

APPENDIX B

- ✓ **WASTEWATER NUTRIENT MANAGEMENT CALCULATIONS**
 - ✓ **WASTEWATER NUTRIENT BUDGET SUMMARY**
 - ✓ **WASTEWATER ANALYTICAL RESULTS**

Wastewater Nutrient Management Calculations

Midwest Poultry Services, LP Hi-Grade Egg Producers Loda, Illinois

Date of Report: 17-Dec-08

Wastewater Nutrient Analyses

(results reported in lbs/1000 gallons)

Egg Processing Wastewater			
4 Sample Aver.			
Date of samples:	2007 & 2008	N. Avail Factors	
Solids %	0.34	Surface Application	
Total Nitrogen	2.087	No Incorporation	
Ammonia N (NH ₄ -N)	1.894	20%	Avail. Ammonia-N
Organic N	0.546	33%	Avail. Organic-N
Available N	0.55902		
N avail. % (after land application)	23.6%		
Phosphorus as P ₂ O ₅	1.0520		
Potassium as K ₂ O	6.4638		

Estimated annual production 2,009,722 gallons

Total Nutrients Contained in Wastewater (annual production, includes rainfall):

Total Nitrogen	4,195	pounds
Ammonia Nitrogen	3,807	pounds
Organic Nitrogen	1,097	pounds
Available Nitrogen	1,123	pounds
Phosphate as P ₂ O ₅	2,114	pounds
Potassium as K ₂ O	12,990	pounds

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specific purposes stated.

Wastewater Nutrient Budget Summary

Midwest Poultry Services, LP Hi-Grade Egg Producers Loda

Date of Report: 12/17/2008

Standard application rate/acre:	150,000
Total wastewater exported off farm:	0
Total wastewater to apply/year.:	2,009,722
Total wastewater applied/year:	2,009,722
Net:	0

Crop Rotation:	Grass Hay
Rotation Number of Years:	5
Acres of crop/year:	30
Yield, tons or bushels/acre:	6
Prior wastewater rate, gallons/acre/year	66,991
Wastewater acres covered/year	30
Total ww Avail N lbs/a applied per year:	1,123
Ave. ww Avail N lbs/a (total crop)/year:	37
Total ww P2O5 applied per year:	2,114
Ave. ww P2O5 lbs/a (total crop)/year:	70

Nitrogen lbs/acre removed/year:	240
Annual total lbs. Nitrogen removed:	7,200
P2O5 lbs/acre removed/year:	78
Annual total lbs. P2O5 removed:	2,340

Annual +/- Nitrogen	(6,077)
Annual +/- P2O5	(226)

Total Rotation years =	5
Lbs. Avail N Applied:	5,617
Lbs. P2O5 Applied:	10,571
Lbs. Nitrogen Removed:	(36,000)
Lbs. P2O5 Removed:	(11,700)

Net Nitrogen lbs/acre after full rotation =	(1,013)
Net P2O5 lbs/acre after full rotation =	(38)

Net soil test ppm P after full rotation:	(2)
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LABORATORY REPORT



Customer: 1209 Sample: 134879
Midwest Poultry Service Pond #1-Loda, Illinois

Mailing: Desc Code: ANNUAL
Date Sampled: 03/04/08
Time Sampled: 09:17
Date Received: 03/04/08

Billing:
ATTN: Kent Kleeman
P.O. Box 307
Mentone, IN 46539
Test Description

Date Reported:
P.O. Number:

