

Manure Analyses History

<u>From Where?</u>	<u>Date</u>	<u>TKN</u>	<u>Am-N</u>	<u>Org N</u>	<u>1st Year Av N</u>	<u>P2O5</u>	<u>K2O</u>
Stage 1	2011	20.9	11.3	9.6	14.4	47.0	8.7
Stage 1	2011	18.3	11.3	7.0	13.5	53.9	8.7
Stage 1	2011	20.0	12.2	7.8	14.7	16.5	6.1
Stage 1	2011	21.8	14.8	7.0	17.0	30.5	6.1
		20.3	12.4	7.9	14.9	37.0	7.4
Stage 2	2007	8.4	3.0	5.4	4.8	1.2	7.6

AG TECH SERVICES INC
966 WEST CHURCH
SANDWICH, IL 60548-2058

Prepared For
 ED COWAN
 6165 E SANDWICH RD
 SANDWICH, IL 60548

Sample Information
 Lab Number FF25060 Sampled 11-30-2011
 Sample 1A Tested 12-07-2011
 Manure Type Swine, Liquid
 Stage 1

**Certificate of Analysis
 Manure**

Analysis	Result	Unit	Nutrients lbs/1000 gal	Available 1st Yr ³ lbs/1000 gal	Nutrients lbs/acre-inch	Available 1st Yr ³ lbs/acre-inch
Moisture	94.21	%				
Nitrogen, Total	.24	%	20.9	14.7 ⁴	540	380 ⁴
Nitrogen, Ammonium	.13	%	11.3	11.3 ⁴	290	290 ⁴
Nitrogen, Organic	.11	%	9.6	3.4 ⁴	250	90 ⁴
Phosphorus [P2O5], Total	.54	%	47.0	47.0 ⁴	1220	1220 ⁴
Potassium [K2O]	.1	%	8.7	8.7 ⁴	230	230 ⁴

(1) Estimates of 1st year nutrient availability are unavailable if manure type is not specified.
 (2) Estimates of 1st year nutrient availability of "Total Nitrogen" are unavailable if no "Ammonium Nitrogen" test is run.
 (3) Estimates of 1st year nutrient availability do not take into consideration losses in handling and storage prior to incorporation. Nutrient Management Plan guidelines use 100% availability the 1st year for phosphorus and potassium. Actual 1st year availability varies from 40-90% depending on manure type, soil temperature, moisture and other factors. When using manure credits in fertility programs other than NMP, consult state publications, MWP-18, "Livestock Waste Facilities Handbook" or Spectrum Analytic for more specific 1st year availability percentages.
 (4) Source: MWP-18, "Livestock Waste Facilities Handbook"
 (5) Source: A3411, "Manure Nutrient Credit Worksheet", University of Wisconsin

Prepared For
ED COWAN 6165 E SANDWICH RD SANDWICH, IL 60548

Sample Information			
Lab Number	FF25061	Sampled	11-30-2011
Sample	1B	Tested	12-07-2011
Manure Type	Swine, Liquid <i>Stage 1</i>		

**Certificate of Analysis
Manure**

Analysis	Result	Unit	Nutrients lbs/1000 gal	Available 1st Yr ³ lbs/1000 gal	Nutrients lbs/acre-inch	Available 1st Yr ³ lbs/acre-inch
Moisture	94.54	%				
Nitrogen, Total	.21	%	18.3	13.7 ⁴	470	350 ⁴
Nitrogen, Ammonium	.13	%	11.3	11.3 ⁴	290	290 ⁴
Nitrogen, Organic	.08	%	7.0	2.4 ⁴	180	60 ⁴
Phosphorus [P2O5], Total	.62	%	53.9	53.9 ⁴	1400	1400 ⁴
Potassium [K2O]	.1	%	8.7	8.7 ⁴	230	230 ⁴

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 (4) Source: MWP-18, "Livestock Waste Facilities Handbook"
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Prepared For
ED COWAN 6165 E SANDWICH RD SANDWICH, IL 60548

Sample Information			
Lab Number	FF25062	Sampled	11-30-2011
Sample	2	Tested	12-07-2011
Manure Type	Swine, Liquid <i>Stage 1</i>		

