301	Gallons

2011

Corn,IL-1.2		200.00	240	88	55					
	Fall Creek					1.00	11,181	15,718	2,845	Gallons
	Fall Creek Gestation					1.00	11,181	15,718	2,845	Gallons
	Mortality Composter					0.95	8	7	3	Tons
	New Storage Pit					0.98	11,315	9,074	2,693	Gallons
Soybeans		53.13	175	49	86					
	Fall Creek					1.00	8,132	8,734	4,457	Gallons
	Fall Creek Gestation					1.00	8,132	8,734	4,457	Gallons
	Mortality Composter					0.95	6	4	5	Tons
	New Storage Pit					0.98	8,230	5,042	4,218	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
Lucille's 40 - "Miller 33"	Riverland FS	Riverland FS	37.20	2008	10/25/05	5.8	0.00	118.00	325.00
	Riverland FS	Riverland FS		2009	10/25/05	5.8	0.00	118.00	325.00
	Riverland FS	Riverland FS		2010	10/25/05	5.8	0.00	118.00	325.00
	Riverland FS	Riverland FS		2011	10/25/05	5.8	0.00	118.00	325.00
T-1008-1 - Home, west field	Monmouth Grain&Dryer	Monmouth Grain&Dryer	44.10	2008	11/4/04	6.2	0.00	137.00	466.00
	Monmouth Grain&Dryer	Monmouth Grain&Dryer		2009	11/4/04	6.2	0.00	137.00	466.00
	Monmouth Grain&Dryer	Monmouth Grain&Dryer		2010	11/4/04	6.2	0.00	137.00	466.00
	Monmouth Grain&Dryer	Monmouth Grain&Dryer		2011	11/4/04	6.2	0.00	137.00	466.00
T-1008-2 - Home, church			16.30	2008	11/4/04	6.1	0.00	105.00	350.00
	Monmouth Grain&Dryer	Monmouth Grain&Dryer		2009	11/4/04	6.1	0.00	105.00	350.00
				2010	11/4/04	6.1	0.00	105.00	350.00
	Monmouth Grain&Dryer	Monmouth Grain&Dryer		2011	11/4/04	6.1	0.00	105.00	350.00
T-1008-3E - Home; North	Riverland FS	Riverland FS	36.80	2008	10/20/06	6.4	0.00	128.20	464.40
	Riverland FS	Riverland FS		2009	10/20/06	6.4	0.00	128.20	464.40
	Riverland FS	Riverland FS		2010	10/20/06	6.4	0.00	128.20	464.40
	Riverland FS	Riverland FS		2011	10/20/06	6.4	0.00	128.20	464.40
T-1008-3W - Home, around	Monmouth Grain&Dryer	Monmouth Grain&Dryer	26.80	2008	11/4/04	6.3	0.00	175.00	540.00
	Monmouth Grain&Dryer	Monmouth Grain&Dryer		2009	11/4/04	6.3	0.00	175.00	540.00
	Monmouth Grain&Dryer	Monmouth Grain&Dryer		2010	11/4/04	6.3	0.00	175.00	540.00
	Monmouth Grain&Dryer	Monmouth Grain&Dryer		2011	11/4/04	6.3	0.00	175.00	540.00
T-1008-4e - Home east of	Riverland FS	Riverland FS	15.00	2008	10/20/06	6.4	0.00	168.00	304.00
	Riverland FS	Riverland FS		2009	10/20/06	6.4	0.00	168.00	304.00
	Riverland FS	Riverland FS		2010	10/20/06	6.4	0.00	168.00	304.00
	Riverland FS	Riverland FS		2011	10/20/06	6.4	0.00	168.00	304.00
T-1008-4w - Home, west of	Riverland FS	Riverland FS	12.80	2008	10/20/06	6.2	0.00	193.00	279.00
	Riverland FS	Riverland FS		2009	10/20/06	6.2	0.00	193.00	279.00
	Riverland FS	Riverland FS		2010	10/20/06	6.2	0.00	193.00	279.00
	Riverland FS	Riverland FS		2011	10/20/06	6.2	0.00	193.00	279.00
T-1008-5 - Home; South part	Riverland FS	Riverland FS	39.50	2008	10/20/06	6.2	0.00	107.80	457.80
	Riverland FS	Riverland FS		2009	10/20/06	6.2	0.00	107.80	457.80
	Riverland FS	Riverland FS		2010	10/20/06	6.2	0.00	107.80	457.80
	Riverland FS	Riverland FS		2011	10/20/06	6.2	0.00	107.80	457.80
T-1100-2 & 8 - Downes Place	Riverland FS	Riverland FS	47.00	2008	10/20/06	6.3	0.00	152.00	276.00
	Riverland FS	Riverland FS		2009	10/20/06	6.3	0.00	152.00	276.00
	Riverland FS	Riverland FS		2010	10/20/06	6.3	0.00	152.00	276.00
	Riverland FS	Riverland FS		2011	10/20/06	6.3	0.00	152.00	276.00
T-1100-6 - Downes Place	Monmouth Grain&Dryer	Monmouth Grain&Dryer	128.50	2008	10/20/04	6.3	0.00	87.00	274.00
	Monmouth Grain&Dryer	Monmouth Grain&Dryer		2009	10/20/04	6.3	0.00	87.00	274.00
	Monmouth Grain&Dryer	Monmouth Grain&Dryer		2010	10/20/04	6.3	0.00	87.00	274.00
	Monmouth Grain&Dryer	Monmouth Grain&Dryer		2011	10/20/04	6.3	0.00	87.00	274.00

