

# AAFCO Check Sample Program

Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201022

Beef Cattle Grower, Medicated



# AAFCO

Association of American Feed Control Officials

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
000.01	9	8	15.7489	7.0850	16.3423	7.1413	1.7853	43.70%	7.0847	0.0996	7.0854	44.99%	0.63%	44.99%	71.1172	0.1020
001.00	10	7	7.9919	0.8928	7.9919	1.0125	0.2706	12.67%	0.8655	0.3102	0.9194	10.83%	3.88%	11.50%	2.9637	0.2805
001.03	4	4	7.1350	0.7913	7.1350	0.7913	0.2798	11.09%	0.7887	0.0901	0.7938	11.05%	1.26%	11.13%	8.8068	0.1150
001.05	1		6.2500													
001.07	35	33	7.1963	0.6331	7.1555	0.6052	0.0745	8.46%	0.6194	0.1853	0.6465	8.61%	2.57%	8.98%	3.4894	0.1804
001.08	1		7.3950													
001.99	15	12	8.0338	1.1732	7.9583	1.0463	0.2136	13.15%	1.1715	0.0900	1.1749	14.58%	1.12%	14.62%	13.0512	0.0992
002.00	6	6	43.0733	1.1883	43.0733	1.3476	0.3890	3.13%	1.1557	0.3910	1.2201	2.68%	0.91%	2.83%	3.1200	0.4300
002.01	9	9	43.4907	0.2670	43.4831	0.2871	0.0677	0.66%	0.2356	0.1777	0.2951	0.54%	0.41%	0.68%	1.6609	0.1391
002.02	6	6	43.7577	0.6350	43.7792	0.6734	0.1944	1.54%	0.6225	0.1771	0.6472	1.42%	0.40%	1.48%	3.6549	0.2103
002.04	6	6	43.8467	1.0623	43.9667	0.6037	0.1743	1.37%	1.0004	0.5052	1.1208	2.28%	1.15%	2.56%	2.2185	0.4833
002.05	18	17	43.4031	0.8011	43.5480	0.4270	0.0732	0.98%	0.7960	0.1281	0.8062	1.83%	0.30%	1.86%	6.2923	0.1317
002.06	203	127	44.1957	0.6246	44.2487	0.3621	0.0227	0.82%	0.5701	0.3607	0.6746	1.29%	0.82%	1.53%	1.8705	0.2269
002.08	2	2	44.8009	0.3548												
002.10	9	8	43.5492	0.6089	43.7100	0.3232	0.0808	0.74%	0.5892	0.2173	0.6279	1.35%	0.50%	1.44%	2.8901	0.2019
002.11	8	8	41.6213	1.2436	41.7256	1.0566	0.2641	2.53%	1.2352	0.2044	1.2520	2.97%	0.49%	3.01%	6.1263	0.2200
002.99	2	2	43.9200	1.1243												
003.00	20	19	3.5629	1.3169	3.2166	0.6493	0.1053	20.19%	1.3130	0.1430	1.3207	36.85%	4.01%	37.07%	9.2354	0.1267
003.01	2	2	2.7975	0.2934												
003.06	18	18	2.6033	0.4889	2.6069	0.1599	0.0267	6.13%	0.4871	0.0583	0.4906	18.71%	2.24%	18.84%	8.4136	0.0589
003.09	26	25	3.3941	0.6761	3.2991	0.5704	0.0807	17.29%	0.6725	0.0977	0.6796	19.82%	2.88%	20.02%	6.9575	0.1018
003.10	31	30	2.5904	0.4151	2.5765	0.2004	0.0259	7.78%	0.4114	0.0776	0.4187	15.88%	2.99%	16.16%	5.3984	0.0853
003.11	8	7	1.8407	0.1766	1.8499	0.1297	0.0347	7.01%	0.1755	0.0274	0.1777	9.54%	1.49%	9.65%	6.4871	0.0243
003.12	3	3	2.9317	0.4202	2.9317	0.4202	0.1715	14.33%	0.4187	0.0495	0.4216	14.28%	1.69%	14.38%	8.5179	0.0567
003.13	6	6	2.6865	0.2461	2.6865	0.2791	0.0806	10.39%	0.2422	0.0621	0.2500	9.01%	2.31%	9.31%	4.0249	0.0720
003.14	21	21	3.4143	1.4231	2.9517	0.4157	0.0641	14.08%	1.4204	0.1247	1.4259	41.60%	3.65%	41.76%	11.4297	0.1274
003.99	13	10	3.1495	0.4595	3.1349	0.4883	0.1092	15.58%	0.4554	0.0858	0.4634	14.46%	2.72%	14.71%	5.4038	0.0830

