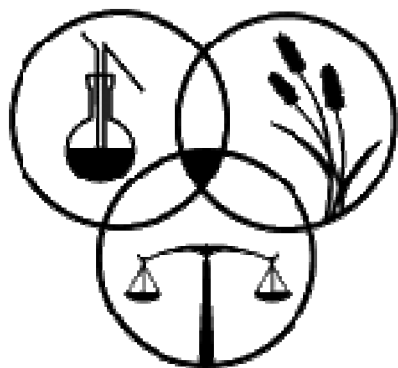
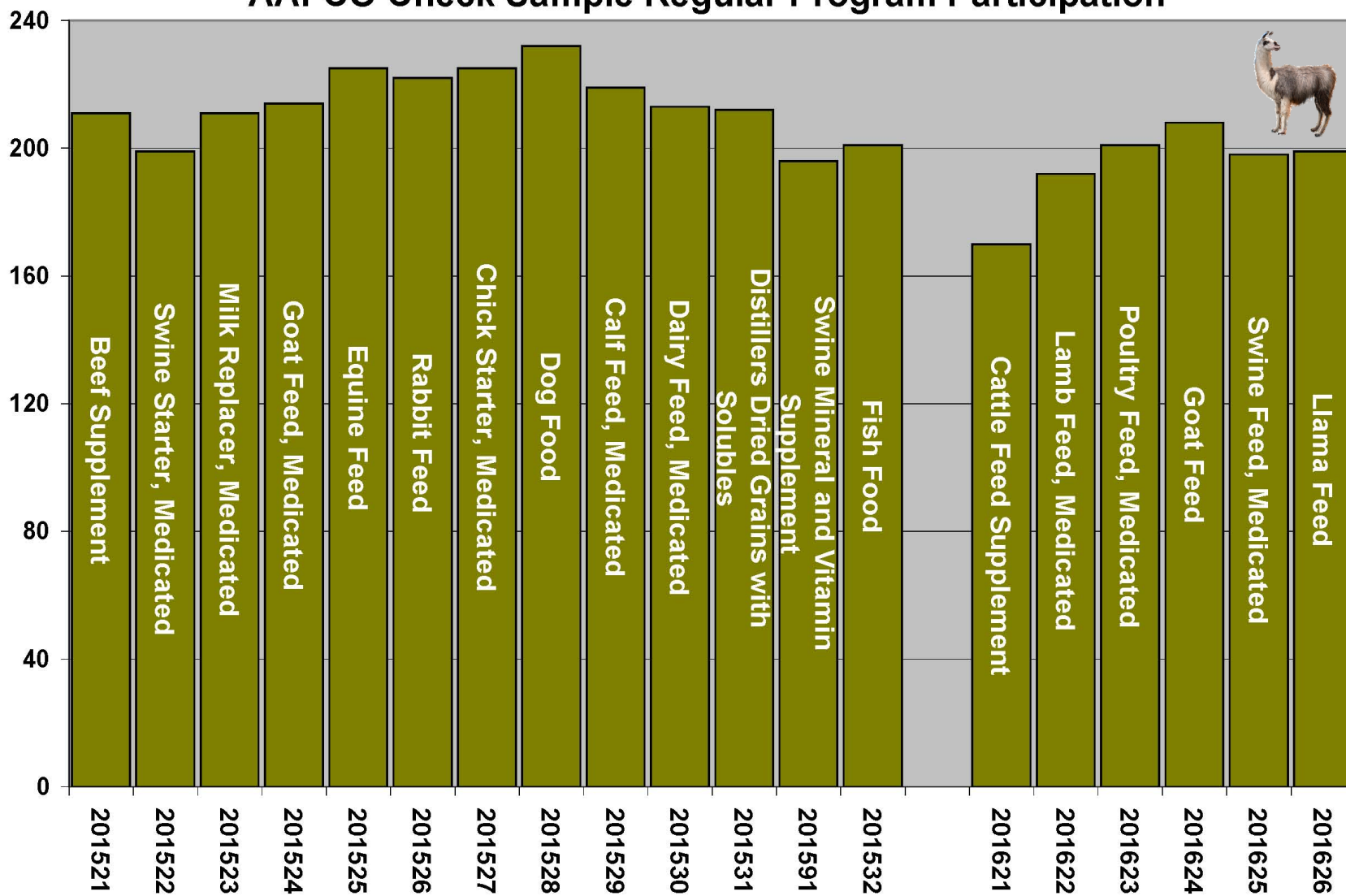