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										
Fall Creek Farrowing	500	1,533,000	0	25.30	5.60	14.40	38,785	8,585	22,075	\$14,738	\$3,005	\$5,519	\$23,262
Fall Creek Gestation	2,800	2,044,000	0	25.70	9.70	12.40	52,531	19,827	25,346	\$19,962	\$6,939	\$6,336	\$33,237
Fall Creek piglets	3,500	0	0										
Mortality Composter	3,300	0	96										
New Storage Pit	0	0	0	25.70	9.70	12.40	0	0	0	\$0	\$0	\$0	\$0
Total:	3,300	3,577,000	0				91,316	28,412	47,421	\$34,700	\$9,944	\$11,855	\$56,499

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
H-1 - Hogue East New Storage Pit	78	10/1/08	185	14,319	37	2,860	106	8,214	\$70	\$5,441	\$30	\$2,292	\$32	\$2,464
New Storage Pit	78	10/1/10	185	14,319	37	2,860	106	8,214	\$70	\$5,441	\$30	\$2,292	\$32	\$2,464
<i>H-1 - Hogue East Total:</i>			369	28,638	74	5,720	212	16,428	\$140	\$10,882	\$59	\$4,585	\$64	\$4,928
H-2 - Hogue West New Storage Pit	71	10/1/08	149	10,571	30	2,111	85	6,064	\$56	\$4,017	\$24	\$1,692	\$26	\$1,819
New Storage Pit	71	10/1/09	170	12,081	34	2,413	97	6,930	\$64	\$4,591	\$27	\$1,934	\$29	\$2,079
<i>H-2 - Hogue West Total:</i>			318	22,652	64	4,524	183	12,994	\$121	\$8,608	\$51	\$3,626	\$55	\$3,898
LT-1 - L New Storage Pit	78	10/1/08	185	14,430	37	2,882	106	8,277	\$70	\$5,483	\$30	\$2,310	\$32	\$2,483
New Storage Pit	78	10/1/10	185	14,430	37	2,882	106	8,277	\$70	\$5,483	\$30	\$2,310	\$32	\$2,483
<i>LT-1 - L Thompson,SW1/4 Sec 11</i>			369	28,860	74	5,764	212	16,554	\$140	\$10,967	\$59	\$4,620	\$64	\$4,966
LT-2 - L New Storage Pit	73	10/1/09	170	12,387	34	2,474	97	7,105	\$64	\$4,707	\$27	\$1,983	\$29	\$2,132
New Storage Pit	73	10/1/10	149	10,838	30	2,164	85	6,217	\$56	\$4,118	\$24	\$1,734	\$26	\$1,865
<i>LT-2 - L Thompson,SW1/4 Sec 11</i>			318	23,225	64	4,638	182	13,322	\$121	\$8,826	\$51	\$3,717	\$55	\$3,997
LT-3 - L New Storage Pit	9	10/1/08	185	1,698	37	339	106	974	\$70	\$645	\$30	\$272	\$32	\$292
New Storage Pit	9	10/1/10	185	1,698	37	339	106	974	\$70	\$645	\$30	\$272	\$32	\$292
<i>LT-3 - L Thompson,NW1/4 Sec 11</i>			369	3,396	74	678	212	1,948	\$140	\$1,290	\$59	\$543	\$64	\$584
LT-4 - L New Storage Pit	39	10/1/09	170	6,601	34	1,318	97	3,786	\$64	\$2,508	\$27	\$1,056	\$29	\$1,136
<i>LT-4 - L Thompson,NW1/4 Sec 11</i>			170	6,601	34	1,318	97	3,786	\$64	\$2,508	\$27	\$1,056	\$29	\$1,136
LT-5 - L New Storage Pit	25	10/1/08	185	4,632	37	925	106	2,657	\$70	\$1,760	\$30	\$741	\$32	\$797
New Storage Pit	25	10/1/10	185	4,632	37	925	106	2,657	\$70	\$1,760	\$30	\$741	\$32	\$797
<i>LT-5 - L Thompson,SW1/4 Sec 2 Total:</i>			369	9,264	74	1,850	212	5,314	\$140	\$3,520	\$59	\$1,483	\$64	\$1,594
Lucille's 40 - "Miller New Storage Pit	37	9/28/07	297	11,046	55	2,064	135	5,036	\$113	\$4,197	\$44	\$1,654	\$41	\$1,511
Mortality Composter	37	4/21/09	63	2,344	11	422	27	992	\$24	\$891	\$9	\$338	\$8	\$298
New Storage Pit	37	10/1/09	170	6,312	34	1,261	97	3,621	\$64	\$2,399	\$27	\$1,011	\$29	\$1,086
<i>Lucille's 40 - "Miller 33" Total:</i>			530	19,702	101	3,747	259	9,649	\$201	\$7,487	\$81	\$3,003	\$78	\$2,895
T-1008-1 - Home, New Storage Pit	43	10/1/08	185	7,898	37	1,577	106	4,530	\$70	\$3,001	\$30	\$1,264	\$32	\$1,359
Mortality Composter	43	4/21/10	71	3,033	13	547	30	1,284	\$27	\$1,153	\$10	\$438	\$9	\$385
New Storage Pit	43	10/1/10	170	7,262	34	1,450	97	4,166	\$64	\$2,760	\$27	\$1,162	\$29	\$1,250
<i>T-1008-1 - Home, west field Total:</i>			425	18,193	84	3,574	233	9,980	\$162	\$6,913	\$67	\$2,865	\$70	\$2,994
T-1008-2 - Home, New Storage Pit	15	10/1/08	185	2,694	37	538	106	1,545	\$70	\$1,024	\$30	\$431	\$32	\$464
New Storage Pit	15	10/1/10	185	2,694	37	538	106	1,545	\$70	\$1,024	\$30	\$431	\$32	\$464
<i>T-1008-2 - Home, church Total:</i>			369	5,388	74	1,076	212	3,090	\$140	\$2,047	\$59	\$862	\$64	\$927
T-1008-3E - Home; New Storage Pit	37	10/1/08	185	6,791	37	1,356	106	3,895	\$70	\$2,581	\$30	\$1,087	\$32	\$1,169
New Storage Pit	37	10/1/10	185	6,791	37	1,356	106	3,895	\$70	\$2,581	\$30	\$1,087	\$32	\$1,169
<i>T-1008-3E - Home; North part East 80</i>			369	13,582	74	2,712	212	7,790	\$140	\$5,161	\$59	\$2,174	\$64	\$2,337

