

AAFCO Proficiency Testing Program: Participation





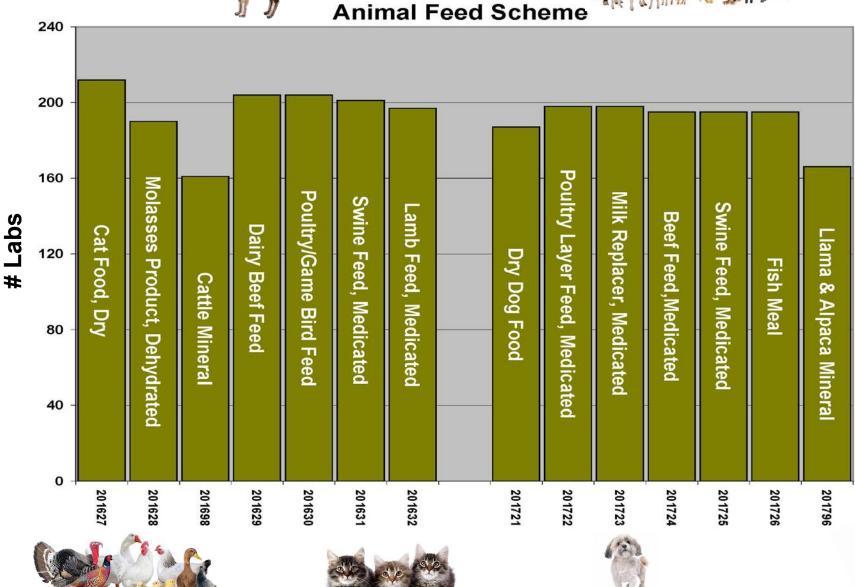
















Animal Feed Scheme 2016-17 Z-Cut Homogeneity Screen





Code	Sample	Pass Z Cut	% Prot.	# in Cut
201627	Cat Food, Dry	0.52%	33.6	88
201628	Molasses Product, Dehydrated		9.4	80
201698	Cattle Mineral	011/6	1.7	20
201629	Dairy Beef Feed	0.38%	30.6	91
201630	Poultry/Game Bird Feed	0.00%	27.9	92
201631	Swine Feed, Medicated	0.00%	20.8	87
201632	Lamb Feed, Medicated	0.49%	19.5	89







201721	Dry Dog Food	0.00%	28.9	84
201722	Poultry Layer Feed, Medicated	0.72%	19.0	95
201723	Milk Replacer, Medicated	0.00%	23.2	84
201724	Beef Feed, Medicated	0.00%	34.8	82
201725	Swine Feed	0.00%	21.3	84
201726	Fish Meal	0.00%	61.5	86
201796	Llama & Alpaca Mineral		5.9	28











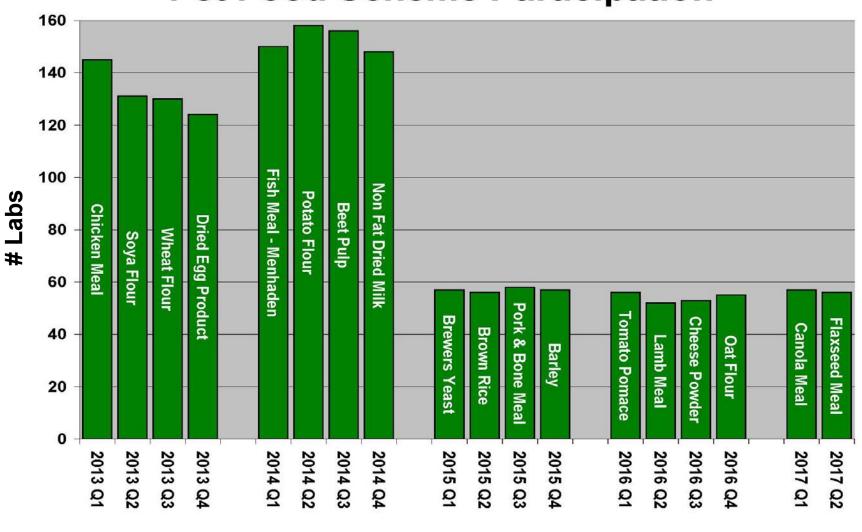








Pet Food Scheme Participation









Pet Food Scheme 2016-17 Z-Cut Homogeneity Screen

Sample #	Sample Name	Pass Z-Cut %RSD	% Protein	# in Z-Cut
201641	Tomato Pomace	0.51%	20.7	26
201642	Lamb Meal	0.00%	55.3	24
201643	Cheese Powder	1.38%	15.0	24
201644	Oat Flour	0.00%	13.0	27

201741	Canola Meal	0.00%	33.0	30
201742	Flaxseed Meal	0.00%	21.1	32



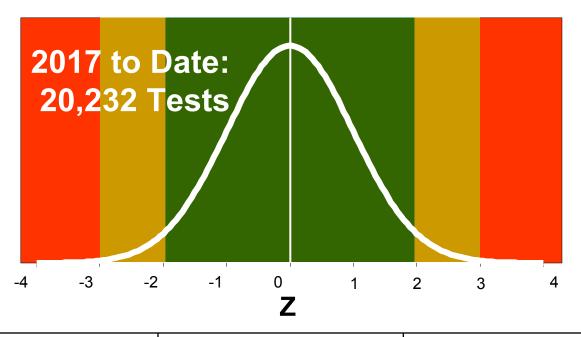






ficiency Testing Program

Z-Score Indications in Animal Feed Scheme and Pet Food Scheme



Compliance 2 > Z > -2	Warning	Actionable 3 < Z < -3
89.4%	4.9%	5.7%



Mycotoxin Scheme Sample Engineering



Trilogy sources the base feeds.



