



**2015 AOF Test Check Program
Monthly Report
Round 5
July – 2015
01/07/2015 – 01/08/2015**

Result Receival Dates

Lab Code	Date
A	27/07/2015
B	N/A
C	27/07/2015
D	01/08/2015
E	24/07/2015
F	31/07/2015
G	23/07/2015
H	07/07/2015
I	13/07/2015
J	30/07/2015
K	13/07/2015
L	15/07/2015
M	31/07/2015
N	30/07/2015
O	30/07/2015
Q	01/08/2015
R	27/07/2015
S	30/07/2015



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Discussion of Results

Test Weight

Sample 1 – No outliers were observed for this test.

Sample 2 – No outliers were observed for this test.

Sample 3 – Outliers were identified for Lab **C** and **N**. Lab **C** was a 0.74 kg/hL discrepancy from the lower quartile limit (62.99kg/hL). Lab **N** was a 0.22 kg/hL discrepancy from the upper quartile limit (66.63kg/HI).

Impurities

Sample 1 – One outlier was identified for Lab K with a 1.04 of a percent discrepancy from the upper quartile limit (3.05%).

Sample 2 – One outlier was identified for Lab J with a 0.16 of a percent discrepancy from the lower quartile limit (1.07%).

Sample 3 – Outliers were identified for Lab A and K. Lab A was a 0.41 of a percent discrepancy from the lower quartile limit (0.75%). Lab K was a 1.45 of a percent discrepancy from the upper quartile limit (2.20%).

Oil Rapid

Sample 1 – Outliers were identified for Lab H and R which were a 0.14 and 0.07 of a percent discrepancy, respectively, from the lower quartile limit (37.47%).

Sample 2 – One outlier was identified for Lab C with a 0.17 of a percent discrepancy from the upper quartile limit (45.00%).

Sample 3 – One outlier was identified for Lab C with a 0.16 of a percent discrepancy from the upper quartile limit (47.66%).

Oil Solvent Extraction

Sample 1 – No outliers were observed for this test.

Sample 2 – One outlier was identified for Lab M with a 0.44 of a percent discrepancy from the lower quartile limit (42.02%).

Sample 3 – No outliers were observed for this test.



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Reproducibility limit of the extraction method ISO-659:2009 is R - 1.54 for oil content at ~43% in canola. Participation within the scope of the standard for this round has increased to 85%. Observable difference of Lab **M** from the mean is 1.82%. 6 of the 7 labs participating within the scope of the standard means removal of results submitted by the lab working outside the scope maintain the numbers to contribute to a statistically significant outcome. Removal of this lab increases variability, but the average remains relatively unaffected. The increment in variability is still not enough to encompass the outlying laboratory, and Lab **M** is still statistically highlighted as an outlier from the quartile constraints for 'Sample 2'.

Moisture Oven

Sample 1 – Outliers were identified for Lab C, D and S. Lab C and S were 0.15 and 0.05 of a percent discrepancy, respectively, from the upper quartile limit (8.00%). Lab D was a 0.24 of a percent discrepancy from the lower quartile limit (7.52%).

Sample 2 – One outlier was identified for Lab C with a 0.38 of a percent discrepancy from the upper quartile limit (6.27%).

Sample 3 – Outliers were identified for Lab C, D and K. Lab C and D were 0.09 and 1.38 of a percent discrepancy, respectively, from the upper quartile limit (5.86%). Lab K reported results averaging at the lower quartile limit of 5.58%.

Moisture Rapid

Sample 1 – One outlier was identified for Lab H with a 0.43 of a percent discrepancy from the lower quartile limit (6.93%).

Sample 2 – No outliers were observed for this test.

Sample 3 – No outliers were observed for this test.

Oleic Oil

Sample 1 – No outliers were observed for this test.

Sample 2 – One outlier was identified for Lab S with a 1.01 of a percent discrepancy from the upper quartile limit (68.40%).

Sample 3 – No outliers were observed for this test.



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Linoleic Oil

Sample 1 – Outliers were identified for Lab F and K. Lab F was 0.05 of a percent discrepancy from the upper quartile limit (17.94%). Lab K was 4.47 of a percent discrepancy from the lower quartile limit (17.86%).

Sample 2 – One outlier was identified for Lab M with a 1.97 of a percent discrepancy from the upper quartile limit (14.92%).

Sample 3 – One outlier was identified for Lab M with a 2.22 of a percent discrepancy from the upper quartile limit (20.83%).

Linolenic Oil

There are not enough laboratories submitting results for linolenic results to create statistics with any significance at this stage.