**Certificate of Analysis
Manure**

Analysis	Result	Unit	Nutrients lbs/1000 gal	Available 1st Yr ³ lbs/1000 gal	Nutrients lbs/acre-inch	Available 1st Yr ³ lbs/acre-inch
Moisture	98.13	%				
Nitrogen, Total	.23	%	20.0	14.9 ⁴	520	390 ⁴
Nitrogen, Ammonium	.14	%	12.2	12.2 ⁴	320	320 ⁴
Nitrogen, Organic	.09	%	7.8	2.7 ⁴	200	70 ⁴
Phosphorus [P2O5], Total	.19	%	16.5	16.5 ⁴	430	430 ⁴
Potassium [K2O]	.07	%	6.1	6.1 ⁴	160	160 ⁴

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 (3) Estimates of 1st year nutrient availability do not take into consideration losses in handling and storage prior to incorporation. Nutrient Management Plan guidelines use 100% availability the 1st year for phosphorus and potassium. Actual 1st year availability varies from 40-90% depending on manure type, soil temperature, moisture and other factors. When using manure credits in fertility programs other than NMP, consult state publications, MWP-18, "Livestock Waste Facilities Handbook" or Spectrum Analytic for more specific 1st year availability percentages.
 (4) Source: MWP-18, "Livestock Waste Facilities Handbook"
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Prepared For
ED COWAN 6165 E SANDWICH RD SANDWICH, IL 60548

Sample Information			
Lab Number	FF25063	Sampled	11-30-2011
Sample	3	Tested	12-07-2011
Manure Type	Swine, Liquid <i>Stage 1</i>		

**Certificate of Analysis
Manure**

Analysis	Result	Unit	Nutrients lbs/1000 gal	Available 1st Yr ³ lbs/1000 gal	Nutrients lbs/acre-inch	Available 1st Yr ³ lbs/acre-inch
Moisture	94.03	%				
Nitrogen, Total	.25	%	21.8	17.2 ⁴	560	440 ⁴
Nitrogen, Ammonium	.17	%	14.8	14.8 ⁴	380	380 ⁴
Nitrogen, Organic	.08	%	7.0	2.4 ⁴	180	60 ⁴
Phosphorus [P2O5], Total	.35	%	30.5	30.5 ⁴	790	790 ⁴
Potassium [K2O]	.07	%	6.1	6.1 ⁴	160	160 ⁴

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 (4) Source: MWP-18, "Livestock Waste Facilities Handbook"
 (5) Source: A3411, "Manure Nutrient Credit Worksheet", University of Wisconsin

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630-557-2157

HZ PORK

David Scenson

07-330-5133

Report Number
07-330-5133



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HINTZSCHE FERTILIZER
25181 COUNTY LINE ROAD
MAPLE PARK IL 60151-

Lab Number: 10005067
Description: TIMBER RIDGE PORK
LAGOON
Sample Id: SAMPLE 1

Stage 2

Account Number: 13985

Report Date: Nov 26, 2007
Received Date: Nov 20, 2007
Sampled Date:
P.O. Number:

Parameters	Analysis as Received	Nutrients lbs/1000 gals	Est. First Year Availability lbs/1000 gals
Ammonium Nitrogen(N)	0.01 %	3.0	3
Organic Nitrogen(N)	0.06 %	0.4	5
Total Nitrogen(N)	0.10 %	8.4	7
Phosphorus(P2O5)	0.01 %	1.2	1
Potassium(K2O)	0.09 %	7.6	7
Sulfur(S)	0.00 %	0.4	0
Calcium(Ca)	0.01 %	1.0	0
Magnesium(Mg)	0.00 %	0.4	1
Sodium(Na)	0.02 %	1.7	0.01
Copper(Cu)	1 ppm	0.01	0.04
Iron(Fe)	6 ppm	0.05	0.01
Manganese(Mn)	1 ppm	0.01	0.01
Zinc(Zn)	2 ppm	0.02	
Moisture	99.7 %	25.3	
Total Solids	0.3 %	13.7	
Total Salts			
pH	8.1		

First year availability of nitrogen is calculated based on preplant application with incorporation. Nitrogen available from previous years application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil GEC is less than 12 meq/100g. Soil contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulation. These regulations vary from state to state.

1000 gal per acre

John Torpy, Midwest Labs. INC.

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11/26/2007

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