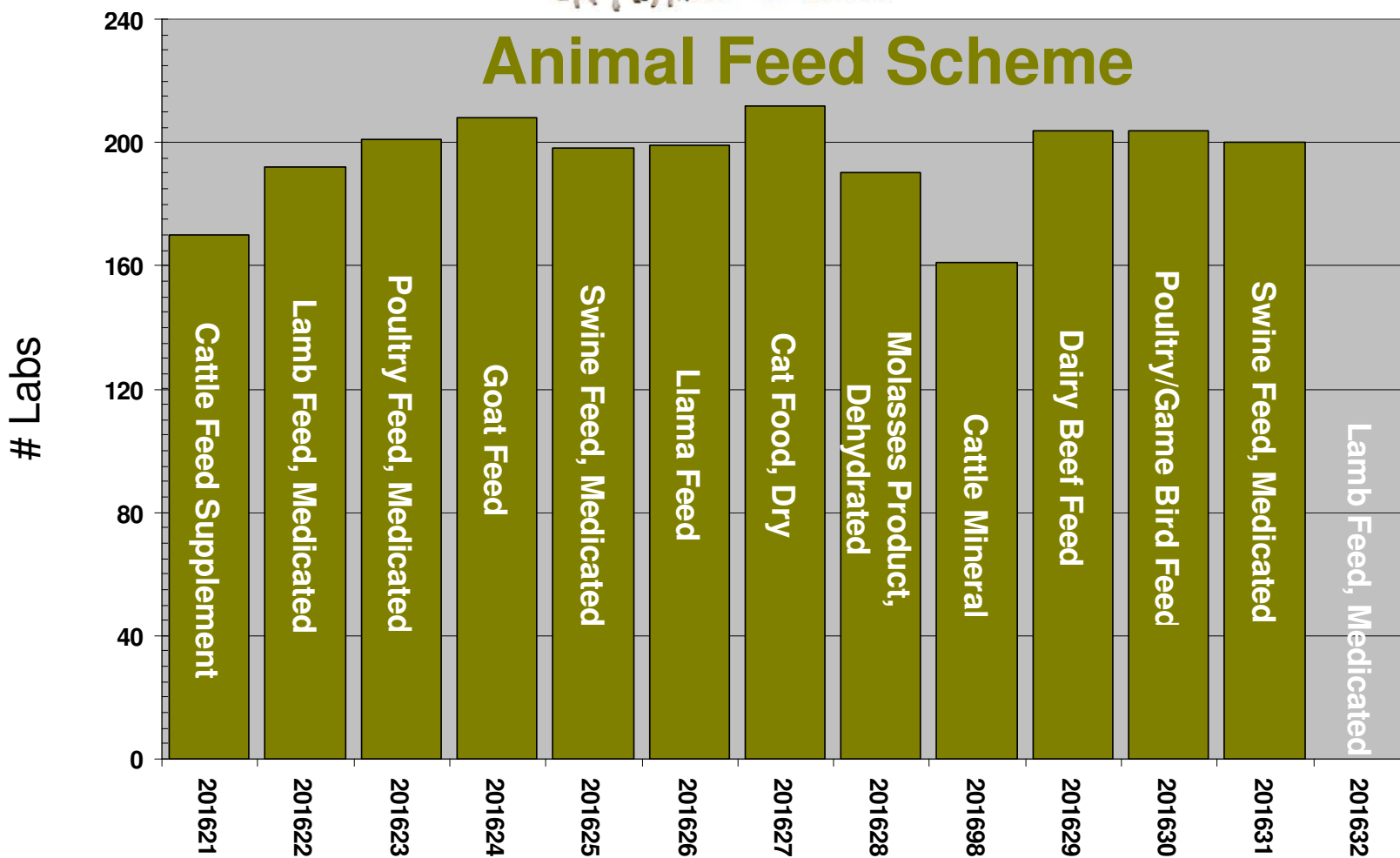


AAFCO Proficiency Testing Program: 2016 Participation



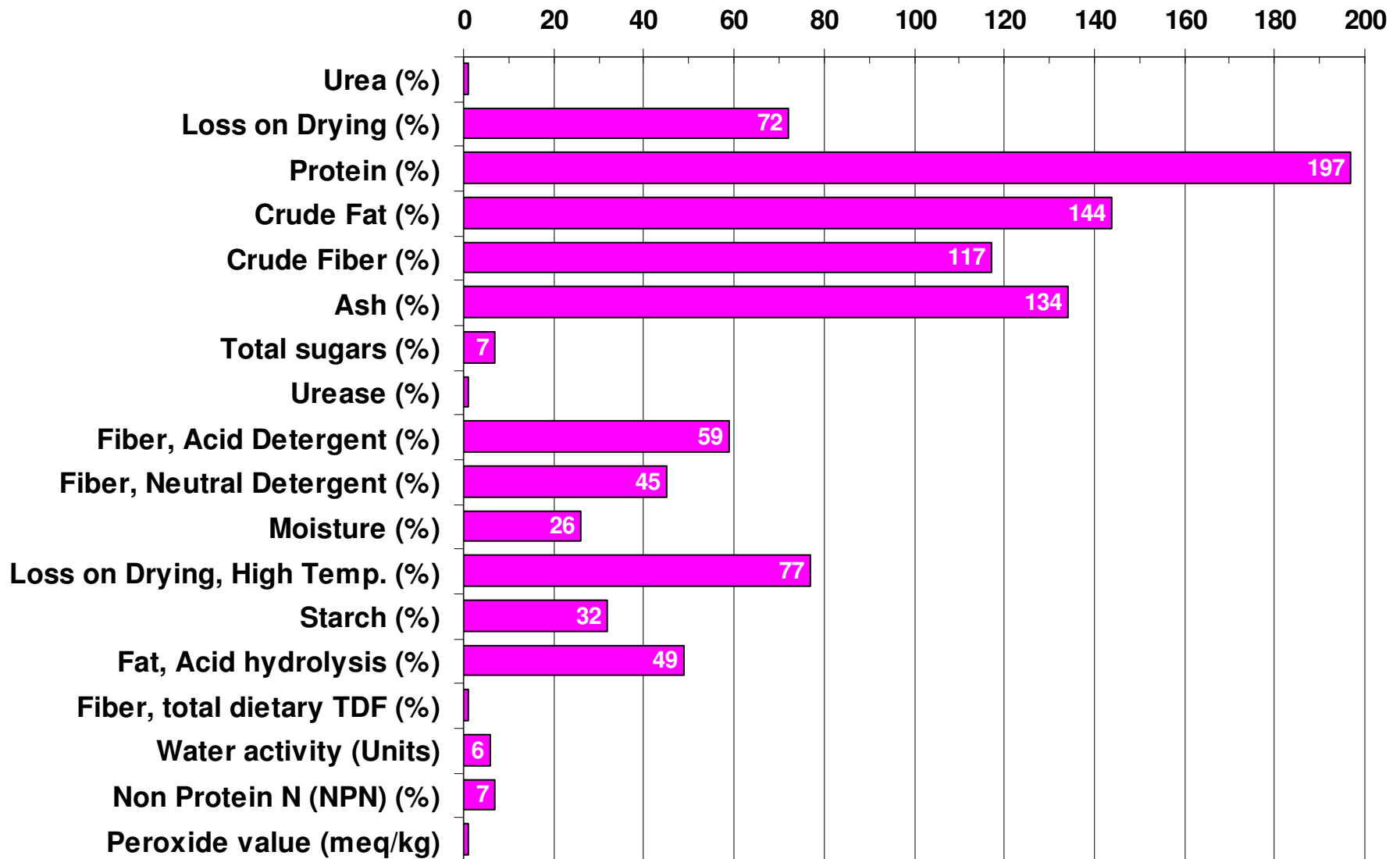


Animal Feed Scheme



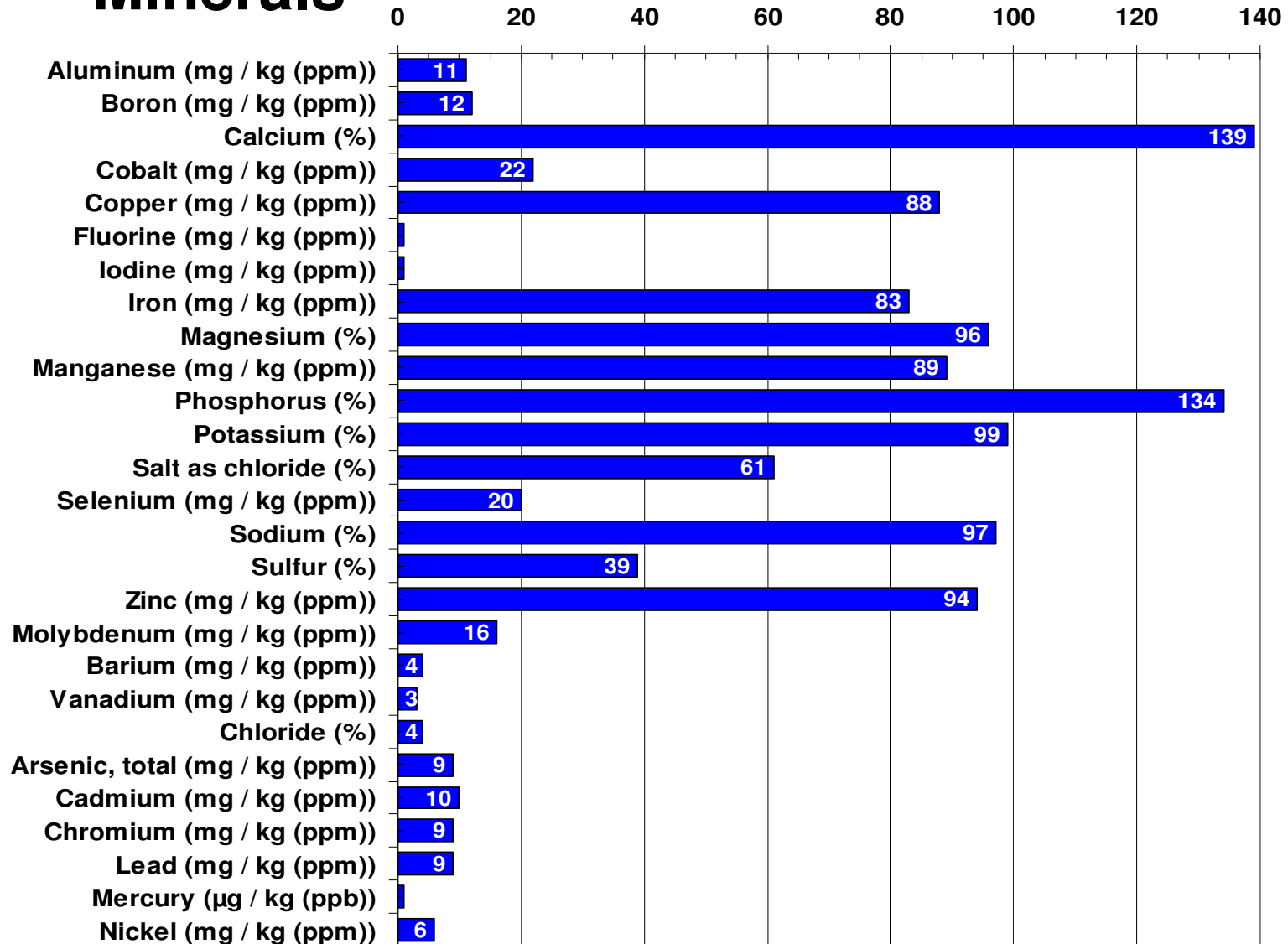
AFS Analyte Participation: Median Labs Per Sample