T-1008-3W - Home, New Storage Pit	27	9/28/07	304	8,140	57	1,521	138	3,711	\$115	\$3,093	\$45	\$1,219	\$42	\$1,113
New Storage Pit	27	10/1/09	170	4,547	34	908	97	2,609	\$64	\$1,728	\$27	\$728	\$29	\$783
<i>T-1008-3W - Home, around buildings</i>			473	12,687	91	2,429	236	6,320	\$180	\$4,821	\$73	\$1,947	\$71	\$1,896
T-1008-4e - Home New Storage Pit	15	10/1/08	185	2,768	37	553	106	1,588	\$70	\$1,052	\$30	\$443	\$32	\$476
New Storage Pit	15	10/1/10	185	2,768	37	553	106	1,588	\$70	\$1,052	\$30	\$443	\$32	\$476
<i>T-1008-4e - Home east of drive Total:</i>			369	5,536	74	1,106	212	3,176	\$140	\$2,104	\$59	\$886	\$64	\$953
T-1008-4w - Home, New Storage Pit	12	9/28/07	302	3,738	56	699	137	1,704	\$115	\$1,420	\$45	\$560	\$41	\$511
New Storage Pit	12	10/1/09	170	2,104	34	420	97	1,207	\$64	\$800	\$27	\$337	\$29	\$362
<i>T-1008-4w - Home, west of driveway</i>			471	5,842	90	1,119	235	2,911	\$179	\$2,220	\$72	\$897	\$70	\$873
T-1008-5 - Home; New Storage Pit	40	10/1/08	185	7,289	37	1,456	106	4,181	\$70	\$2,770	\$30	\$1,167	\$32	\$1,254
Mortality Composter	40	4/21/11	79	3,111	14	561	33	1,317	\$30	\$1,182	\$11	\$450	\$10	\$395
<i>T-1008-5 - Home; South part East 80</i>			263	10,400	51	2,017	139	5,498	\$100	\$3,952	\$41	\$1,617	\$42	\$1,649
T-1100-2 & 8 - New Storage Pit	47	10/1/07	243	11,399	45	2,130	111	5,197	\$92	\$4,332	\$36	\$1,707	\$33	\$1,559
New Storage Pit	47	10/1/09	170	7,975	34	1,593	97	4,575	\$64	\$3,031	\$27	\$1,277	\$29	\$1,373
<i>T-1100-2 & 8 - Downes Place Total:</i>			412	19,374	79	3,723	208	9,772	\$157	\$7,362	\$63	\$2,984	\$62	\$2,932
T-1100-6 - Downes New Storage Pit	129	10/10/07	265	34,077	50	6,368	121	15,536	\$101	\$12,949	\$40	\$5,104	\$36	\$4,661
New Storage Pit	129	10/1/09	170	21,804	34	4,354	97	12,507	\$64	\$8,286	\$27	\$3,490	\$29	\$3,752
<i>T-1100-6 - Downes Place Total:</i>			435	55,881	83	10,722	218	28,043	\$165	\$21,235	\$67	\$8,594	\$65	\$8,413
Grand Total:			6,399	289,221	1,256	56,717	3,473	156,575	\$2,432	\$109,904	\$1,006	\$45,459	\$1,042	\$46,973
													Grand Total Value: \$202,335	

