SETTJE
Agri-Services & Engineering, Inc.

15460 NW 48th St. | Raymond, NE 68428
(P) 402.783.2100 (F) 402.783.2104

2025 CAFO Annual Report

RECEIVED
FEB 26 2026
NE Dept of Water, Energy, & Environment
By: DWEE_182

Blackshirt Feeders LP
31120 US Hwy 34
Haigler, NE 69030

Permit Number: 118647

1. Livestock Quantity

(The maximum number of livestock, as measured in head count, which was fed within the permitted buildings or open feedlot boundary of your facility. Do not include livestock numbers that were fed in pasture or cropland areas adjacent to the facility)

Beef Cattle - Open Lot: Max - 87,369

2. Generated Waste

Beef Cattle - Open Lot generated (calendar year):	77,992 tons
Transferred (calendar year):	Solid: 18,181 tons
Land Applied (crop year):	Lagoon: 101,381,903 gallons

3. Transferred Waste

18,181 tons

4. Total number of acres covered by approved Nutrient Management Plan

31,211 acres

5. Total number of acres used for land application, including liquids and solids (crop year)

1,087.1 acres

6. Discharges

a. Date and time discharge began:

b. Date and time discharge ended:

c. Approximate volume of waste discharged:

Supporting figures: N/A

7. Land Application Responsibility

Trevor Thompson
31120 US Hwy 34
Haigler, NE 69030
Phone: 308-530-3600
Authorized Representative:
Facility Employee: Yes
Land Application Training Date: 3/7/2025

8. Nutrient Mangement Plan Preparation

The plan for our permitted facility was prepared by our certified nutrient management planner - Settje Agri-Services and Engineering, Inc. located at 15460 NW 48th St. Raymond, NE 68428.

9. Changes to the Nutrient Management Plan

a: Increase or decrease of land application areas: None

b. Changes in methods of soil sampling or analysis: None

c. Changes in how you determine land application rates: None



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Nutrient Application Report

Blackshirt Feeders LP

Field Name:	1.00 - SL 2
Projection Name:	2025
Crop Year:	2025
Actual Acres:	119

Projection Summary

Crops:	Crop 1:	25	Corn Silage
	Crop 2:	4	Triticale, Hay
		Total Uptake:	422.5
Soil Sample:	50.4 lbs/acre		
Lagoon:	0.8 lbs/1000 gal		
Fertilizer Credit:	0 lbs/acre		
Legume Credit:	0 lbs/acre		
Other Credit:	0 lbs/acre		
Total Credits:	0 lbs/acre		
Nitrogen Need:	**372.1 lbs/acre**		
Projected Rate:	485,348 gallons/acre		

Nutrient Summary

Crops:	Crop 1:	26	Corn Silage
	Crop 2:	3.25	Triticale, Hay
		Total Uptake:	403

Nutrients Applied	Nitrogen	Phosphorus
Lagoon:	113	167
Total:	**113 lbs/acre**	**167 lbs/acre**
Additional Nitrogen Need:	259.1 lbs	

Type	Acres	Applied	Rate
Lagoon	119	16,886,497.0	141,903.3 gallons/acre

Future Nitrogen Credits

2026	2027	2028
22 lbs/acre	10 lbs/acre	6 lbs/acre

Notes

Projected Samples

Type	ID	Name
Soil	74675	1
Soil	74679	3
Soil	74677	2
Pond	11988	HP 1
Pond	11990	HP 3
Pond	11989	HP 2

Actual Manure Samples Used

Type	ID	Name
Pond	11989	HP 2
Pond	11988	HP 1
Pond	11990	HP 3

Final Summary

	Projected	Actual
Needed/Applied:	372.1 lbs/acre	113 lbs/acre
Rate:	485,348 gallons/acre	Lagoon: 141,903.3 gal/acre

Dewatering

Start Date	Stop Date	Method	Pond Samples	Volume	Equipment Inspected	Application Rate Did Not Exceed or Runoff
2/5/2025 1:00 PM	2/7/2025 5:00 PM	Sprinkler/Preplant	HP 1	1,170,769	X	X
2/28/2025 8:00 AM	2/28/2025 11:00 PM	Sprinkler/Preplant	HP 1	624,240	X	X
3/7/2025 8:00 AM	3/7/2025 7:45 PM	Sprinkler/Preplant	HP 1	624,240	X	X
3/8/2025 5:00 AM	3/8/2025 10:30 PM	Sprinkler/Preplant	HP 1	624,240	X	X
3/9/2025 8:00 AM	3/13/2025 5:00 AM	Sprinkler/Preplant	HP 1	2,418,594	X	X
3/13/2025 8:00 AM	3/17/2025 5:00 AM	Sprinkler/Preplant	HP 1	2,341,537	X	X
6/18/2025 8:00 AM	6/18/2025 1:00 PM	Sprinkler/Sidedress	HP 2	433,148	X	X
6/20/2025 8:00 AM	6/20/2025 5:00 PM	Sprinkler/Sidedress	HP 2	417,204	X	X
6/28/2025 9:00 AM	6/30/2025 6:30 AM	Sprinkler/Sidedress	HP 2	1,257,352	X	X
8/10/2025 7:45 AM	8/13/2025 5:00 PM	Sprinkler/Sidedress	HP 3	1,644,218	X	X
8/10/2025 9:15 AM	8/16/2025 5:00 PM	Sprinkler/Sidedress	HP 1	5,330,955	X	X

REPORT NUMBER
26-022-0004
COMPLETED DATE
Jan 26, 2026
ACCOUNT
76351
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Jan 22, 2026

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Jan 26, 2026

Godsey Ag
Chad Godsey
36501 CO RD T.5
Eckley CO 80727

IDENTIFICATION
ARK FARMS
STATE LINE
SL02
8BD56368113

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EFC EMAILING
13611 B STREET
OMAHA NE 68144