Free Fatty Acid

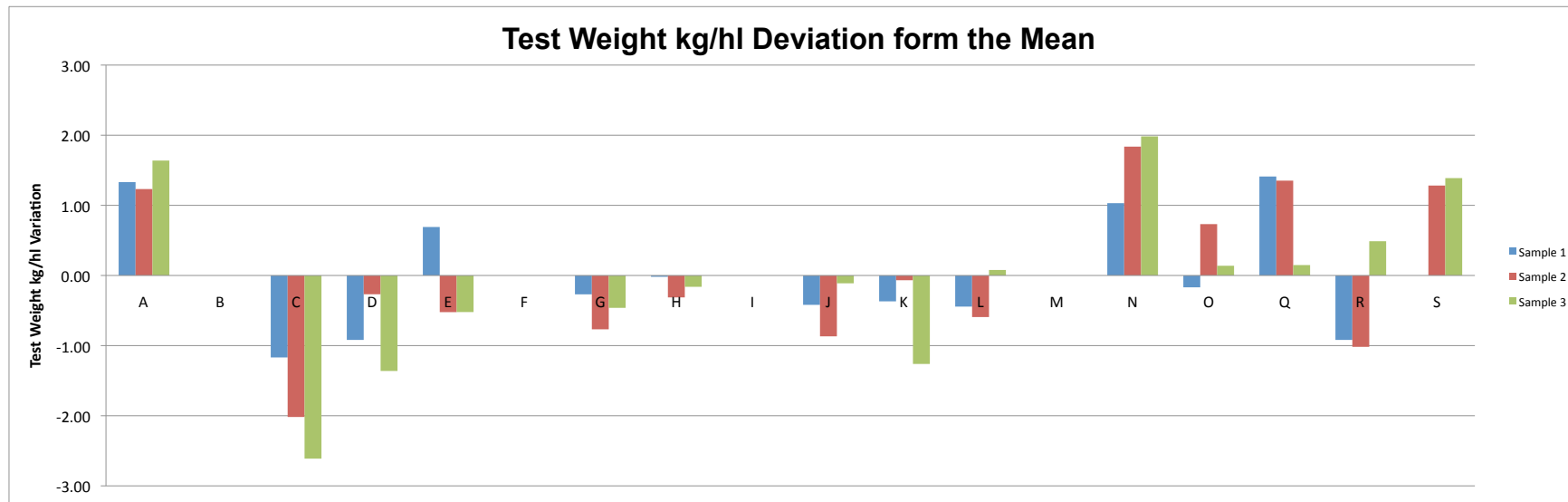
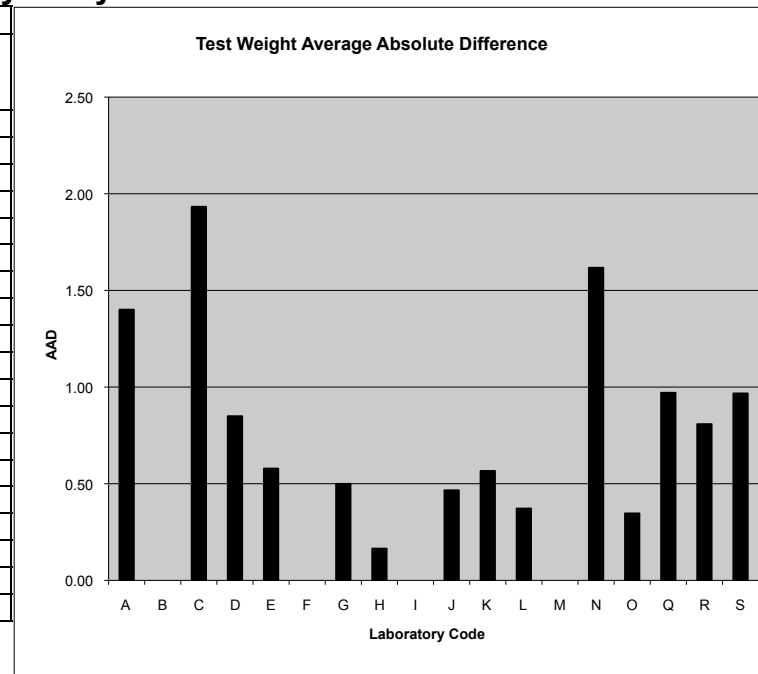
Sample 1 – One outlier was identified for Lab K with a 1.03 of a percent discrepancy from the upper quartile limit (0.73%).

Sample 2 – One outlier was identified for Lab K with a 0.23 of a percent discrepancy from the upper quartile limit (0.46%).

Sample 3 – Outlying results were identified for Lab K which was at the upper quartile limit of 37.47%, and Lab M which was above the upper quartile limit by 0.07 of a percent.

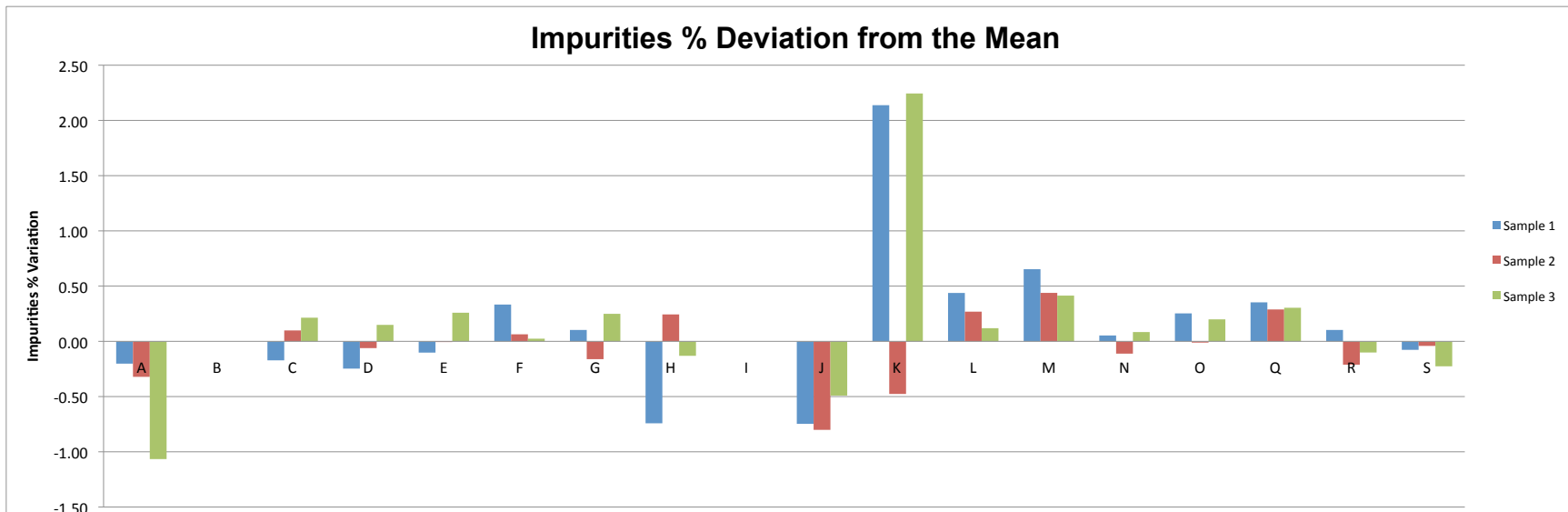
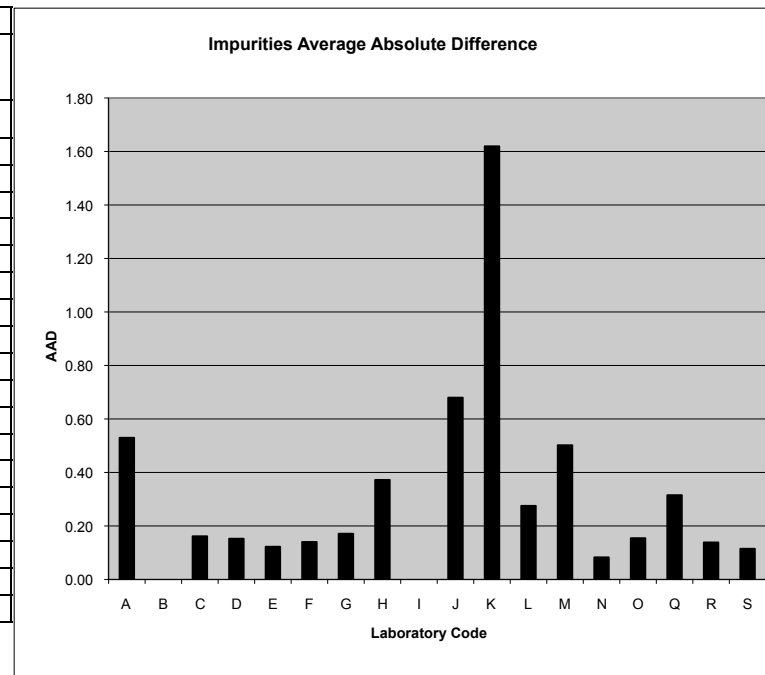
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Test Weight kg/hl								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	67.50	1.33	67.50	1.23	66.50	1.64	1.40	1.40
B								
C	65.00	-1.17	64.25	-2.02	62.25	-2.61	-1.93	1.93
D	65.25	-0.92	66.00	-0.27	63.50	-1.36	-0.85	0.85
E	66.86	0.69	65.75	-0.52	64.34	-0.52	-0.12	0.58
F								
G	65.90	-0.27	65.50	-0.77	64.40	-0.46	-0.50	0.50
H	66.15	-0.02	65.96	-0.31	64.70	-0.16	-0.16	0.16
I								
J	65.75	-0.42	65.40	-0.87	64.75	-0.11	-0.47	0.47
K	65.80	-0.37	66.20	-0.07	63.60	-1.26	-0.57	0.57
L	65.73	-0.44	65.68	-0.59	64.94	0.08	-0.32	0.37
M								
N	67.20	1.03	68.11	1.84	66.85	1.98	1.62	1.62
O	66.00	-0.17	67.00	0.73	65.00	0.14	0.23	0.35
Q	67.58	1.41	67.62	1.35	65.01	0.15	0.97	0.97
R	65.25	-0.92	65.25	-1.02	65.35	0.49	-0.48	0.81
S	66.17	0.00	67.55	1.28	66.25	1.39	0.97	0.97
MEAN	66.17		66.27		64.86			0.82
STDEV	0.83		1.11		0.90			



