

References

Car-Mer Dairy

Manure Sample Analysis

(#/1000 gal or #/ton basis)

	N	NH4	OrgN	1st Year AvN	P2O5	K2O
Liquid	43.5	21.8	21.7	29.0	18.7	22.0
Solid	10.4	4.6	5.8	6.5	5.1	6.2
Storage #3	43.5	21.8	21.73	25.0455	18.7	22.0
Storage #4	60	10	50	27.3	18	26

Application Method N retention

% N retention, from MWPS

SURFACE, SOLID	0.75
SURFACE, LIQUID	0.8
AERWAY	0.9
SURFACE, INCORP	0.95
INJECT	0.98
IRRIGATE	0.7
NONE	0

Organic N Mineralization

% of OrgN

LMFA Regulations

Year of App	0.35
Year 1 after App	0.35
Year 2 after App	0.175
Year 3 after App	0.0875
Year 4 after App	0.04375

N, P, & K Requirements

lbs/bu or t, from IL Agronomy Handbook

<u>Crop</u>	<u>N</u>	<u>P</u>	<u>K</u>
Corn	1.2	0.43	0.28
Soybeans	3	0.85	1.3
Corn Silage	1.2	2.6	7
Wheat	1	0.9	0.3
Grass Hay	150	12	50
Alfalfa Hay	0	12	50

WASTE ANALYSIS REPORT

AGSOURCE SOIL & FORAGE LABORATORY
 106 N. CECIL STREET
 BONDUEL, WI 54107
 PHONE (715)758-2178 FAX (715)758-2620

FARMERS FEED MILL
 PO BOX 185
 HAZEL GREEN, WI 53811-0185

ACCT: 751

ANALYSIS FOR: CAR-MER FARM
 DATE PROCESSED: 04/24/2003
 DATE SAMPLED: / /
 SAMPLE NUMBER: 74217
 MATERIAL: DAIRY
 SAMPLE TYPE:
 STORAGE SYSTEM: LIQUID

DRY MATTER, % 18.40
 MOISTURE, % 81.60

	LBS/1000 GAL	Estimated 1st year Available Nutrients *1		Value of Equivalent Commercial Fertilizer *2	
		Injected or Incorporated within 3 days	Surface/Not Incorporated within 3 days	Injected or Incorporated	Surface/Not Incorporated
		+ LBS/1000 GAL +		\$/1000 GAL	
NITROGEN	high! 43.16	15.06	12.90	\$4.07	\$3.48
P2O5	21.33	11.73	11.73	\$2.46	\$2.46
K2O	25.84	19.38	19.38	\$2.33	\$2.33
SULFUR	3.51	1.93	1.93	\$0.44	\$0.44
ASSUME Ammonia N is 50% Total Value of total - 21.6 Orig. = 21.6				\$9.30	\$8.72

MINOR ELEMENTS *3

Calcium: 3.20%	Zinc: 151 ppm
Magnesium: 1.45%	Manganese: 202 ppm
Copper: 56 ppm	Sodium: 0.45%
Iron: 1615 ppm	

COMMENTS

- *1 Applications of manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and for 3 or more consecutive years by 15%. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 3-01. N (Urea) \$0.27/lb, P2O5 (Triple Superphosphate) \$0.21/lb, K2O (Potash) \$0.12/lb, S (Elemental Sulfur) \$0.23/lb
- *3 If minor elements are requested, they are reported on a 'dry matter' basis. If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.

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 SAMPLE TYPE:
 STORAGE SYSTEM: SOLID

DRY MATTER, % 18.40

MOISTURE, % 81.60

	LBS/TON	Estimated 1st year Available Nutrients *1		Value of Equivalent Commercial Fertilizer *2	
		Injected or Incorporated within 3 days	Surface/Not Incorporated within 3 days	Injected or Incorporated	Surface/Not Incorporated
		+ LBS/TON +		\$/TON	
TOT. NITROGEN	10.40	3.63	3.11	\$0.98	\$0.84
P2O5	5.14	2.83	2.83	\$0.59	\$0.59
K2O	6.23	4.67	4.67	\$0.56	\$0.56
SULFUR	0.85	0.47	0.47	\$0.11	\$0.11
<i>ASSume Ammonia N is 44% of total</i>				\$2.24	\$2.10

Org N 5.8

MINOR ELEMENTS *3

Calcium: 3.20	Zinc: 151 ppm
Magnesium: 1.45	Manganese: 202 ppm
Copper: 56 ppm	Sodium: 0.46%
Iron: 1615 ppm	

COMMENTS

- *1 Applications of manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and for 3 or more consecutive years by 15%. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
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