Materials thoroughly processed with regard to particle size and blending.



70,000 lb Masters Collection

- Carefully sourced feeds naturally contaminated with Mycotoxins.
- Incubated to raise concentration.

NEW Homogeneity Testing

- 10 Sample bags analyzed in Duplicate.
- Randomized sampling & testing.
- We analyze raw data.



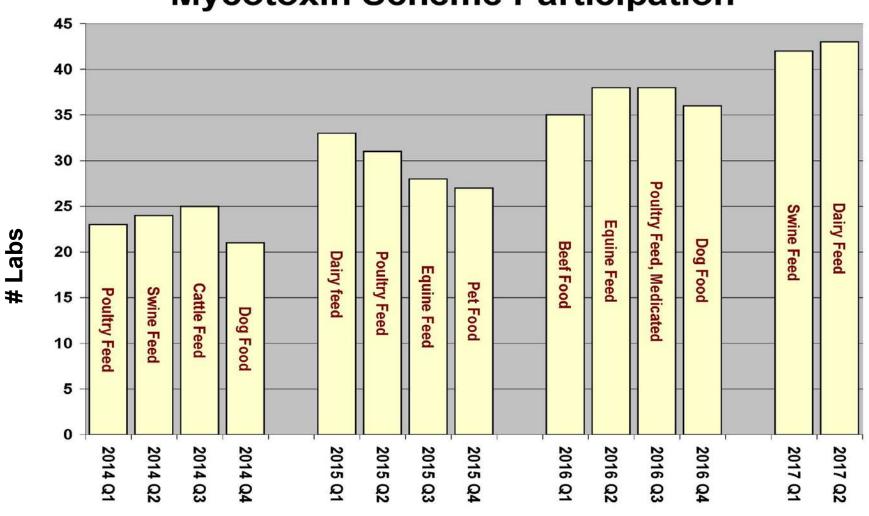
NEW Stability Testing

- 5 additional sample bags held until post due date.
- Duplicate test portions randomized & analyzed.
- Data compared with prior Homogeneity testing data.











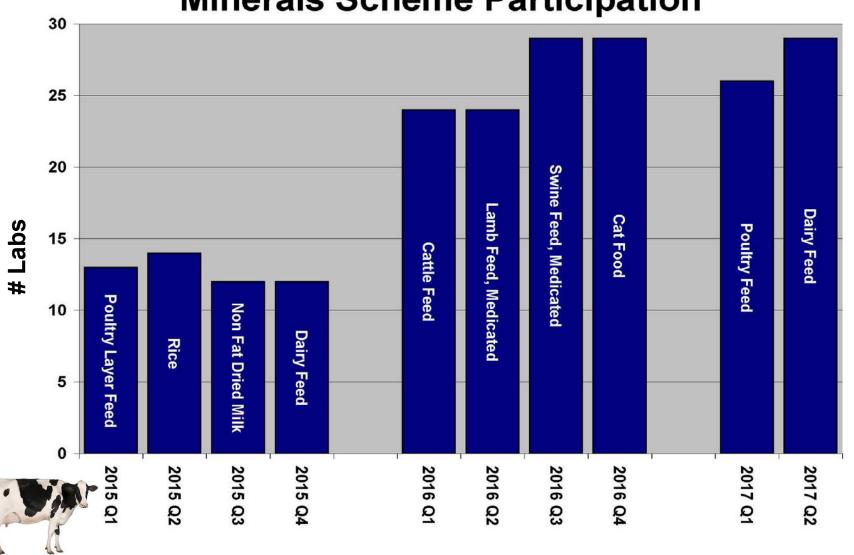








Minerals Scheme Participation





Minerals Scheme Sample Engineering



Base feed sourced from prior Check Samples. Minerals sourced separately.



Existing Minerals in base feed established during prior testing round.

Able Laboratory Inc.

Bob Kieffer



- Added Minerals solubilized and sprayed over existing pre-ground base feed prior to blending and sample portioning.
- Spike concentrations calculated.
- NEW Homogeneity testing results.



Homogenous Samples for distribution.

Minerals Scheme: Sample Homogeneity

Validate Sample Preparation Blending Process

- 4 Labs Participated. Thank you!
- 4 AAFCO PT Samples used.
 - o 201554 Dairy Feed
 - o 201651 Cattle Feed
 - o 201652 Lamb Feed
 - o 201653 Swine Feed

Homogeneity Testing Protocol

- 10 Sample bags analyzed in Duplicate.
- Randomized sampling & testing. Analysis as discussed previously.
- 30% of Horwitz σ compared with extracted Variation due to sampling.
- FAIL at > 3% PASS Threshold.



Minerals Scheme: Sample Homogeneity

Full Reports On File!

Sample	2015-54	2016-51		2016-52		2016-53
Analyte\Lab	LAB 1	LAB 1	LAB 2	LAB 1	LAB 3	LAB 4
Aluminum					PASS	PASS
Arsenic	PASS	PASS		PASS	PASS	PASS
Boron					PASS	
Cadmium	PASS	PASS		PASS	PASS	PASS
Chromium	PASS	PASS		PASS	High AV	High AV
Cobalt	PASS	PASS		PASS	PASS	PASS
Copper	PASS	PASS		PASS	High AV	PASS
Fluorine			FAIL			
lodine						
Lead	PASS	PASS		PASS	High AV	High AV
Mercury	NA	NA		PASS	High AV	
Molybdenum	PASS	PASS		PASS	PASS	PASS
Nickel					PASS	High AV
Selenium	PASS	PASS		PASS	PASS	PASS
Sulfur	PASS	PASS		PASS	PASS	PASS
Vanadium			PASS		PASS	