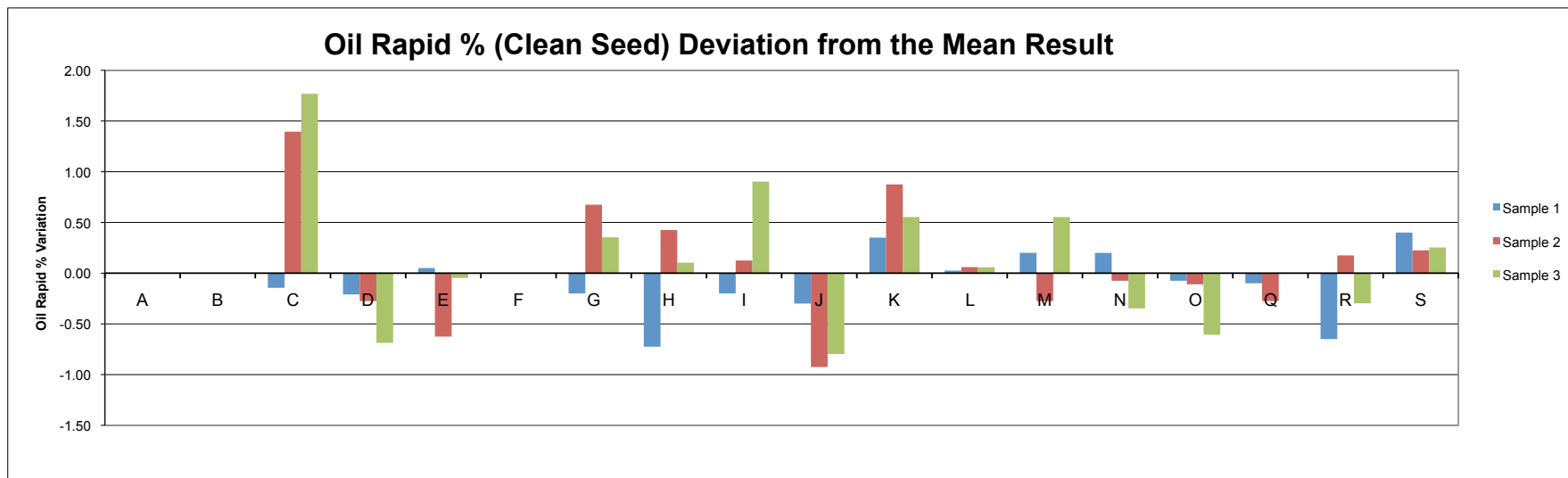
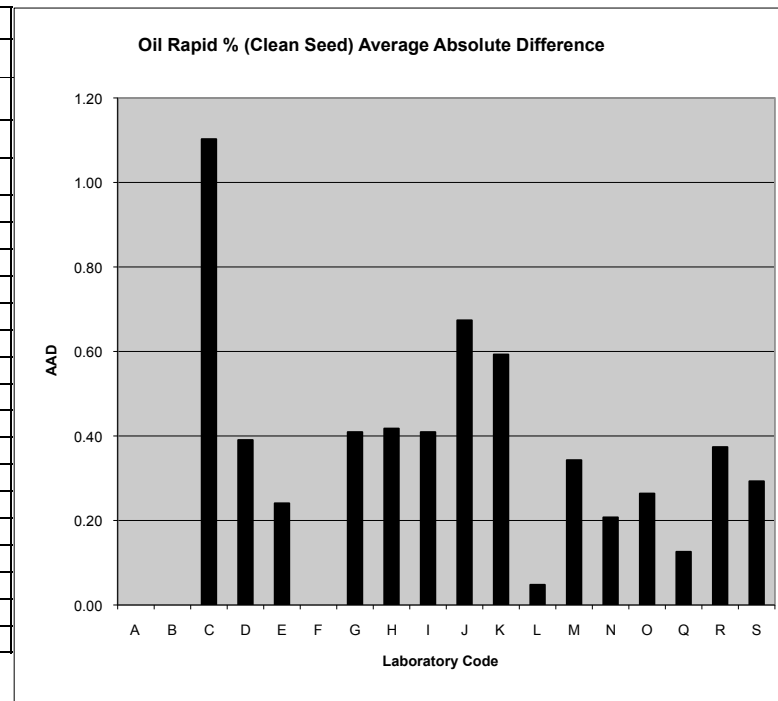
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Impurities %								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	1.75	-0.20	1.39	-0.32	0.34	-1.07	-0.53	0.53
B								
C	1.78	-0.17	1.81	0.10	1.62	0.21	0.05	0.16
D	1.70	-0.25	1.65	-0.06	1.55	0.15	-0.05	0.15
E	1.85	-0.10	1.71	-0.01	1.66	0.26	0.05	0.12
F	2.28	0.33	1.78	0.06	1.43	0.02	0.14	0.14
G	2.05	0.10	1.55	-0.16	1.65	0.25	0.06	0.17
H	1.21	-0.74	1.96	0.24	1.27	-0.13	-0.21	0.37
I								
J	1.20	-0.75	0.91	-0.80	0.91	-0.49	-0.68	0.68
K	4.09	2.14	1.24	-0.48	3.65	2.24	1.30	1.62
L	2.39	0.44	1.98	0.27	1.52	0.12	0.28	0.28
M	2.60	0.65	2.15	0.44	1.82	0.41	0.50	0.50
N	2.00	0.05	1.60	-0.11	1.49	0.08	0.01	0.08
O	2.20	0.25	1.70	-0.01	1.60	0.20	0.15	0.15
Q	2.30	0.35	2.00	0.29	1.71	0.30	0.32	0.32
R	2.05	0.10	1.50	-0.21	1.30	-0.10	-0.07	0.14
S	1.87	-0.08	1.67	-0.04	1.18	-0.23	-0.11	0.11
MEAN	1.95		1.71		1.40			0.35
STDEV	0.40		0.24		0.38			



