manure Analysis

Prior to Treatment

Livestock Type Dairy

In 3rd

Year

Submitted By

BOWMAN DAIRY SUPPLY N11831 S FEES RD ALMA CENTER, WI 54611 Submitted For

Date Sampled 4/9/2024

Date Received 12-Apr-2024

Date Reported 15-Apr-2024

LABORATORIES

Laboratory Sample # CV53911

Information Sheet No.

In 2nd

Year

0.29

0.03

Residual After Uptake

Residual After Uptake

In 3rd

Year

0.15

0.01

Handling Type Liquid

M234930

Est. Available Nutrient Credits (as received, lbs / ton)

Broadcast**

0.87

0.94

1.04

0.15

DRY Application Methods

In 1st Year

1-72 Hours

1.16

0.94

1.04

0.15

Incorporated*

<1 Hour

1.45

0.94

1.04

0.15

Account Number BN06604

Total N, (TKN)

Potassium, K2O

Magnesium, Mg

Manganese, Mn

Sulfur, S

Calcium, Ca

Sodium, Na

Zinc, Zn

Iron, Fe

Copper, Cu

Phosphorus, P2O5

Test Package **Basic Plus**

Location Pit 1 Sample ID 1 Results Results Analysis (Received) (Dry Basis) **Dry Matter** 28.45 % Nutrients In 1st Year Incorporated* Moisture 71.55 % lbs/1000 gal

0.51%

0.21%

0.23 %

0.05 %

47 ppm

45 ppm

0.15 %

0.06 %

0.06 %

0.01 %

0.10 %

0.03 %

0.01 %

13.3 ppm

12.7 ppm

330.4 ppm | 1161 ppm

24.8 ppm 87 ppm

LIQUID Application Methods

In 2nd Broadcast** Injected 1-72 Hours Year 6.04 4.83 3.62 1.21 3.90 3.90 3.90

12.08 4.9 Residual After Uptake 5.4 4.32 4.32 Residual After Uptake 4.32 0.65 0.65

0.05 % 1.2 0.65 0.12 0.06 0.36 % 8.5 0.12 % 2.8

1.2 0.1 Zn 0.1 2.8

P205 1.2 K20 1.3 S Ca 2.0 Mg 0.7 0.3 0.0 0.0 Fe 0.7 Cu

Nutrients

lbs/ton

2.9

TKN

Estimated Value of Available Nutrients:

Value based on commercial ferilizer costs as of 02/15/2024. N(Urea) \$0.56 / lb, P2O5(Diammonium Phosphate(DAP)) \$0.84 / lb, K2O(Potash) \$0.43 / lb, S(Elemental Sulfur) \$0.65 / lb.

0.1

*Surface applied liquid or solid manure incorporated within 1-72 hours after application.

**Liquid or solid manure left on the surface 4 or more days without incorporation. Wind and high temperature will result in greater loss of available nitrogen.

The Total N (TKN) values are the sum of Ammonium and Organic N. Avaiability estimates are corrected for ammonia volatilization loss due to each application method.

Application of this manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more years by 15%.

0.2

References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

Liquid manure applied as irrigation will lose more nitrogen from volatilization. An additional 15% of the Liquid TKN value should be subtracted off the Liquid Broadcast TKN Range.

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wanure Analysis

30 Days After Treatment

Submitted By

BOWMAN DAIRY SUPPLY N11831 S FEES RD ALMA CENTER, WI 54611

Submitted For

Test Package

Basic Plus

Bowman Dairy Supply

Date Sampled

5/3/2024

Date Received 13-May-2024

Date Reported

15-May-2024

LABORATORIES

Laboratory Sample # CW03176

Information Sheet No.