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004.00	25	24	7.2151	0.7497	7.2258	0.6244	0.0901	8.64%	0.7409	0.1617	0.7584	10.27%	2.24%	10.51%	4.6899	0.1562
004.01	2	2	8.6675	0.1167												
004.03	3	3	7.5800	0.7127	7.5800	0.7127	0.2909	9.40%	0.6926	0.2375	0.7322	9.14%	3.13%	9.66%	3.0831	0.3067
004.06	26	26	7.5398	0.6964	7.4538	0.4697	0.0651	6.30%	0.6888	0.1452	0.7040	9.14%	1.93%	9.34%	4.8489	0.1548
004.07	42	41	7.8743	1.6383	7.7634	1.2068	0.1333	15.54%	1.6217	0.3283	1.6546	20.60%	4.17%	21.01%	5.0393	0.3136
004.11	8	8	9.8813	0.9504	10.0048	0.8243	0.2061	8.24%	0.9475	0.1048	0.9533	9.59%	1.06%	9.65%	9.0945	0.1125
004.99	3	3	7.7183	2.0923	7.7183	2.0923	0.8542	27.11%	2.0837	0.2679	2.1009	27.00%	3.47%	27.22%	7.8431	0.3033
005.00	178	108	19.1536	0.6946	19.2128	0.6370	0.0433	3.32%	0.6824	0.1833	0.7066	3.56%	0.96%	3.69%	3.8537	0.1684
005.02	1		19.8500													
005.03	1		19.3100													
005.05	9	8	20.0653	0.7729	20.0647	0.4868	0.1217	2.43%	0.7724	0.0395	0.7734	3.85%	0.20%	3.85%	19.5647	0.0420
005.11	6	6	22.7667	2.1687	22.9847	1.9672	0.5679	8.56%	2.1591	0.2879	2.1782	9.48%	1.26%	9.57%	7.5653	0.3200
005.99	9	9	19.4850	1.2626	19.4850	1.4318	0.3375	7.35%	1.2532	0.2178	1.2720	6.43%	1.12%	6.53%	5.8413	0.2211
008.02	11	11	11.6605	1.8977	11.8062	1.8660	0.3978	15.81%	1.8933	0.1825	1.9021	16.24%	1.56%	16.31%	10.4251	0.2056
008.05	1		14.4500													
008.08	23	23	9.7637	0.9345	9.7646	1.0185	0.1502	10.43%	0.9037	0.3367	0.9644	9.26%	3.45%	9.88%	2.8641	0.3691
008.99	2	2	12.5200	3.9881												
009.07	8	8	21.7163	1.0792	21.7438	0.9373	0.2343	4.31%	0.9577	0.7035	1.1883	4.41%	3.24%	5.47%	1.6892	0.6300
009.09	18	18	20.6883	1.9803	20.6097	1.7954	0.2992	8.71%	1.9581	0.4185	2.0023	9.46%	2.02%	9.68%	4.7839	0.4611
009.99	3	3	21.9617	5.3051	21.9617	5.3051	2.1658	24.16%	5.2690	0.8733	5.3409	23.99%	3.98%	24.32%	6.1156	1.0700
010.03	4	4	4.8502	0.4761	4.8502	0.4761	0.1683	9.82%	0.4416	0.2516	0.5082	9.11%	5.19%	10.48%	2.0203	0.2992
010.11	7	7	5.8960	0.9378	5.7750	0.5314	0.1420	9.20%	0.9337	0.1225	0.9418	15.84%	2.08%	15.97%	7.6854	0.1149
010.99	10	10	7.2087	1.1210	7.2472	1.1574	0.2588	15.97%	1.1187	0.1024	1.1234	15.52%	1.42%	15.58%	10.9723	0.0986
011.01	149	77	10.7172	1.1479	10.7708	1.1291	0.0910	10.48%	1.1407	0.1819	1.1551	10.64%	1.70%	10.78%	6.3518	0.1795
011.02	1		7.9350													
011.99	3	3	6.9117	2.4587	6.9117	2.4587	1.0037	35.57%	2.4507	0.2800	2.4666	35.46%	4.05%	35.69%	8.8084	0.3433
012.00	3	3	8.0033	1.6401	8.0033	1.6401	0.6696	20.49%	1.6287	0.2739	1.6515	20.35%	3.42%	20.64%	6.0305	0.3000
012.01	2	2	6.3325	0.4914												
012.02	1		5.7413													
012.03	1		6.3500													
012.04	6	6	5.7467	1.7836	6.0200	0.5736	0.1656	9.53%	1.7822	0.1007	1.7850	31.01%	1.75%	31.06%	17.7181	0.1100
012.99	1		19.3000													
013.00	3	3	3.8367	0.1518	3.8367	0.1518	0.0620	3.96%	0.1111	0.1463	0.1837	2.89%	3.81%	4.79%	1.2555	0.2067