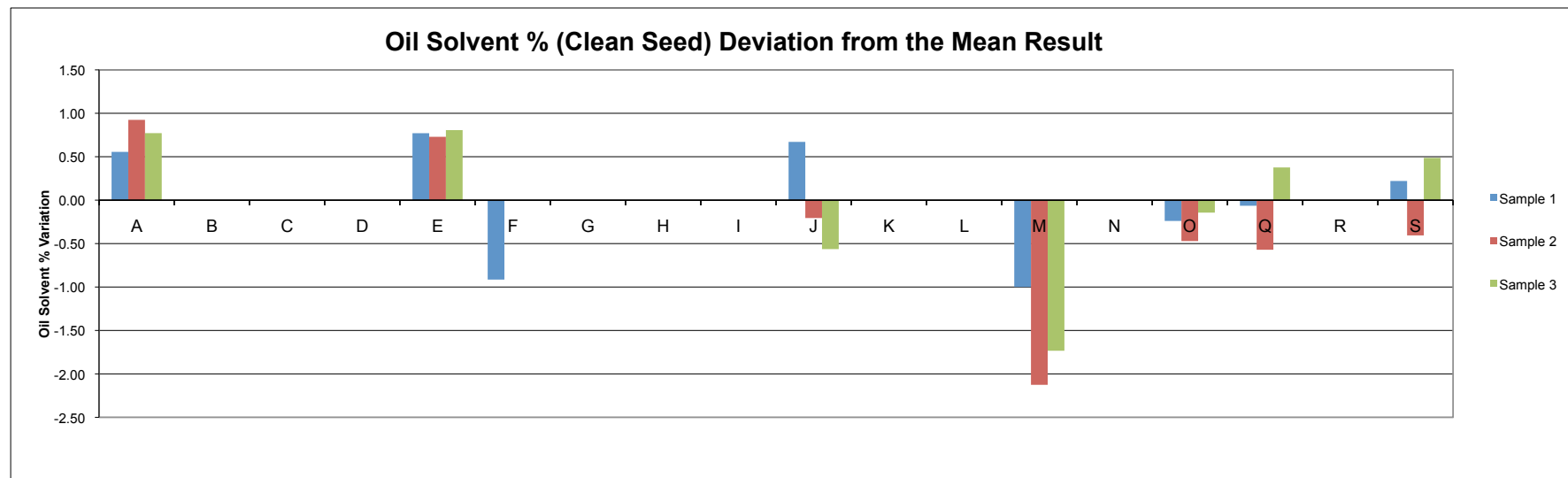
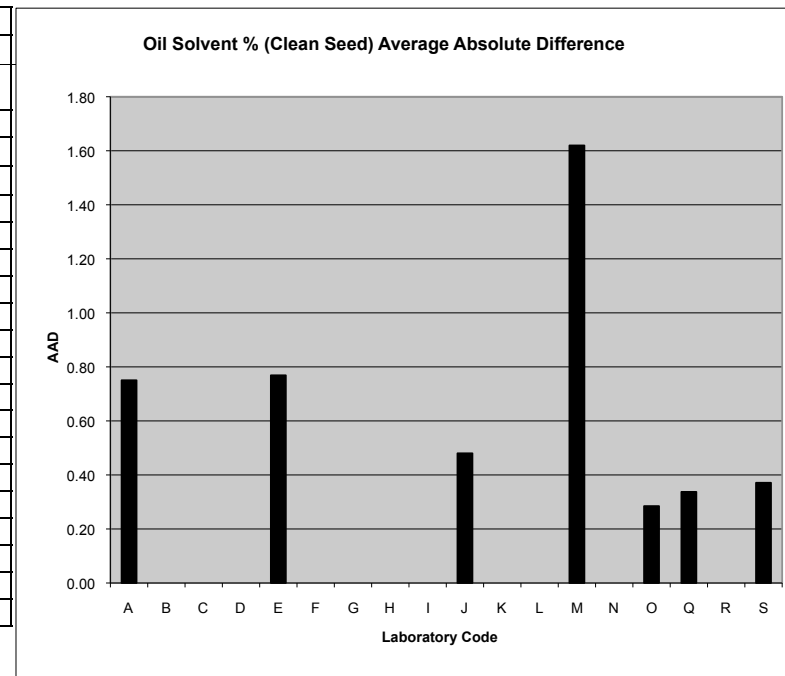
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Oil Rapid % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C	37.91	-0.14	45.17	1.39	47.82	1.77	1.01	1.10
D	37.84	-0.21	43.50	-0.28	45.36	-0.69	-0.39	0.39
E	38.10	0.05	43.15	-0.63	46.00	-0.05	-0.21	0.24
F								
G	37.85	-0.20	44.45	0.67	46.40	0.35	0.28	0.41
H	37.33	-0.72	44.20	0.42	46.15	0.10	-0.07	0.42
I	37.85	-0.20	43.90	0.12	46.95	0.90	0.28	0.41
J	37.75	-0.30	42.85	-0.93	45.25	-0.80	-0.67	0.67
K	38.40	0.35	44.65	0.87	46.60	0.55	0.59	0.59
L	38.08	0.03	43.84	0.06	46.11	0.06	0.05	0.05
M	38.25	0.20	43.50	-0.28	46.60	0.55	0.16	0.34
N	38.25	0.20	43.70	-0.08	45.70	-0.35	-0.07	0.21
O	37.98	-0.07	43.67	-0.11	45.44	-0.61	-0.26	0.26
Q	37.95	-0.10	43.50	-0.28	46.05	0.00	-0.12	0.13
R	37.40	-0.65	43.95	0.17	45.75	-0.30	-0.26	0.37
S	38.45	0.40	44.00	0.22	46.30	0.25	0.29	0.29
MEAN	38.05		43.78		46.05			0.39
STDEV	0.23		0.48		0.51			



