

References

North Fork Pork, LLC

Manure Sample Analysis

(#/1000 gal or #/ton basis)

	N	NH4	OrgN	1st Year AvN	P2O5	K2O
Deep Pit	27.8	12.3	15.5	17.5	7.9	14.1

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	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: CARTHAGE VETERINARY SERV. LTD.
 34 W MAIN STREET
 CARTHAGE, IL 62321

GROWER: SAME

MANURE ANALYSIS

SAMPLE ID:	135			Average
	NORTH FORK 14	NF 15	NF 16	
LAB #:	10034	10035	10036	
NUTRIENT	lbs / 1000 gal			
TKN	21.9	30.8	36.4	27.8
NH4-N	8.0	11.2	11.4	12.3
P2O5	4.8	6.0	8.2	7.9
K2O	13.5	14.0	15.1	14.05

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 = $(.2 \times 32) + 18 = 22$

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

REPORT
 F05263-600
 ACCOUNT NUMBER
 14507

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TO: CARTHAGE VETERINARY SERVICE
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FOR: NORTH FORK-PIT SAMPLE

LAB NUMBER: 28773
 MANURE TYPE: SWINE, LIQUID PIT
 SAMPLE ID: NORTH FORK

MANURE ANALYSIS REPORT

DATE SAMPLED: 09/19/2005
 DATE RECEIVED: 09/20/2005
 DATE REPORTED: 09/28/2005 PAGE: 1

PARAMETER	UNIT	ANALYSIS RESULT	TOTAL POUNDS PER 1000 GAL	FIRST YEAR AVAILABILITY [@] POUNDS PER 1000 GAL
Moisture	%	98.48	8203.4	
Solids	%	1.52	126.6	
Nitrogen, Total (N)	%	0.269	22.4	19.9 *
Nitrogen, Ammonium (NH4-N)	%	0.222	18.5	18.5 *
Nitrogen, Organic (N)	%	0.047	3.9	1.4 *
Phosphorus (P)	%	0.067	12.7 (as P2O5)	12.7 (as P2O5) *
Potassium (K)	%	0.136	13.6 (as K2O)	13.6 (as K2O) *

[@] Estimate of first-year availability does not account for incorporation losses. Consult MWPS-18, "Livestock Waste Facilities Handbook" for additional information.

* Source: MWPS-18, Livestock Waste Facilities Handbook, 1993

** Manure density assumed to be 8.33 lb/gallon