Proximates



AFS Analyte Participation: Median Labs Per Sample

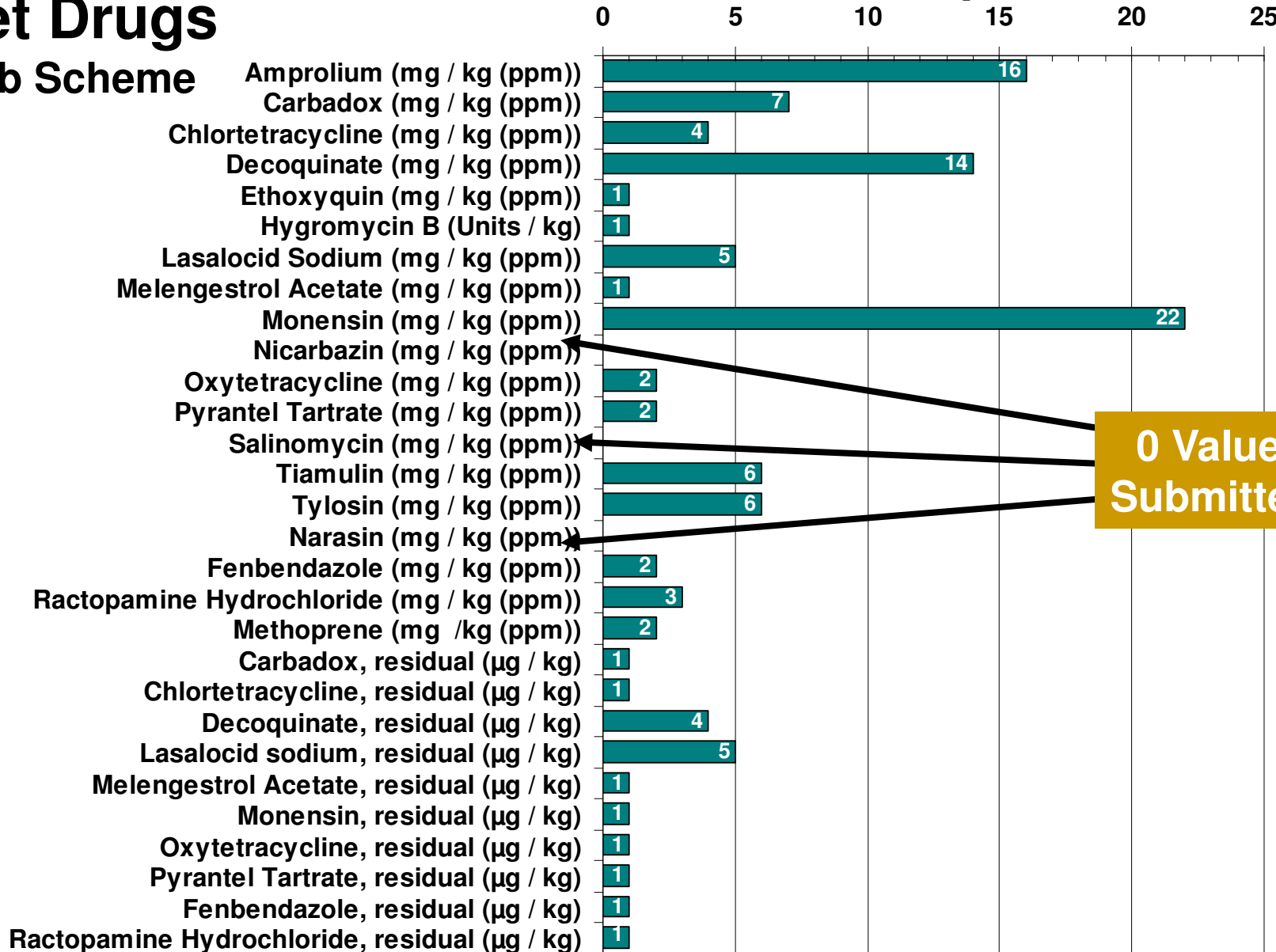
Minerals



AFS Analyte Participation: Median Labs Per Sample

Vet Drugs

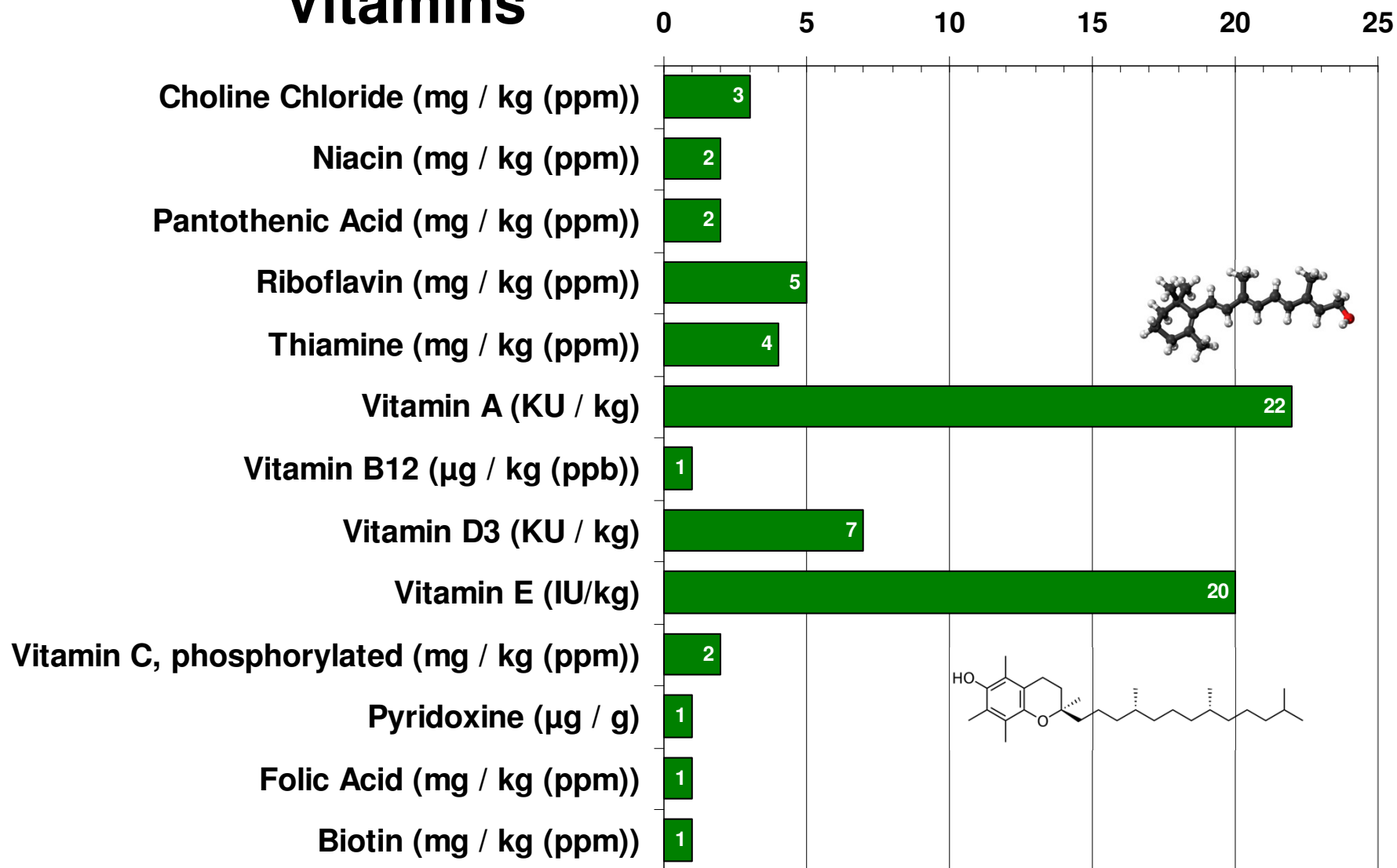
Sub Scheme



**0 Values
Submitted**

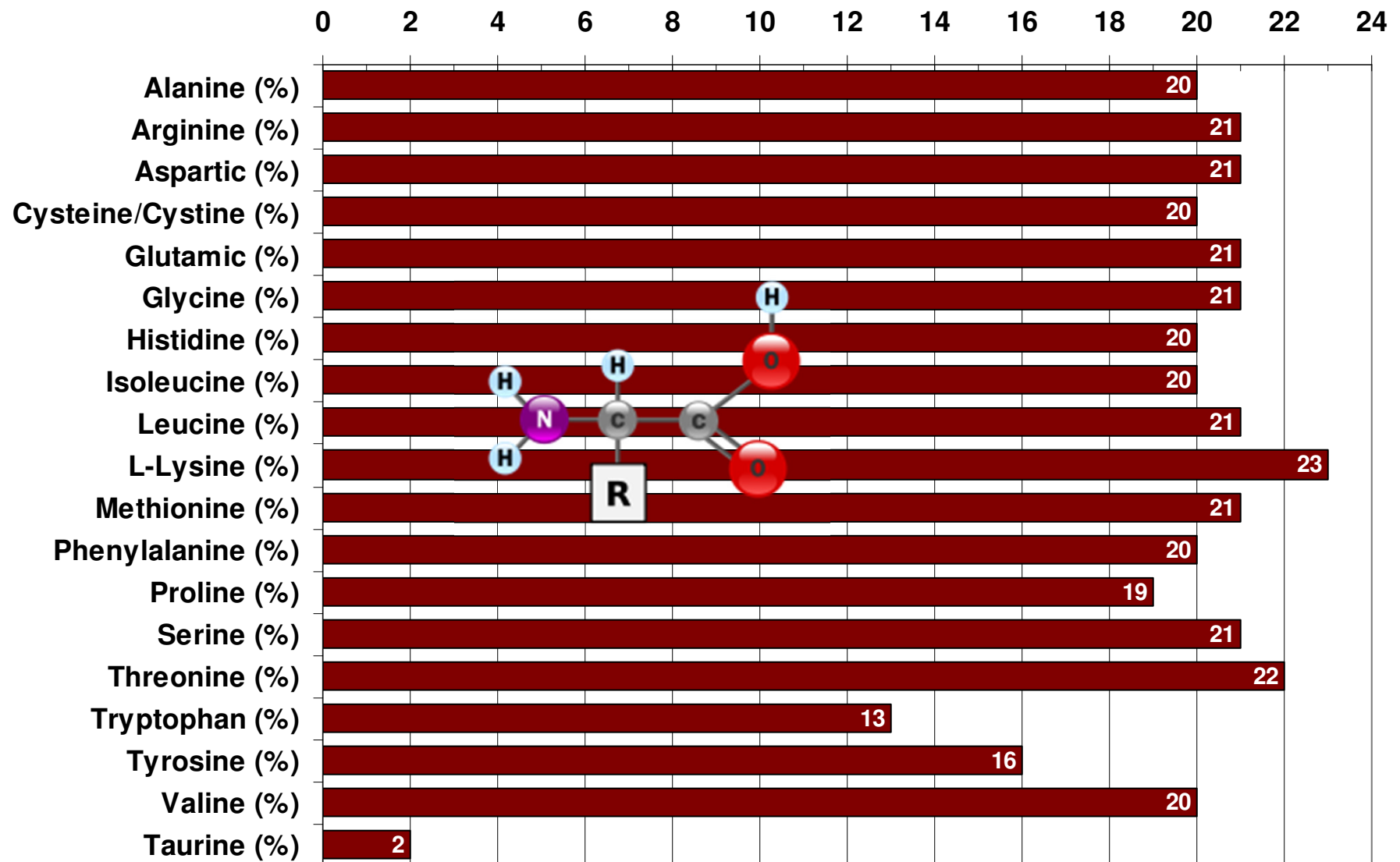
AFS Analyte Participation: Median Labs Per Sample