AAFCO Check Sample 2016 Program Participation



AAFCO Check Sample Regular Program Participation



AAFCO RCSP

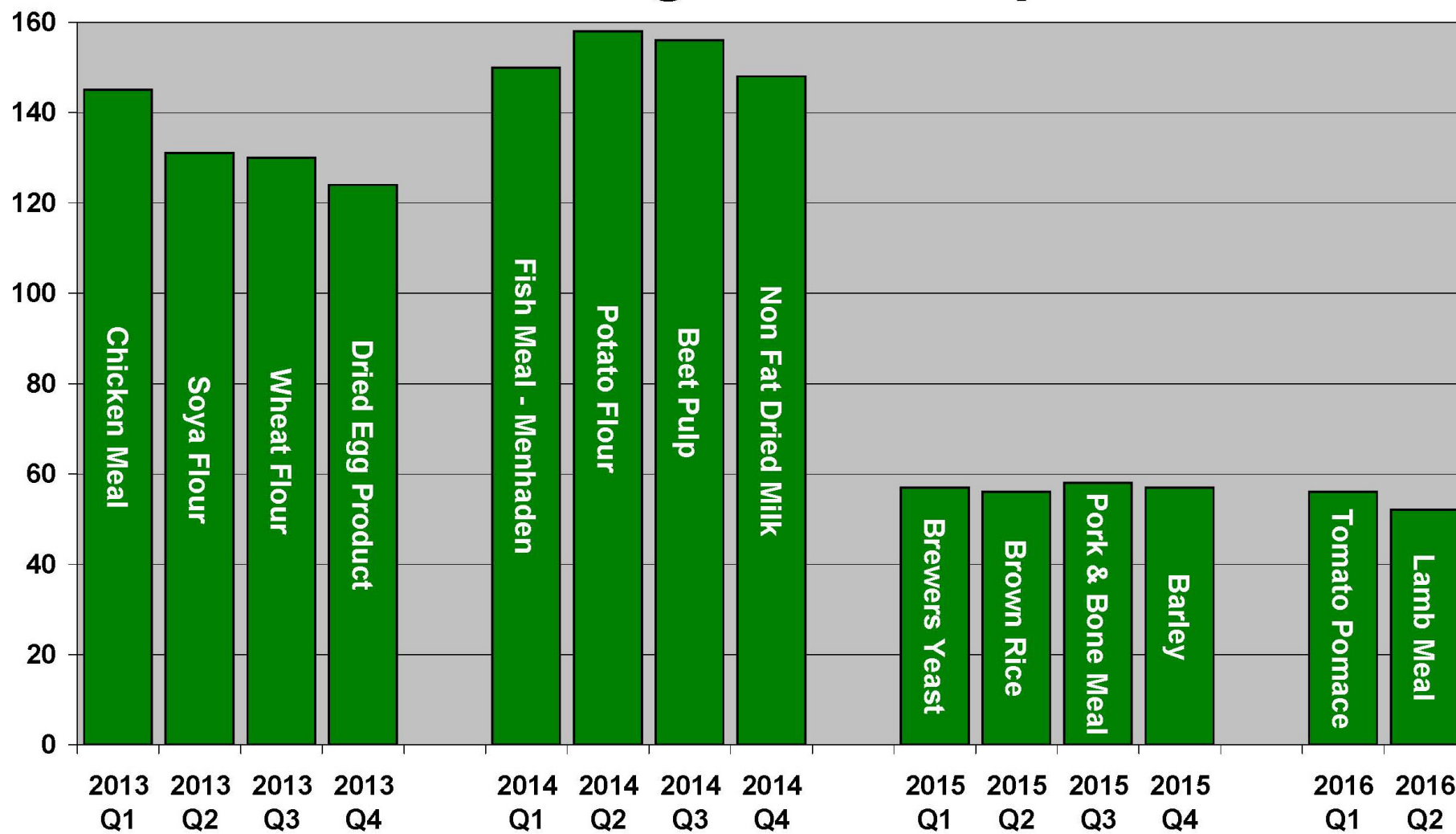
2015-16 Z-Cut Homogeneity Screen

Sample #	Sample Name	Pass Z-Cut %RSD	% Protein	# in Z-Cut
201527	Chick Starter, Medicated	0.54%	21.0	90
201528	Dog Food	1.16%	24.7	96
201529	Calf Feed, Medicated	0.85%	20.1	93
201530	Dairy Feed, Medicated	1.54%	15.7	91
201531	Distillers Dried Grains with Solubles	0.00%	26.4	91
201591	Swine Mineral and Vitamin Supplement	0.00%	27.1	81
201532	Fish Food	0.00%	32.1	83
201621	Cattle Feed Supplement	0.00%	39.8	73
201622	Lamb Feed, Medicated	0.00%	27.7	83
201623	Poultry Feed, Medicated	0.57%	19.7	84
201624	Goat Feed	0.00%	19.4	84
201625	Swine Feed, Medicated	0.00%	20.1	85