Certified Public Health Laboratory: MC-43-1

USDA Laboratory Code: 3659

560 S. Zimmer Road - P.O. Box 1849

Warsaw, Indiana 46581-1849

Voice: 574-267-3305 / Fax: 574-269-6569

This report printed from Sherrylabs.com

Result	Units	MDL	Lab Method #	Date and Time	Run No	Analyst
QC-If Applicable						

Metals Prep Tot

200.7.11.2

Reference Method: Aqueous Sample Prep - Total Recoverable Analytes		Comments:				
Calcium, Total	44.5	ppm	0.05	200.7-CA	03/07/08 13:59	116901 SL
Reference Method: 200.7 Inductively Coupled Plasma		Comments:				
Potassium, Total	633	ppm	2	200.7-K	03/12/08 11:47	116902 SL
Reference Method: 200.7 Inductively Coupled Plasma		Comments:				
Magnesium, Total	18.6	ppm	0.1	200.7-MG	03/07/08 13:59	116900 SL
Reference Method: 200.7 Inductively Coupled Plasma		Comments:				
Sodium, Total	356	ppm	2	200.7-NA	03/12/08 11:47	116903 SL
Reference Method: 200.7 Inductively Coupled Plasma		Comments:				
Solids Total	3200	ppm	1	2540B	03/08/08 12:00	116886 SL
Reference Method: 2540 B Total Solids Dried at 103 C		Comments:				
Ammonia Nitrogen	259	ppm	0.1	4500NH3F	03/10/08 12:00	116864 SL
Reference Method: E350.3 Ammonia Selective Electrode		Comments:				
Nitrate & Nitrite Nitro	ND	ppm	0.5	4500NO3F	03/07/08 12:00	116863 SL
Reference Method: 4500 NO3 F Nitrate-Nitrite (as N) Automated		Comments:				
Kjeldahl Nitrogen	184	ppm	10	4500NORGB	03/12/08 12:00	116904 SL
Reference Method: E351.4 Nitrogen Macro-Kjeldahl Method		Comments:				
Phosphorus Total	44.4	ppm	0.1	4500PB6E	03/13/08 14:20	116905 SL
Reference Method: 4500 P B 5 E H2SO4-HNO3, Ascorbic Acid		Comments:				

A result of "ND" indicates None Detected. For bacteriological results "ND" indicates negative. Zeros to the right of the decimal point and/or to the right of a digit are not significant. (e.g. 10.00 = 10, 1.00 = 1, 1.10 = 1.1 MDL - Minimum Detection Level concentration reportable >0 with 99% confidence in an aqueous matrix.)

All testing is conducted in accordance with the following regulations as applicable: 40 CFR Part 136, 40 CFR Part 261, or PL 91-597.

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Approved By:

LABORATORY REPORT



Customer: 1209 Sample: 134880
Midwest Poultry Service Pond #2-Loda, Illinois

Mailing: Desc Code: ANNUAL
Date Sampled: 03/04/08
Time Sampled: 09:22
Date Received: 03/04/08

Billing:
ATTN: Kent Kleeman
P.O. Box 307
Mentone, IN 46539
Test Description

Date Reported:
P.O. Number:

Certified Public Health Laboratory: MC-43-1

USDA Laboratory Code: 3659

560 S. Zimmer Road - P.O. Box 1849

Warsaw, Indiana 46581-1849

Voice: 574-267-3305 / Fax: 574-269-6569

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Result	Units	MDL	Lab Method #	Date and Time	Run No	Analyst
QC-If Applicable						
Metals Prep Tot						
Reference Method: Aqueous Sample Prep - Total Recoverable Analytes						
Calcium, Total	49.2	ppm	0.05 200.7-CA	03/07/08 13:59	118901	SL
Reference Method: 200.7 Inductively Coupled Plasma						
Potassium, Total	737	ppm	2 200.7-K	03/12/08 11:47	118902	SL
Reference Method: 200.7 Inductively Coupled Plasma						
Magnesium, Total	18	ppm	0.1 200.7-MG	03/07/08 13:58	118900	SL
Reference Method: 200.7 Inductively Coupled Plasma						
Sodium, Total	410	ppm	2 200.7-NA	03/12/08 11:47	118903	SL
Reference Method: 200.7 Inductively Coupled Plasma						
Solids Total	3300	ppm	1 2540B	03/08/08 12:00	118886	SL
Reference Method: 2540 B Total Solids Dried at 103 C						
Ammonia Nitrogen	186	ppm	0.1 4500NH3F	03/10/08 12:00	118864	SL
Reference Method: E350.3 Ammonia Selective Electrode						
Nitrate & Nitrite Nitro	ND	ppm	0.5 4500NO3F	03/07/08 12:00	118863	SL
Reference Method: 4500 NO3 F Nitrate-Nitrite (as N) Automated						
Kjeldahl Nitrogen	199	ppm	5 4500NORGB	03/12/08 12:00	118904	SL
Reference Method: E351.4 Nitrogen Macro-Kjeldahl Method						
Phosphorus Total	46.4	ppm	0.1 4500PB5E	03/13/08 14:20	118905	SL
Reference Method: 4500 P B 5 E H2SO4-HNO3, Ascorbic Acid						