M235495

Account Number BN06604

Location No 2 M-F	Lagoon	Sar	nple ID 1				ivestock	c Type De	in				WIZ55495	-	
Analysis	Results as (Received)	Results as Dry Basis	Livestock Type Da Livestock Typ				li y		DRY A	Applicat	Handling Ty	node	No.		
Dry Matter	5.32 %		Nutrients		In 1st Yea		In 2nd	In 3rd	Nutrients Incorpor		allable Nutrie	nt Credits (as	received. I	bs / ton)	
Moisture	94.68 %		as lbs/1000 gal	Injected	orporated* 1-72 Hours	Broadcast**		Year			Inco	In 1st Year rporated*		In 2nd	In 3rd
Total N, (TKN)	0.20 %		16.75		6.70	5.03		Tour		1	<1 Hour	1-72 Hours	Broadcast**	Year	Year
Phosphorus, P ₂ O ₅	0.09 %	1.72 %	7.6		2500000	-	1.68		TKN	4.0	2.01	1.61	1.21	0.40	0.20
Potassium, K ₂ O	0.19 %				6.09		Residual After Uptake		P2O5	1.8	1.46	1.46	1.46	Residual After Uptake	
Sulfur, S			15.9	12.72	12.72	12.72	Residual After Uptake		K ₂ O	3.8	3.06	3.06	3.06	Residual After Uptake	
	0.02 %		2.0	1.09	1.09	1.09	0.20	0.10	S	0.5	0.26	0.26	0.26	0.05	
Calcium, Ca	0.10 %	1.94 %	8.6						Ca	2.1		0.20	0.20	0.05	0.02
Magnesium, Mg	0.04 %	0.73 %	3.3						Mg						
Sodium, Na	0.05 %	0.88 %	3.9							8.0					
Zinc, Zn	26.9 ppm		0.2						Na	0.9					
Manganese, Mn	19.2 ppm								Zn	0.1					
Iron, Fe	117.9 ppm								Mn	0.0					
									Fe	0.2					
Copper, Cu	35.5 ppm	667 ppm	0.3						Cu	0.1					

Estimated Value of Available Nutrients:

Value based on commercial ferilizer costs as of 05/09/2024.

N(Urea) \$0.56 / lb, P2O5(Diammonium Phosphate(DAP)) \$0.88 / lb, K2O(Potash) \$0.42 / lb, S(Elemental Sulfur) \$0.37 / lb.

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wanure Analysis

30 inches of rain 60 days later still increased nitrogen in the lagoon

Submitted By

BOWMAN DAIRY SUPPLY N11831 S FEES RD ALMA CENTER, WI 54611 Submitted For **Bowman Dairy Supply**

In 1st Year

1-72 Hours

4.96

3.92

9.62

0.77

LIQUID Application Methods

Available Nutrient Credits (as received, lbs / 1900 ga

Broadcast**

3.72

3.92

9.62

0.77

Date Sampled 8/1/2024

Date Received 20-Aug-2024

CX62652

Date Reported 22-Aug-2024

0.94

2.31

0.19

Information Sheet No. M236669

0.30

0.03

0.15

0.02

Residual After Uptake

Residual After Uptake

Handling Type Liquid

Laboratory Sample #

Account Number BN06604

Analysis

Dry Matter

Total N, (TKN)

Potassium, K2O

Magnesium, Mg

Manganese, Mn

Phosphorus, P2O5

Moisture

Sulfur, S

Calcium, Ca

Sodium, Na

Zinc, Zn

Iron, Fe

Copper, Cu

Test Package Basic Plus

Incorporated*

Location Location 3 M-F Lagoon

Results.

2.40 %

97.60 %

0.15 %

0.06 %

0.14 %

0.02 %

0.07 %

0.03 %

0.03 %

25.9 ppm 1079 ppm

11.7 ppm 488 ppm

76.0 ppm 3167 ppm

23.8 ppm 990 ppm

(Received) (Dry Basis)

Sample ID 1

Nutrients

12.41

4.9

12.0

1.4

6.2

2.4

2.8

0.2

0.1

0.6

0.2

lbs/1000 gal Injected

6.21

3.92

9.62

0.77

Results

6.21 %

2.45 %

6.01 %

0.70 %

3.09 %

1.22 %

1.41%

Livestock Type Dairy

In 3rd

Year

In 2nd

Year

1.24

DRY Application Methods
Est Available Nutrient Credits (as received, lbs / ton) In 1st Year In 2nd In 3rd Incorporated' Broadcast** <1 Hour 1-72 Hours Year Year 1.49 1.19 0.89

0.94

2.31

0.19

1.24		TKN	3.0	
Residual A	fter Uptake	P ₂ O ₅	1.2	,
Residual A	fter Uptake	K ₂ O	2.9	
0.14	0.07	S	0.3	
		Ca	1.5	
		Mg	0.6	
		Na	0.7	
		Zn	0.1	
		Mn	0.0	
		Fe	0.2	
		Cu	0.1	

Nutrients

lbs/ton

Estimated	Value of Available Nutrients:	13
Value based	on commercial ferilizer costs as of 05/09/20	24.

N(Urea) \$0.56 / lb, P2O5(Diammonium Phosphate(DAP)) \$0.88 / lb, K2O(Potash) \$0.42 / lb, S(Elemental Sulfur) \$0.37 / lb.

0.94

2.31

0.19

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