201626	Llama Feed	1.67%	17.5	87





Pet Food Program Participation



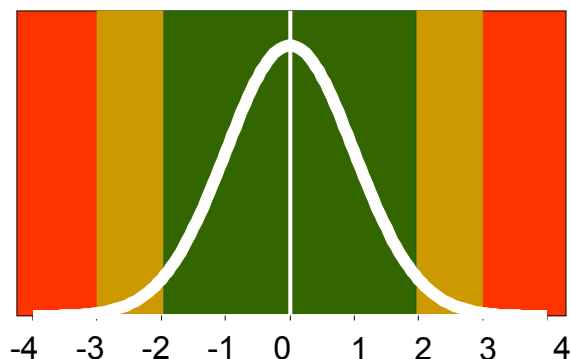


Pet Food Program

2015-16 Z-Cut Homogeneity Screen

Sample #	Sample Name	Pass Z-Cut %RSD	% Protein	# in Z-Cut
201541	Brewers Yeast	0.00%	45.9	29
201542	Brown Rice	0.00%	8.2	26
201543	Pork & Bone Meal	0.00%	49.6	30
201544	Barley	3.41%	10.6	32
201641	Tomato Pomace	0.00%	20.7	26
201642	Lamb Meal	0.00%	55.3	24





Z-Score Indications in RCSP and PFP

	2015 39,541 Tests	2016 to Date 17,511 Tests
Compliance $2 > Z > -2$	88.5%	90.0%
Warning	5.6%	4.9%
Actionable $3 < Z < -3$	5.9%	5.2%

Mycotoxin Program Samples

Trilogy sources the base feeds.



Materials thoroughly
processed with regard to
particle size and blending.