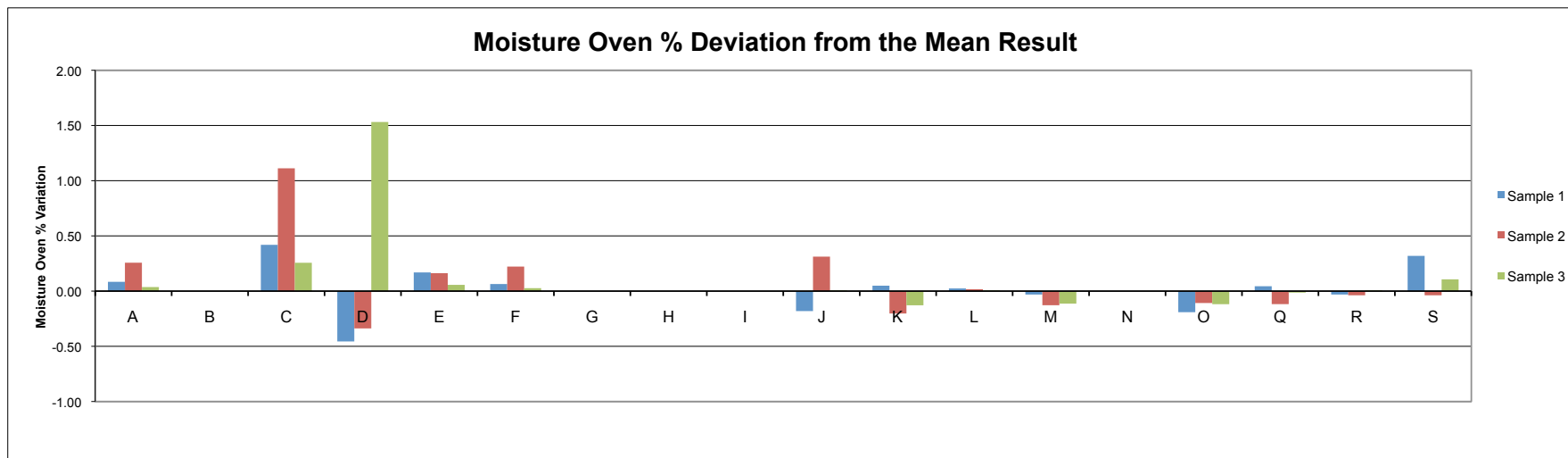
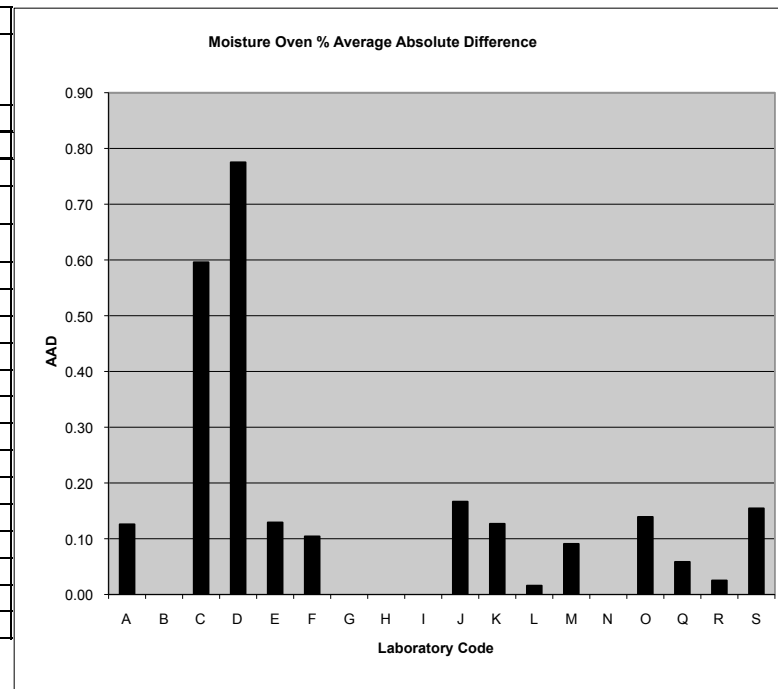
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Oil Solvent % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	38.19	0.56	44.63	0.92	46.89	0.77	0.75	0.75
B								
C								
D								
E	38.40	0.77	44.44	0.73	46.92	0.81	0.77	0.77
F	36.72	-0.91						
G								
H								
I								
J	38.30	0.67	43.50	-0.21	45.55	-0.56	-0.03	0.48
K								
L								
M	36.63	-1.00	41.58	-2.13	44.38	-1.73	-1.62	1.62
N								
O	37.39	-0.24	43.24	-0.47	45.97	-0.14	-0.28	0.28
Q	37.57	-0.06	43.14	-0.57	46.49	0.38	-0.09	0.34
R								
S	37.85	0.22	43.30	-0.41	46.60	0.49	0.10	0.37
MEAN	37.63		43.71		46.11			0.66
STDEV	0.69		0.65		0.91			