Summary All Years P and K Balance

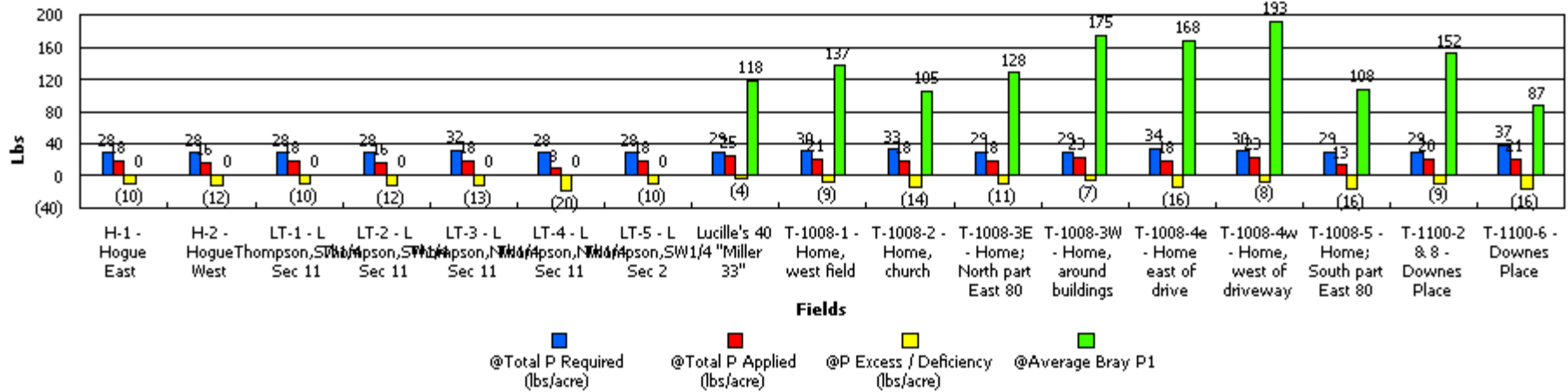
Phosphorus and Potassium Report:

Field	Planted Acres, All Years	Phosphorus							Potassium						
		Bray P1 Test	Required		Applied		Excess / Deficiency		Potassium Test	Required		Applied		Excess / Deficiency	
			Total lbs	lbs / acre*	Total lbs	lbs / acre*	Total lbs	lbs / acre*		Total lbs	lbs / acre*	Total lbs	lbs / acre*	Total lbs	lbs / acre*
H-1	310	0	8,769	28	5,720	18	-3,049	-10	0	15,520	50	16,428	53	908	3
H-2	285	0	8,046	28	4,524	16	-3,522	-12	0	14,240	50	12,994	46	-1,246	-4
LT-1	313	0	8,837	28	5,764	18	-3,073	-10	0	15,640	50	16,554	53	914	3
LT-2	292	0	8,249	28	4,638	16	-3,611	-12	0	14,600	50	13,322	46	-1,278	-4
LT-3	41	0	1,164	32	678	18	-486	-13	0	2,060	56	1,948	53	-112	-3
LT-4	156	0	4,396	28	1,318	8	-3,078	-20	0	7,780	50	3,786	24	-3,994	-26
LT-5	100	0	2,836	28	1,850	18	-986	-10	0	5,020	50	5,314	53	294	3
Lucille's 40	149	118	4,341	29	3,747	25	-594	-4	325	7,842	53	9,649	65	1,807	12
T-1008-1	176	137	5,146	30	3,574	21	-1,572	-9	466	9,296	54	9,980	58	684	4
T-1008-2	65	105	1,902	33	1,076	18	-826	-14	350	3,436	59	3,090	53	-346	-6
T-1008-3E	147	128	4,295	29	2,712	18	-1,583	-11	464	7,757	53	7,790	53	33	0
T-1008-3W	107	175	3,128	29	2,429	23	-699	-7	540	5,649	53	6,320	59	671	6
T-1008-4e	60	168	2,051	34	1,106	18	-945	-16	304	3,162	53	3,176	53	14	0
T-1008-4w	51	193	1,494	30	1,119	23	-375	-8	279	2,698	54	2,911	59	213	4
T-1008-5	158	108	4,610	29	2,017	13	-2,593	-16	458	8,327	53	5,498	35	-2,829	-18
T-1100-2 & 8	188	152	5,485	29	3,723	20	-1,762	-9	276	9,908	53	9,772	52	-136	-1
T-1100-6	514	87	19,121	37	10,722	21	-8,399	-16	274	40,092	78	28,043	55	-12,049	-23
Total:	3,113	63	93,868		56,717		-37,151		185	173,027		156,575		-16,452	