70,000 lb

Masters Collection

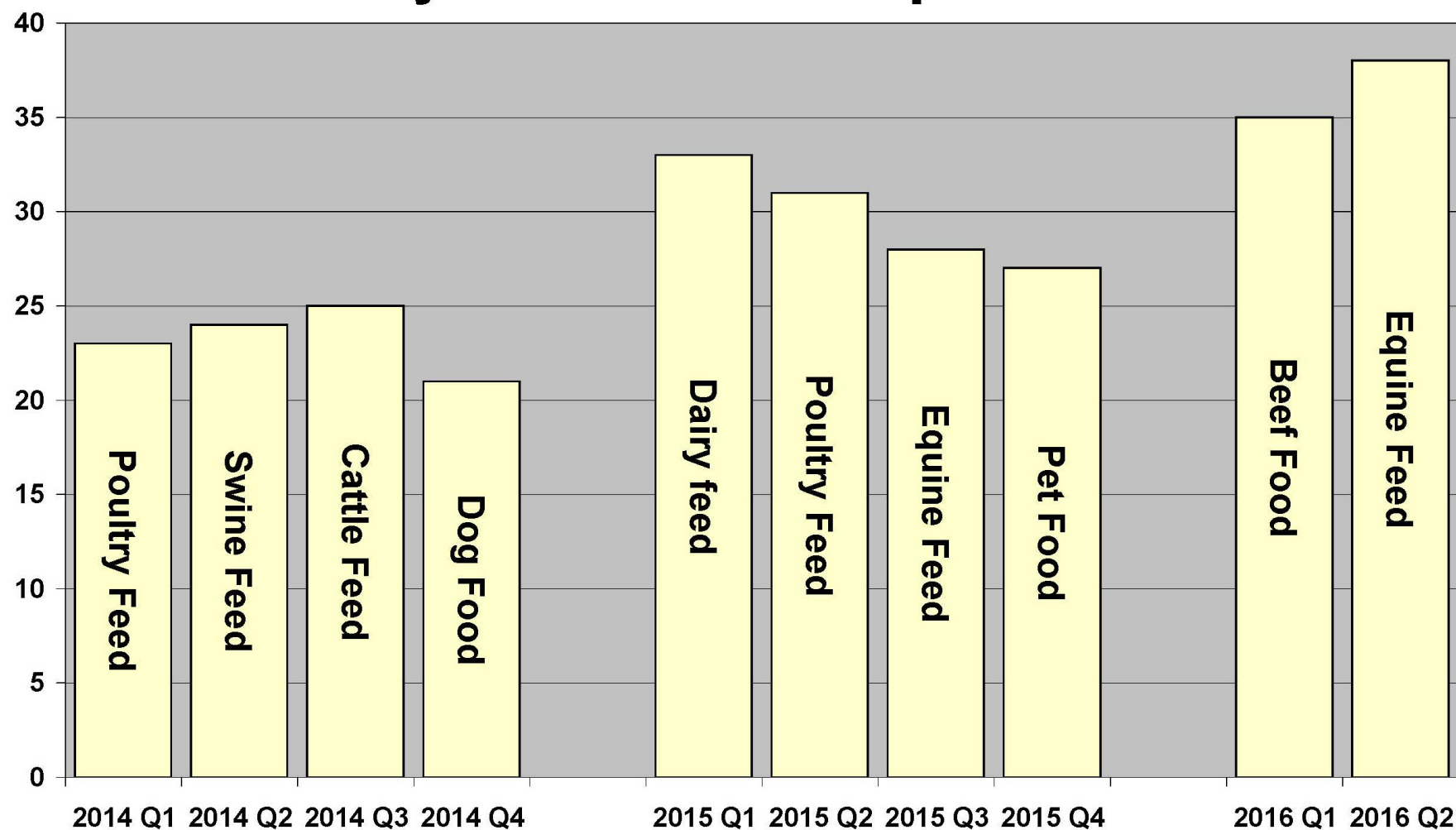
- Carefully sourced feeds naturally contaminated with Mycotoxins.
- Incubated to raise concentration.



