



# Dairy One

Forage Laboratory

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www.dairyone.com

## Manure & Compost Sample Submission Form v.4.0

An analysis is only as good as the sample submitted. See reverse for complete sampling instructions.

All prices (USD) are per sample. Prices and services are subject to change without notice.

For international samples, contact forage@dairyone.com for USDA permit (select countries only).

Name/Company: \_\_\_\_\_ Account No.: \_\_\_\_\_

Street: \_\_\_\_\_ County (NY only): \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Country: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

2nd email: \_\_\_\_\_ **Results sent by email.** I'd also like to receive copies by:  mail

Statement ID (farm):		<b>LAB USE ONLY</b>	
Sample description:	Date sampled:		
Sample code*:	* Sample codes are only applicable for account holders who have received a set of sample labels from the lab. A sample code is required for electronic submission of this form. For more information, call 607-375-9962.		

CATTLE		POULTRY	HORSE	SWINE	OTHER: _____
Liquid Storage	Solid				
<input type="checkbox"/> (080) < 3 mo.	<input type="checkbox"/> (083) Daily spread	<input type="checkbox"/> (070) Daily spread	<input type="checkbox"/> (072) Spread 1-3x/wk	<input type="checkbox"/> (074) Liquid	<input type="checkbox"/> (076) Liquid
<input type="checkbox"/> (081) 3-6 mo.	<input type="checkbox"/> (084) Stored* < 6 mo	<input type="checkbox"/> (071) Stored	<input type="checkbox"/> (073) Stored	<input type="checkbox"/> (075) Solid	<input type="checkbox"/> (077) Solid
<input type="checkbox"/> (082) > 6 mo.	<input type="checkbox"/> (085) Stored* > 6 mo * includes bedded pack				

Type of bedding:  Straw  Sawdust/shavings  Sand  Other (use for compost): \_\_\_\_\_

### Services

**(308) Standard Manure Analysis \$43:** total nitrogen, ammonium nitrogen, organic nitrogen, phosphorus, phosphate equivalent, potassium, potash equivalent, total solids, density.



**Additional Services:** prices reflect the cost of adding any of the services listed below to the (308) Standard Analysis package. Selecting only individual or combinations of the services listed below requires the \$11.00 Custom Base Fee charge in addition to the cost of the individual services. For example, if you select total nitrogen (\$9) plus magnesium (\$10), your total cost is \$30.

<input type="checkbox"/> (287) Custom Base Fee \$11.00 (Includes total solids)	<input type="checkbox"/> (284) Density \$8.00	<b>Minerals Analysis</b>	
<input type="checkbox"/> (239) Manure Carbon \$14.00	<input type="checkbox"/> (285) Sulfur \$9.00	<input type="checkbox"/> (274) Calcium (Ca)	<input type="checkbox"/> (279) Copper (Cu)
<input type="checkbox"/> (264) Total Nitrogen \$9.00	<input type="checkbox"/> (286) Chloride \$13.00	<input type="checkbox"/> (267) Phosphorus (P)	<input type="checkbox"/> (280) Manganese (Mn)
<input type="checkbox"/> (265) Ammonium Nitrogen \$12.00	<input type="checkbox"/> (298) Nitrate Nitrogen \$14.00	<input type="checkbox"/> (275) Magnesium (Mg)	<input type="checkbox"/> (281) Molybdenum (Mo)
<input type="checkbox"/> (266) Organic Nitrogen*	<input type="checkbox"/> (400) Aluminum \$9.00	<input type="checkbox"/> (269) Potassium (K)	
<input type="checkbox"/> (272) Ash \$9.00	<input type="checkbox"/> (401) Boron \$9.00	<input type="checkbox"/> (276) Sodium (Na)	\$10.00 for 1 mineral
<input type="checkbox"/> (282) Cobalt \$9.00	<input type="checkbox"/> (402) Chromium \$9.00	<input type="checkbox"/> (277) Iron (Fe)	\$13.00 for 2 minerals
<input type="checkbox"/> (283) pH \$8.00	*determined from Total and Ammonium Nitrogen	<input type="checkbox"/> (278) Zinc (Zn)	\$18.00 for 3 or more minerals

### Shipping Labels

- UPS Label - Ground \*\* \$11.00
- UPS Label - 2-Day (Air) \*\* \$38.00
- UPS Label - Next Day (Air) \*\* \$46.00

\*\* UPS Rates are based on average flat rate weights of 3.0lbs/sample. If samples arrive greater than 3 lbs. and incur additional UPS charges, these charges will be added to the customer account.