* per spreadable acre

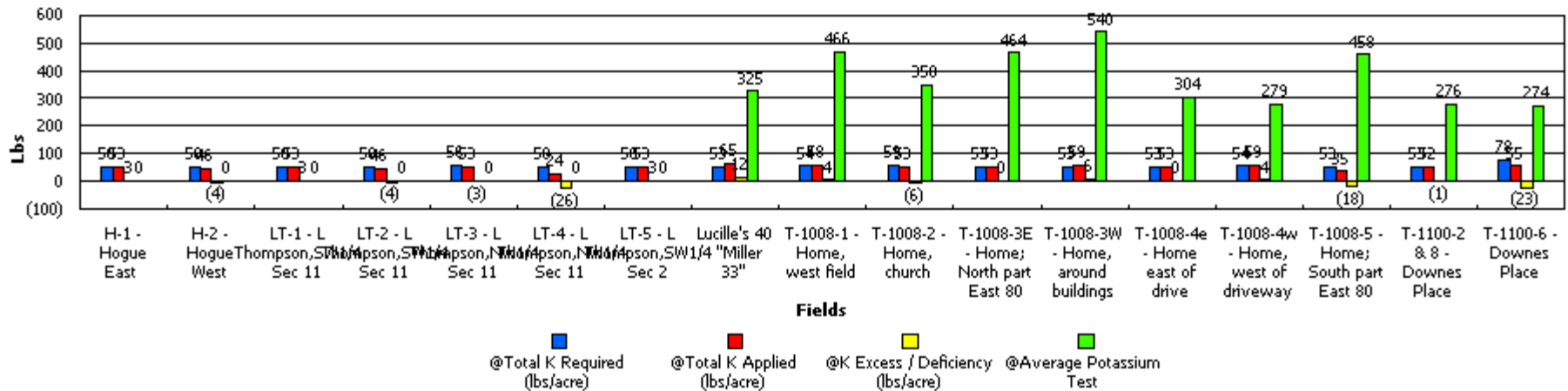
Phosphorus Balance

per field for the year



Potassium Balance

per field for the year



Nutrient Balance - 2008 through 2011

General Nutrient Budget:

Crop	Acres Planted	Nitrogen*	P2O5**	K2O	Average Yield	N	P	K
Corn,IL-1.2 (Illinois)	1,557	373,584	142,028	85,924	200	1.20	0.19	0.23
Soybeans (Illinois)	1,557	270,171	72,929	121,709	53	3.30	0.37	1.08

Total Crop Nutrients Utilized:

For All Crops	3,113	643,755	214,957	207,633
For Non Legume Crops	1,557	373,584	142,028	85,924

Nutrients Required Per Acre

Average All Crops	207	69	67
Average Non Legume Crops	240	91	55

* 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	14,308,000	Gallons	391,426	192,545	208,386
Solid Manure	385	Tons	15,610	3,758	4,625
Total Manure Nutrients			407,036	196,303	213,011

TOTAL NUTRIENTS PRODUCED:	Avail. Nitrogen***	P2O5	K2O
Total Manure Nutrients	407,036	196,303	213,011
Nutrient Balance (Supplied By Manure - Crop Needs)	-236,719	-18,654	5,378
Nutrient Balance If No Manure On Legumes	33,452	54,275	127,087