SOIL ANALYSIS REPORT

LAB NUMBER *465*	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O.I. percent	RATE	PHOSPHORUS P_1 (WEAK BRAY) 1:7 ppm	RATE	PHOSPHORUS P_2 (STRONG BRAY) 1:7 ppm	RATE	OLSEN BICARBONATE P ppm	RATE	NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE) POTASSIUM K ppm	RATE	MAGNESIUM Mg ppm	RATE	CALCIUM Ca ppm	RATE	SODIUM Na ppm	RATE	pH SOIL pH 1:1	BUFFER INDEX	CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED) % K	% Mg	% Ca	% H	% Na
74675	1	0.9	VL	45	VH	50	H			255	VH	103	VH	683	H	11		7.4		5.0	13.1	17.2	68.7	0.0	1.0
74677	2	1.6	L	60	VH	63	VH			348	VH	143	VH	959	H	12		7.0		6.9	12.9	17.3	69.0	0.0	0.8
74679	3	1.6	L	53	VH	57	H			371	VH	146	VH	1013	H	16		7.1		7.3	13.0	16.7	69.3	0.0	1.0

LAB NUMBER *465*	NITRATE-N (FIA) SURFACE ppm	SURFACE lbs/A	SURFACE depth (in)	SUBSOIL 1 ppm	SUBSOIL 1 lbs/A	SUBSOIL 1 depth (in)	SUBSOIL 2 ppm	SUBSOIL 2 lbs/A	SUBSOIL 2 depth (in)	Total lbs/A	SULFUR S ICAP ppm	RATE	ZINC Zn DTPA ppm	RATE	MANGANESE Mn DTPA ppm	RATE	IRON Fe DTPA ppm	RATE	COPPER Cu DTPA ppm	RATE	BORON B SORB. DTPA ppm	RATE	EXCESS LIME RATE	SOLUBLE SALTS 1:1 mmhos/cm	RATE
74675	7	17	0-8	2	10	8-24				27	5	VL	4.9	H	2	VL	8	L	0.4	L	0.1	VL	L	0.1	L
74677	10	24	0-8	8	38	8-24				62	3	VL	7.8	VH	1	VL	16	M	0.6	L	0.2	VL	L	0.2	L
74679	10	24	0-8	8	38	8-24				62	7	L	5.5	H	1	VL	15	M	0.7	L	0.2	VL	L	0.2	L

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The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.

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(P) 402.783.2100 **(F)** 402.783.2104

Nutrient Application Report
Blackshirt Feeders LP

Field Name:	2.00 - SL 4
Projection Name:	2025
Crop Year:	2025
Actual Acres:	119.6

Notes

Projection Summary			
Crops:	Crop 1:	25	Corn Silage
	Crop 2:	4	Triticale, Hay
		Total Uptake:	422.5
Soil Sample:	32.8 lbs/acre		
Lagoon:	0.8 lbs/1000 gal		
Fertilizer Credit:	0 lbs/acre		
Legume Credit:	0 lbs/acre		
Other Credit:	0 lbs/acre		
Total Credits:	0 lbs/acre		
Nitrogen Need:	**389.7 lbs/acre**		
Projected Rate:	508,304 gallons/acre		

Projected Samples

Type	ID	Name
Soil	74671	2
Soil	74669	1
Soil	74673	3
Pond	11988	HP 1
Pond	11989	HP 2
Pond	11990	HP 3

Actual Manure Samples Used

Type	ID	Name
Pond	11988	HP 1
Pond	11989	HP 2
Pond	11990	HP 3

Nutrient Summary				
Crops:		Crop 1:	26	Corn Silage
		Crop 2:	3.5	Triticale, Hay
			Total Uptake:	413
Nutrients Applied		Nitrogen		Phosphorus
Lagoon:		115		96
Total:		**115 lbs/acre**		**96 lbs/acre**
Additional Nitrogen Need:		274.7 lbs		
Type	Acres	Applied	Rate	
Lagoon	119.6	9,848,349.0	82,344.1 gallons/acre	
Future Nitrogen Credits				
2026		2027	2028	
13 lbs/acre		6 lbs/acre	3 lbs/acre	

Final Summary

	Projected	Actual
Needed/Applied:	389.7 lbs/acre	115 lbs/acre
Rate:	508,304 gallons/acre	Lagoon: 82,344.1 gal/acre

Dewatering

Start Date	Stop Date	Method	Pond Samples	Volume	Equipment Inspected	Application Rate Did Not Exceed or Runoff
7/9/2025 10:30 PM	7/11/2025 10:30 PM	Sprinkler/Sidedress	HP 1	585,384	X	X
7/13/2025 10:00 AM	7/15/2025 7:00 AM	Sprinkler/Sidedress	HP 1	1,718,242	X	X
7/19/2025 9:30 AM	7/21/2025 8:00 AM	Sprinkler/Sidedress	HP 2	690,602	X	X
8/14/2025 7:45 AM	8/16/2025 5:00 PM	Sprinkler/Sidedress	HP 3	1,496,534	X	X
8/17/2025 9:15 AM	8/21/2025 5:00 PM	Sprinkler/Sidedress	HP 1	5,357,587	X	X

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Jan 26, 2026
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Jan 22, 2026

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SOIL ANALYSIS REPORT

LAB NUMBER *465*	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O.I. percent	RATE	PHOSPHORUS P_1 (WEAK BRAY) 1:7 ppm	RATE	PHOSPHORUS P_2 (STRONG BRAY) 1:7 ppm	RATE	OLSEN BICARBONATE P ppm	RATE	NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE) POTASSIUM K ppm	RATE	MAGNESIUM Mg ppm	RATE	CALCIUM Ca ppm	RATE	SODIUM Na ppm	RATE	pH SOIL pH 1:1	BUFFER INDEX	CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED) % K	% Mg	% Ca	% H	% Na
74669	1	0.8	VL	25	H	29	M			160	VH	100	VH	579	H	12		6.8		4.2	9.8	19.8	69.2	0.0	1.2
74671	2	1.1	VL	32	VH	35	M			113	VH	86	VH	586	H	12		6.9		4.0	7.2	17.9	73.6	0.0	1.3
74673	3	1.4	VL	53	VH	54	H			298	VH	124	VH	788	H	12		6.7		5.8	13.2	17.8	68.1	0.0	0.9

