

Poultry Litter Subcommittee Update

9 August 2012

Status of Committee Work

- Template for reporting manure composition and volume provided by West Virginia.
- Data being reported by 5 states.
- Conference call on 24 July 12.
- States to submit a draft template in August.

Typical Template

Jason Dalrymple - WVA

Broilers

Year										
(1985-Present)	1995	1995	1995	1995	1996	1996	1996	1996	1997	1997
Manure Type										
Dry	x	x	x	x	x	x	x	x		
Wet										
Sample Type										
In-House	x				x				x	
Uncovered Stack		x				x				x
Covered Stack			x				x			
Roofed Storage				x				x		
Other (specify)										
Sample Number										
(1-10,000)	9	4	1	3	28	18	31	16	53	35
TKN lbs/T										
Value Range	49.6 - 83.6	61-80.32	87	59.9-106.2	18.5-96	15-88.8	37.7-106.7	35.72-96.7	28.32-75.65	28.20-85.75
Weighted Average	72.23	67.08	87	89.1	59.77	70.93	82.25	64.59	57.59	58.56
P205 lbs/T										
Value Range	13.7-78.6	34.4-39.6	44.7	52.3-94	18.8-91.35	36.9-102.53	30.03-86.9	30.4-91.4	29.94-69.56	27.15-78.22
Weighted Average	52.09	38.15	44.7	79.3	62.21	69.48	64.7	65.47	52.78	51.94
% Moisture										
Value Range	23.04-34.58	25.95-64.85	26.24		19.8-56.4	19.42-58.42	18.08-42.20	17.4-46.4	8.13-45.8	4.96-52.83
Weighted Average	27.16	39.24	26.24			30.49	27.9	31.38	26.07	32.53
C:N Ratio										
Value Range				9.73		13.15-15.39	13.04		14.29-38.77	3.60-46.79
Weighted Average				9.73		14.27	13.04		21.09	19.29
NH-4										
Value Range	8.1-23.57	17.7-25.4	12.2	13.2-16.5	6.34-23.60	8.86-25.87	6.44-26.40	7.4-28.3	6.69-25.73	5.78-23.33
Weighted Average	15.95	23.37	12.2	16.2	13.73	18.01	19.74	16.65	12.32	15.81

Year											
(1985-Present)	2010	2010	2010	2011	2011	2011	2011	2012	2012	2012	2012
Manure Type											
Dry								x	x	x	x
	Wet										
Sample Type											
In-House Uncovered Stack Covered Stack Roofed Storage Other (specify)	x			x				x			
		x			x				x		
						x				x	
			x				x				x
Sample Number											
(1-10,000)	25	6	35	14	9	1	53	15	2	1	32
TKN lbs/T											
Value Range	36.37-78.15	18.75-62.39	36.77-81.26	47.64-108.59	24.29-70.31	62.81	43.96-83.47	34.93-89.97	59.61-61.57	74.11	35.91-93.62
Weighted Average	58.83	44.74	62.43	71.92	56.53	62.81	67.35	71.93	60.59	74.11	71.37
P205 lbs/T											
Value Range	23.60-52.23	33.05-52.61	28.31-75.76	30.02-59.09	11.16-60.66	45.54	6.13-74.39	22.75-63.61	27.47-37.73	58.99	15.30-64.65
Weighted Average	38.16	37.56	46.35	41.59	36.49	45.54	41.95	37.75	32.6	58.99	40.5
% Moisture											
Value Range	14.34-47.57	24.94-53.75	18.78-47.69	13.68-44.27	27.55-71.95	17.64	6.96-48.72	18.48-59.66	37.50-46.48	32.7	15.23-48.44
Weighted Average	29.63	34.69	29.83	25.67	37.74	17.64	31.17	32.7	16.94	32.7	29.92
C:N Ratio											
Value Range	14.34-24.37	17.93-29.43	13.19-26.12	13.06-29.85	14.34-22.33	21.95	13.12-25.27	13.18-20.43	14.33-16.32	15.56	13.08-32.44
Weighted Average	19.91	22.22	18.36	17.96	17.55	21.95	16.85	15.56	15.33	15.56	15.91
NH-3											
Value Range	12.94-30.41	10.70-28.06	22.65-52.44	7.39-39.30	8.03-44.01	6.71	8.32-45.75	10.52-20.61	10.97-22.91	18.61	12.44-24.78
Weighted Average	23.55	19.41	33.33	20.45	19.59	6.71	25.75	16.36	16.94	18.61	17.55
% H2O Extract P											
Value Range	22.10-58.10	21.40-50.40	13.20-64.20	24.20-43.60			19.20-84.10				
Weighted Average	34.14	41.25	35.57	32.67			39.51				

PLS Data Collection: Pennsylvania Update

- ✓ Years of available manure sample nutrient data
 - 1999 to present
- ✓ Source of data
 - Agricultural Analytical Services Laboratory, Penn State University - College of Agricultural Sciences
- ✓ Currently available manure sample nutrient data
 - Nitrogen (total and ammonium), Phosphorus and Potash
 - Calcium and Magnesium
 - Moisture content
- ✓ Currently anticipated challenges
 - Matching integrator sources to samples
 - Identifying the sample type to meet collection template requirements
 - Significant number of research samples
 - Providing manure nutrient data for Copper, Carbon to Nitrogen ratio and Water extractable phosphorus

Timeline

- Mid-September for data submitted via templates.
- Summarize data by end of September.
- First part of Oct. discussion and review by the PLS
- Presentation/recommendations for the Oct. 11 AgWG meeting.