013.02	100	34	4.2173	0.4221	4.2045	0.4173	0.0506	9.92%	0.4115	0.1331	0.4325	9.76%	3.16%	10.26%	3.2492	0.1428
013.03	1		4.0550													
013.10	9	9	3.9782	0.4676	3.9467	0.4606	0.1086	11.67%	0.4515	0.1720	0.4831	11.35%	4.32%	12.14%	2.8089	0.1922
013.11	1		4.0500													
013.13	1		3.9700													

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015.41	4	4	2058.5069	154.7617	2058.5069	154.7617	54.7165	7.52%	136.5847	102.9156	171.0175	6.64%	5.00%	8.31%	1.6617	107.7913
015.42	3	3	1367.6667	711.0284	1367.6667	711.0284	290.2761	51.99%	705.6047	123.9624	716.4110	51.59%	9.06%	52.38%	5.7793	154.6667
015.43	4	4	1239.7000	597.4739	1239.7000	597.4739	211.2389	48.20%	597.1636	27.2310	597.7841	48.17%	2.20%	48.22%	21.9523	32.2000
015.52	1		1630.0000													
016.00	1		0.1230													
016.99	1		0.3090													
017.41	2	2	8.9925	0.8167												
017.42	2	2	8.0825	0.1874												
017.43	3	3	9.5000	1.3277	9.5000	1.3277	0.5420	13.98%	1.3025	0.3642	1.3524	13.71%	3.83%	14.24%	3.7135	0.4200
018.41	1		0.1795													
018.42	1		0.2110													
018.52	1		0.2700													
019.00	14	14	4.9748	0.3014	4.9353	0.2489	0.0470	5.04%	0.2987	0.0566	0.3040	6.00%	1.14%	6.11%	5.3739	0.0661
019.01	1		4.8250													
019.02	1		5.0750													
019.03	4	4	5.0115	0.2236	5.0115	0.2236	0.0790	4.46%	0.1170	0.2694	0.2937	2.34%	5.38%	5.86%	1.0903	0.2113
019.06	1		4.7900													
019.08	6	5	4.7080	0.1052	4.7080	0.1052	0.0333	2.23%	0.1049	0.0100	0.1054	2.23%	0.21%	2.24%	10.5392	0.0120
019.31	29	29	4.8845	0.2255	4.8881	0.1484	0.0195	3.04%	0.2217	0.0586	0.2293	4.54%	1.20%	4.69%	3.9140	0.0692
019.32	11	11	4.8601	0.2254	4.8996	0.1126	0.0240	2.30%	0.2174	0.0838	0.2330	4.47%	1.72%	4.79%	2.7822	0.0791
019.33	2	2	4.8925	0.6965												
019.41	35	33	4.7898	0.2313	4.7895	0.1156	0.0142	2.41%	0.2274	0.0604	0.2353	4.75%	1.26%	4.91%	3.8964	0.0623
019.42	18	17	4.9600	0.2676	4.9470	0.2741	0.0470	5.54%	0.2636	0.0657	0.2716	5.31%	1.32%	5.48%	4.1335	0.0737
019.43	10	10	4.7479	0.2716	4.7898	0.2278	0.0509	4.76%	0.2643	0.0890	0.2788	5.57%	1.87%	5.87%	3.1326	0.0991
019.52	2	2	4.7187	0.3234												
019.53	2	2	4.5485	0.1110												
019.99	5	4	5.1991	0.4436	5.1991	0.4436	0.1568	8.53%	0.4360	0.1151	0.4510	8.39%	2.21%	8.67%	3.9187	0.1203
020.31	1		12.0000													
020.32	1		26.8435													
020.41	1		12.6933													
020.42	3	3	15.5833	1.0611	15.5833	1.0611	0.4332	6.81%		1.6638			10.68%			2.1000
020.43	2	2	16.7113	1.5574												
020.52	1		17.1000													
020.99	2	2	12.3050	1.1031												
021.31	2	2	12.8750	1.3081												
021.32	1		17.0653													
021.33	1		10.0750													
021.41	4	4	10.4556	2.0704	10.4556	2.0704	0.7320	19.80%	2.0645	0.2211	2.0763	19.75%	2.11%	19.86%	9.3902	0.2708

