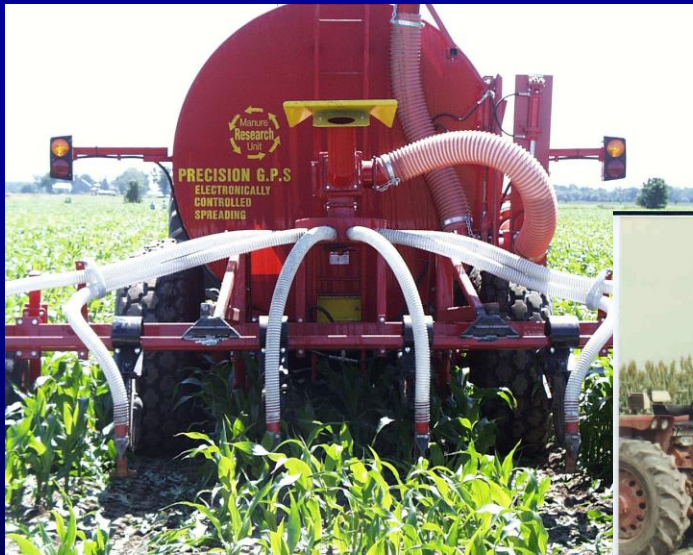


Manure Sampling



Nutrients from manure can contribute significant amounts of the nutrients needed for crop growth