LAB NUMBER *465*	NITRATE-N (FIA) SURFACE ppm	SURFACE lbs/A	SURFACE depth (in)	SUBSOIL 1 ppm	SUBSOIL 1 lbs/A	SUBSOIL 1 depth (in)	SUBSOIL 2 ppm	SUBSOIL 2 lbs/A	SUBSOIL 2 depth (in)	Total lbs/A	SULFUR S ICAP ppm	RATE	ZINC Zn DTPA ppm	RATE	MANGANESE Mn DTPA ppm	RATE	IRON Fe DTPA ppm	RATE	COPPER Cu DTPA ppm	RATE	BORON B SORB. DTPA ppm	RATE	EXCESS LIME RATE	SOLUBLE SALTS 1:1 mmhos/cm	RATE
74669	3	7	0-8	2	10	8-24				17	3	VL	2.5	M	2	VL	12	M	0.3	VL	0.1	VL	L	0.3	L
74671	2	5	0-8	5	24	8-24				29	3	VL	4.3	H	2	VL	30	VH	0.3	VL	0.1	VL	L	0.1	L
74673	8	19	0-8	7	34	8-24				53	5	VL	3.8	H	3	VL	21	H	0.4	L	0.2	VL	L	0.1	L

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Nutrient Application Report

Blackshirt Feeders LP

Field Name:	4.00 - SL 13
Projection Name:	2025
Crop Year:	2025
Actual Acres:	129.6

Notes

Projection Summary

Crops:	Crop 1:	4	Bromegrass
		Total Uptake:	156.8
Soil Sample:	14.4 lbs/acre		
Lagoon:	0.8 lbs/1000 gal		
Fertilizer Credit:	0 lbs/acre		
Legume Credit:	0 lbs/acre		
Other Credit:	0 lbs/acre		
Total Credits:	0 lbs/acre		
Nitrogen Need:	**142.4 lbs/acre**		
Projected Rate:	185,739 gallons/acre		

Projected Samples

Type	ID	Name
Soil	01759	1
Soil	01763	3
Soil	01761	2
Pond	11990	HP 3
Pond	11989	HP 2
Pond	11988	HP 1

Nutrient Summary

Crops:		Crop 1:	3.25	Bromegrass
			Total Uptake:	127.4
Nutrients Applied		Nitrogen		Phosphorus
Lagoon:		101		161
Total:		**101 lbs/acre**		**161 lbs/acre**
Additional Nitrogen Need:		41.4 lbs		
Type	Acres	Applied	Rate	
Lagoon	129.6	15,016,651.0	115,869.2 gallons/acre	

Future Nitrogen Credits		
2026	2027	2028
20 lbs/acre	9 lbs/acre	5 lbs/acre

Actual Manure Samples Used

Type	ID	Name
Pond	11989	HP 2
Pond	11988	HP 1
Pond	11990	HP 3

Final Summary

	Projected	Actual
Needed/Applied:	142.4 lbs/acre	101 lbs/acre
Rate:	185,739 gallons/acre	Lagoon: 115,869.2 gal/acre

Dewatering

Start Date	Stop Date	Method	Pond Samples	Volume	Equipment Inspected	Application Rate Did Not Exceed or Runoff
4/21/2025 11:00 AM	4/24/2025 6:00 AM	Sprinkler/Preplant	HP 1	5,330,955	X	X
5/1/2025 12:00 AM	5/1/2025 8:00 PM	Sprinkler/Preplant	HP 1	493,387	X	X
5/2/2025 8:00 AM	5/6/2025 4:00 PM	Sprinkler/Preplant	HP 1	2,854,937	X	X
6/1/2025 10:00 AM	6/3/2025 8:00 AM	Sprinkler/Sidedress	HP 1	916,846	X	X
9/1/2025 7:00 AM	9/1/2025 9:00 PM	Sprinkler/Sidedress	HP 1	1,173,873	X	X
9/1/2025 7:00 AM	9/3/2025 9:00 PM	Sprinkler/Sidedress	HP 2	168,181	X	X
9/5/2025 1:45 AM	9/5/2025 6:30 PM	Sprinkler/Sidedress	HP 2	460,172	X	X
9/7/2025 6:00 PM	9/8/2025 7:00 AM	Sprinkler/Sidedress	HP 1	1,805,670	X	X
10/8/2025 9:15 AM	10/9/2025 9:45 AM	Sprinkler/Sidedress	HP 1	1,470,000	X	X
10/14/2025 10:00 AM	10/15/2025 10:45 PM	Sprinkler/Sidedress	HP 3	342,630	X	X

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Feb 5, 2026

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SOIL ANALYSIS REPORT

LAB NUMBER *466*	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O.I. percent	RATE	PHOSPHORUS P_1 (WEAK BRAY) 1:7 ppm	RATE	PHOSPHORUS P_2 (STRONG BRAY) 1:7 ppm	RATE	OLSEN BICARBONATE P ppm	RATE	NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE) POTASSIUM K ppm	RATE	MAGNESIUM Mg ppm	RATE	CALCIUM Ca ppm	RATE	SODIUM Na ppm	RATE	pH SOIL pH 1:1	BUFFER INDEX	CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED) % K	% Mg	% Ca	% H	% Na
01759	1	1.3	VL	21	M	41	H			132	VH	123	VH	928	H	8		7.1		6.0	5.6	17.1	76.7	0.0	0.6
01761	2	1.0	VL	25	H	41	H			113	H	128	VH	902	H	10		6.8		5.9	4.9	18.1	76.3	0.0	0.7
01763	3	1.1	VL	26	H	37	M			122	H	129	VH	976	H	11		6.8		6.3	5.0	17.1	77.1	0.0	0.8

LAB NUMBER *466*	NITRATE-N (FIA) SURFACE ppm	SURFACE lbs/A	SURFACE depth (in)	SUBSOIL 1 ppm	SUBSOIL 1 lbs/A	SUBSOIL 1 depth (in)	SUBSOIL 2 ppm	SUBSOIL 2 lbs/A	SUBSOIL 2 depth (in)	Total lbs/A	SULFUR S ICAP ppm	RATE	ZINC Zn DTPA ppm	RATE	MANGANESE Mn DTPA ppm	RATE	IRON Fe DTPA ppm	RATE	COPPER Cu DTPA ppm	RATE	BORON B SORB. DTPA ppm	RATE	EXCESS LIME RATE	SOLUBLE SALTS 1:1 mmhos/cm	RATE
01759	2	5	0-8	2	10	8-24				15	3	VL	5.0	H	3	VL	9	L	0.2	VL	0.2	VL	L	0.1	L
01761	2	5	0-8	2	10	8-24				15	3	VL	4.5	H	3	VL	10	L	0.2	VL	0.2	VL	L	0.1	L
01763	2	5	0-8	2	10	8-24				15	2	VL	6.5	VH	3	VL	10	L	0.2	VL	0.2	VL	L	0.1	L