A result of "ND" indicates None Detected. For bacteriological results "ND" indicates negative. Zeros to the right of the decimal point and/or to the right of a digit are not significant. ie: 10.00 = 10; 1.00 = 1; 1.10 = 1.1 MDL - Minimum Detection Level concentration reportable >0 with 99% confidence in an aqueous matrix.

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LABORATORY REPORT



SHERRY Laboratories

Testing today. Protecting tomorrow.

Customer: 1209 Sample: 121215

Midwest Poultry Service Loda Pond #1

Mailing: Desc Code: STUDY

P.O. Box 307

Mentone, IN 46539

Billing:

ATTN: Kent Kleeman

P.O. Box 307

Mentone, IN 46539

Test Description

Date Sampled: 02/21/07

Time Sampled: 11:40

Date Received: 02/21/07

Date Reported:

P.O. Number:

Certified Public Health Laboratory: MC-43-1

USDA Laboratory Code: 3659

560 S. Zimmer Road - P.O. Box 1849

Warsaw, Indiana 46581-1849

Voice: 574-267-3305 / Fax: 574-269-6569

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Test Description	Result	Units	MDL	Lab Method #	Date and Time	Run No	Analyst
			QC-If Applicable				

Metals Prep Tot

Reference Method: Aqueous Sample Prep - Total Recoverable Analytes

200.7.11.2

Calcium, Total	93.5	ppm		200.7-CA	02/27/07 19:15	111799	SL
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Reference Method: 200.7 Inductively Coupled Plasma

Comments:

Potassium, Total	687.0	ppm		200.7-K	03/01/07 11:33	111802	SL
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Reference Method: 200.7 Inductively Coupled Plasma

Comments:

Magnesium, Total	30.9	ppm		200.7-MG	02/27/07 19:15	111798	SL
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Reference Method: 200.7 Inductively Coupled Plasma

Comments:

Sodium, Total	425.0	ppm	0.2	200.7-NA	03/01/07 11:33	111801	SL
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Reference Method: 200.7 Inductively Coupled Plasma

Comments:

Sol ^s Total	5300.0	ppm	1.0	2540B	02/27/07 12:00	111819	SL
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ence Method: 2540 B Total Solids Dried at 103 C

Comments:

Ammonia Nitrogen	305.0	ppm	0.1	4500NH3F	02/27/07 12:00	111769	SL
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Reference Method: E350.3 Ammonia Selective Electrode

Comments:

Nitrate & Nitrite Nitro	ND	mg/L	0.1	4500NO3F	03/01/07 12:00	111796	SL
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Reference Method: 4500 NO3 F Nitrate-Nitrite (as N) Automated

Comments:

Kjeldahl Nitrogen	371.0	mg/L	0.5	4500NORGB	03/01/07 12:00	111800	SL
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Reference Method: E351.4 Nitrogen Macro-Kjeldahl Method

Comments:

Phosphorus Total	75.0	ppm	0.1	4500PB5E	02/26/07 12:00	111780	SL
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Reference Method: 4500 PB 5 E H2SO4-HNO3, Ascorbic Acid

Comments:

A result of "ND" indicates None Detected. For bacteriological results "ND" indicates negative. Zeros to the right of the decimal point and/or to the right of a digit are not significant. ie: 10.00 = 10; 1.00 = 1; 1.10 = 1.1 MDL - Minimum Detection Level concentration reportable >0 with 99% confidence in an aqueous matrix.

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LABORATORY REPORT


SHERRY Laboratories
 Testing Today. Protecting Tomorrow.