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021.42	6	6	11.7900	1.9006	12.1390	1.3372	0.3860	11.02%	1.5318	1.5910	2.2086	12.99%	13.49%	18.73%	1.3882	1.5467
021.43	4	4	12.3606	1.4845	12.3606	1.4845	0.5248	12.01%	1.4757	0.2277	1.4932	11.94%	1.84%	12.08%	6.5564	0.2498
021.52	1		12.2000													
021.99	1		13.7250													
022.04	1		185.0000													
022.31	19	18	175.3083	12.6294	176.7689	10.3353	1.7225	5.85%	12.2144	4.5407	13.0311	6.97%	2.59%	7.43%	2.8699	4.2378
022.32	5	5	187.0219	15.3211	187.0219	15.3211	4.8450	8.19%	15.0995	3.6720	15.5396	8.07%	1.96%	8.31%	4.2319	3.9527
022.41	29	29	174.3146	12.8066	174.7809	13.0550	1.7142	7.47%	12.5129	3.8567	13.0938	7.18%	2.21%	7.51%	3.3950	4.2909
022.42	19	19	184.2768	15.6331	183.7571	15.4479	2.5060	8.41%	15.4857	3.0290	15.7792	8.40%	1.64%	8.56%	5.2094	3.0695
022.43	11	11	180.0532	12.9165	180.0532	14.6473	3.1228	8.13%	12.3092	5.5354	13.4965	6.84%	3.07%	7.50%	2.4382	6.0039
022.52	1		157.5000													
022.53	2	2	179.3750	6.8943												
022.99	2	1	189.0350													
023.01	1		0.0040													
025.04	1		1131.5000													
025.31	17	17	984.7144	115.4736	1010.6833	62.4452	10.7093	6.18%	114.2004	24.1835	116.7330	11.60%	2.46%	11.85%	4.8270	23.3712
025.32	2	2	1107.9216	102.8085												
025.41	30	29	972.5263	60.7076	972.1521	65.9979	8.6659	6.79%	57.8022	26.2419	63.4802	5.94%	2.70%	6.53%	2.4190	22.3588
025.42	18	18	656.8681	151.8970	653.1984	138.9995	23.1666	21.28%	151.4037	17.2980	152.3886	23.05%	2.63%	23.20%	8.8096	17.1628
025.43	9	8	801.7222	209.2772	801.7222	237.3204	59.3301	29.60%	209.1835	8.8566	209.3709	26.09%	1.10%	26.12%	23.6401	9.7219
025.52	1		909.5000													
025.53	1		966.9000													
025.99	2	1	1000.7350													
026.31	1		0.8900													
026.33	1		0.5420													
026.41	1		0.3878													
026.52	1		0.9500													
026.99	1		2.2550													
027.04	1		0.2800													
027.31	21	20	0.2853	0.0298	0.2861	0.0175	0.0028	6.11%	0.0294	0.0065	0.0301	10.32%	2.27%	10.57%	4.6546	0.0072
027.32	8	8	0.2858	0.0196	0.2884	0.0175	0.0044	6.05%	0.0191	0.0066	0.0202	6.67%	2.30%	7.06%	3.0719	0.0067
027.41	31	30	0.2890	0.0161	0.2869	0.0136	0.0018	4.74%	0.0151	0.0078	0.0170	5.22%	2.70%	5.88%	2.1784	0.0081
027.42	19	19	0.2788	0.0211	0.2790	0.0236	0.0038	8.44%	0.0204	0.0077	0.0218	7.32%	2.77%	7.83%	2.8248	0.0066
027.43	8	8	0.2664	0.0217	0.2664	0.0246	0.0061	9.23%	0.0210	0.0073	0.0223	7.90%	2.76%	8.37%	3.0322	0.0070
027.52	1		0.2681													
027.53	2	2	0.2965	0.0269												
027.99	2	1	0.2868													
028.04	1		351.5000													

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028.31	16	16	357.4009	25.9034	357.3072	19.0263	3.3634	5.32%	25.4948	6.4806	26.3056	7.13%	1.81%	7.36%	4.0591	7.1369
028.32	4	4	375.7049	19.8284	375.7049	19.8284	7.0104	5.28%	18.7920	8.9472	20.8132	5.00%	2.38%	5.54%	2.3262	9.5803
