



Livestock Waste Analysis Grower Report

Example 1

0

PHONE: 386-362-1001

Lab #

6487

Sample Label

Sprayfield 1

Date Collected

December 29, 2008

Date Delivered

Date of Report

October 7, 2010

County of Sample

Suwannee

Collected By

GM

Sample Type: Dairy waste collected from spray field.

Crop or Use: Rye, ryegrass, oats, wheat, triticale

Application Equipment: Applied through center pivot

Incorporation: Material will be incorporated within 24 hour

Previous Applications: Manure was applied to field last year

Lagoon is agitated before pumping / sampling

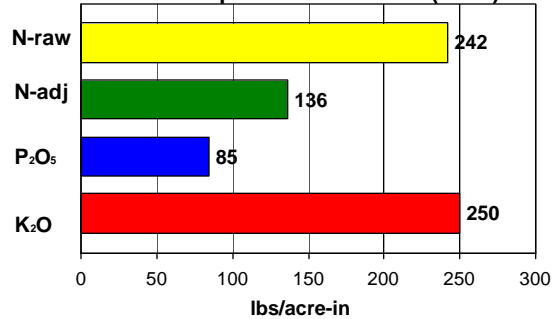
Last pump-out was less than 1 week ago

*****Nutrient Content in Manure as Delivered to Laboratory**

| Nutrient Constituent | Raw Sample | Adjusted For Application Losses of N | Units |
|----------------------|------------|--------------------------------------|-------------|
| Nitrogen (N): | 242 | 136 | lbs/acre-in |
| Phosphorus (P2O5): | 85 | 85 | lbs/acre-in |
| Potassium (K2O): | 250 | 250 | lbs/acre-in |

pH as Sampled: 7.9
Moisture Content: 98.6%
Total Solids: 1.4%
Total Ash: 0.5%

Fertilizer Equivalent in Manure (As Is)



*****Total Nutrient Requirement for:**

Rye, ryegrass, oats, wheat, triticale for 3 grazings

| | lbs. N/acre | lbs P ₂ O ₅ /acre | lbs K ₂ O/acre |
|--|-------------|---|---------------------------|
| Rye, ryegrass, oats, wheat, triticale for 3 grazings | 180 | 80 | 80 |
| Totals | 180 | 80 | 80 |

Nitrogen Recommendation Base

***Manure application rate (As Is) to supply crop N requirement:
1 inches/acre

By supplying the crop N requirement at the rate shown above, the following total nutrients will be applied:

180 lbs. N/acre
112 lbs P₂O₅/acre
331 lbs K₂O/acre

Supplemental nutrients needed:

0 lbs. N/acre
0 lbs P₂O₅/acre
0 lbs K₂O/acre

*****Economic value of manure at the rate shown above:**

N \$106 per acre
P₂O₅ \$96 per acre
K₂O \$57 per acre

*****Cost of additional nutrients needed:**

\$0 N per Acre
\$0 P₂O₅ per acre
\$0 K₂O per acre

Phosphorus Recommendation Base

***Manure application rate (As Is) to supply crop P requirement:
1 inches/acre

By supplying the crop P requirement at the rate shown above, the following total nutrients will be applied:

129 lbs. N/acre
80 lbs P₂O₅/acre
236 lbs K₂O/acre

Supplemental nutrients needed:

51 lbs. N/acre
0 lbs P₂O₅/acre
0 lbs K₂O/acre

*****Economic value of manure at the rate shown above:**

N \$76 per acre
P₂O₅ \$96 per acre
K₂O \$57 per acre

*****Cost of additional nutrients needed:**

\$30 N per Acre
\$0 P₂O₅ per acre
\$0 K₂O per acre



Institute of Food and Agricultural Sciences
 Livestock Waste Testing Laboratory- Gainesville, FL

Livestock Waste Testing
 Lab
 631 Wallace Building
 Gainesville, FL 32611
 (352)392-1950

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| Laboratory Results (All weights are based on sample weight as received) | | | |
|---|------------|-------|---------------------|
| Total Solids: | 13900 mg/l | 1.4% | 3149 lbs/acre-inch |
| Total Ash: | 4500 mg/l | 0.5% | 1019 lbs/acre-inch |
| Total Kjeldahl N*: | 1068 mg/l | 0.11% | 242.1 lbs/acre-inch |
| Ammonia Nitrogen: | 622 mg/l | 0.06% | 141.0 lbs/acre-inch |
| Total Elemental P: | 165 mg/l | 0.02% | 37.3 lbs/acre-inch |
| Total Elemental K: | 916 mg/l | 0.09% | 207.6 lbs/acre-inch |
| Moisture: | 98.61% | | |
| pH: | 7.9 | | |

* Total Kjeldahl Nitrogen is equivalent to Total N for manure and high organic samples

| Estimated Nitrogen Losses: | | | |
|---|--------------|---|----------------------------|
| N-Content of Sample as Tested: | | | 242.1 lbs/acre-inch |
| ***N-losses during application: | 25% | - | 60.5 lbs |
| ***N-losses while awaiting incorporation: | 25% | - | 45.4 lbs |
| ***Other N-Losses: | 0% | - | 0.0 lbs |
| Estimated Available N: | 56.3% | | 136.2 lbs/acre-inch |

Footnotes:

Fertilizer Equivalent in Manure - The nitrogen value is an estimate based on inherent losses from using animal manures.

Total Nutrient Requirement For - This is the total N-P2O5-K2O recommended for the crop for a growing season assuming low P2O5 and K2O sc tests. Split applications of N and K2O result in more efficient nutrient use. For assistance in determining individual application rates, see your County Extension Agent, nutrient management specialist or Soil and Water Conservation District Technician.

Manure application rate - The maximum application rate that should be applied if it is split applied at least three times during this crop, and amount applied in each application adjusted to crop intake. If single applications are used, then manure should be applied at 50% of the above rate with the remaining N requirement being met by supplemental fertilization. Sprayfields with frequent applications may also need an adjusted rate.

Economic Value This is by nature a rough approximation meant for comparative purposes only. Since the value of N and P2O5 are by far the most important in determining economic value of manure, only these are considered in the calculations. The commercial values of N and P2O5 are estimated using ammonium nitrate at \$580/ton, concentrated superphosphate (0-46-0) at \$1120/ton, and potassium chloride (0-0-60) at \$800/ton.

N-Losses during applicator - A loss of 25% is assumed for liquid samples with a pH above 7 and for situations where sprinklers are used if application. A standard loss of 5% is assumed for all other materials and situations.

N-Losses while awaiting incorporation - It is assumed there will be no N loss to volatilization if solid or slurry manures are incorporated within hours and a 25% loss if they are not. Liquid applications are considered to have an additional 25% volatilization loss before stabilization in soil.

Other N-Losses - A 50% reduction in N availability is calculated whenever a manure having an ammonia to organic nitrogen ratio less than or equal to 1 is applied to a field where manure was not applied the previous year.

Regular soil testing is recommended where manures are applied often.

Revised October 2008.