

References

Logeman Brothers Farm

<u>Manure Sample Analysis</u>	<u>(#/1000 gal or #/ton basis)</u>					
	N	NH4	OrgN	1st Year AvN	P2O5	K2O
Nursery	3.6	1.8	1.8	1.9	0.8	7.4
West Finisher	16.8	12.9	3.9	14.0	7.6	26.1
East Finisher	5.1	2.7	2.4	2.7	1.6	12.1
Overflow	16.8	12.9	3.9	14.0	7.6	26.1

<u>Application Method N retention</u>	<u>% N retention, from MWPS</u>
SURFACE, SOLID	0.75
SURFACE, LIQUID	0.8
AERWAY	0.9
SURFACE, INCORP	0.95
INJECT	0.98
IRRIGATE	0.7
NONE	0

<u>Organic N Mineralization</u>	<u>% of OrgN</u>	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	

<u>N, P, & K Requirements</u>	<u>lbs/bu or t, from IL Agronomy Handbook</u>		
<u>Crop</u>	<u>N</u>	<u>P</u>	<u>K</u>
Corn	1.2	0.43	0.28
Soybeans	0	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



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SEND TO: KEVIN LOGEMAN
4110 BENTON RD.
METROPOLIS, IL 62960

Fall 08

Went on Korte ground
of Dannels

MANURE ANALYSIS

SAMPLE ID: LIQUID MANURE

LAB #: 16731

NUTRIENT LBS / 1000 GAL

TKN 16.8

NH4-N 12.9

P2O5 7.6

K2O 26.1

%TS 1.59

%H2O 98.41

holding pond

TKN is the total nitrogen in the sample. NH4-N is ammonia nitrogen, at application it is 100% available.

TKN minus NH4-N is organic nitrogen, it is 20% available the first year. The plant available nitrogen equals $(0.2 \times \text{organic nitrogen}) + \text{NH4-N}$. Example TKN = 50, NH4-N = 18, then Org-N = $50 - 18 = 32$. Therefore, plant available nitrogen = $(.2 \times 32) + 18 = 24.4$.

P2O5 (Phosphate) and K2O (Potash) are usually 90% available the first year.

SIGNED:

M. Porter

DATE : 01-05-2009

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4110 BENTON RD.
METROPOLIS, IL 62

MANURE ANALYSIS

Lagoon old finisher

Nursery

SAMPLE ID:	SAMPLE # 1	SAMPLE # 2
LAB #:	19067	19068
NUTRIENT	LBS / 1000 GAL	LBS / 1000 GAL
TKN	5.1	3.6
NH4-N	2.7	1.8
P2O5	1.6	0.8
K2O	12.1	7.4
%TS	0.34	0.21
%H2O	99.66	99.79

TKN is the total nit
TKN minus NH4-N
equals (0.2 x orgar
Therefore, plant av

P2O5 (Phosphate)