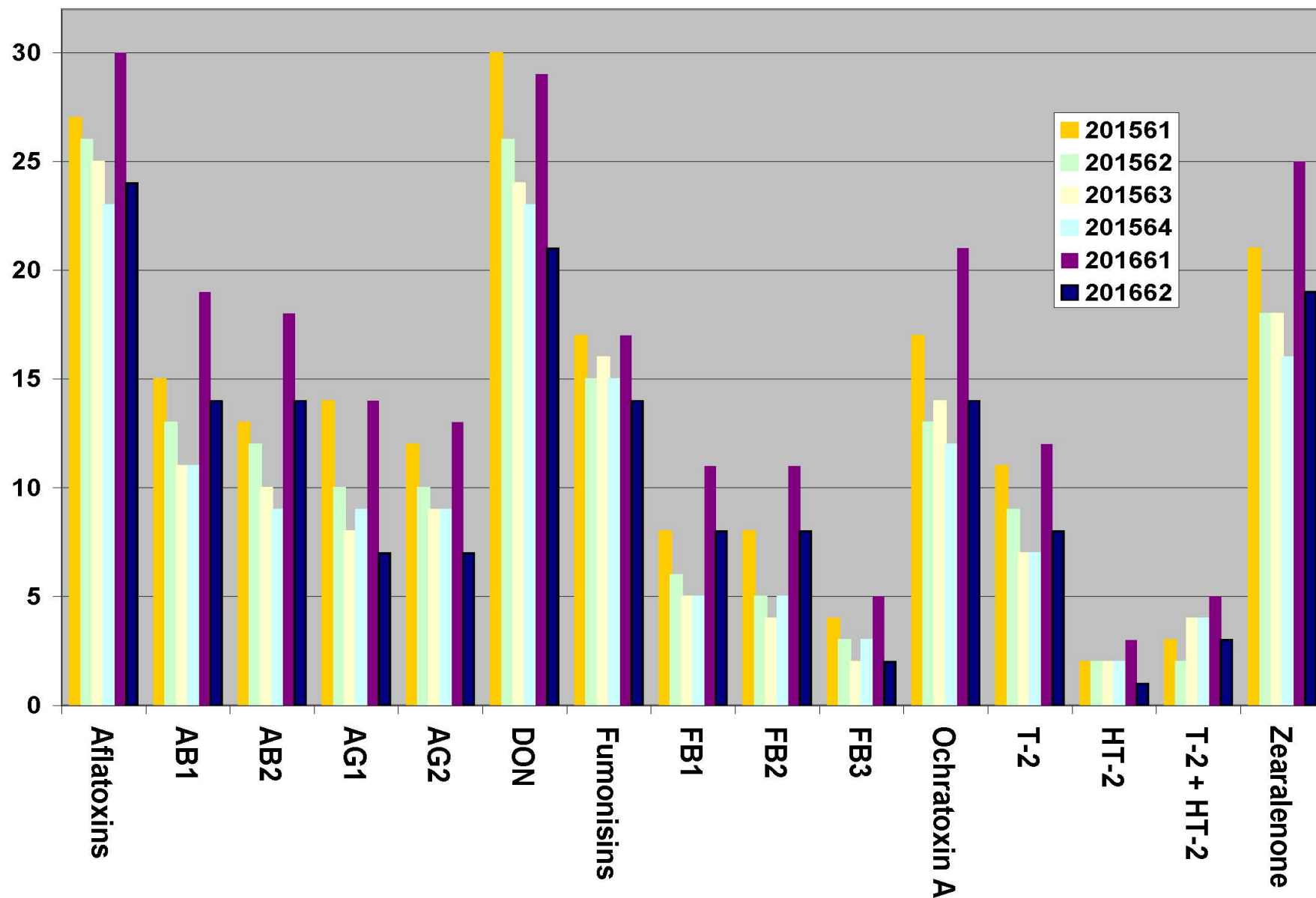
- Homogenous Samples for distribution.
- Certificate of Analysis and homogeneity data.



Mycotoxins Participation



Mycotoxin Analyte Participation



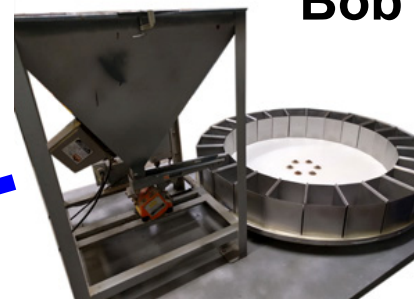
Minerals Program Sample Engineering

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

**Able Laboratory Inc.
Bob Kieffer**



Existing Minerals in base
feed established during
prior testing round.