028.41	28	28	349.1675	24.1479	345.9788	17.4583	2.3330	5.05%	23.3690	8.6035	24.9025	6.69%	2.46%	7.13%	2.8944	8.5156
028.42	17	17	351.2100	49.0192	361.9334	23.7419	4.0717	6.56%	48.5245	9.8236	49.5089	13.82%	2.80%	14.10%	5.0398	10.3871
028.43	10	9	352.0620	19.9900	352.8711	20.8489	4.9141	5.91%	19.3826	6.9156	20.5794	5.51%	1.96%	5.85%	2.9758	6.3304
028.52	1		343.0000													
028.53	2	2	343.7000	19.3747												
028.99	3	2	183.4075	257.9419	183.4075	257.9419	128.9710	140.64%	257.9409	1.0200	257.9430	140.64%	0.56%	140.64%	252.8822	1.0250
031.00	3	3	1.0432	0.0128	1.0432	0.0128	0.0052	1.22%	0.0118	0.0069	0.0137	1.13%	0.66%	1.31%	1.9897	0.0097
031.01	48	48	1.0477	0.0366	1.0458	0.0311	0.0032	2.97%	0.0351	0.0148	0.0381	3.35%	1.41%	3.63%	2.5698	0.0159
031.02	3	3	1.0548	0.0053	1.0548	0.0053	0.0021	0.50%	0.0044	0.0041	0.0060	0.41%	0.39%	0.57%	1.4502	0.0039
031.03	6	6	1.0517	0.0168	1.0522	0.0103	0.0030	0.98%	0.0159	0.0077	0.0177	1.51%	0.73%	1.68%	2.2859	0.0093
031.04	1		1.0300													
031.06	2	2	1.0450	0.0636												
031.07	1		1.0250													
031.41	32	30	1.0310	0.0478	1.0318	0.0398	0.0051	3.86%	0.0459	0.0186	0.0495	4.45%	1.80%	4.81%	2.6631	0.0204
031.42	19	19	1.0550	0.0695	1.0424	0.0472	0.0077	4.53%	0.0677	0.0217	0.0712	6.42%	2.06%	6.74%	3.2715	0.0225
031.43	10	10	0.9402	0.2964	1.0203	0.0368	0.0082	3.60%	0.2962	0.0135	0.2965	31.51%	1.44%	31.54%	21.9768	0.0134
031.52	1		0.9760													
031.53	2	2	0.9880	0.1174												
031.99	5	4	1.0113	0.0225	1.0113	0.0225	0.0080	2.22%	0.0193	0.0164	0.0253	1.90%	1.63%	2.50%	1.5400	0.0195
032.02	5	5	1.1112	0.0847	1.1112	0.0847	0.0268	7.62%	0.0797	0.0406	0.0894	7.17%	3.65%	8.05%	2.2046	0.0480
032.06	1		1.2150													
032.31	18	17	1.1129	0.0855	1.1283	0.0623	0.0107	5.52%	0.0851	0.0117	0.0859	7.65%	1.05%	7.72%	7.3465	0.0133
032.32	7	6	1.1376	0.0260	1.1367	0.0266	0.0077	2.34%	0.0252	0.0093	0.0269	2.21%	0.82%	2.36%	2.8839	0.0111
032.41	33	33	1.1457	0.0601	1.1419	0.0530	0.0065	4.64%	0.0569	0.0273	0.0631	4.96%	2.39%	5.51%	2.3078	0.0292
032.42	19	19	1.1761	0.0844	1.1677	0.0771	0.0125	6.60%	0.0825	0.0253	0.0863	7.01%	2.16%	7.34%	3.4044	0.0244
032.43	9	9	1.1339	0.0702	1.1160	0.0429	0.0101	3.84%	0.0685	0.0219	0.0719	6.04%	1.93%	6.34%	3.2850	0.0250
032.52	2	2	1.1084	0.0048												
032.53	2	2	1.0978	0.0873												
032.99	3	2	1.1260	0.0792	1.1260	0.0792	0.0396	7.04%	0.0789	0.0100	0.0795	7.01%	0.89%	7.06%	7.9427	0.0106
033.00	22	22	3.4748	0.1820	3.5078	0.1302	0.0196	3.71%	0.1781	0.0525	0.1857	5.13%	1.51%	5.34%	3.5359	0.0565
033.01	28	28	3.5567	0.0979	3.5632	0.0548	0.0073	1.54%	0.0960	0.0270	0.0997	2.70%	0.76%	2.80%	3.6990	0.0271
033.03	7	7	3.7779	1.1360	3.7779	1.2882	0.3443	34.10%	1.1323	0.1304	1.1397	29.97%	3.45%	30.17%	8.7433	0.1500
033.05	1		3.6800													
033.99	9	9	3.1548	0.8991	3.3795	0.3450	0.0813	10.21%	0.8985	0.0476	0.8998	28.48%	1.51%	28.52%	18.9105	0.0537