Vitamins

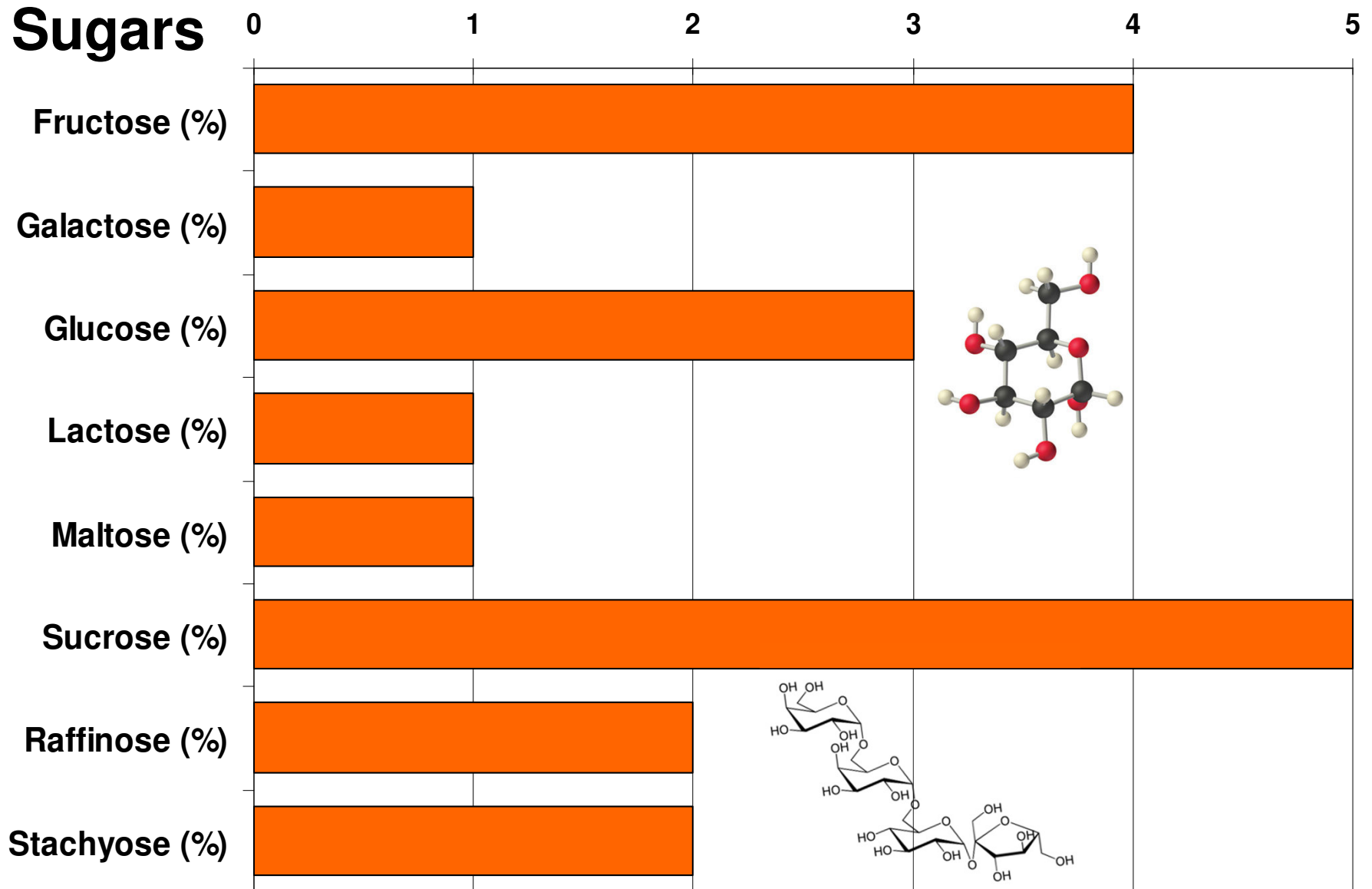


AFS Analyte Participation: Median Labs Per Sample


Amino Acids



AFS Analyte Participation: Median Labs Per Sample



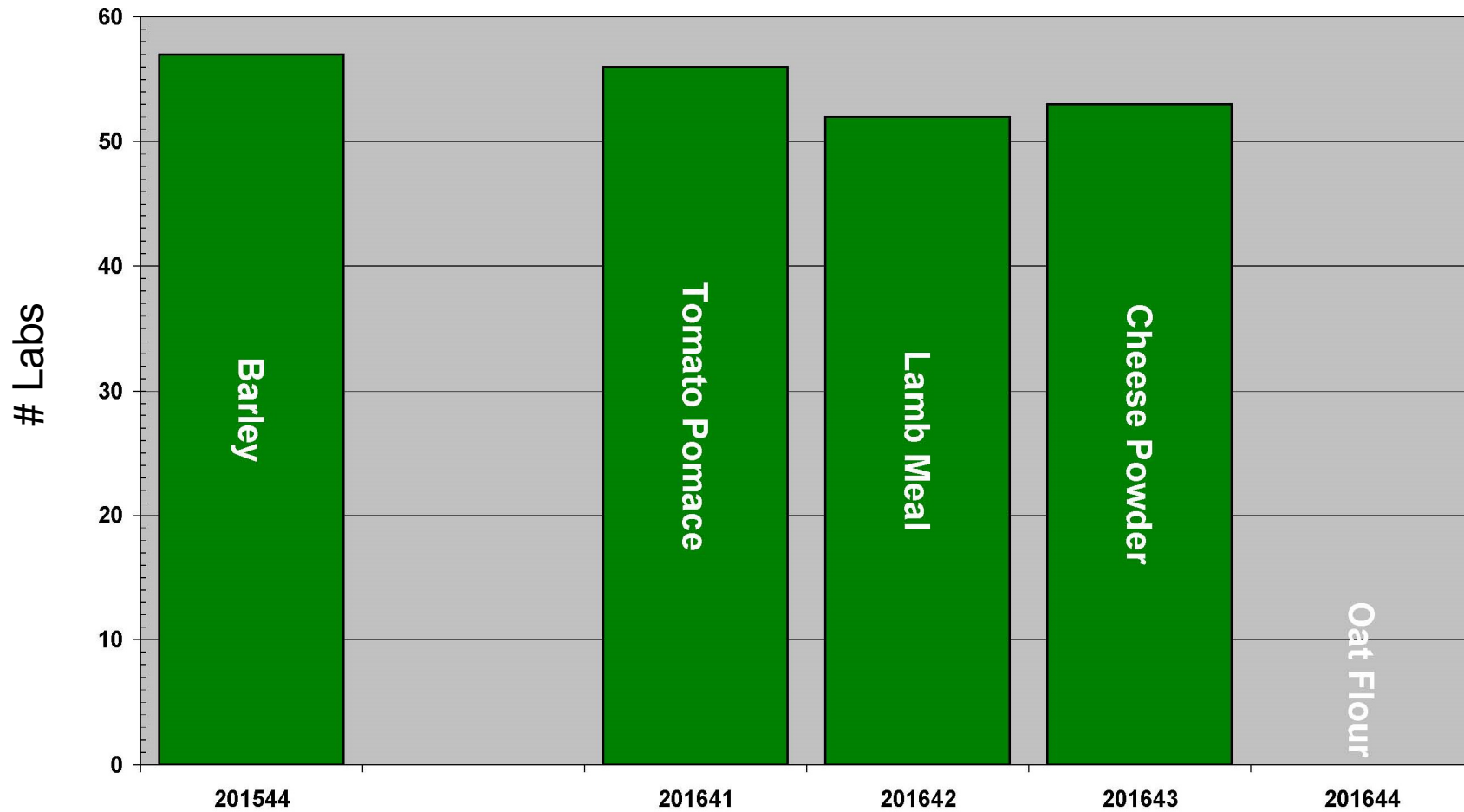
Animal Feed Scheme 2016 Z-Cut Homogeneity Screen

Sample #	Sample Name	Pass Z-Cut %RSD	% Protein	# in Z-Cut
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
201627	Cat Food, Dry	0.52%	33.6	88
201628	Molasses Product, Dehydrated		9.37	80
201698	Cattle Mineral	0.38%	1.73	20
201629	Dairy Beef Feed	0.00%	30.6	91
201630	Poultry/Game Bird Feed	0.00%	27.9	92
201631	Swine Feed, Medicated	0.00%	20.8	82
201632	Lamb Feed, Medicated	-	-	-