Customer: 1209 Sample: 121216

Midwest Poultry Service Loda Pond #2

Mailing: Desc Code: MONTHLY

P.O. Box 307 Date Sampled: 02/21/07

Mentone, IN 46539 Time Sampled: 11:45

Billing: Date Reported:

ATTN: Kent Kleeman P.O. Number:

P.O. Box 307

Mentone, IN 46539

Test Description

Certified Public Health Laboratory: MC-43-1

USDA Laboratory Code: 3659

560 S. Zimmer Road - P.O. Box 1849

Warsaw, Indiana 46581-1849

Voice: 574-267-3305 / Fax: 574-269-6569

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Test Description	Result	Units	MDL	Lab Method #	Date and Time	Run No.	Analyst
			QC-If Applicable				

Metals Prep Tot

Reference Method: Aqueous Sample Prep - Total Recoverable Analytes

200.7.11.2

Calcium, Total	76.3	ppm		200.7-CA	02/27/07 19:15	111799	SL
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Reference Method: 200.7 Inductively Coupled Plasma

Comments:

Potassium, Total	508.0	ppm		200.7-K	03/01/07 11:33	111802	SL
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Reference Method: 200.7 Inductively Coupled Plasma

Comments:

Magnesium, Total	34.6	ppm		200.7-MG	02/27/07 19:15	111798	SL
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Reference Method: 200.7 Inductively Coupled Plasma

Comments:

Sodium, Total	468.0	ppm	0.2	200.7-NA	03/01/07 11:33	111801	SL
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Reference Method: 200.7 Inductively Coupled Plasma

Comments:

Solids Total	4200.0	ppm	1.0	2540B	02/27/07 12:00	111819	SL
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Reference Method: 2540 B Total Solids Dried at 103 C

Comments:

Ammonia Nitrogen	152.0	ppm	0.1	4500NH3F	02/27/07 12:00	111769	SL
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Reference Method: E350.3 Ammonia Selective Electrode

Comments:

Nitrate & Nitrite Nitro	ND	mg/L	0.1	4500NO3F	03/01/07 12:00	111796	SL
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Reference Method: 4500 NO3 F Nitrate-Nitrite (as N) Automated

Comments:

Kjeldahl Nitrogen	240.0	mg/L	0.5	4500NORGB	03/01/07 12:00	111800	SL
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Reference Method: E351.4 Nitrogen Macro-Kjeldahl Method

Comments:

Phosphorus Total	53.0	ppm	0.1	4500PB5E	02/26/07 12:00	111780	SL
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Reference Method: 4500 P B 5 E H2SO4-HNO3, Ascorbic Acid

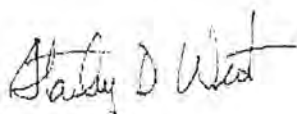
Comments:

A result of "ND" indicates None Detected. For bacteriological results "ND" indicates negative. Zeros to the right of the decimal point and/or to the right of a digit are not significant, ie: 10.00 = 10; 1.00 = 1; 1.10 = 1.1 MDL - Minimum Detection Level concentration reportable >0 with 99% confidence in an aqueous matrix.

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Approved By:



APPENDIX C

√ **AVAILABLE ACRES FOR MANURE APPLICATION**

Summary of Land Available for Manure Application for the Loda Facility

Original Approved Acres

Farm Name:	Operated By:	Total Acres:	Tillable Acres:	FSA Photo ID #:	Reported Corn Yields
Hi-Grade Facility Site	Midwest Poultry Services, L. P.	480.2	430.2		
Home Farm	Earl Rust	200.0	193.4	D13-1-88-98/C13-2-88-56	143.0
East Farm	Earl Rust	170.0	150.1	D13-5-88-50	143.0
Lustfeldt Farm	Earl Rust	54.0	47.3	C13-3-88-70	143.0
Grunewald Farm	Earl Rust	204.0	198.0	C13-5-88-50	143.0
The 110	Gary Dodd	110.0	103.8	E15-3-88-70	154.0
My 40	Gary Dodd	40.0	39.0	F15-1-88-98	154.0
Onken 80	Gary Dodd	80.0	78.5	F15-1-88-98	154.0
The 80	Gary Dodd	69.0	73.5	F15-1-88-98	154.0
Home Place	Gary Dodd	240.0	224.1	F15-4-88-56	154.0
Bruner	Gary Dodd	160.0	148.2	F15-5-88-50	154.0
Rudin	Gary Dodd	120.0	110.4	G16-4-88-70	154.0
Melvin	Gary Dodd	240.0	225.5	I15-1-89-50	146.0
Melvin, Continued	Gary Dodd	40.0	39.4		146.0
Weber	Larry Young	160.0	143.4	D14-4-88-84	150.0
Home	Larry Young	345.0	321.4	E14-6-88-98/E14-5-88-50	140.0
Lee	Larry Young	120.0	110.1	E14-4-88-98/E14-3-88-98	150.0
Bill Young	Larry Young	80.0	74.9	E14-6-88-98	140.0
Steiner	Larry Young	160.0	148.8	E14-3-88-84	145.0
Hawkins	Larry Young	160.0	154.1	F13-4-88-50	160.0
Dippel	Larry Young	80.0	74.4	F14-C-88-50	160.0
Dippel 40	Larry Young	40.0	38.6	F14-2-88-50	160.0
Yergler	Larry Young	240.0	223.7	G15-5-88-56/G15-4-88-70	160.0
Hurst	Larry Chandler	80.0	77.0	G14-1-88-70	151.0
Grandpa's 80	Larry Chandler	80.0	73.8	G12-4-88-50	
Grandpa's 160	Larry Chandler	160.0	153.1	G12-3-88-70	
Tiarks	Larry Chandler	70.0	65.2	G14-2-88-98	153.0
Shoe	Larry Chandler	264.0	257.9	E13-4-88-56	149.0
Louie Home	Larry Chandler	100.0	99.2	E13-1-88-84	146.0
Stanton	Larry Chandler	47.0	45.0	E14-1-88-84	
Jansen	Larry Chandler	88.0	83.5	C13-5-88-50	148.0
		4481.2	4205.5		

Summary of Land Available for Manure Application for the Loda Facility

Additional Acres Being Submitted for Approval:

Farm Name:	Operated By:	Total Acres:	Tillable Acres:	FSA Photo ID #:	Reported Corn Yields
Linda Walcher 39.8	Darren Janssen	39.8	38.1	E15-2-88-50	176.8
Linda Walcher 80	Darren Janssen	80.0	76.4	E14-3-88-84	165.2
Darrel Janssen 113.8	Darren Janssen	113.8	109.4	D14-3-88-84	130.3
Dennis Janssen 128.5	Darren Janssen	128.5	121.9	D14-3-88-84	126.8
J. D. & K Flanigan	Dale Flanigan	58.4	50.9	E15-1-88-84	157.1
Gerald Martin	Dale Flanigan	138.4	137.6	E15-1-88-84	117.4
J & R Martin	Dale Flanigan	80.0	72.2	E15-1-88-84	121.5
James Flanigan	Dale Flanigan	80.0	77.0	E15-1-88-84	133.0
Larue Wilson	Dale Flanigan	52.6	50.2	B16-C-88-50	129.3
Larue Wilson	Dale Flanigan	40.0	38.5	B16-3-88-84	128.8
Viola Hilgert	Dale Flanigan	80.0	80.0	D13-2-88-84	134.2
Darlene Flanigan	Dale Flanigan	39.4	39.4	D13-3-88-70	119.8
Viola Hilgert	Dale Flanigan	82.5	62.2	D13-2-88-84	117.6
Irvin Brandau	Dale Flanigan	76.1	74.1	E13-1-88-84	133.4
Darlene Flanigan	Dale Flanigan	40.0	35.5	E14-1-88-84	136.4
T. D. Flanigan	Dale Flanigan	40.0	38.9	E14-1-88-84	132.8
Broesell	Dale Flanigan	40.0	39.5	E14-6-88-98	120.5
E JNIK	Dale Flanigan	40.0	39.6	E14-6-88-98	119.4
Richard Hilgert	Dale Flanigan	40.0	40.0	E14-6-88-98	0.0
Garwood Home	Art Froehling	184.8	181.9	E14-1-88-84	121.7
Harold Froehling	Art Froehling	160.0	152.0	E14-1-88-84	121.5
Shirley McClure	Art Froehling	80.0	76.8	E14-2-88-100	120.6
Alan Froehling	Art Froehling	160.0	154.6	E14-2-88-100	124.0
Ralph Froehling	Art Froehling	118.6	111.3	F14-C-88-50	133.6
Edward Fehr	Art Froehling	80.0	74.2	F14-C-88-50	120.5
Harold Froehling	Art Froehling	61.8	52.8	C14-1-88-100	119.5
Delores Coulter	Melvin Coulter	244.0	224.6	B15-3-88-84	117.8
Dan Coulter	Melvin Coulter	51.2	49.5	B16-2-88-50	134.8
Corrine Bretz	Melvin Coulter	65.5	62.3	B16-2--88-50	157.0
Daniel Harper	Melvin Coulter	188.9	163.9	D16-3-88-50	116.7
Earl Foster	Melvin Coulter	155.0	123.9	Q2	110.7
Melvin Coulter	Melvin Coulter	115.7	111.0	P2-2	131.2
Fred Manzke	Melvin Coulter	157.0	150.3	P2-2	123.5
Daniel Coulter	Melvin Coulter	152.4	144.8	Q2-5	92.5
Melvin Coulter	Melvin Coulter	79.6	80.1	Q3-1	120.3
David Coulter	Melvin Coulter	151.9	148.3	Q2-5	92.5
Susan Beening	Dennis Janssen	160.0	151.0	E15-3-88-70	120.8
John Walton	Dennis Janssen	160.0	147.4	C14-5-88-50	128.7
Herbert Mueller	Dennis Janssen	60.8	59.2	C1445-88-70	131.2
Mona Martin	Dennis Janssen	27.0	18.0	C14-5-88-50	124.8
Darrel Janssen	Dennis Janssen	6.0	6.0	not available	119.9
Rink	Mark Rust	316.0	304.8	B15-1-88-50	134.6
Dettmering 169.99	Mark Rust	170.0	161.9	A15-2-88-84	149.0
Dettmering 76.7	Mark Rust	76.7	76.7	A15-2-88-84	137.5
Dettmering 80	Mark Rust	80.0	75.1	H15-3-88-50	131.7
Dettmering 79.8	Mark Rust	79.8	75.8	B16-2-88-50	112.5
Baille 160	Mark Rust	160.0	157.5	C16-2-88-56	95.2
Baille 322	Mark Rust	322.0	315.3	D16-1-88-56	114.8
Baille 80	Mark Rust	80.0	70.4	no number available	107.0
Baille 238.5	Mark Rust	238.5	226.0	C16-3-88-56	129.0
SCS-Loda Twp.	Mark Rust	160.0	151.6	C16-4-88-98	162.0
Kulow	Mark Rust	40.0	35.8	C16-4-88-98	140.0
SCS-Pigeon Grove Twp.	Mark Rust	160.0	155.5	E16-1-88-70	104.3
Dettmering-Artesia Twp.	Mark Rust	78.3	77.3	A14-1-88-56	120.4
Rink- Artesia Twp. 80	Mark Rust	80.0	75.9	A14-2-88-100	132.7
Rink-Artesia Twp. 160	Mark Rust	160.0	155.2	B14-4-88-56	147.0
Kendall Hofer	Phil Schieve	40.0	22.2	C14-3-88-98	137.8
Gertude Kolasa	Phil Schieve	80.0	24.0	C14-3-88-98	108.4
Robert Bradshaw	Phil Schieve	80.0	80.2	D14-3-88-84	115.8
Virgil Schieve	Phil Schieve	98.0	96.8	E13-1-88-84	141.7
Sylvia Walborn	Phil Schieve	155.7	107.7	C15-1-88-56	125.9
Warren Hanson	Phil Schieve	276.4	252.1	C15-4-88-56	129.2
		6,841.1	6,363.1		

Acreage previously approved:	4,481.2	4,205.5
Acreage being submitted:	6,841.1	6,363.1
Total acreage available:	11,322.3	10,568.6