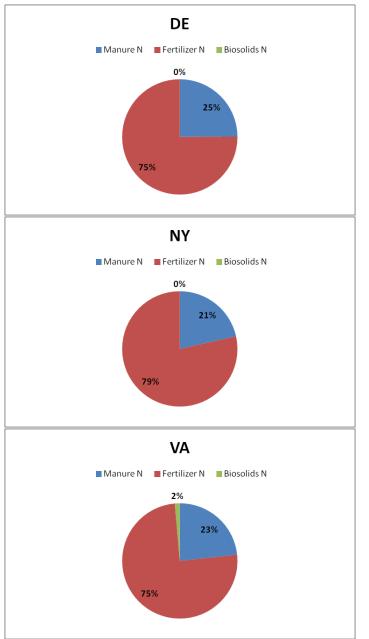
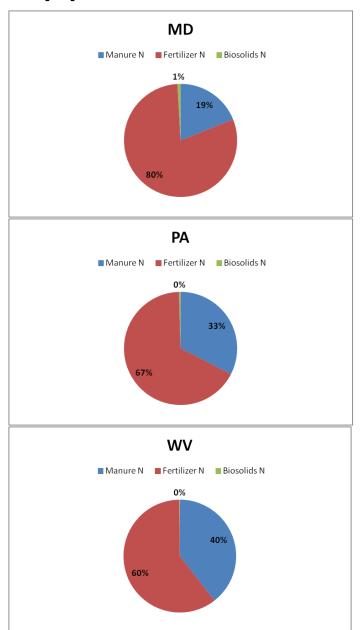
# Reviewing Biosolids in Beta 3

09132016

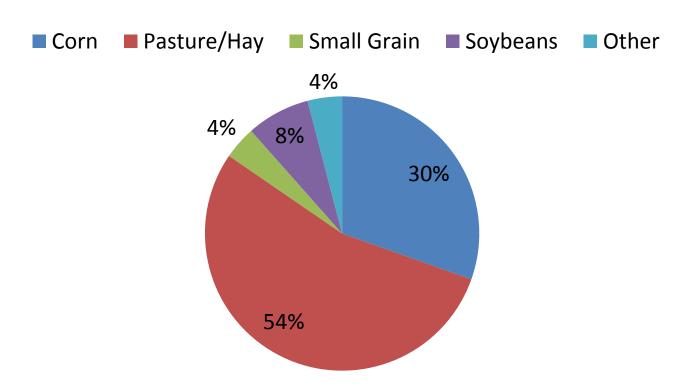
Matt Johnston
University of Maryland
Non-Point Source Data Analyst, Chesapeake Bay Program

# Biosolids as % of N Applications in 2012





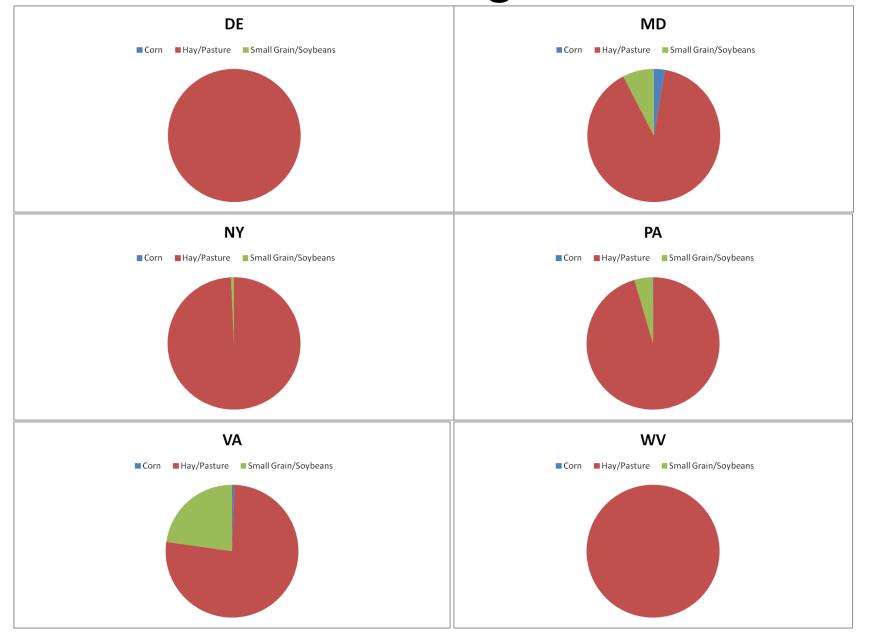
## What we wanted...



Weighting Factors for Biosolids Applications to Meet Crop Goal

Crop	Percent	Percent/Percent Corn
Corn	30.43	1
Pasture/Hay	54.14	1.7792
Small Grain	3.89	0.1278
Soybeans	7.48	0.2458
Other	4.06	0.1334

# What we got...



### How do we fix it?

### Apply biosolids first!

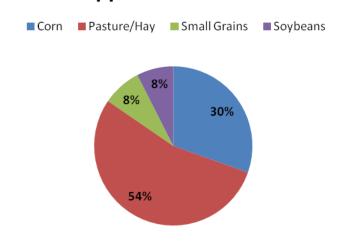
- Very few biosolids nutrients compared to manure and fertilizer means manure applications aren't likely to be significantly impacted.
- Still use the relative percentages we were using.
  - Combine "other" with small grains.
- Adjust these based upon relative crop goal (corn goal/acre > pasture goal/acre).

# Same approach, with a few changes

### **Developing Proportional Applications**

Crop	Fraction Total Application	Average App Goal (2012) Lbs N/acre	% Crop Goal Applied/1 %Corn Goal	Pounds Applied/1% Corn Goal
Corn	0.30	138	1.00	1.38
Pasture/Hay	0.54	18	13.64	2.46
Small Grains	0.08	85	0.42	0.36
Soybeans	0.08	6	5.65	0.34

### **Biosolids Application from State Data**



#### Pounds Applied/1% Corn Goal