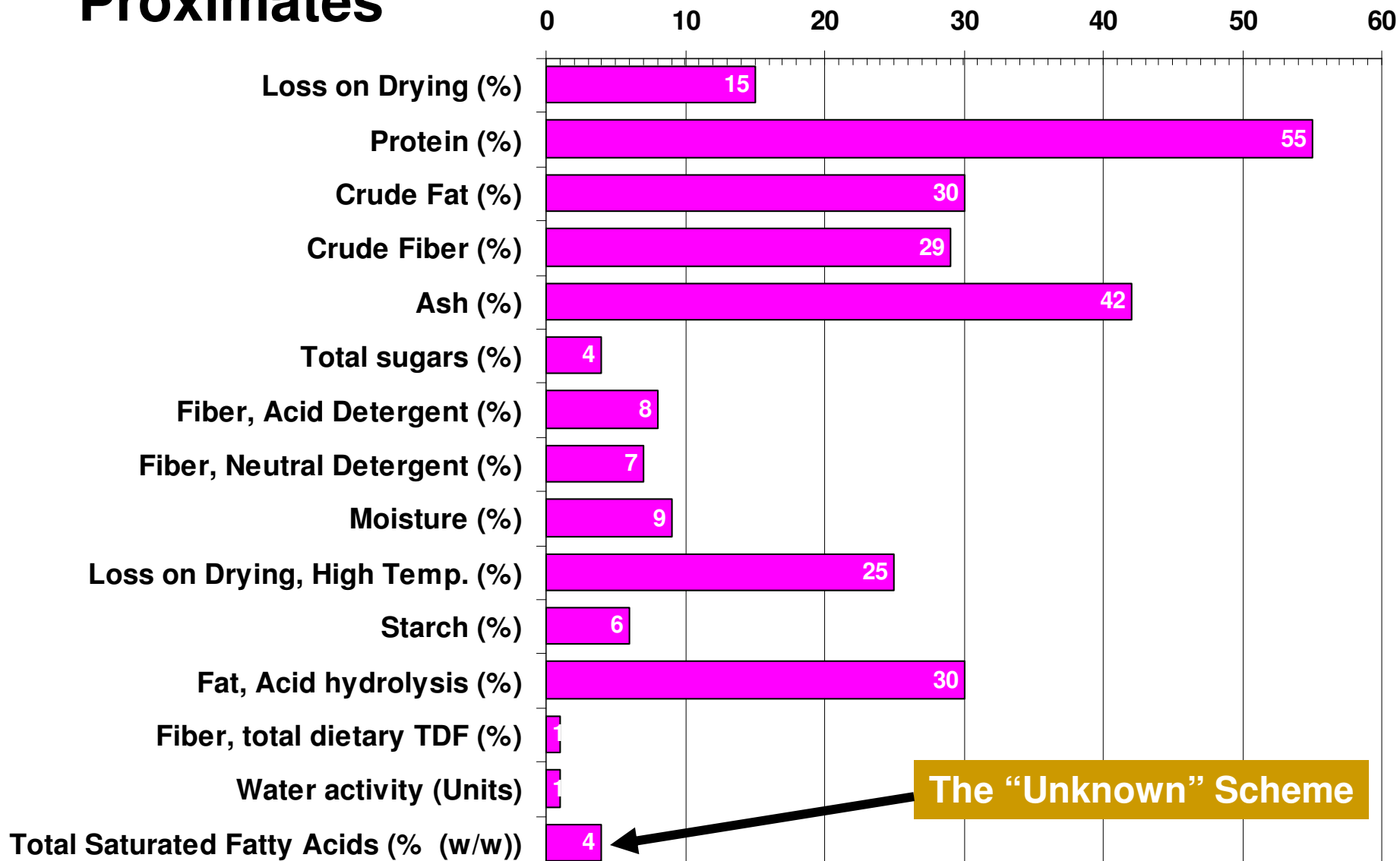


Pet Food Scheme Participation



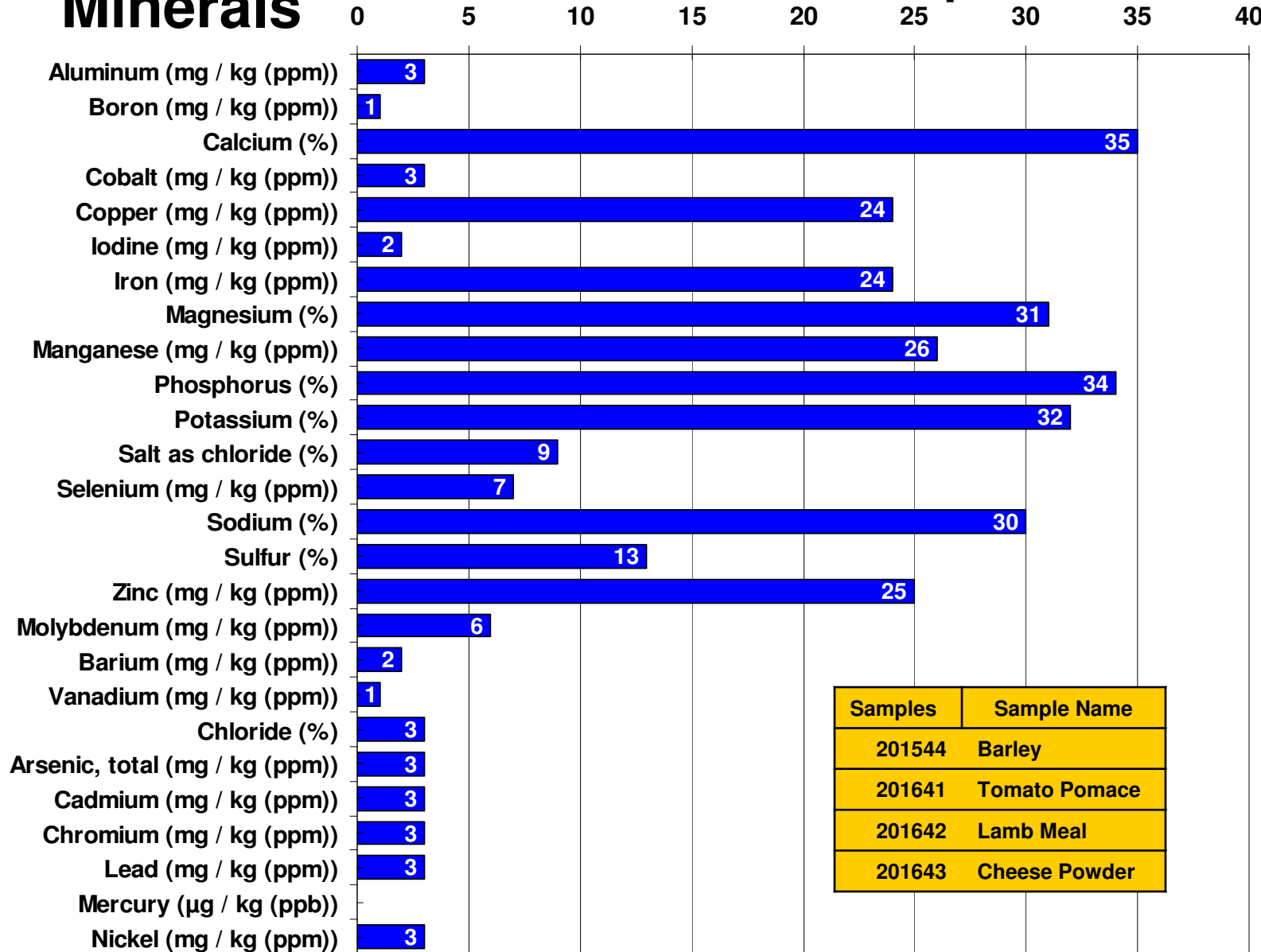
PFS Analyte Participation: Median Labs Per Sample

Proximates



PFS Analyte Participation: Median Labs Per Sample

Minerals