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Nutrient Application Report

Blackshirt Feeders LP

Field Name:	5.00 - SL 17
Projection Name:	2025
Crop Year:	2025
Actual Acres:	325.5

Notes

Projection Summary

Crops:	Crop 1:	4	Bromegrass
		Total Uptake:	156.8
Soil Sample:	65.6 lbs/acre		
Lagoon:	0.8 lbs/1000 gal		
Fertilizer Credit:	0 lbs/acre		
Legume Credit:	0 lbs/acre		
Other Credit:	0 lbs/acre		
Total Credits:	0 lbs/acre		
Nitrogen Need:	**91.2 lbs/acre**		
Projected Rate:	118,957 gallons/acre		

Projected Samples

Type	ID	Name
Soil	57438	1
Soil	57440	2
Soil	57442	3
Pond	11989	HP 2
Pond	11988	HP 1
Pond	11990	HP 3

Nutrient Summary

Crops:	Crop 1:	3.5	Bromegrass
		Total Uptake:	137.2
Nutrients Applied		Nitrogen	Phosphorus
Lagoon:		46	79
Total:		**46 lbs/acre**	**79 lbs/acre**
Additional Nitrogen Need:		45.2 lbs	

Type	Acres	Applied	Rate
Lagoon	325.5	25,148,509.0	77,261.2 gallons/acre

Future Nitrogen Credits		
2026	2027	2028
12 lbs/acre	5 lbs/acre	3 lbs/acre

Actual Manure Samples Used

Type	ID	Name
Pond	11989	HP 2
Pond	11988	HP 1
Pond	11990	HP 3

Final Summary

	Projected	Actual
Needed/Applied:	91.2 lbs/acre	46 lbs/acre
Rate:	118,957 gallons/acre	Lagoon: 77,261.2 gal/acre

Dewatering

Start Date	Stop Date	Method	Pond Samples	Volume	Equipment Inspected	Application Rate Did Not Exceed or Runoff
4/7/2025 8:00 AM	4/14/2025 8:45 AM	Sprinkler/Preplant	HP 1	4,607,252	X	X
4/28/2025 9:00 AM	4/30/2025 12:00 AM	Sprinkler/Preplant	HP 1	2,009,264	X	X
5/7/2025 7:00 AM	5/18/2025 7:00 PM	Sprinkler/Preplant	HP 1	6,469,106	X	X
6/11/2025 8:00 AM	6/13/2025 3:00 PM	Sprinkler/Sidedress	HP 1	3,106,473	X	X
9/23/2025 11:15 AM	9/26/2025 6:00 AM	Sprinkler/Sidedress	HP 3	1,727,738	X	X
9/23/2025 8:30 PM	9/25/2025 12:00 PM	Sprinkler/Sidedress	HP 2	179,611	X	X
9/30/2025 9:30 AM	10/2/2025 2:30 PM	Sprinkler/Sidedress	HP 2	1,345,891	X	X
10/4/2025 3:15 PM	10/9/2025 5:00 PM	Sprinkler/Sidedress	HP 3	4,605,449	X	X
10/8/2025 9:30 AM	10/8/2025 7:45 PM	Sprinkler/Sidedress	HP 2	146,162	X	X
10/14/2025 10:00 AM	10/15/2025 10:45 AM	Sprinkler/Sidedress	HP 1	951,563	X	X

REPORT NUMBER
26-016-0237
COMPLETED DATE
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TODAY'S DATE
Jan 20, 2026

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OMAHA NE 68144

SOIL ANALYSIS REPORT

LAB NUMBER *465*	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O.I. percent	RATE	PHOSPHORUS P_1 (WEAK BRAY) 1:7 ppm	RATE	PHOSPHORUS P_2 (STRONG BRAY) 1:7 ppm	RATE	OLSEN BICARBONATE P ppm	RATE	NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE) POTASSIUM K ppm	RATE	MAGNESIUM Mg ppm	RATE	CALCIUM Ca ppm	RATE	SODIUM Na ppm	RATE	pH SOIL pH 1:1	BUFFER INDEX	CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED) % K	% Mg	% Ca	% H	% Na
57438	1	0.9	VL	31	VH	46	H			211	VH	112	H	1051	H	10		6.6	7.0	7.2	7.5	13.0	73.0	5.9	0.6
57440	2	1.4	VL	26	H	40	H			176	VH	112	H	934	H	8		6.4	6.9	6.7	6.7	13.9	69.7	9.2	0.5
57442	3	1.3	VL	21	M	37	M			213	VH	103	H	893	H	10		6.5	6.9	6.4	8.5	13.4	69.8	7.6	0.7

LAB NUMBER *465*	NITRATE-N (FIA) SURFACE ppm	SURFACE lbs/A	SURFACE depth (in)	SUBSOIL 1 ppm	SUBSOIL 1 lbs/A	SUBSOIL 1 depth (in)	SUBSOIL 2 ppm	SUBSOIL 2 lbs/A	SUBSOIL 2 depth (in)	Total lbs/A	SULFUR S ICAP ppm	RATE	ZINC Zn DTPA ppm	RATE	MANGANESE Mn DTPA ppm	RATE	IRON Fe DTPA ppm	RATE	COPPER Cu DTPA ppm	RATE	BORON B SORB. DTPA ppm	RATE	EXCESS LIME RATE	SOLUBLE SALTS 1:1 mmhos/cm	RATE
57438	15	36	0-8	9	43	8-24				79	9	L	4.9	H	2	VL	8	L	0.4	L	0.2	VL	L	0.2	L
57440	9	22	0-8	7	34	8-24				56	5	VL	4.0	H	3	VL	17	H	0.6	L	0.1	VL	L	0.2	L
57442	10	24	0-8	8	38	8-24				62	10	L	4.8	H	4	VL	25	VH	0.6	L	0.2	VL	L	0.1	L

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SETTJE
Agri-Services & Engineering, Inc.