 <b>Purchase kits /shipping labels</b>	 <b>New Account Application</b>
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For new customers contact accounting department at [accounting@dairyone.com](mailto:accounting@dairyone.com) to set up an account number

Note: Each International sample is charged a \$9.00 for International handling fee.

## Manure Sampling

The proper management of manure can greatly offset your commercial fertilizer costs. Four components are required to use manure effectively in a soil fertility program:

1. Soil analysis to determine nutrient needs
2. Manure analysis to determine nutrient content
3. Estimate of nutrient availability in manure
4. Estimate of an application rate to supply a prescribed amount of available nutrients

Manure samples should be submitted in a **16 oz (500 ml) wide mouth plastic screw top container**. We strongly recommend the manure kits available through the store at [www.dairyone.com](http://www.dairyone.com).

## Sampling Instructions

**Sample Collection** - The sample should be representative of the entire material being sampled. Storage areas should be sampled each time they are emptied. Daily spread operations should be sampled at least four times throughout the year to obtain an accurate average nutrient value. Where bedding is used, samples should include both bedding and manure. Sampling is best done from the spreader when manure is being loaded from the barn or storage. This will provide the most representative sample of the nutrient content at time of spreading. 16oz. (500ml) wide mouth plastic screw top containers are available upon request. Contact customer support for more information.

### 1. Sampling from daily spread manure:

- a. Place a bucket under the barn cleaner at 5 different times while loading the spreader. Thoroughly blend the manure in the bucket and take a subsample from the bucket and place in a 16oz. (500ml) plastic screw top container filling it  $\frac{1}{4}$  full. Cap tightly and freeze immediately. Repeat this process over two additional days, adding new sample to container of frozen material and refreeze immediately. After the third sampling, the container should be  $\frac{3}{4}$  full.
- b. Alternatively, use a garden trowel and bucket to collect sub-samples from 12 different spots on several loads over the course of three consecutive days. Each day's sub-sampling should be mixed thoroughly in the bucket then sub-sampled, placing the sample in the plastic screw top container filling it  $\frac{1}{4}$  full. Cap tightly and freeze immediately between samplings. After the third day of sampling, the container should be  $\frac{3}{4}$  full.

Repeat process *a* or *b* several times throughout the year to determine variability over time.

### 2. Sampling directly from storage:

Sampling storage directly is not recommended as it is difficult, may be unsafe, and likely to result in more variable results than sampling while the manure is loaded into the spreader or tanker.

### 3. Sampling when fully emptying storage and during loading:

Collect 5 samples in a bucket while emptying the storage and loading the spreader. Thoroughly blend the manure in the bucket (a plunger works well in some cases for a very uniform, liquid manure) and take a subsample from the bucket using a spoon and placing in a 16oz. (500 ml) plastic container filling it  $\frac{1}{4}$  full. Cap tightly and keep the sample container on ice to minimize or prevent loss of ammonium nitrogen, especially if samples are to be collected over a period of hours during storage emptying. Repeat the same sampling process two additional times. After the third sampling, the container should be  $\frac{3}{4}$  full.

### 4. Sampling liquid manure from tanker:

Take at least 3 samples from the tanker with the dipper and place in a bucket. Immediately mix the sample and remove a small amount with a spoon and place in a 16oz. (500ml) plastic screw top container filling it up to  $\frac{1}{8}$  full. Cap tightly and freeze immediately. Collect additional samples over at least six different days, adding each new subsample to the container of frozen material and refreeze immediately. After six loads have been sampled, the container should be  $\frac{3}{4}$  full. The number of sub-samples may vary depending upon the uniformity of the manure. More sub-samples will yield a more representative sample for analysis.

### 5. Sampling solid manure while loading or during field application (spreading):

Do not sample directly from a bedded pack or stockpile if it can be avoided as this may yield a non-representative sample. Samples should be taken from loads representing the beginning, middle, and end of the process. A minimum of six samples from different loads of approximately the same size should be taken during loading or application and placed in buckets (two from beginning, two from middle, and two from end). Avoid large chunks of bedding or other areas that are atypical of the manure. After the six samples have been collected, place all the material on a tarp or other clean surface, blend thoroughly, pull a subsample from the mixed composite and then fill a 16oz. (500ml) plastic screw top container  $\frac{3}{4}$  full. Cap tightly and freeze immediately.

## Shipping and Handling

Send by express service (FedEx, UPS, etc.) or drop off at your nearest Dairy One pick-up point. Samples should be shipped in a sturdy box with secure closure. Visit the Sample Transportation page on our website for a current map of sample pick-up points.