

MANURE ANALYSIS REPORT

Sample Number: 30699940
 Date Sampled: 04/17/25
 Date Received: 4/21/2025
 Date Mailed: 4/22/2025
 Statement ID: #238 EDEN VALLEY DAIRY LLC
 Kind: Cattle-Liquid 3-6 Mo (081
 Description: EVD HOME EATHEN STORAGE 1

Components	As Received	Lbs / Ton	Lbs / 1000 Gal
Nitrogen (N)	.306 %	6.11	26.11
Ammonium Nitrogen	.151 %	3.02	12.90
Organic Nitrogen	.155 %	3.09	13.21
Phosphorus (P)	.050 %	1.01	4.29
Phosphate Equivalent (P2O5)	.115 %	2.30	9.84
Potassium (K)	.166 %	3.31	14.16
Potash Equivalent (K2O)	.200 %	3.99	17.05
Total Solids	7.87 %		
Density	1.02 kg/l	63.91 Lbs/CuFt	8.54 Lbs/Gal

DAIRY MANURE LOADING RATES NEEDED TO MEET NITROGEN REQUIREMENTS

Spring spread and Incorporated Manure-- 65% ammonia N captured.

Storage type: Liquid

Assumed:

Some manure applied in previous years

No cover crop.

10 to 20 lbs of N will be applied as a starter.

Assuming 20 ton yield potential.

Sods are 50/50 grass/legume plowed down.

Manure Analysis *	lbs/ 1000 gals
Total N	26.1
Ammonia N	12.9
Organic N	13.2
Phosphate	9.8
Potassium	17
% SOLIDS	7.9

* MANURE TESTED BY DHIA LABS-

Name: EDEN VALLEY ORGANICS

Sample Date 04/17/2025

Source: EVD Earthen Storage

Estimation of availability of N.

	Rate	Organic N	%Available	lbs/unit avl	
This Year		13.2	35%	4.62	4.62
Last Year	1	13.2	15%	1.98	
2 years ago	1	13.2	5%	0.66	
				7.26	
		Ammonia N			
This Year		12.9	65%	8.385	8.39
Total Nitrogen Available from a single year of spreading:					13.01 per 1,000 gals

Calculation of Load Rates for Various Years of Corn:

Prod. Year	1st Year	2nd Year	3rd Year	More than 3
N Demand	30	90	130	150
Resid N 1st	0	5	13	18
Resid N 2nd	0	0	2	4
Manure N need	30	85	115	128
Manure				
Rate	2307 gals/acre	6569 gals/acre	8879 gals/acre	9849 gals/acre

At above rate:

Phosphate:	23 lbs/acre	64 lbs/acre	87 lbs/acre	97 lbs/acre
Potash:	39 lbs/acre	112 lbs/acre	151 lbs/acre	167 lbs/acre

GRASS FIELDS

For Grass Fields we need 50 lbs per cutting after 1st and 2nd cuttings or 100 lbs per year.

We will capture very little of the ammonia N.

This rate will be applied every year.

Nutrients Applied At Different Loading Rates when Incorporated:

Nitrogen Needed	100	Spreader Load Size(gal.s):				
		5000				
		Loads/acre	Rate/Acre	N	P	K
Manure		1	5000	78	49	85
Rate	10000 gals/acre per year.	1.25	6250	98	61	106
	5000 gals/acre per cutting.	1.5	7500	117	74	128
At above rate:		1.75	8750	137	86	149
Nitrogen:		2	10000	156	98	170
(20% Ammonia N)	98 lbs/acre					
Phosphate:	98 lbs/acre					
Potash:	170 lbs/acre					