

## 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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009/009



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34 W MAIN STREET  
CARTHAGE, IL 62321

GROWER: SAME

## MANURE ANALYSIS

SAMPLE ID:	135 NORTH FORK			AVERAGE
	14	15	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

## A & L GREAT LAKES LABORATORIES, INC.

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TO: CARTHAGE VETERINARY SERVICE  
34 WEST MAIN ST  
PO BOX 220  
CARTHAGE, IL 62321-0220

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 <sup>@</sup> 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 (NH <sub>4</sub> -N)	%	0.222	18.5	18.5 *
Nitrogen, Organic (N)	%	0.047	3.9	1.4 *
Phosphorus (P)	%	0.067	12.7 (as P <sub>2</sub> O <sub>5</sub> )	12.7 (as P <sub>2</sub> O <sub>5</sub> ) *
Potassium (K)	%	0.136	13.6 (as K <sub>2</sub> O)	13.6 (as K <sub>2</sub> O) *

<sup>@</sup> 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