15460 NW 48th St. | Raymond, NE 68428
(P) 402.783.2100 **(F)** 402.783.2104

Nutrient Application Report
Blackshirt Feeders LP

Field Name:	6.00 - SL 9
Projection Name:	2025
Crop Year:	2025
Actual Acres:	123.5

Projection Summary

Crops:	Crop 1:	12	Triticale, Silage
	Crop 2:	4	Triticale, Hay
		Total Uptake:	316
Soil Sample:	41.6 lbs/acre		
Lagoon:	0.8 lbs/1000 gal		
Fertilizer Credit:	0 lbs/acre		
Legume Credit:	0 lbs/acre		
Other Credit:	0 lbs/acre		
Total Credits:	0 lbs/acre		
Nitrogen Need:	**274.4 lbs/acre**		
Projected Rate:	357,913 gallons/acre		

Nutrient Summary

Crops:	Crop 1:	12.5	Triticale, Silage
	Crop 2:	3	Triticale, Hay
		Total Uptake:	282.5

Nutrients Applied	Nitrogen	Phosphorus
Lagoon:	103	91
Total:	**103 lbs/acre**	**91 lbs/acre**
Additional Nitrogen Need:	171.4 lbs	

Type	Acres	Applied	Rate
Lagoon	123.5	10,815,120.0	87,571.8 gallons/acre

Future Nitrogen Credits

2026	2027	2028
12 lbs/acre	6 lbs/acre	3 lbs/acre

Notes

Projected Samples

Type	ID	Name
Soil	57434	2
Soil	57436	3
Soil	57432	1
Pond	11988	HP 1
Pond	11989	HP 2
Pond	11990	HP 3

Actual Manure Samples Used

Type	ID	Name
Pond	11989	HP 2
Pond	11988	HP 1

Final Summary

	Projected	Actual
Needed/Applied:	274.4 lbs/acre	103 lbs/acre
Rate:	357,913 gallons/acre	Lagoon: 87,571.8 gal/acre

Dewatering

Start Date	Stop Date	Method	Pond Samples	Volume	Equipment Inspected	Application Rate Did Not Exceed or Runoff
8/3/2025 7:45 AM	8/7/2025 5:00 PM	Sprinkler/Sidedress	HP 2	2,135,984	X	X
8/29/2025 3:30 PM	8/30/2025 3:30 PM	Sprinkler/Sidedress	HP 1	3,328,622	X	X
9/2/2025 7:00 AM	9/2/2025 9:00 PM	Sprinkler/Sidedress	HP 1	1,516,443	X	X
9/4/2025 1:45 PM	9/5/2025 1:45 AM	Sprinkler/Sidedress	HP 2	482,194	X	X
9/9/2025 6:00 PM	9/10/2025 7:00 AM	Sprinkler/Sidedress	HP 2	1,292,619	X	X
9/9/2025 6:00 PM	9/10/2025 7:00 AM	Sprinkler/Sidedress	HP 1	2,059,258	X	X

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26-016-0236
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76351
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Jan 16, 2026

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TODAY'S DATE
Jan 20, 2026

Godsey Ag
Chad Godsey
36501 CO RD T.5
Eckley CO 80727

IDENTIFICATION
ARK FARMS
STATE LINE
SL10
8BD56368116

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29154

EFC EMAILING

13611 B STREET
OMAHA NE 68144

SOIL ANALYSIS REPORT

LAB NUMBER *465*	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O.I. percent	RATE	PHOSPHORUS P_1 (WEAK BRAY) 1:7 ppm	RATE	PHOSPHORUS P_2 (STRONG BRAY) 1:7 ppm	RATE	OLSEN BICARBONATE P ppm	RATE	NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE) POTASSIUM K ppm	RATE	MAGNESIUM Mg ppm	RATE	CALCIUM Ca ppm	RATE	SODIUM Na ppm	RATE	pH SOIL pH 1:1	BUFFER INDEX	CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED) % K	% Mg	% Ca	% H	% Na
57432	1	0.7	VL	10	L	21	M			83	M	97	H	725	H	12		6.7		4.7	4.5	17.2	77.2	0.0	1.1
57434	2	0.6	VL	19	M	25	M			98	H	84	H	701	H	11		6.5	6.9	4.9	5.1	14.3	71.5	8.1	1.0
57436	3	1.1	VL	16	M	27	M			131	VH	102	H	855	H	11		6.6	7.0	5.9	5.7	14.4	72.5	6.6	0.8

LAB NUMBER *465*	NITRATE-N (FIA) SURFACE ppm	SURFACE lbs/A	SURFACE depth (in)	SUBSOIL 1 ppm	SUBSOIL 1 lbs/A	SUBSOIL 1 depth (in)	SUBSOIL 2 ppm	SUBSOIL 2 lbs/A	SUBSOIL 2 depth (in)	Total lbs/A	SULFUR S ICAP ppm	RATE	ZINC Zn DTPA ppm	RATE	MANGANESE Mn DTPA ppm	RATE	IRON Fe DTPA ppm	RATE	COPPER Cu DTPA ppm	RATE	BORON B SORB. DTPA ppm	RATE	EXCESS LIME RATE	SOLUBLE SALTS 1:1 mmhos/cm	RATE
57432	5	12	0-8	3	14	8-24				26	5	VL	2.0	M	8	L	10	L	0.3	VL	0.1	VL	L	0.1	L
57434	5	12	0-8	5	24	8-24				36	5	VL	2.7	M	3	VL	10	L	0.2	VL	0.1	VL	L	0.1	L
57436	8	19	0-8	9	43	8-24				62	7	L	4.0	H	2	VL	10	L	0.3	VL	0.1	VL	L	0.1	L

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SETTJE
Agri-Services & Engineering, Inc.