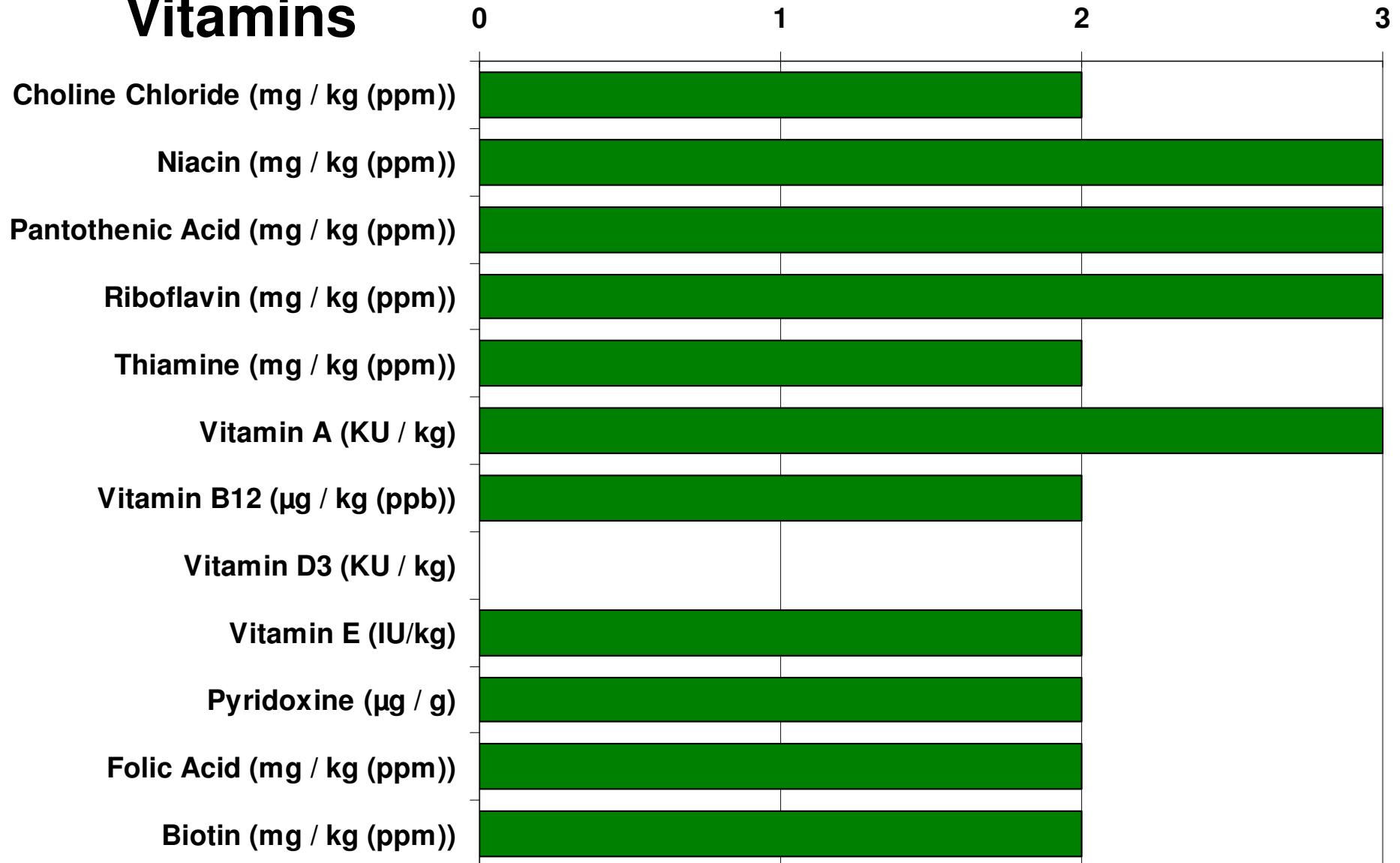
Samples	Sample Name
201544	Barley
201641	Tomato Pomace
201642	Lamb Meal
201643	Cheese Powder

NO VET DRUGS!

But they are available in the DRW !!!

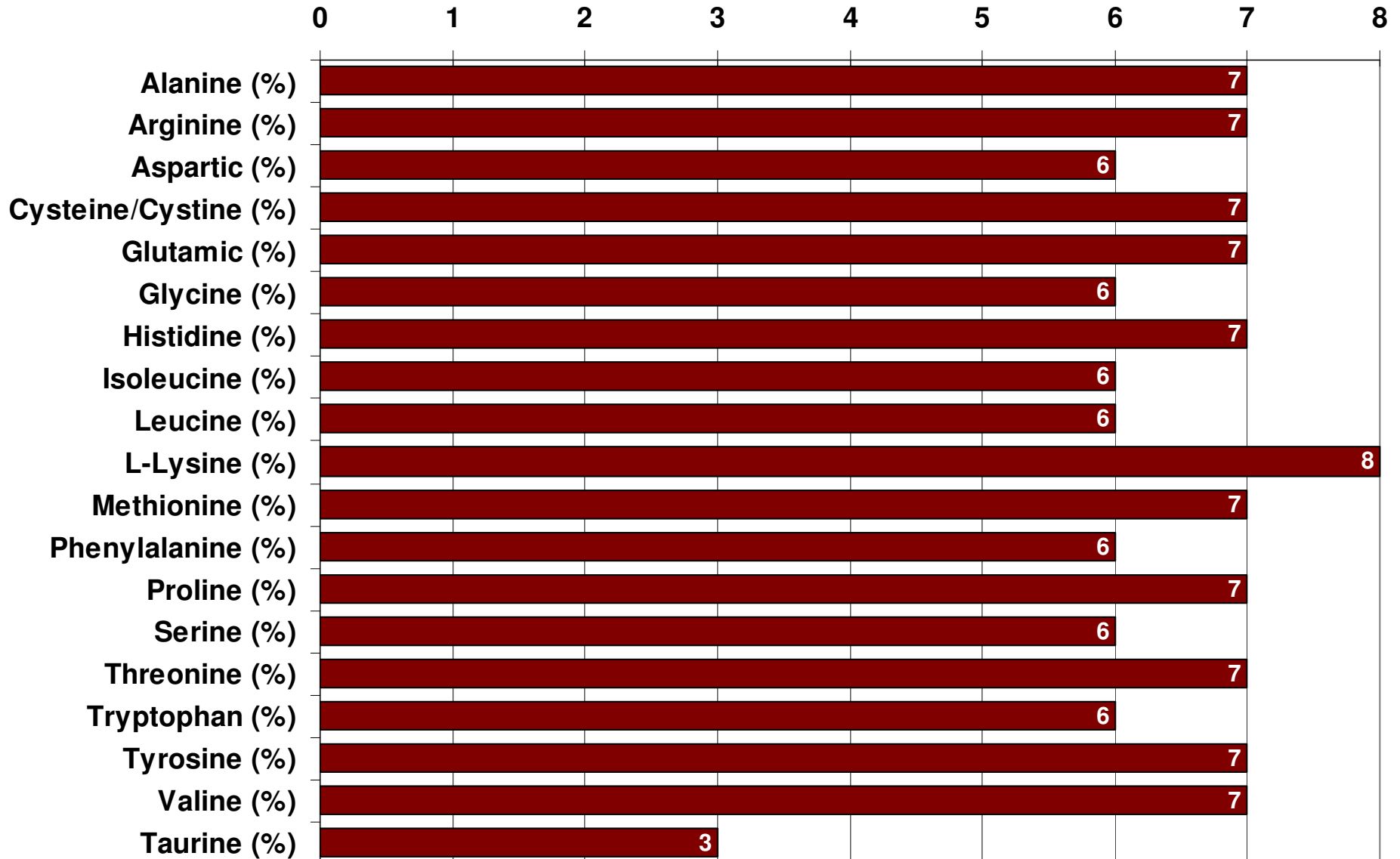
PFS Analyte Participation: Median Labs Per Sample