TOTAL PLANTED ACRES IN ALL PLAN YEARS:	Acres	Acres / Year
Average Acres Needed To Utilize Available Manure P2O5 At Crop Removal	2,843	711
Additional Acres Needed To Apply Manure At P2O5 Crop Removal	-270	-68
Average Acres Needed To Utilize Available Manure N At Crop Need (All Crops)	1,968	492
Average Acres Needed To Utilize Available Manure N At Crop Need (Non-Legumes)	1,696	424

*** 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: 2008 Number of Plan Years: 4

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
H-1 - Hogue East	Lbs / Acre	0	-10	0	4	Lbs / Acre	-10	-3	3	1
H-2 - Hogue West	Lbs / Acre	0	-13	0	-5	Lbs / Acre	-12	-3	-4	-1
LT-1 - L Thompson,SW1/4 Sec 11	Lbs / Acre	0	-10	0	4	Lbs / Acre	-10	-3	3	1
LT-2 - L Thompson,SW1/4 Sec 11	Lbs / Acre	0	-13	0	-5	Lbs / Acre	-12	-3	-4	-1
LT-3 - L Thompson,NW1/4 Sec 11	Lbs / Acre	0	-14	0	-4	Lbs / Acre	-13	-3	-3	-1
LT-4 - L Thompson,NW1/4 Sec 11	Lbs / Acre	0	-20	0	-31	Lbs / Acre	-20	-5	-26	-8
LT-5 - L Thompson,SW1/4 Sec 2	Lbs / Acre	0	-10	0	4	Lbs / Acre	-10	-3	3	1
Lucille's 40 - "Miller 33"	Lbs / Acre	118	114	325	340	Lbs / Acre	-4	-1	12	4
T-1008-1 - Home, west field	Lbs / Acre	137	128	466	471	Lbs / Acre	-9	-2	4	1
T-1008-2 - Home, church	Lbs / Acre	105	90	350	343	Lbs / Acre	-14	-4	-6	-2
T-1008-3E - Home; North part East 80	Lbs / Acre	128	117	464	465	Lbs / Acre	-11	-3	0	0
T-1008-3W - Home, around buildings	Lbs / Acre	175	168	540	548	Lbs / Acre	-7	-2	6	2
T-1008-4e - Home east of drive	Lbs / Acre	168	152	304	304	Lbs / Acre	-16	-4	0	0
T-1008-4w - Home, west of driveway	Lbs / Acre	193	185	279	284	Lbs / Acre	-8	-2	4	1
T-1008-5 - Home; South part East 80	Lbs / Acre	108	91	458	436	Lbs / Acre	-16	-4	-18	-5
T-1100-2 & 8 - Downes Place	Lbs / Acre	152	142	276	275	Lbs / Acre	-9	-2	-1	0
T-1100-6 - Downes Place	Lbs / Acre	87	70	274	246	Lbs / Acre	-16	-4	-23	-7

Manure Summary

Manure Summary:

Manure Application and Allocation	Manure Produced	Manure Transferred	Planned Applications	Recorded Applications
2008				
Annual Manure & Waste water Production: Fall Creek Farrowing	1,533,000			
Annual Manure & Waste water Production: Fall Creek Gestation	2,044,000			
Annual Manure & Waste water Production: New Storage Pit				
Estimated Application to: Lucille's 40 - "Miller 33"			487,320	
Estimated Application to: T-1008-3W - Home, around buildings			359,120	
Estimated Application to: T-1008-4w - Home, west of driveway			164,920	
Estimated Application to: T-1100-2 & 8 - Downes Place			502,900	
Estimated Application to: T-1100-6 - Downes Place			1,503,450	
2008 Total:	3,577,000 gal		3,017,710 gal	
2009				
Annual Manure & Waste water Production: Fall Creek Farrowing	1,533,000			
Annual Manure & Waste water Production: Fall Creek Gestation	2,044,000			
Annual Manure & Waste water Production: Mortality Composter	96 Tons			
Annual Manure & Waste water Production: New Storage Pit				
Estimated Application to: H-1 - Hogue East			675,120	
Estimated Application to: H-2 - Hogue West			498,400	
Estimated Application to: LT-1 - L Thompson,SW1/4 Sec 11			680,340	
Estimated Application to: LT-3 - L Thompson,NW1/4 Sec 11			80,040	
Estimated Application to: LT-5 - L Thompson,SW1/4 Sec 2			218,370	
Estimated Application to: Lucille's 40 - "Miller 33"			74	
Estimated Application to: T-1008-1 - Home, west field			372,360	
Estimated Application to: T-1008-2 - Home, church			127,020	
Estimated Application to: T-1008-3E - Home; North part East 80			320,160	
Estimated Application to: T-1008-4e - Home east of drive			130,500	
Estimated Application to: T-1008-5 - Home; South part East 80			343,650	
2009 Total:	3,577,000 gallon 96 tons		3,446,960 gallons 74 tons	
2010				
Annual Manure & Waste water Production: Fall Creek Farrowing	1,533,000			
Annual Manure & Waste water Production: Fall Creek Gestation	2,044,000			
Annual Manure & Waste water Production: Mortality Composter	96 tons			
Annual Manure & Waste water Production: New Storage Pit				
Estimated Application to: H-2 - Hogue West			569,600	
Estimated Application to: LT-2 - L Thompson,SW1/4 Sec 11			584,000	
Estimated Application to: LT-4 - L Thompson,NW1/4 Sec 11			311,200	
Estimated Application to: Lucille's 40 - "Miller 33"			297,600	
Estimated Application to: T-1008-1 - Home, west field			96	
Estimated Application to: T-1008-3W - Home, around buildings			214,400	
Estimated Application to: T-1008-4w - Home, west of driveway			99,200	
Estimated Application to: T-1100-2 & 8 - Downes Place			376,000	