15460 NW 48th St. | Raymond, NE 68428
(P) 402.783.2100 **(F)** 402.783.2104

Nutrient Application Report
Blackshirt Feeders LP

Field Name:	7.00 - SL 12
Projection Name:	2025
Crop Year:	2025
Actual Acres:	119.9

Projection Summary			
Crops:	Crop 1:	25	Corn Silage
	Crop 2:	4	Triticale, Hay
		Total Uptake:	422.5
Soil Sample:	164 lbs/acre		
Lagoon:	0.8 lbs/1000 gal		
Fertilizer Credit:	0 lbs/acre		
Legume Credit:	0 lbs/acre		
Other Credit:	0 lbs/acre		
Total Credits:	0 lbs/acre		
Nitrogen Need:	**258.5 lbs/acre**		
Projected Rate:	337,174 gallons/acre		

Nutrient Summary				
Crops:		Crop 1:	27	Corn Silage
		Crop 2:	3.25	Triticale, Hay
			Total Uptake:	413.5
Nutrients Applied			Nitrogen	Phosphorus
Lagoon:			139	115
Total:			**139 lbs/acre**	**115 lbs/acre**
Additional Nitrogen Need:			119.5 lbs	
Type	Acres	Applied	Rate	
Lagoon	119.9	12,496,734.0	104,226.3 gallons/acre	
Future Nitrogen Credits				
2026		2027	2028	
16 lbs/acre		8 lbs/acre	4 lbs/acre	

Notes

Projected Samples		
Type	ID	Name
Soil	80374	3
Soil	80372	2
Soil	80370	1
Pond	11990	HP 3
Pond	11989	HP 2
Pond	11988	HP 1

Actual Manure Samples Used		
Type	ID	Name
Pond	11990	HP 3
Pond	11988	HP 1
Pond	11989	HP 2

Final Summary		
	Projected	Actual
Needed/Applied:	258.5 lbs/acre	139 lbs/acre
Rate:	337,174 gallons/acre	Lagoon: 104,226.3 gal/acre

Dewatering						
Start Date	Stop Date	Method	Pond Samples	Volume	Equipment Inspected	Application Rate Did Not Exceed or Runoff
7/18/2025 7:00 PM	7/31/2025 4:00 PM	Sprinkler/Sidedress	HP 1	566,429	X	X
7/29/2025 6:00 PM	7/31/2025 4:00 AM	Sprinkler/Sidedress	HP 2	146,162	X	X
7/30/2025 8:30 AM	7/31/2025 4:00 PM	Sprinkler/Sidedress	HP 3	354,240	X	X
8/3/2025 7:45 AM	8/9/2025 3:00 PM	Sprinkler/Sidedress	HP 3	1,782,989	X	X
8/3/2025 9:15 AM	8/9/2025 5:00 PM	Sprinkler/Sidedress	HP 1	5,211,900	X	X
9/3/2025 7:00 AM	9/3/2025 9:00 PM	Sprinkler/Sidedress	HP 1	1,468,016	X	X
9/7/2025 6:00 PM	9/8/2025 7:00 AM	Sprinkler/Sidedress	HP 2	1,063,872	X	X
10/2/2025 2:30 PM	10/4/2025 8:30 AM	Sprinkler/Sidedress	HP 1	1,903,126	X	X

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26-023-0160
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Jan 27, 2026
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76351
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Jan 23, 2026

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Jan 27, 2026

Godsey Ag
Chad Godsey
36501 CO RD T.5
Eckley CO 80727

IDENTIFICATION
ARK FARMS
STATE LINE
SL12
8BD56368111

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13611 B STREET
OMAHA NE 68144

SOIL ANALYSIS REPORT

LAB NUMBER *465*	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O.I. percent	RATE	PHOSPHORUS P_1 (WEAK BRAY) 1:7 ppm	RATE	PHOSPHORUS P_2 (STRONG BRAY) 1:7 ppm	RATE	OLSEN BICARBONATE P ppm	RATE	NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE) POTASSIUM K ppm	RATE	MAGNESIUM Mg ppm	RATE	CALCIUM Ca ppm	RATE	SODIUM Na ppm	RATE	pH SOIL pH 1:1	BUFFER INDEX	CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED) % K	% Mg	% Ca	% H	% Na
80370	1	0.7	VL	33	VH	36	M			218	VH	91	H	715	H	11		6.7		4.9	11.4	15.5	72.1	0.0	1.0
80372	2	0.6	VL	35	VH	40	H			170	VH	91	H	683	H	13		7.2		4.7	9.3	16.1	73.4	0.0	1.2
80374	3	1.1	VL	48	VH	49	H			340	VH	123	H	831	M	15		6.0	6.8	7.2	12.1	14.2	57.7	15.1	0.9

LAB NUMBER *465*	NITRATE-N (FIA) SURFACE ppm	SURFACE lbs/A	SURFACE depth (in)	SUBSOIL 1 ppm	SUBSOIL 1 lbs/A	SUBSOIL 1 depth (in)	SUBSOIL 2 ppm	SUBSOIL 2 lbs/A	SUBSOIL 2 depth (in)	Total lbs/A	SULFUR S ICAP ppm	RATE	ZINC Zn DTPA ppm	RATE	MANGANESE Mn DTPA ppm	RATE	IRON Fe DTPA ppm	RATE	COPPER Cu DTPA ppm	RATE	BORON B SORB. DTPA ppm	RATE	EXCESS LIME RATE	SOLUBLE SALTS 1:1 mmhos/cm	RATE
80370	14	34	0-8	6	29	8-24				63	7	L	6.9	VH	3	VL	52	VH	0.3	VL	0.2	VL	L	0.1	L
80372	3	7	0-8	2	10	8-24				17	7	L	4.7	H	2	VL	28	VH	0.2	VL	0.2	VL	L	0.1	L
80374	66	158	0-8	53	254	8-24				412	9	L	8.0	VH	6	L	90	VH	0.5	L	0.3	VL	L	0.3	L

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Agri-Services & Engineering, Inc.

15460 NW 48th St. | Raymond, NE 68428
(P) 402.783.2100 **(F)** 402.783.2104

Nutrient Application Report
Blackshirt Feeders LP

Field Name:	8.00 - SL 8
Projection Name:	2025
Crop Year:	2025
Actual Acres:	150

Notes

Projection Summary			
Crops:	Crop 1:	25	Corn Silage
	Crop 2:	4	Rye, Forage
		Total Uptake:	296.9
Soil Sample:	30.4 lbs/acre		
Lagoon:	0.8 lbs/1000 gal		
Fertilizer Credit:	0 lbs/acre		
Legume Credit:	0 lbs/acre		
Other Credit:	0 lbs/acre		
Total Credits:	0 lbs/acre		
Nitrogen Need:	**266.5 lbs/acre**		
Projected Rate:	347,609 gallons/acre		

Projected Samples

Type	ID	Name
Soil	80255	1
Soil	80257	2
Soil	80259	3
Pond	11989	HP 2
Pond	11990	HP 3
Pond	11988	HP 1