Vitamins

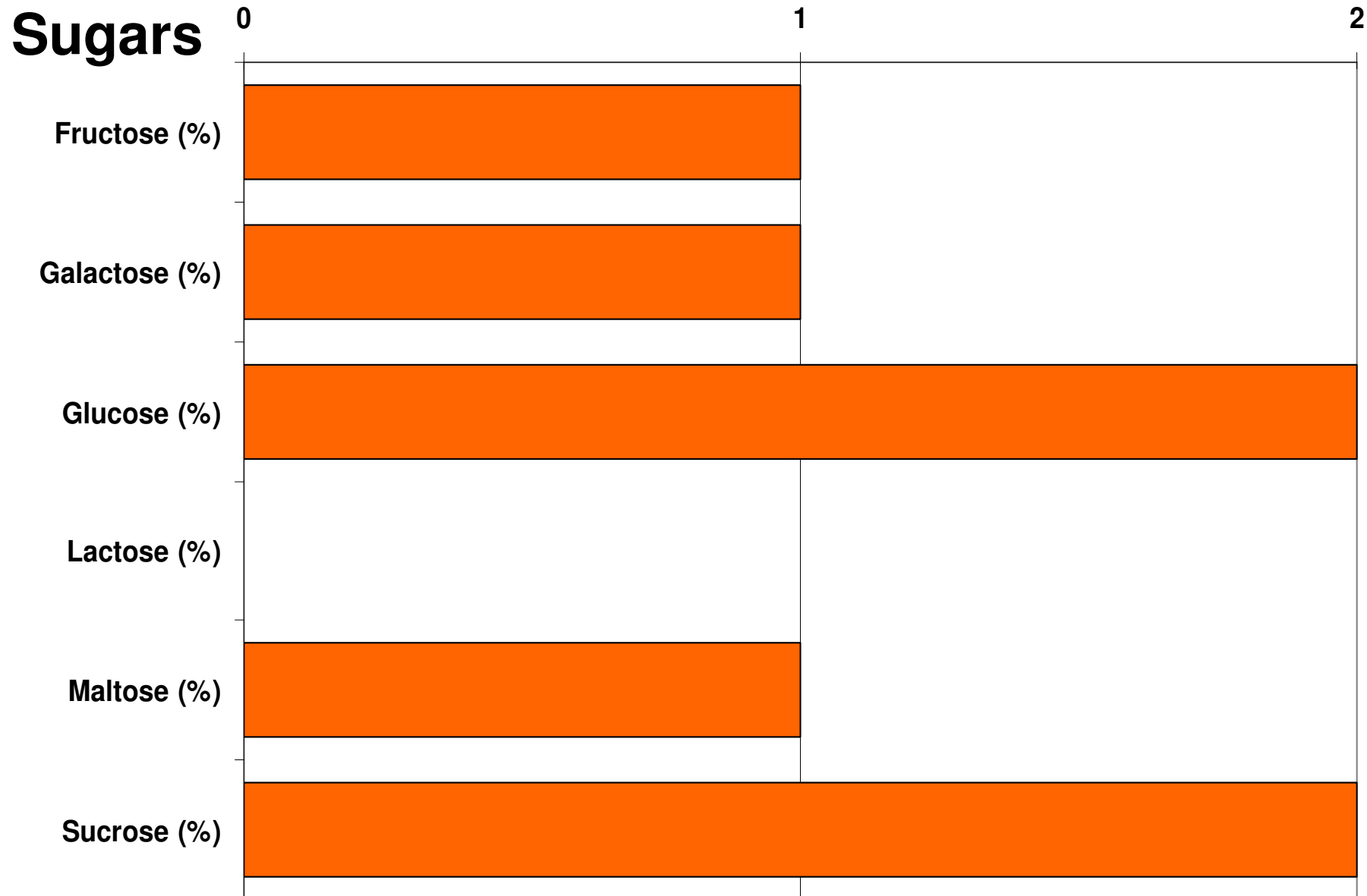


PFS Analyte Participation: Median Labs Per Sample

Amino Acids




PFS Analyte Participation: Median Labs Per Sample



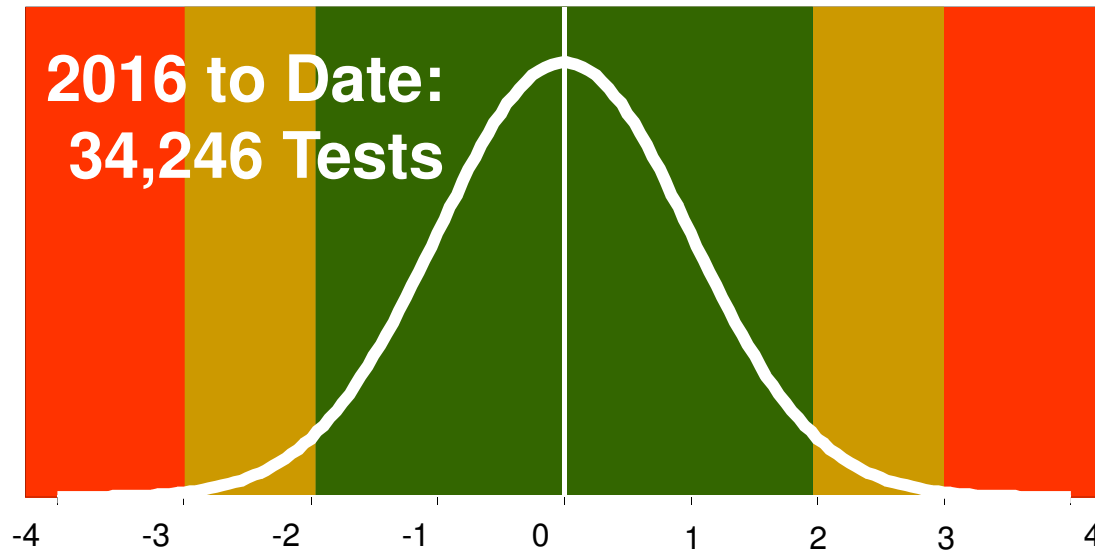


Pet Food Scheme 2015-16 Z-Cut Homogeneity Screen

Sample #	Sample Name	Pass Z-Cut % PSD	% Protein	# in Z-Cut
201544	Barley		10.6	32
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	-	-	-



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



<p>Compliance $2 > Z > -2$</p>	<p>Warning</p>	<p>Actionable $3 < Z < -3$</p>
<p>90.2%</p>	<p>4.6%</p>	<p>5.2%</p>

Mycotoxin Scheme Sample Engineering

Trilogy sources the base feeds.



Materials thoroughly processed with regard to particle size and blending.