034.01	1		2.0000													
034.04	8	8	2.0421	0.7171	2.0759	0.7523	0.1881	36.24%	0.7165	0.0410	0.7177	35.09%	2.01%	35.14%	17.5026	0.0488

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
034.41	1		0.2300													
034.42	2	2	2.7993	1.6557												
034.52	3	3	0.7910	0.9215	0.7910	0.9215	0.3762	116.49%	0.9213	0.0242	0.9216	116.47%	3.07%	116.51%	38.0071	0.0280
034.53	2	2	2.2553	0.0923												
034.99	2	2	2.1053	0.2903												
035.01	1		1.2750													
035.04	1		1.2350													
035.05	5	5	1.2788	0.1400	1.2788	0.1400	0.0443	10.95%	0.1340	0.0571	0.1457	10.48%	4.46%	11.39%	2.5527	0.0564
035.31	15	15	1.2530	0.1237	1.2457	0.0915	0.0167	7.35%	0.1219	0.0296	0.1254	9.73%	2.36%	10.01%	4.2414	0.0292
035.32	6	6	1.3056	0.0305	1.3056	0.0345	0.0100	2.65%		0.0574			4.39%			0.0487
035.41	32	30	1.2505	0.0683	1.2599	0.0483	0.0062	3.83%	0.0653	0.0284	0.0712	5.22%	2.27%	5.70%	2.5112	0.0300
035.42	15	15	1.4373	0.6012	1.2847	0.1116	0.0204	8.69%	0.6006	0.0372	0.6017	41.79%	2.59%	41.87%	16.1790	0.0389
035.43	7	7	1.0933	0.4345	1.2257	0.1055	0.0282	8.60%	0.4345	0.0077	0.4346	39.74%	0.70%	39.75%	56.6046	0.0070
035.52	1		1.2459													
035.53	2	2	1.2518	0.1156												
035.99	2	1	1.2300													
036.04	2	2	0.5150	0.0495												
036.42	15	15	0.5090	0.0559	0.5098	0.0617	0.0113	12.10%	0.0550	0.0143	0.0569	10.81%	2.82%	11.17%	3.9651	0.0141
036.43	8	8	0.4879	0.0450	0.4936	0.0347	0.0087	7.03%	0.0448	0.0057	0.0452	9.19%	1.17%	9.26%	7.8885	0.0070
036.52	1		0.5281													
036.99	1		0.2690													
037.02	1		657.0000													
037.31	19	19	632.7276	60.8111	643.8958	34.5621	5.6067	5.37%	60.3995	9.9891	61.2199	9.55%	1.58%	9.68%	6.1287	10.9184
037.32	5	5	698.0072	52.6577	698.0072	52.6577	16.6518	7.54%	52.3467	8.0809	52.9668	7.50%	1.16%	7.59%	6.5546	8.4141
037.41	29	28	628.2988	47.8208	624.0575	35.1251	4.6938	5.63%	47.3118	9.8410	48.3245	7.53%	1.57%	7.69%	4.9105	11.7556
037.42	18	18	637.6442	62.0408	650.6317	35.1290	5.8548	5.40%	61.3919	12.6567	62.6830	9.63%	1.98%	9.83%	4.9525	13.2494
037.43	11	11	634.8898	44.4392	634.5173	49.5905	10.5727	7.82%	43.8245	10.4169	45.0455	6.90%	1.64%	7.10%	4.3243	11.5134
037.52	1		619.0000													
037.53	2	2	638.3250	19.5515												
037.99	2	1	638.9500													
038.31	1		3.0000													
038.41	1		1.9793													
038.42	3	3	1.8617	0.2322	1.8617	0.2322	0.0948	12.47%	0.2154	0.1225	0.2478	11.57%	6.58%	13.31%	2.0224	0.1633
038.43	3	3	1.5000	1.3229	1.5000	1.3229	0.5401	88.19%	1.3229	0.0000	1.3229	88.19%	0.00%	88.19%		0.0000
038.52	1		2.2200													
039.31	1		13.5000													
039.41	1		14.3243													
039.42	2	2	16.7000	2.1213												

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCCO CS ftp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
039.52	1		15.7500													