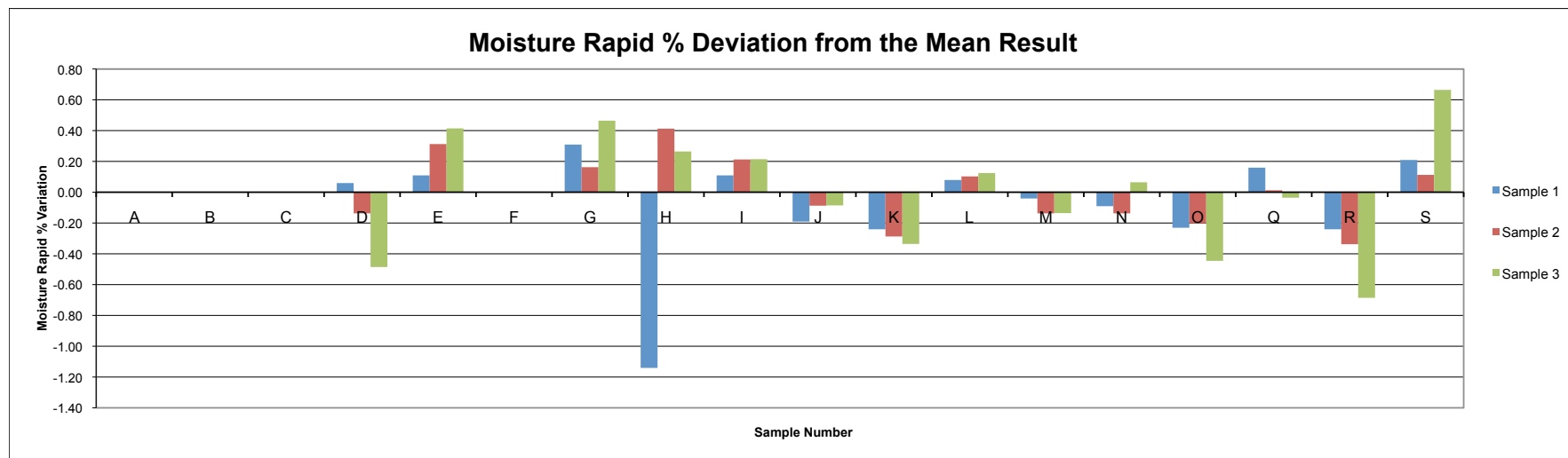
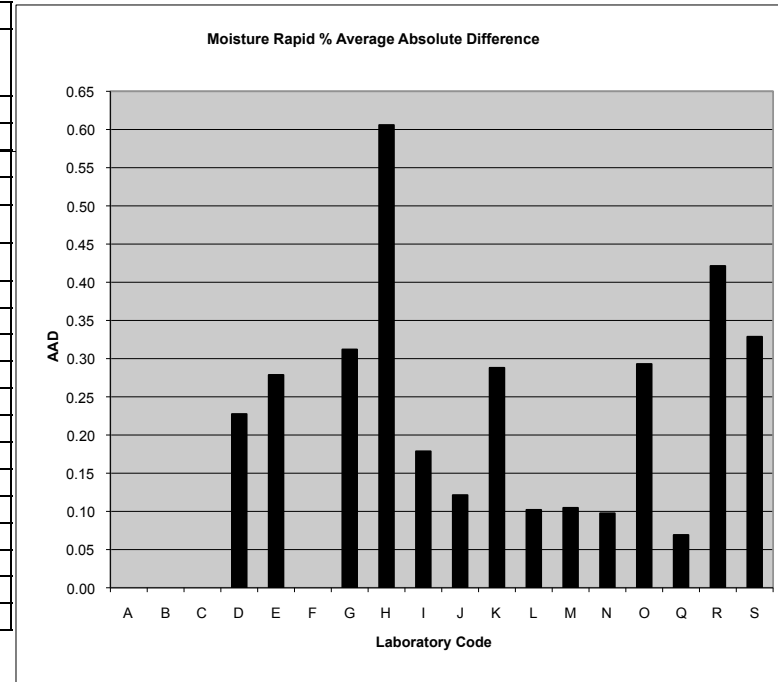
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Moisture Oven % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	7.82	0.08	5.80	0.26	5.73	0.04	0.13	0.13
B								
C	8.15	0.42	6.65	1.11	5.95	0.26	0.60	0.60
D	7.28	-0.46	5.20	-0.34	7.23	1.53	0.25	0.78
E	7.90	0.17	5.70	0.16	5.75	0.06	0.13	0.13
F	7.80	0.06	5.76	0.22	5.72	0.03	0.10	0.10
G								
H								
I								
J	7.55	-0.18	5.85	0.31	5.70	0.01	0.05	0.17
K	7.78	0.05	5.34	-0.20	5.57	-0.13	-0.09	0.13
L	7.76	0.02	5.56	0.02	5.70	0.01	0.02	0.02
M	7.70	-0.03	5.41	-0.13	5.58	-0.11	-0.09	0.09
N								
O	7.54	-0.19	5.43	-0.11	5.58	-0.12	-0.14	0.14
Q	7.78	0.04	5.42	-0.12	5.68	-0.01	-0.03	0.06
R	7.70	-0.03	5.50	-0.04	5.70	0.01	-0.02	0.03
S	8.05	0.32	5.50	-0.04	5.80	0.11	0.13	0.15
MEAN	7.73		5.54		5.69			0.19
STDEV	0.11		0.20		0.11			