**Excess
nutrients
from manure
can
contribute to
water quality
problems**



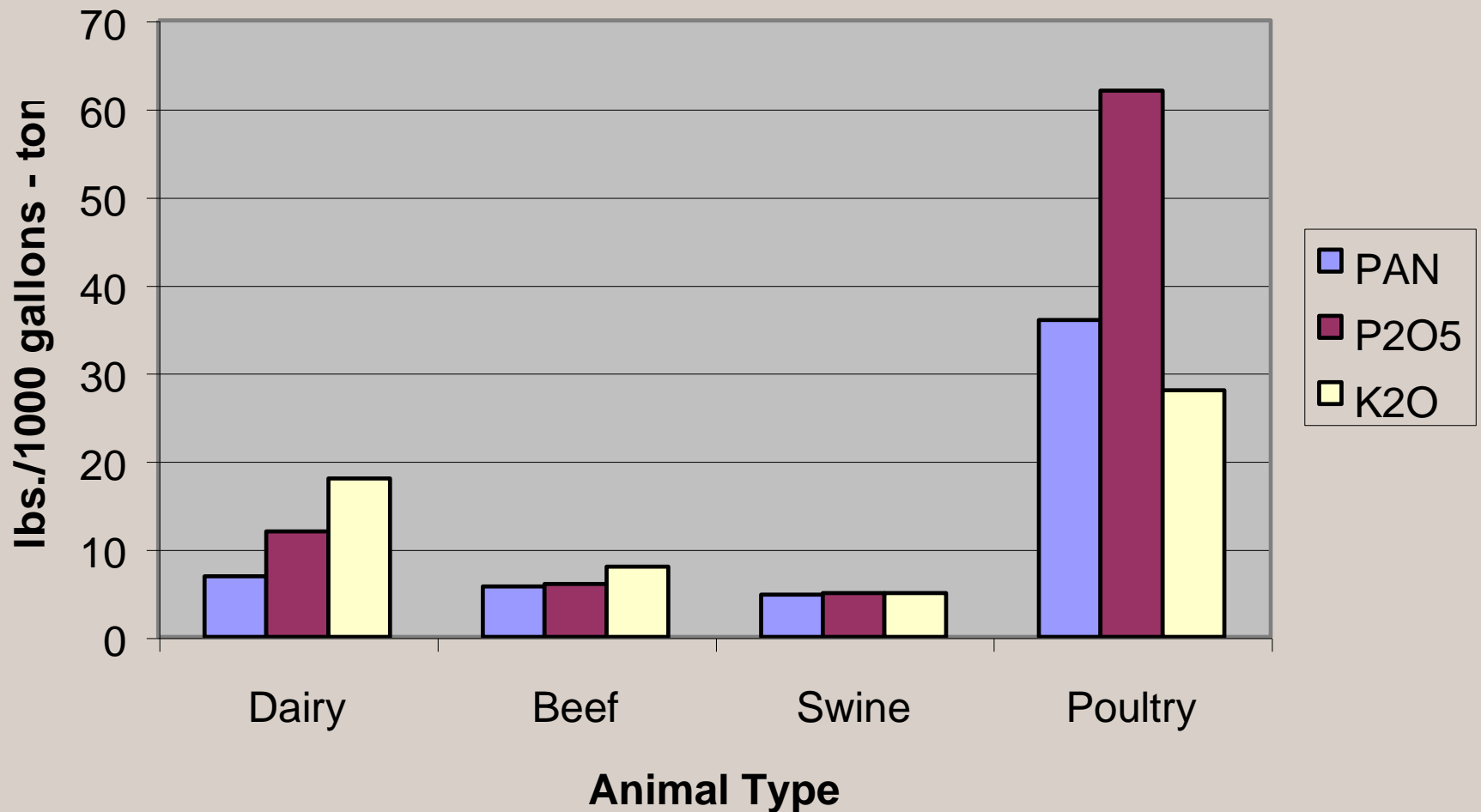
Manure Sampling



Manure Sampling

- **Representative of what is spread**
- **Sample at time of cleanout**
- **If results are not available at spreading, estimate content and make adjustments later**
- **Variability is inevitable**

Nutrient Components of Manures



Average Analysis Values for Manure Tested in Virginia

- *Virginia Nutrient Management Standards and Criteria, Revised July 2014*
 - Table 8-4, page 111
- Contact your local Nutrient Management Specialist

Poultry Waste Sampling

In-House

- Have the producer sample in-house!!
- Inspect floor areas for variations
- Estimate percentages of variations
- 6-10 samples from different floor areas
- Mix thoroughly

Poultry Waste Sampling

Piled Litter

- Represent the entire stack
- Do not sample only from within the surface layer
- Ten subsamples
- At least 18 in. deep
- Mix thoroughly









Manure Sampling

Storage Tank/Pit

- Sample directly from the loading pipe or spreader tank, following agitation
- Several representative samples
- Mix thoroughly

Agitation



Sampling
directly from
spreader tank





Manure Sampling

Feedlot

- **Sample directly from the spreader**
- **5-6 locations or from different spreader loads**
- **Dig under crust, and avoid straw and bedding**
- **Mix thoroughly**

Manure Sampling

A photograph of a pigpen with a slatted floor. Several piglets are visible on the floor. Below the floor is a pit for manure collection. The text is overlaid on the image.

Slotted Floor with Pit

- Sample directly from the spreader
- 5-6 locations or from different spreader loads
- Mix thoroughly

Manure Sampling

Lagoon

- **12-18 inches deep, away from bank, avoiding corners**
 - **5-6 samples**
 - **Mix thoroughly**
 - **Multi-stage Lagoons: Sample unit from which waste will be spread**
- 
- A photograph of a manure lagoon. In the foreground, a green pipe is supported by wooden posts, extending into the water. Two people are standing on the grassy bank near the pipe. The lagoon is surrounded by a grassy field and a line of trees in the background under a cloudy sky.

VISITORS

PLEASE RESPECT
FARM BIOSECURITY

Vehicles, people and livestock carry weed seeds, pests and diseases.

Please call at the house or phone : _____


 WORKING TOGETHER TO PROTECT INDUSTRY
 

Biosecurity

STOP


THIS IS A
BIOSECURE AREA
No Unauthorized Entry


Go to Office located at: _____
Or call _____ at phone number: _____


Biosecurity Risks

Potential Points of Disease Vector

Chicken/Poult/Pullets	Feed
Bedding material	Water
Supplies	Air
Equipment	Pets
Multi-Age Complexes	
Pests (insects, rodents etc.)	
People (including shoes, clothing etc.)	







Potential for Transmission

Birds going off farm (Malnut birds, pullets, culls and deadstock)

Eggs

Equipment

Used Supplies

Pests (insects, rodents etc.)

People (including shoes, clothing, crews etc.)

Feed

Air

Manure

- Isolation: Prevent contact
- Traffic Control: Includes vehicles, people and animals
- Sanitation: Disinfection of materials, people and equipment entering and on the operation



For Use in
Cleaning and
Disinfecting
Industrial,
Animal and
Agricultural
Facilities



ACTIVE INGREDIENTS
Potassium permanganate
Sodium Chloride
INERT INGREDIENTS
TOTAL
Equivalent to 5.75% available
**KEEP OUT OF REACH
OF CHILDREN**
See Back Label for details
1 lb. (454 g)
 Farnam
A Division of
P.O. Box 4400
Product #3001143
EPA Reg. No. 5242-128



Questions?