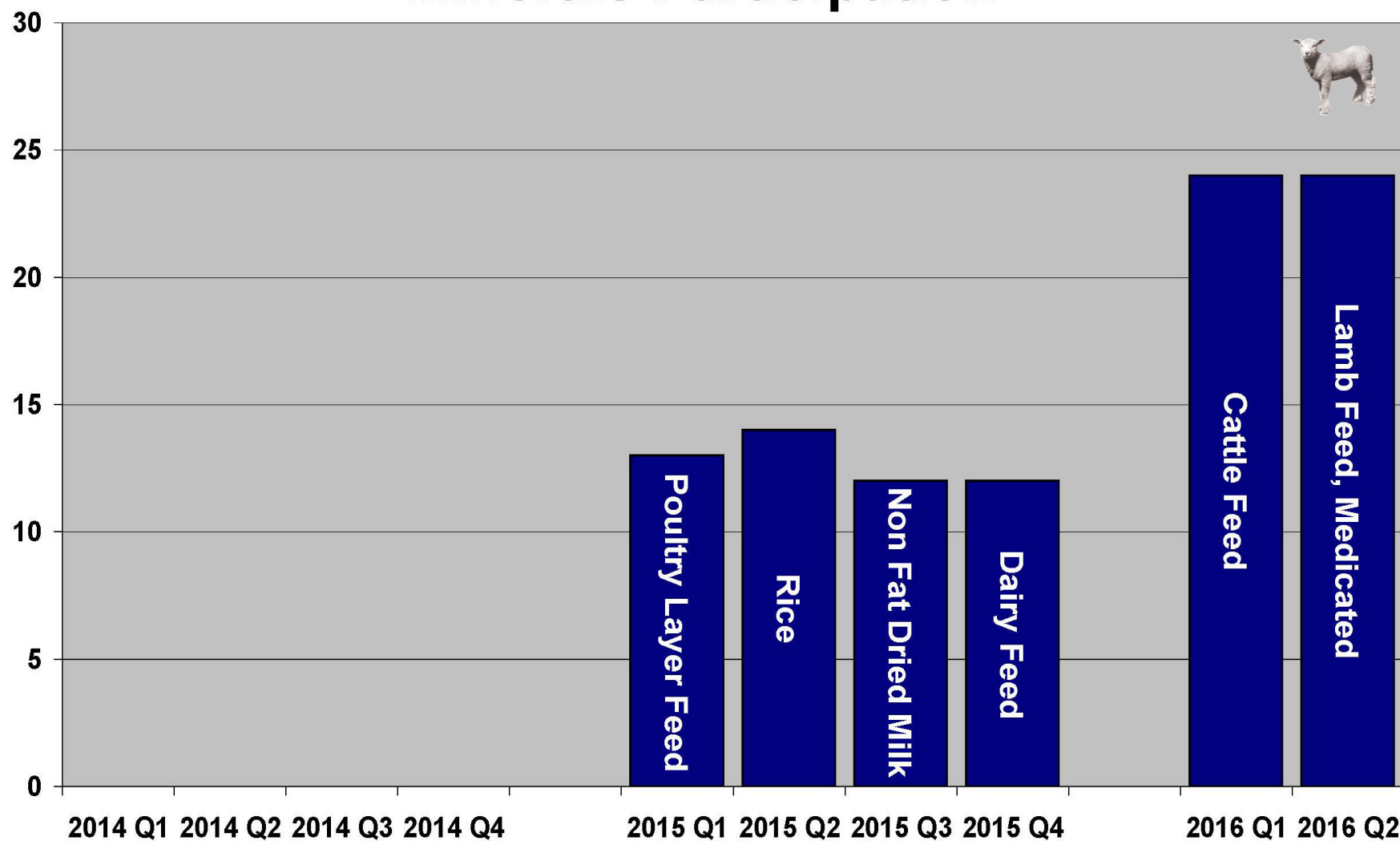
- Added Minerals solubilized and sprayed over existing pre-ground base feed prior to blending and sample portioning.
- Spike concentrations calculated.