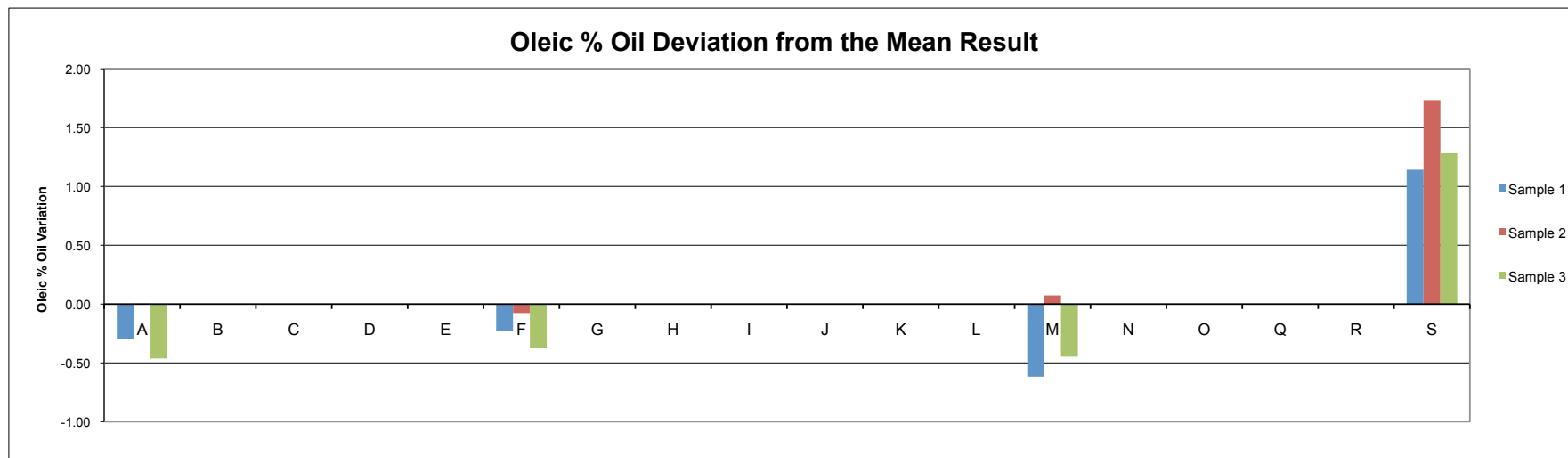
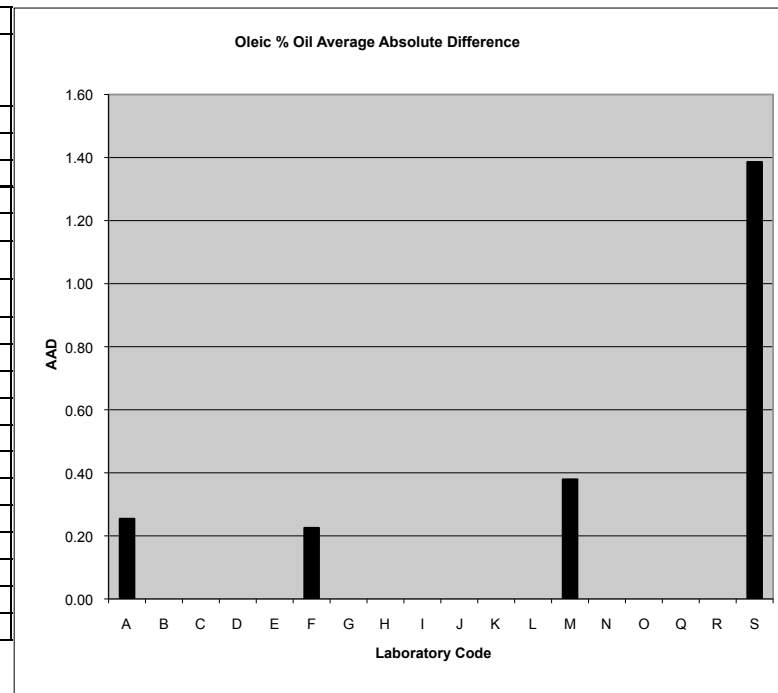
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Moisture Rapid % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C								
D	7.70	0.06	5.35	-0.14	5.15	-0.49	-0.19	0.23
E	7.75	0.11	5.80	0.31	6.05	0.41	0.28	0.28
F								
G	7.95	0.31	5.65	0.16	6.10	0.46	0.31	0.31
H	6.50	-1.14	5.90	0.41	5.90	0.26	-0.15	0.61
I	7.75	0.11	5.70	0.21	5.85	0.21	0.18	0.18
J	7.45	-0.19	5.40	-0.09	5.55	-0.09	-0.12	0.12
K	7.40	-0.24	5.20	-0.29	5.30	-0.34	-0.29	0.29
L	7.72	0.08	5.59	0.10	5.76	0.12	0.10	0.10
M	7.60	-0.04	5.35	-0.14	5.50	-0.14	-0.10	0.10
N	7.55	-0.09	5.35	-0.14	5.70	0.06	-0.05	0.10
O	7.41	-0.23	5.29	-0.20	5.19	-0.45	-0.29	0.29
Q	7.80	0.16	5.50	0.01	5.60	-0.04	0.05	0.07
R	7.40	-0.24	5.15	-0.34	4.95	-0.69	-0.42	0.42
S	7.85	0.21	5.60	0.11	6.30	0.66	0.33	0.33
MEAN	7.64		5.49		5.64			0.24
STDEV	0.19		0.23		0.39			



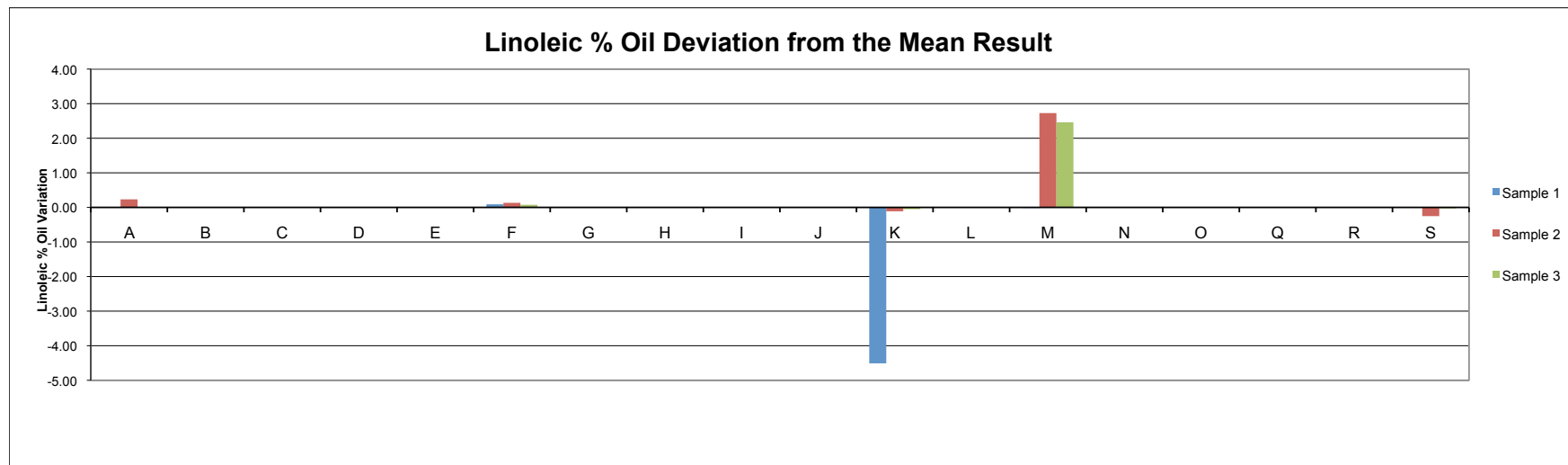
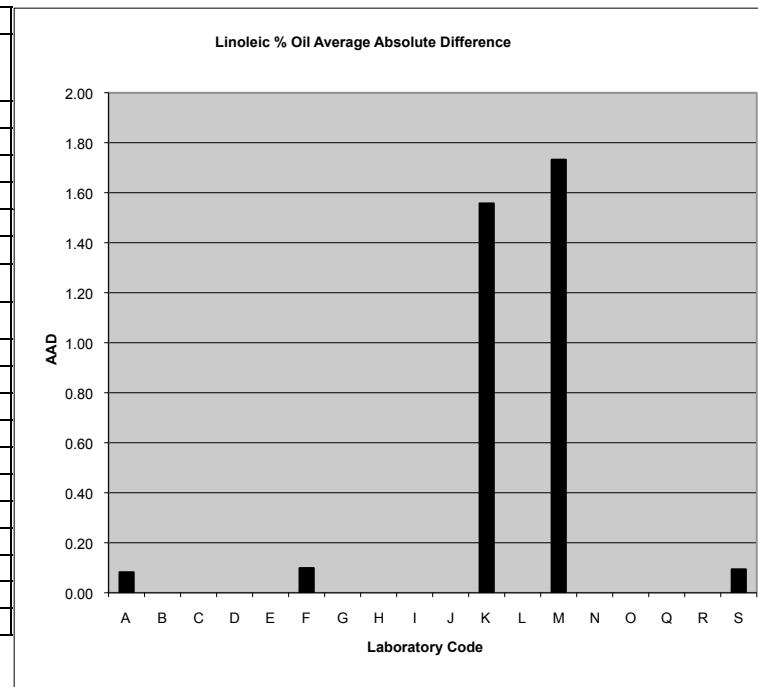
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Oleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	63.91	-0.30	67.67	0.00	62.71	-0.46	-0.25	0.25
B								
C								
D								
E								
F	63.98	-0.23	67.59	-0.08	62.80	-0.37	-0.23	0.23
G								
H								
I								
J								
K								
L								
M	63.59	-0.62	67.74	0.07	62.72	-0.45	-0.33	0.38
N								
O								
Q								
R								
S	65.35	1.14	69.40	1.73	64.45	1.28	1.39	1.39
MEAN	64.21		67.67		63.17			0.56
STDEV	0.78		0.08		0.86			