Nutrient Summary			
Crops:	Crop 1:	28	Corn Silage
	Crop 2:	3	Triticale, Hay
		Total Uptake:	414

Nutrients Applied	Nitrogen	Phosphorus
Lagoon:	72	54
Total:	**72 lbs/acre**	**54 lbs/acre**
Additional Nitrogen Need:	194.5 lbs	

Type	Acres	Applied	Rate
Lagoon	150	11,170,043.0	74,467.0 gallons/acre

Future Nitrogen Credits		
2026	2027	2028
10 lbs/acre	5 lbs/acre	3 lbs/acre

Actual Manure Samples Used

Type	ID	Name
Pond	11988	HP 1
Pond	11990	HP 3
Pond	11989	HP 2

Final Summary

	Projected	Actual
Needed/Applied:	266.5 lbs/acre	72 lbs/acre
Rate:	347,609 gallons/acre	Lagoon: 74,467.0 gal/acre

Dewatering

Start Date	Stop Date	Method	Pond Samples	Volume	Equipment Inspected	Application Rate Did Not Exceed or Runoff
8/1/2025 7:00 AM	8/2/2025 3:30 PM	Sprinkler/Sidedress	HP 3	1,657,500	X	X
8/1/2025 3:00 PM	8/2/2025 7:15 PM	Sprinkler/Sidedress	HP 2	1,440,750	X	X
8/1/2025 6:45 PM	8/2/2025 1:45 AM	Sprinkler/Sidedress	HP 1	420,000	X	X
8/17/2025 7:45 AM	8/20/2025 5:00 PM	Sprinkler/Sidedress	HP 3	1,615,164	X	X
8/22/2025 9:15 AM	8/25/2025 5:00 PM	Sprinkler/Sidedress	HP 1	4,838,129	X	X
9/12/2025 3:30 PM	9/13/2025 3:00 PM	Sprinkler/Sidedress	HP 3	1,198,500	X	X

REPORT NUMBER
26-023-0151
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Chad Godsey
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OMAHA NE 68144

SOIL ANALYSIS REPORT

LAB NUMBER *465*	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O.I. percent	RATE	PHOSPHORUS P_1 (WEAK BRAY) 1:7 ppm	RATE	PHOSPHORUS P_2 (STRONG BRAY) 1:7 ppm	RATE	OLSEN BICARBONATE P ppm	RATE	NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE) POTASSIUM K ppm	RATE	MAGNESIUM Mg ppm	RATE	CALCIUM Ca ppm	RATE	SODIUM Na ppm	RATE	pH SOIL pH 1:1	BUFFER INDEX	CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED) % K	% Mg	% Ca	% H	% Na
80255	1	0.5	VL	31	VH	38	M			74	M	76	H	572	H	13		6.9		3.7	5.1	17.1	76.3	0.0	1.5
80257	2	0.7	VL	21	M	23	M			88	H	78	H	604	H	12		7.0		3.9	5.8	16.7	76.2	0.0	1.3
80259	3	1.0	VL	18	M	22	M			131	VH	94	H	727	H	13		6.9		4.8	7.0	16.3	75.5	0.0	1.2

LAB NUMBER *465*	NITRATE-N (FIA) SURFACE ppm	SURFACE lbs/A	SURFACE depth (in)	SUBSOIL 1 ppm	SUBSOIL 1 lbs/A	SUBSOIL 1 depth (in)	SUBSOIL 2 ppm	SUBSOIL 2 lbs/A	SUBSOIL 2 depth (in)	Total lbs/A	SULFUR S ICAP ppm	RATE	ZINC Zn DTPA ppm	RATE	MANGANESE Mn DTPA ppm	RATE	IRON Fe DTPA ppm	RATE	COPPER Cu DTPA ppm	RATE	BORON B SORB. DTPA ppm	RATE	EXCESS LIME RATE	SOLUBLE SALTS 1:1 mmhos/cm	RATE
80255	1	2	0-8	2	10	8-24				12	3	VL	2.2	M	2	VL	14	M	0.2	VL	0.1	VL	L	0.1	L
80257	2	5	0-8	11	53	8-24				58	4	VL	3.5	H	2	VL	16	M	0.2	VL	0.1	VL	L	0.1	L
80259	3	7	0-8	3	14	8-24				21	5	VL	3.8	H	2	VL	16	M	0.2	VL	0.1	VL	L	0.1	L

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Slurry Analysis Report

Account ID: 25575

Report Type: Beef
Invoice Number: 1500155
Date Received: 07/03/2025
Date Reported: 07/08/2025
Lab ID: 11988

SETTJE COMPLIANCE SERVICE
15460 NW 48TH ST
RAYMOND, NE 68428

Results For: BLACKSHIRT **Location:** 1 **Sample ID:** HP

	Analysis			Available First Year	
	As Received	Lbs / Acre Inch	Lbs / 1000 gal	Lbs / Acre Inch	Lbs / 1000 gal
Organic Nitrogen, % N	144.9	32.9	1.2	11.5	0.4
Ammonium, ppm N	309.8	70.2	2.6	66.7	2.5
Nitrate, ppm N	0.6	0.1	0.0	0.1	0.0
Total N, ppm N	455.3	103.2	3.8	78.3	2.9
Phosphorus, ppm P_2O_5	251.9	57.1	2.1	40.0	1.5
Potassium, ppm K_2O	720.0	163.2	6.0	146.9	5.4
Sulfur, ppm S	30.0	6.8	0.3	2.7	0.1
Calcium, ppm Ca	240.0	54.4	2.0	38.1	1.4
Magnesium, ppm Mg	80.0	0.5	12.7	0.7	18.1
Sodium, ppm Na	70.0	15.9	0.6	15.9	0.6
Sodium Adsorption Ratio (SAR)	1.41				
Zinc, ppm Zn	1.6	0.4	0.0	0.3	0.0
Iron, ppm Fe	4.8	1.1	0.0	0.8	0.0
Manganese, ppm Mn	1.0	0.2	0.0	0.2	0.0
Copper, ppm Cu	0.2	0.0	0.0	0.0	0.0
Boron, ppm B	0.2	0.0	0.0	0.0	0.0
Soluble Salts, mmho/cm	5.01	681	25	681	25
pH	6.9				
Dry Matter (TS), %	0.50				

Phone: 308-234-2418

www.wardlab.com

4007 Cherry Ave,
Kearny, Nebraska 68848

Slurry Analysis Report

WARD Laboratories, Inc.