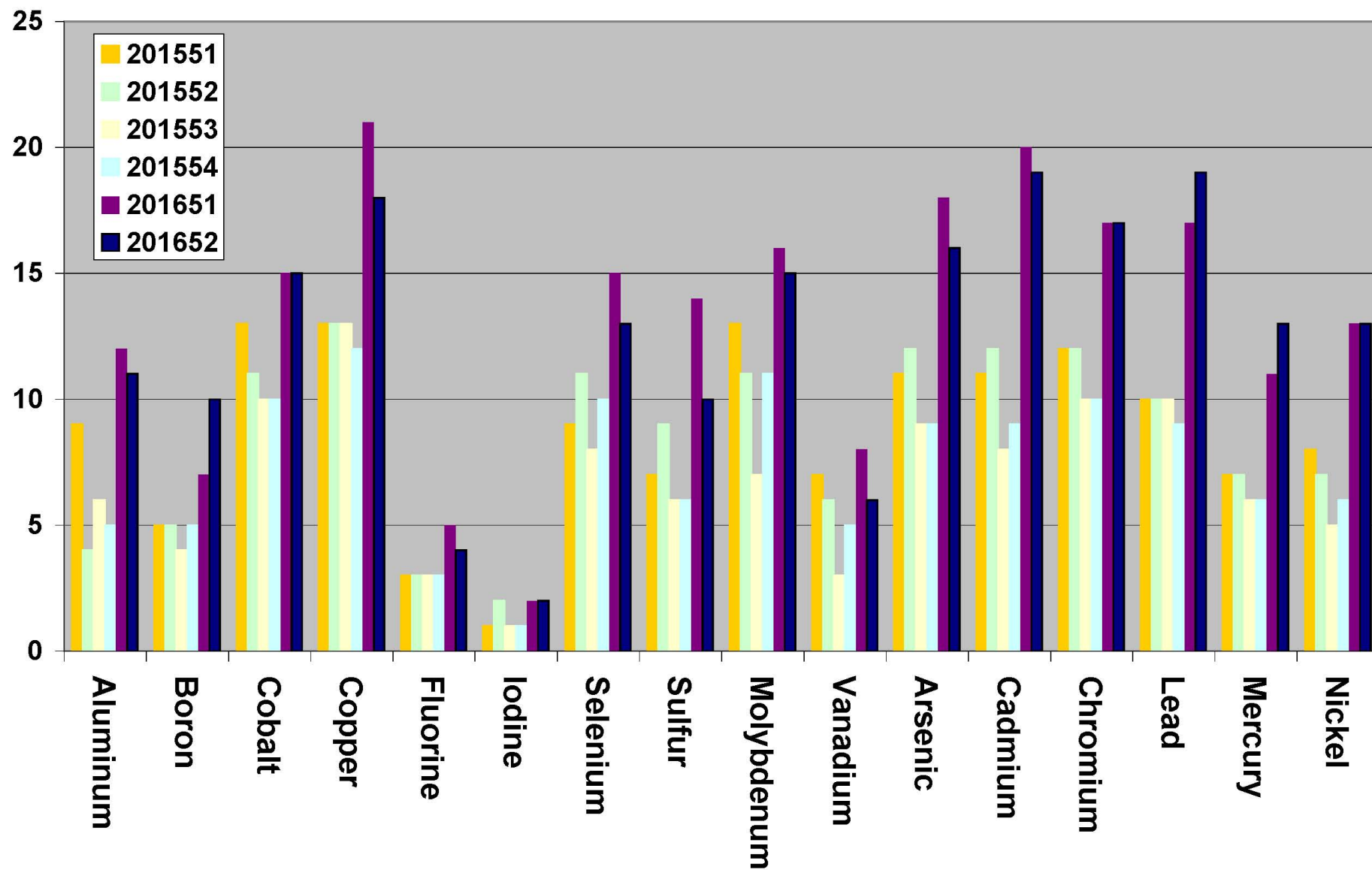
Homogenous Samples for distribution.



Minerals Participation



Minerals Program Analyte Participation





Minerals Program

Assigned Value by Formulation

When there are too few participants to provide a robust Assigned Value.



- AV = Base Sample C from prior PT + Calculated Spike
- This AV used to calculate Horwitz Fit for Purpose SD.
- AV and SD Presented in **Bold Blue**.
- Tentative Z Scores presented in **Grey**.