040.42	1		6.7750													
040.43	1		6.9570													
041.41	1		3.1755													
041.42	1		3.2250													
041.43	1		3.2355													
041.52	1		2.6600													
065.00	5	5	273.4900	5.7206	273.4900	5.7206	1.8090	2.09%		22.5616			8.25%			15.9400
065.01	3	3	260.8333	21.4452	260.8333	21.4452	8.7550	8.22%	20.6192	8.3361	22.2405	7.91%	3.20%	8.53%	2.6680	11.2667
065.03	10	10	286.6373	58.1211	278.3559	41.0873	9.1874	14.76%	57.6360	10.5974	58.6021	20.11%	3.70%	20.44%	5.5298	11.6405
065.04	3	3	264.8778	6.3662	264.8778	6.3662	2.5990	2.40%	6.2157	1.9462	6.5133	2.35%	0.73%	2.46%	3.3467	2.5917
065.99	3	3	257.9963	22.6488	257.9963	22.6488	9.2463	8.78%	21.5553	9.8321	23.6918	8.35%	3.81%	9.18%	2.4096	8.7176
104.00	1		5.8000													
105.00	1		1.5450													
106.00	1		29.3500													
106.02	25	24	28.1159	6.4820	28.1771	6.5942	0.9518	23.40%	6.3411	1.9005	6.6198	22.55%	6.76%	23.54%	3.4833	1.8305
108.01	1		3.0200													
108.02	3	3	4.1450	1.4111	4.1450	1.4111	0.5761	34.04%	1.4026	0.2194	1.4196	33.84%	5.29%	34.25%	6.4697	0.2767
109.02	7	7	6.1999	3.5058	6.5112	3.1615	0.8449	48.55%	3.5045	0.1359	3.5071	56.52%	2.19%	56.57%	25.7972	0.1565
120.00	14	13	1.1671	0.0245	1.1635	0.0156	0.0031	1.34%	0.0205	0.0189	0.0279	1.76%	1.62%	2.39%	1.4779	0.0153
120.05	2	2	1.2275	0.1874												
120.99	1		2.4750													
121.00	14	13	1.1739	0.1234	1.1464	0.0437	0.0086	3.81%	0.1233	0.0065	0.1234	10.50%	0.55%	10.52%	19.0327	0.0076
121.05	2	2	1.325	0.2899138												
121.99	1		2.09													
122.00	14	13	1.5001769	0.0366518	1.5001769	0.0415632	0.008151	2.77%	0.0360456	0.009389	0.0372482	2.40%	0.63%	2.48%	3.967347	0.010246
122.05	2	2	1.425	0.0707107												
122.99	1		3.235													
123.99	1		6.045													
124.00	10	10	0.567335	0.058809	0.5619372	0.0532896	0.011916	9.48%	0.0582572	0.011366	0.0593556	10.27%	2.00%	10.46%	5.222037	0.01077
124.02	1		0.51													
124.05	2	2	0.56525	0.0286378												
124.99	1		0.57													
125.00	14	14	2.6658036	0.1035786	2.657875	0.0838199	0.01584	3.15%	0.1025406	0.020686	0.1046063	3.85%	0.78%	3.92%	5.056882	0.024579
125.05	2	2	2.515	0.1626346												
126.00	14	13	1.1815	0.0291569	1.1800369	0.0296352	0.005812	2.51%	0.028575	0.008197	0.0297274	2.42%	0.69%	2.52%	3.626585	0.009154
126.05	2	2	1.1825	0.0601041												
126.99	1		2.485													

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/scl	Reproducibility %RSD	sR/sr	Average Range (R-bar)
127.00	13	12	0.4017917	0.0188336	0.4013104	0.020335	0.004151	5.07%	0.018435	0.005451	0.0192239	4.59%	1.36%	4.78%	3.526968	0.005417
127.05	2	2	0.389	0.0438406												
127.99	1		0.92													
128.00	14	13	0.7731538	0.039506	0.7769983	0.0346803	0.006801	4.46%	0.0377425	0.016506	0.0411941	4.88%	2.13%	5.33%	2.495644	0.013385
128.05	2	2	0.75475	0.1205617												