70,000 lb

Masters Collection

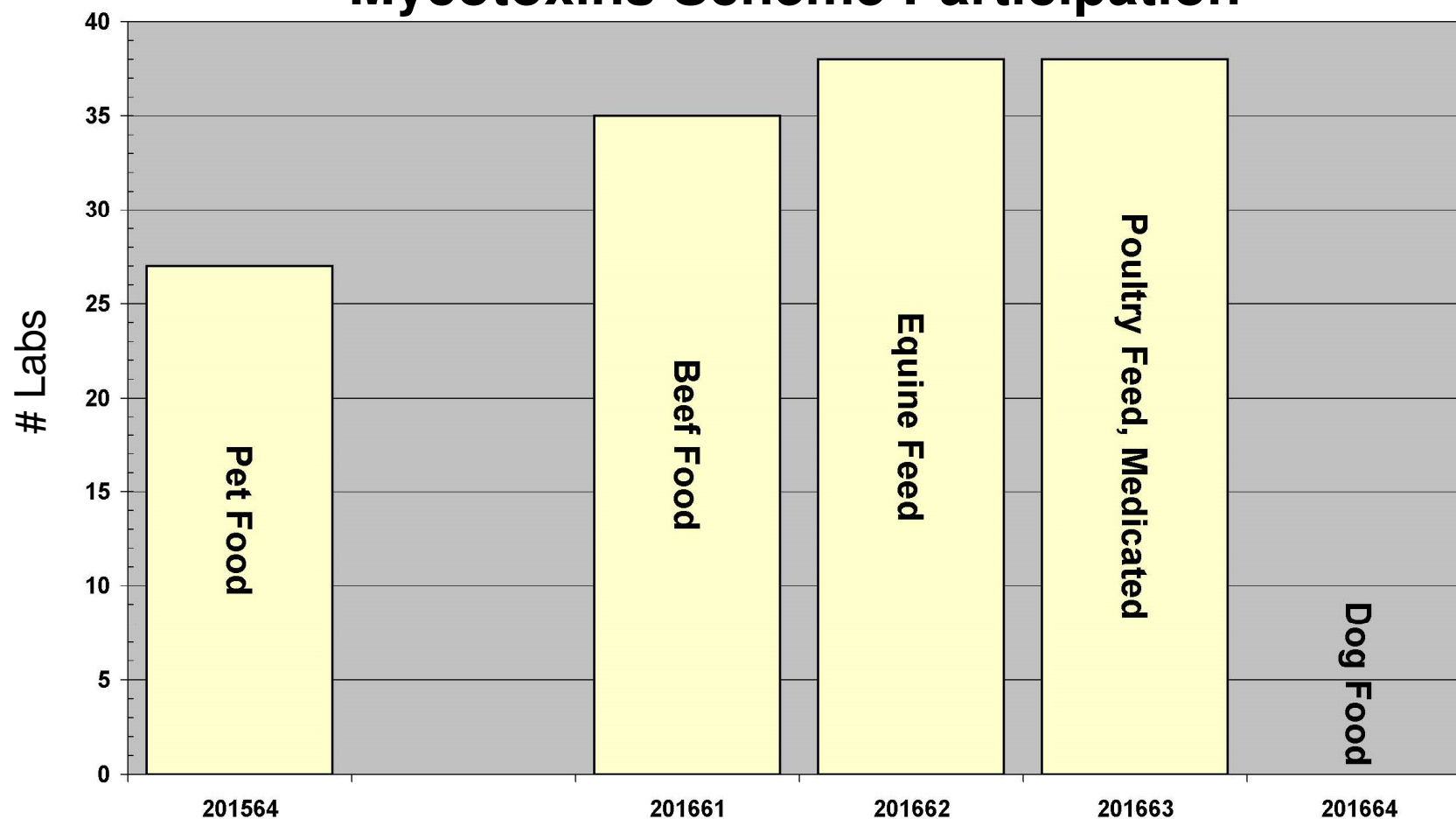
- Carefully sourced feeds naturally contaminated with Mycotoxins.
- Incubated to raise concentration.



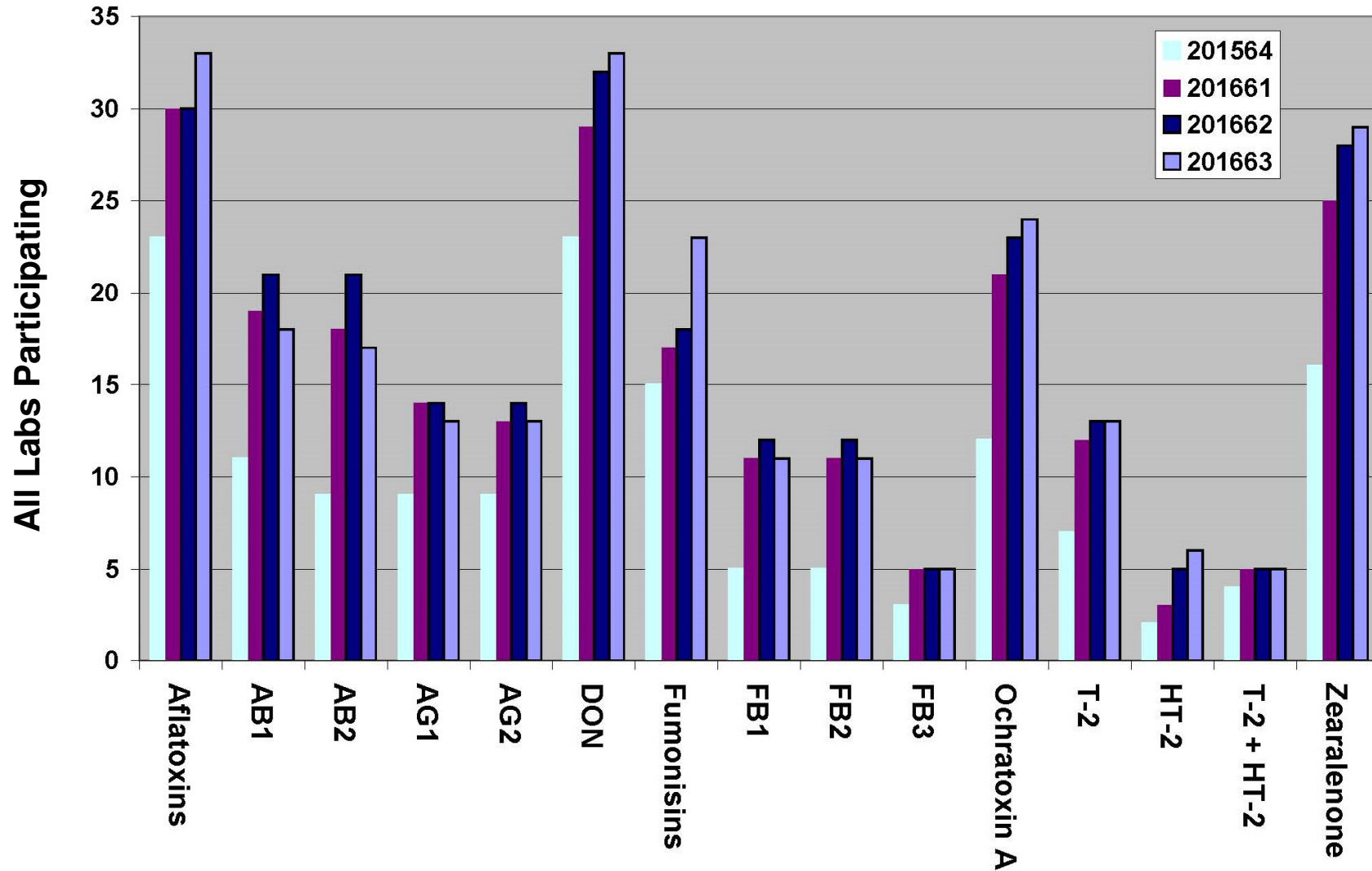
- Homogenous Samples for distribution.
- Certificate of Analysis and homogeneity data.



Mycotoxins Scheme Participation



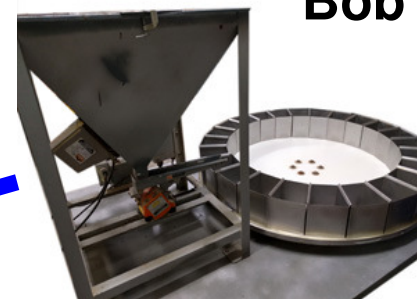
Mycotoxin Analyte Participation



Minerals Scheme 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.

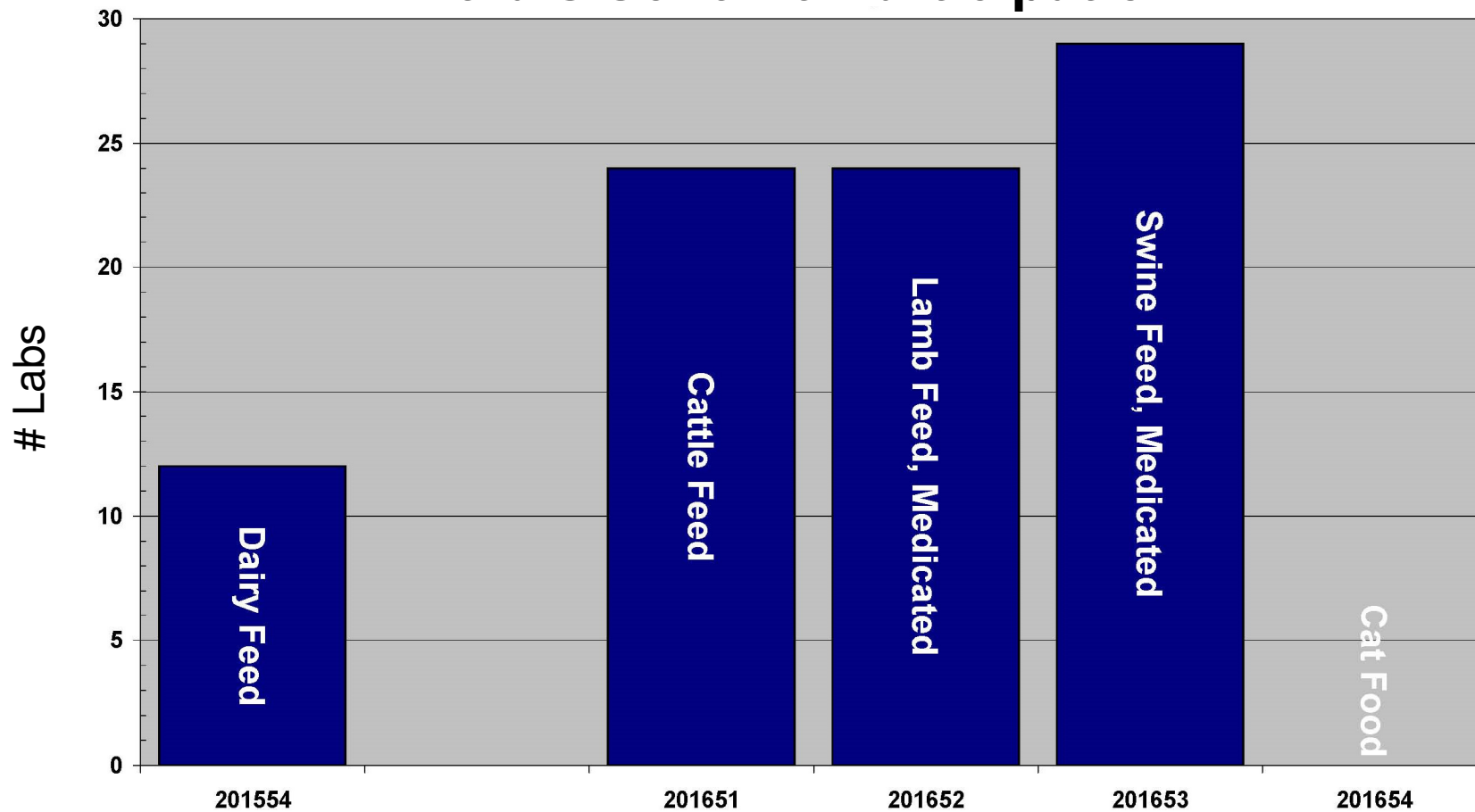
- Added Minerals solubilized and sprayed over existing pre-ground base feed prior to blending and sample portioning.
- Spike concentrations calculated.