Estimated Application to: T-1100-6 - Downes Place		1,028,000
2010 Total:	3,577,000 gallons 96 tons	3,480,000 gallons 96 tons
2011		
Annual Manure & Waste water Production: Fall Creek Farrowing	1,533,000	
Annual Manure & Waste water Production: Fall Creek Gestation	2,044,000	
Annual Manure & Waste water Production: Mortality Composter	96 tons	
Annual Manure & Waste water Production: New Storage Pit		
Estimated Application to: H-1 - Hogue East		675,120
Estimated Application to: LT-1 - L Thompson,SW1/4 Sec 11		680,340
Estimated Application to: LT-2 - L Thompson,SW1/4 Sec 11		511,000
Estimated Application to: LT-3 - L Thompson,NW1/4 Sec 11		80,040
Estimated Application to: LT-5 - L Thompson,SW1/4 Sec 2		218,370
Estimated Application to: T-1008-1 - Home, west field		342,400
Estimated Application to: T-1008-2 - Home, church		127,020
Estimated Application to: T-1008-3E - Home; North part East 80		320,160
Estimated Application to: T-1008-4e - Home east of drive		130,500
Estimated Application to: T-1008-5 - Home; South part East 80		99
2011 Total:	3,577,000 gallons 96 tons	3,085,950 gallons 99 tons
Manure Produced Grand Total:	14,308,000 gallons 288 tons	
Manure Transferred Grand Total:		
Planned Manure Applications Grand Total:		13,028,620 gallons
Recorded Manure Applications Grand Total:		269 tons

Crop Rotation - All Years

Crop Rotation:

Field	Plan Year	Crop Name	Acres Planted	Yield Potential	NRequired	PRequired	KRequired
H-1 - Hogue East	2008	Soybeans	78	50	12,804	1,436	4,190
	2009	Corn,IL-1.2	78	200	18,624	2,949	3,570
	2010	Soybeans	78	50	12,804	1,436	4,190
	2011	Corn,IL-1.2	78	200	18,624	2,949	3,570
H-1 - Hogue East Total:					62,856	8,769	15,520
H-2 - Hogue West	2008	Corn,IL-1.2	71	200	17,088	2,706	3,275
	2009	Soybeans	71	50	11,748	1,317	3,845
	2010	Corn,IL-1.2	71	200	17,088	2,706	3,275
	2011	Soybeans	71	50	11,748	1,317	3,845
H-2 - Hogue West Total:					57,672	8,046	14,240
LT-1 - L Thompson,SW1/4 Sec 11	2008	Soybeans	78	50	12,903	1,447	4,223
	2009	Corn,IL-1.2	78	200	18,768	2,972	3,597
	2010	Soybeans	78	50	12,903	1,447	4,223
	2011	Corn,IL-1.2	78	200	18,768	2,972	3,597
LT-1 - L Thompson,SW1/4 Sec 11 Total:					63,342	8,837	15,640
LT-2 - L Thompson,SW1/4 Sec 11	2008	Corn,IL-1.2	73	200	17,520	2,774	3,358
	2009	Soybeans	73	50	12,045	1,351	3,942
	2010	Corn,IL-1.2	73	200	17,520	2,774	3,358
	2011	Soybeans	73	50	12,045	1,351	3,942
LT-2 - L Thompson,SW1/4 Sec 11 Total:					59,130	8,249	14,600
LT-3 - L Thompson,NW1/4 Sec 11	2008	Soybeans	10	50	1,700	191	556
	2009	Corn,IL-1.2	10	200	2,472	391	474
	2010	Soybeans	10	50	1,700	191	556
	2011	Corn,IL-1.2	10	200	2,472	391	474
LT-3 - L Thompson,NW1/4 Sec 11 Total:					8,343	1,164	2,060
LT-4 - L Thompson,NW1/4 Sec 11	2008	Corn,IL-1.2	39	200	9,336	1,478	1,789
	2009	Soybeans	39	50	6,419	720	2,101
	2010	Corn,IL-1.2	39	200	9,336	1,478	1,789
	2011	Soybeans	39	50	6,419	720	2,101
LT-4 - L Thompson,NW1/4 Sec 11 Total:					31,509	4,396	7,780
LT-5 - L Thompson,SW1/4 Sec 2	2008	Soybeans	25	50	4,142	464	1,355
	2009	Corn,IL-1.2	25	200	6,024	954	1,155
	2010	Soybeans	25	50	4,142	464	1,355
	2011	Corn,IL-1.2	25	200	6,024	954	1,155
LT-5 - L Thompson,SW1/4 Sec 2 Total:					20,331	2,836	5,020
Lucille's 40 - "Miller 33"	2008	Corn,IL-1.2	37	200	8,928	1,414	1,711
	2009	Soybeans	37	55	6,752	757	2,210
	2010	Corn,IL-1.2	37	200	8,928	1,414	1,711