Account ID: 25575

Report Type: Beef
Invoice Number: 1500155
Date Received: 07/03/2025
Date Reported: 07/08/2025
Lab ID: 11989

SETTJE COMPLIANCE SERVICE
15460 NW 48TH ST
RAYMOND, NE 68428

Results For: BLACKSHIRT **Location:** 2 **Sample ID:** HP

	As Received	Analysis Lbs / Acre Inch	Lbs / 1000 gal	Available First Year Lbs / Acre Inch	Lbs / 1000 gal
Organic Nitrogen, % N	63.2	14.3	0.5	5.0	0.2
Ammonium, ppm N	8.9	2.0	0.1	1.9	0.1
Nitrate, ppm N	0.5	0.1	0.0	0.1	0.0
Total N, ppm N	72.5	16.4	0.6	7.0	0.3
Phosphorus, ppm P_2O_5	45.8	10.4	0.4	7.3	0.3
Potassium, ppm K_2O	276.0	62.6	2.3	56.3	2.1
Sulfur, ppm S	10.0	2.3	0.1	0.9	0.0
Calcium, ppm Ca	260.0	58.9	2.2	41.3	1.5
Magnesium, ppm Mg	10.0	0.1	1.6	0.1	2.3
Sodium, ppm Na	40.0	9.1	0.3	9.1	0.3
Sodium Adsorption Ratio (SAR)	0.94				
Zinc, ppm Zn	1.1	0.2	0.0	0.2	0.0
Iron, ppm Fe	1.9	0.4	0.0	0.3	0.0
Manganese, ppm Mn	0.2	0.0	0.0	0.0	0.0
Copper, ppm Cu	< 0.1	0.0	0.0	0.0	0.0
Boron, ppm B	0.0	0.0	0.0	0.0	0.0
Soluble Salts, mmho/cm	1.09	148	5	148	5
pH	7.8				
Dry Matter (TS), %	0.15				

"<" - Not Detected / Below Detection Limit

7/10/2025

Phone: 308-234-2418 www.wardlab.com 4007 Cherry Ave, Kearny, Nebraska 68848

Slurry Analysis Report

WARD Laboratories, Inc.

Account ID: 25575

Report Type: Beef
Invoice Number: 1500155
Date Received: 07/03/2025
Date Reported: 07/08/2025
Lab ID: 11990

SETTJE COMPLIANCE SERVICE
15460 NW 48TH ST
RAYMOND, NE 68428

Results For: BLACKSHIRT **Location:** 3 **Sample ID:** HP

	As Received	Analysis Lbs / Acre Inch	Lbs / 1000 gal	Available First Year Lbs / Acre Inch	Lbs / 1000 gal
Organic Nitrogen, % N	66.5	15.1	0.6	5.3	0.2
Ammonium, ppm N	21.8	4.9	0.2	4.7	0.2
Nitrate, ppm N	0.8	0.2	0.0	0.2	0.0
Total N, ppm N	89.1	20.2	0.7	10.2	0.4
Phosphorus, ppm P_2O_5	2.3	0.5	0.0	0.4	0.0
Potassium, ppm K_2O	72.0	16.3	0.6	14.7	0.5
Sulfur, ppm S	10.0	2.3	0.1	0.9	0.0
Calcium, ppm Ca	80.0	18.1	0.7	12.7	0.5
Magnesium, ppm Mg	1.0	0.0	0.2	0.0	0.2
Sodium, ppm Na	20.0	4.5	0.2	4.5	0.2
Sodium Adsorption Ratio (SAR)	0.86				
Zinc, ppm Zn	0.6	0.1	0.0	0.1	0.0
Iron, ppm Fe	9.8	2.2	0.1	1.6	0.1
Manganese, ppm Mn	0.1	0.0	0.0	0.0	0.0
Copper, ppm Cu	< 0.1	0.0	0.0	0.0	0.0
Boron, ppm B	0.0	0.0	0.0	0.0	0.0
Soluble Salts, mmho/cm	0.31	42	2	42	2
pH	8.2				
Dry Matter (TS), %	0.05				

"<" - Not Detected / Below Detection Limit

7/10/2025

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Manure Analysis Report

WARD Laboratories, Inc.

Account ID: 25575
SETTJE COMPLIANCE SERVICE
15460 NW 48TH ST
RAYMOND, NE 68428

Report Type: Beef
Invoice Number: 1503356
Date Received: 08/20/2025
Date Reported: 08/22/2025
Lab ID: 1929

Results For: BLACKSHIRT **Location:** PEN MANURE **Sample ID:** --

	Analysis Dry Basis	Lbs / Ton Dry Basis	Lbs / Ton As Is Basis	Available First Year
Organic Nitrogen, % N	0.49	9.7	7.4	1.8
Ammonium, % N	**0.111**	**1.6**	**1.7**	**1.7**
Nitrate, % N	< 0.001	0.0	0.0	0.0
Total N, % N	**0.60**	**12.0**	**9.1**	**3.5**
Phosphorus, % P_2O_5	0.97	19.4	14.7	10.3
Potassium, % K_2O	**1.18**	**23.5**	**17.9**	**16.1**
Sulfur, % S	0.26	5.3	4.0	1.6
Calcium, % Ca	**0.88**	**17.7**	**13.4**	**9.4**
Magnesium, % Mg	0.37	7.4	5.6	0.10
Sodium, % Na	**0.16**	**3.3**	**2.5**	**2.5**
Sodium Adsorption Ratio (SAR)	3.66			
Zinc, ppm Zn	132.0	0.30	0.20	0.10
Iron, ppm Fe	**4482.5**	**9.00**	**6.80**	**4.80**
Manganese, ppm Mn	117.8	0.20	0.20	0.10
Copper, ppm Cu	**23.4**	**0.00**	**0.00**	**0.00**
Boron, ppm B	14.14	0.0	0.0	0.0
Soluble Salts, mmho/cm	37.28	47.7	36.3	36.3
pH	**6.5**			
Moisture, %	24.02			
Dry Matter (TS), %	**75.98**			

"<" - Not Detected / Below Detection Limit

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