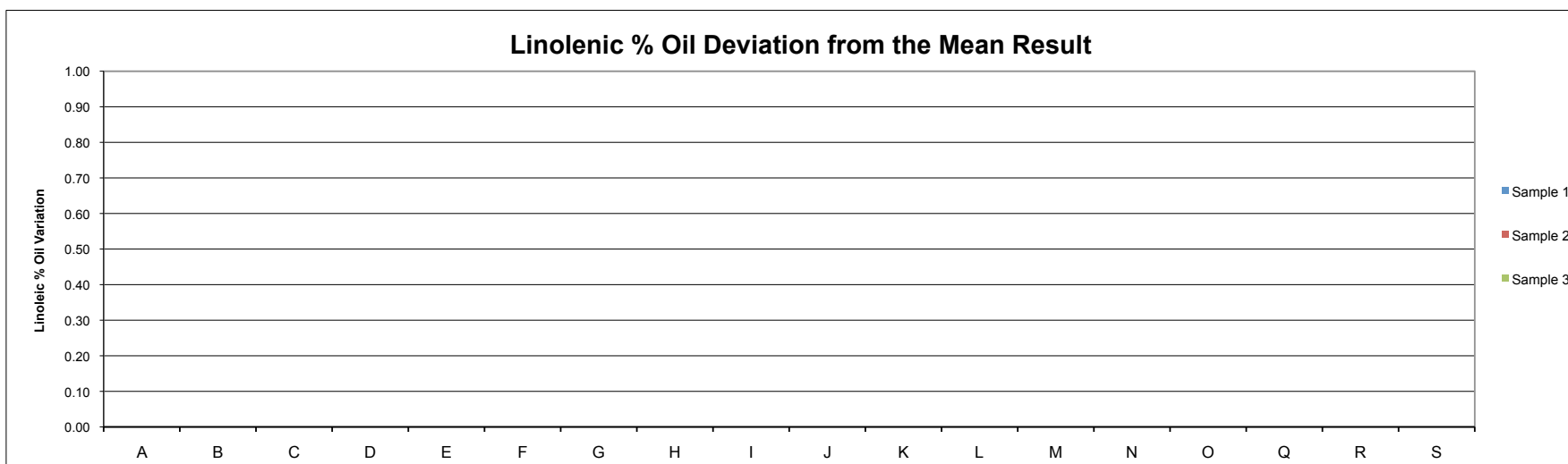
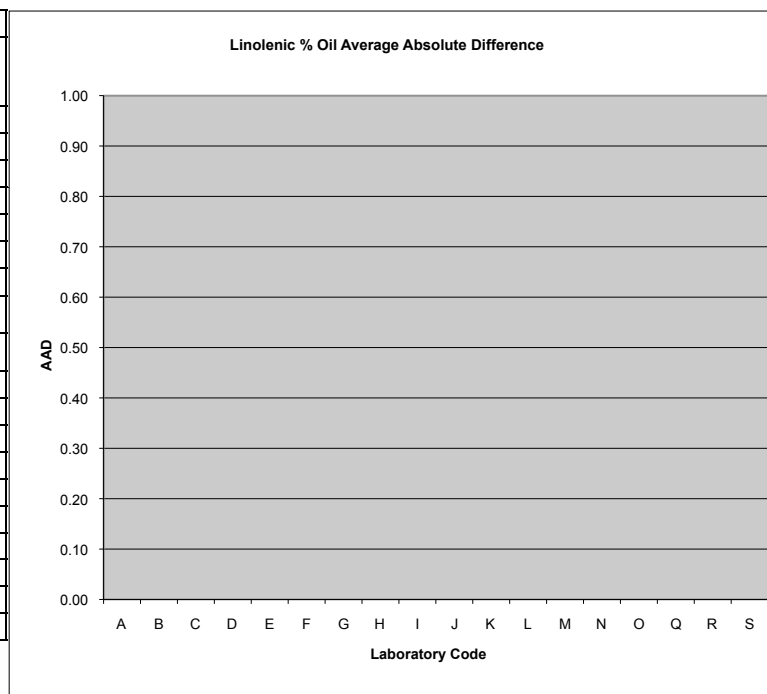
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Linoleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	17.91	0.01	14.39	0.23	20.59	0.00	0.08	0.08
B								
C								
D								
E								
F	17.99	0.09	14.29	0.13	20.66	0.07	0.10	0.10
G								
H								
I								
J								
K	13.39	-4.51	14.04	-0.11	20.53	-0.05	-1.56	1.56
L								
M	17.89	-0.01	16.88	2.73	23.04	2.46	1.73	1.73
N								
O								
Q								
R								
S	17.90	0.00	13.90	-0.25	20.55	-0.03	-0.09	0.09
MEAN	17.90		14.15		20.58			0.71
STDEV	2.63		0.22		0.05			



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Linolenic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C								
D								
E								
F								
G								
H								
I								
J								
K	6.01	0.00	8.66	0.00	8.33	0.00	0.00	0.00
L								
M								
N								
O								
Q								
R								
S								
MEAN	6.01		8.66		8.33			0.00
STDEV	#DIV/0!		#DIV/0!		#DIV/0!			



Free Fatty Acid % Oil Deviation from the Mean					
	Sample 1	Sample 2	Sample 3	Mean of	Absolute

Free Fatty Acid % oil Average Absolute Difference