Method Group	Lamb Feed (201652) Analyte	Lab Code	Lab Data		Method Values				AAFCO CS Z Score	Your Method	Flag
			Value	Range	Rob X	Horwitz	R-bar	#			
023	Fluorine (mg / kg (ppm))	0619	35.300	1.8000	40.300	3.6960	1.2750		-1.35	023.01	0
023	Fluorine (mg / kg (ppm))	0208	39.950	1.9000	40.300	3.6960	1.2750		-0.09	023.01	0
023	Fluorine (mg / kg (ppm))	2033	43.100	0.0000	40.300	3.6960	1.2750		0.76	023.01	0
023	Fluorine (mg / kg (ppm))	0563	60.600	1.4000	40.300	3.6960	1.2750		5.49	023.01	0
024	Iodine (mg / kg (ppm))	0208	4.8850	0.8900	Base C Not Available		0.44500	2		024.99	0
024	Iodine (mg / kg (ppm))	2033	65.300	0.0000			0.44500	2		024.53	0
041	Vanadium (mg / kg (ppm))	0098	0.41350	0.0430	0.66600	0.11326	0.01400		-2.23	041.43	0
041	Vanadium (mg / kg (ppm))	0047	0.42000	0.0000	0.66600	0.11326	0.01400		-2.17	041.52	0
041	Vanadium (mg / kg (ppm))	0553	0.44950	0.0070	0.66600	0.11326	0.01400		-1.91	041.53	0
041	Vanadium (mg / kg (ppm))	0278	0.71500	0.0100	0.66600	0.11326	0.01400		0.43	041.43	0
041	Vanadium (mg / kg (ppm))	0563	0.83500	0.0100	0.66600	0.11326	0.01400		1.49	041.34	0
041	Vanadium (mg / kg (ppm))	0619	0.00000	0.0000	0.66600	0.11326	0.01400		-5.88	041.41	4



Newest Program Learning Curve

Example: Mercury in Cattle Feed (201651)

Method Group	Analyte Group (Units)	201651	Lab Code	Lab Data		Method Values				AAFCO CS Z Score	Your Method	Flag
				Value	Range	Rob Mean	Horwitz SD	R-bar	# Labs			
529	Mercury (µg / kg (ppb))		0098	35.000	10.000	58.482	12.866	3.7375	8	-1.83	529.00	0
529	Mercury (µg / kg (ppb))		2033	43.000	4.0000	58.482	12.866	3.7375	8	-1.20	529.99	0
529	Mercury (µg / kg (ppb))		0208	50.450	1.7000	58.482	12.866	3.7375	8	-0.62	529.99	0
529	Mercury (µg / kg (ppb))		0644	51.000	0.00000	58.482	12.866	3.7375	8	-0.58	529.99	0
529	Mercury (µg / kg (ppb))		0553	51.100	4.2000	58.482	12.866	3.7375	8	-0.57	529.99	0
529	Mercury (µg / kg (ppb))		0918	61.000	10.000	58.482	12.866	3.7375	8	0.20	529.99	0
529	Mercury (µg / kg (ppb))		0563	84.000	0.00000	58.482	12.866	3.7375	8	1.98	529.99	0
529	Mercury (µg / kg (ppb))		0425	178.00	0.00000	58.482	12.866	3.7375	8	9.29	529.00	0
529	Mercury (µg / kg (ppb))		0227	0.04100	0.00200	58.482	12.866	3.7375	8	-4.54	529.99	3
529	Mercury (µg / kg (ppb))		0010	0.05550	0.00300	58.482	12.866	3.7375	8	-4.54	529.99	3
529	Mercury (µg / kg (ppb))		0047	0.09300	0.01000	58.482	12.866	3.7375	8	-4.54	529.99	3

3 Labs reporting
ppm not **ppb** ??

I flagged them as not
used in calculations!!

Newest Program Learning Curve

- Number of labs participating is improving.
 - Assigned Values from Robust Mean.
 - Formulation not used much.
 - Reporting Units still a bit problematic.
 - Number of bizarre data points decreasing.
-

A scenic landscape featuring a vibrant sunset over a range of mountains. The sky is filled with streaks of orange, red, and purple. In the foreground, a field of wildflowers in shades of blue, red, and yellow is visible. The text is overlaid on the middle of the image.

**All 4 Programs Running Smoothly
Participant Growth in New Programs
Questions?**

AAFCO
Check Sample Program