128.99	1		1.785													
129.00	14	13	1.5374231	0.05214	1.5352666	0.0541327	0.010616	3.53%	0.0518031	0.008369	0.0524747	3.37%	0.54%	3.41%	6.270206	0.009154
129.05	2	2	1.4975	0.0954594												
129.99	1		3.25													
130.00	14	14	0.7572857	0.0362787	0.7669591	0.021859	0.004131	2.85%	0.0353644	0.011446	0.0371705	4.67%	1.51%	4.91%	3.24753	0.012829
130.05	3	3	0.7316667	0.0633114	0.7316667	0.0633114	0.025847	8.65%	0.0628649	0.010614	0.0637547	8.59%	1.45%	8.71%	6.006407	0.011333
130.99	1		1.845													
131.00	12	12	0.2187625	0.0156525	0.2195013	0.0145869	0.002978	6.65%	0.0152518	0.004976	0.0160431	6.97%	2.27%	7.33%	3.223995	0.005558
131.02	1		0.21													
131.05	3	3	0.2358333	0.0267317	0.2358333	0.0267317	0.010913	11.33%	0.0223495	0.02074	0.0304904	9.48%	8.79%	12.93%	1.470094	0.023667
131.99	1		0.56													
132.00	14	13	0.8382308	0.0440618	0.8346758	0.0338221	0.006633	4.05%	0.0438193	0.006528	0.0443029	5.23%	0.78%	5.29%	6.786554	0.006923
132.05	2	2	0.756	0.2531442												
132.99	1		1.715													
133.00	12	12	1.5873875	0.0810591	1.5762662	0.0636799	0.012999	4.04%	0.0785681	0.028201	0.0834759	4.95%	1.78%	5.26%	2.960051	0.031642
133.05	2	2	1.6925	0.3500179												
133.99	1		3.17													
134.00	14	14	1.3072643	0.0619479	1.3070833	0.0642526	0.012143	4.92%	0.0590205	0.026613	0.064743	4.51%	2.04%	4.95%	2.432773	0.029443
134.05	2	2	1.4275	0.0035355												
134.99	1		2.855													
135.00	14	14	1.043825	0.032024	1.0431111	0.0206676	0.003906	1.98%	0.0312194	0.010088	0.0328089	2.99%	0.97%	3.14%	3.252203	0.010993
135.05	3	3	1.0506667	0.0301054	1.0506667	0.0301054	0.01229	2.87%		0.051859			4.94%			0.058667
135.99	1		2.595													
136.00	1		0.183													
136.01	6	5	0.1701	0.0121006	0.1701	0.0121006	0.003827	7.11%	0.0120031	0.002168	0.0121973	7.06%	1.27%	7.17%	5.626211	0.0026
136.03	1		0.176													
136.99	4	4	0.232375	0.1227337	0.232375	0.1227337	0.043393	52.82%	0.122215	0.015941	0.1232503	52.59%	6.86%	53.04%	7.731507	0.01625
137.00	9	8	0.584375	0.0322521	0.5756735	0.0195575	0.004889	3.40%	0.0315636	0.009374	0.0329262	5.40%	1.60%	5.63%	3.512439	0.0105
137.05	2	2	0.586	0.2884996												
137.99	1		1.35													
138.00	14	14	1.1199357	0.0638424	1.1342286	0.0434294	0.008207	3.83%	0.0623183	0.01961	0.0653309	5.56%	1.75%	5.83%	3.331483	0.018557
138.05	2	2	1.03475	0.148846												
138.99	1		2.435													



Average Range (R-bar)	sR/sr	Reproducibility %RSD	Within Labs %/rsd	Between Labs %RSD	Reproducibility sR	Within Labs sr	Between Labs sL	% RSD	Uncertainty (U)	AAFCCO CS ffp - Robust sd	Assigned Value - Robust Mean	SD	Mean	# Labs Included in Calculations	Total # Labs Submitting	Method Code
													0.14	1	139.00	
													0.0845	1	140.01	
													0.002	1	141.00	
													0.1645	1	142.00	