Lucille's 40 - "Miller 33"	2011	Soybeans	37	55	6,752	757	2,210
	Lucille's 40 - "Miller 33" Total:					31,360	4,341
T-1008-1 - Home, west field	2008	Soybeans	44	55	8,004	897	2,620
	2009	Corn,IL-1.2	44	200	10,584	1,676	2,029
	2010	Soybeans	44	55	8,004	897	2,620
	2011	Corn,IL-1.2	44	200	10,584	1,676	2,029
T-1008-1 - Home, west field Total:					37,176	5,146	9,296
T-1008-2 - Home, church	2008	Soybeans	16	55	2,958	332	968
	2009	Corn,IL-1.2	16	200	3,912	619	750
	2010	Soybeans	16	55	2,958	332	968
	2011	Corn,IL-1.2	16	200	3,912	619	750
T-1008-2 - Home, church Total:					13,741	1,902	3,436
T-1008-3E - Home; North part East 80	2008	Soybeans	37	55	6,679	749	2,186
	2009	Corn,IL-1.2	37	200	8,832	1,398	1,693
	2010	Soybeans	37	55	6,679	749	2,186
	2011	Corn,IL-1.2	37	200	8,832	1,398	1,693
T-1008-3E - Home; North part East 80 Total:					31,022	4,295	7,757
T-1008-3W - Home, around buildings	2008	Corn,IL-1.2	27	200	6,432	1,018	1,233
	2009	Soybeans	27	55	4,864	545	1,592
	2010	Corn,IL-1.2	27	200	6,432	1,018	1,233
	2011	Soybeans	27	55	4,864	545	1,592
T-1008-3W - Home, around buildings Total:					22,592	3,128	5,649
T-1008-4e - Home east of drive	2008	Soybeans	15	55	2,723	305	891
	2009	Corn,IL-1.2	15	200	3,600	720	690
	2010	Soybeans	15	55	2,723	305	891
	2011	Corn,IL-1.2	15	200	3,600	720	690
T-1008-4e - Home east of drive Total:					12,645	2,051	3,162
T-1008-4w - Home, west of driveway	2008	Corn,IL-1.2	13	200	3,072	486	589
	2009	Soybeans	13	55	2,323	260	760
	2010	Corn,IL-1.2	13	200	3,072	486	589
	2011	Soybeans	13	55	2,323	260	760
T-1008-4w - Home, west of driveway Total:					10,790	1,494	2,698
T-1008-5 - Home; South part East 80	2008	Soybeans	40	55	7,169	804	2,346
	2009	Corn,IL-1.2	40	200	9,480	1,501	1,817
	2010	Soybeans	40	55	7,169	804	2,346
	2011	Corn,IL-1.2	40	200	9,480	1,501	1,817
T-1008-5 - Home; South part East 80 Total:					33,299	4,610	8,327
T-1100-2 & 8 - Downes Place	2008	Corn,IL-1.2	47	200	11,280	1,786	2,162
	2009	Soybeans	47	55	8,531	956	2,792
	2010	Corn,IL-1.2	47	200	11,280	1,786	2,162
	2011	Soybeans	47	55	8,531	956	2,792
T-1100-2 & 8 - Downes Place Total:					39,621	5,485	9,908

T-1100-6 - Downes Place	2008	Corn,IL-1.2	129	200	30,840	6,168	5,911
	2009	Soybeans	129	55	23,323	3,392	14,135
	2010	Corn,IL-1.2	129	200	30,840	6,168	5,911
	2011	Soybeans	129	55	23,323	3,392	14,135
T-1100-6 - Downes Place Total:					108,326	19,121	40,092
Grand Total:					643,755	93,868	173,027