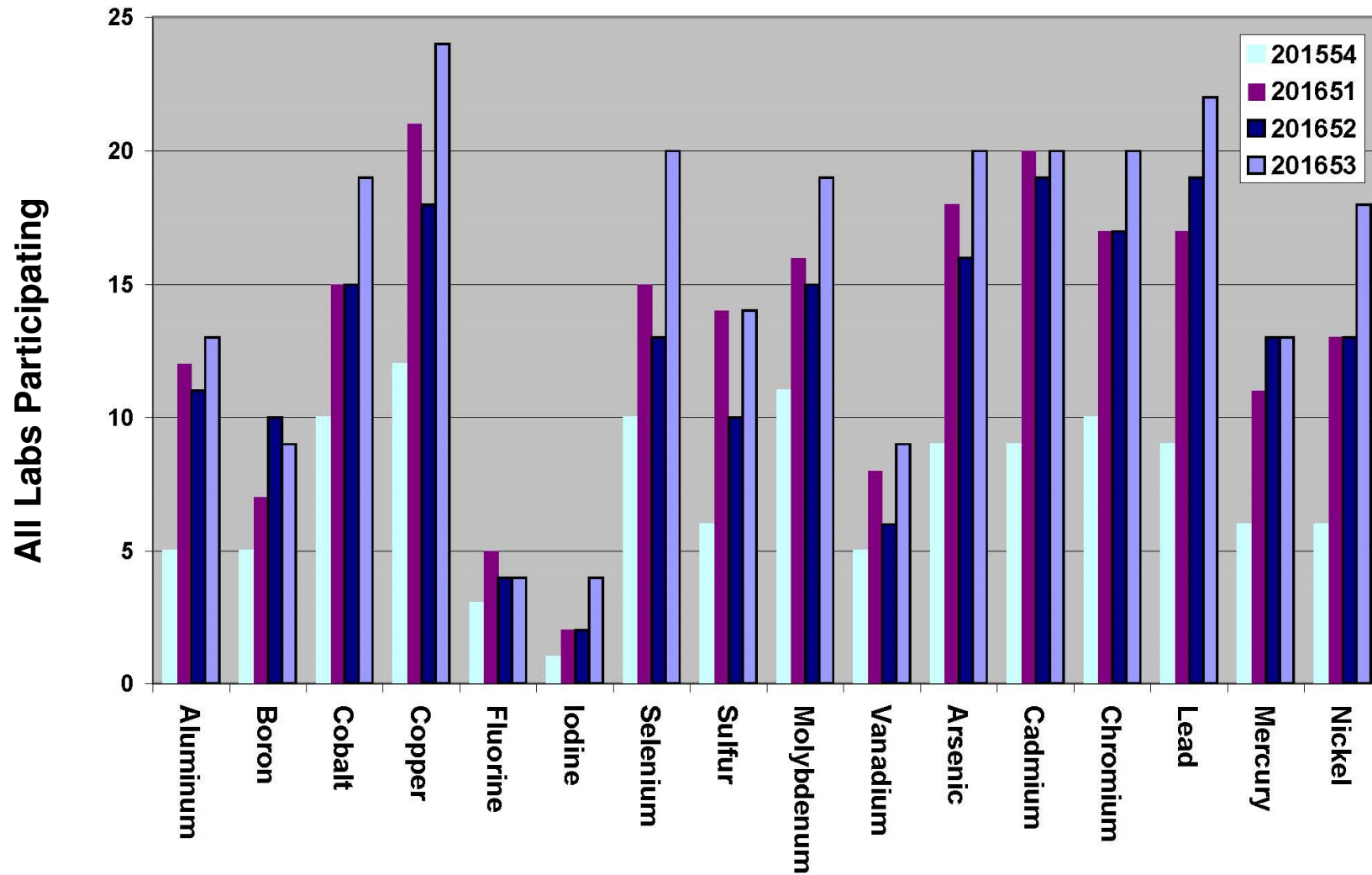
Homogenous Samples for distribution.

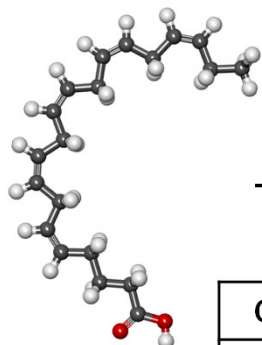


Minerals Scheme Participation



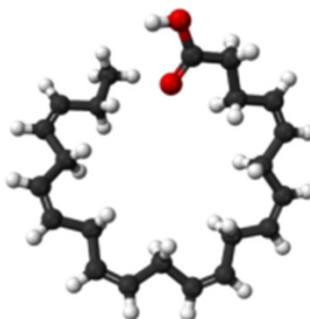
Minerals Scheme Analyte Participation



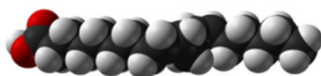


Fatty Acids

The "Unknown" Scheme



Code	Fatty Acid Groupings
754	Total Omega-3 Polyunsaturated Fatty Acids
756	Total Omega-6 Polyunsaturated Fatty Acids
758	Total Saturated Fatty Acids
762	Total Monounsaturated Fatty Acids
764	Total cis Monounsaturated Fatty Acids
766	Total Polyunsaturated Fatty Acids
768	Total cis Polyunsaturated Fatty Acids
770	Total Fat (equivalent to NLEA)
772	Total Fatty Acids



Method Codes	Methods
7##.01	Direct Methylation by Alkali Hydrolysis & GC
7##.02	Direct Methylation by Acid-Alkali Hydrolysis & GC
7##.99	Miscellaneous

Code	Individual Fatty Acids
701	Propionic Acid (3:0)
702	Butyric Acid (4:0)
703	Valeric Acid (5:0)
704	Caproic Acid (6:0)
706	Caprylic acid (8:0)
708	Capric acid (10:0)
710	Lauric Acid (12:0)
714	Myristic Acid (14:0)
716	Palmitic Acid (16:0)
718	Palmitoleic Acid (9c-16:1)
720	Margaric acid (17:0)
722	Stearic Acid (18:0)
724	Oleic Acid (9c-18:1)
726	Linoleic Acid n-6 (18:2, all cis)
728	alpha-Linolenic Acid n-3 (18:3, all cis)
730	Arachidic Acid (20:0)
732	Gondoic Acid (11c-20:1)
736	Arachidonic Acid n-6 (20:4, all cis)
738	Mead Acid n-9 (20:3, all cis)
740	Eicosapentaenoic Acid n-3 EPA (all cis)
742	Behenic Acid (22:0)
744	Erucic Acid (13c-22:1)
746	Docosapentaenoic Acid n-3 DPA (all cis)
748	Lignoceric Acid (24:0)
750	Docosahexaenoic Acid n-3 DHA (all cis)
752	Nervonic Acid (24:1) isomers

AAFCO Proficiency Testing Program Scheme Participation



■ Animal Feed Scheme

- ✓ Proximates 37 %
- ✓ Minerals 44 %
- ✓ Vet Drugs 1 %
- ✓ Vitamins 3 %
- ✓ Amino Acids 14 %
- ✓ Sugars 1 %



■ Pet Food Scheme

- ✓ Proximates 34 %
- ✓ Minerals 45 %
- ✓ Vitamins 4 %
- ✓ Amino Acids 15 %
- ✓ Sugars 2 %



■ Mycotoxin Scheme

- ✓ Engineered Concentrations



■ Minerals Scheme

- ✓ Engineered Concentrations

HAPPY
NEW YEAR!

Questions?