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NFTA Laboratory Certification Report for 2009

**Dry Matter**

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2009_AH_01	93.90	0.478	94.24	94.05	94.36	94.22	0.32 A	0.10	0.10	
2009_AH_02	92.67	0.497	92.64	92.72	92.82	92.73	0.06 A	0.00	0.00	
2009_AH_03	90.83	0.527	91.13	91.15	91.20	91.16	0.33 A	0.11	0.11	
2009_GH_04	94.52	0.468	94.85	94.76	94.74	94.78	0.26 A	0.07	0.07	
2009_CS_05	93.72	0.481	94.09	93.92	93.97	93.99	0.27 A	0.07	0.07	
2009_AH_06	92.56	0.499	93.33	93.32	93.35	93.33	0.77 B	0.60	0.60	
avgHSD	0.492									
							Bias Total Accuracy:	0.437		
							NHSD:	0.887		A
								PASS		

**Crude Protein**

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2009_AH_01	17.11	0.446	17.71	17.31	17.55	17.52	0.41 A	0.17	0.17	
2009_AH_02	18.37	0.474	18.47	18.61	18.39	18.49	0.12 A	0.01	0.01	
2009_AH_03	20.52	0.521	20.97	21.06	21.10	21.04	0.52 A	0.27	0.27	
2009_GH_04	10.05	0.284	10.53	10.13	10.69	10.45	0.40 B	0.16	0.16	
2009_CS_05	7.77	0.228	7.96	7.95	7.98	7.96	0.19 A	0.04	0.04	
2009_AH_06	16.56	0.434	16.64	16.62	16.84	16.70	0.14 A	0.02	0.02	
avgHSD	0.366									
							Bias Total Accuracy:	0.365		
							NHSD:	0.998		A
								PASS		

**ADF**

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2009_AH_01	30.90	0.737	31.85	31.92	32.04	31.94	1.04 B	1.09	1.09	
2009_AH_02	28.82	0.695	28.78	28.54	28.83	28.72	-0.10 A	0.01	0.01	
2009_AH_03	22.62	0.566	24.80	24.63	24.50	24.64	2.02 D	4.08	4.08	
2009_GH_04	36.89	0.857	37.24	36.80	36.67	36.90	0.01 A	0.00	0.00	
2009_CS_05	28.92	0.697	29.79	29.73	30.01	29.84	0.92 B	0.84	0.84	
2009_AH_06	31.36	0.747	30.95	30.99	31.07	31.00	-0.36 A	0.13	0.13	
avgHSD	0.698							Bias Total Accuracy:	1.109	
								NHSD:	1.588	B
									PASS	

**NDF**

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2009_AH_01	37.07	0.861	38.30	38.46	38.47	38.41	1.34 B	1.80	1.80	
2009_AH_02	36.85	0.856	36.85	36.81	36.55	36.74	-0.11 A	0.01	0.01	
2009_AH_03	29.20	0.703	30.63	31.00	30.82	30.82	1.62 C	2.62	2.62	
2009_GH_04	70.66	1.489	71.60	72.24	72.30	72.05	1.39 A	1.93	1.93	
2009_CS_05	47.49	1.062	48.97	48.79	49.02	48.93	1.44 B	2.09	2.09	
2009_AH_06	38.88	0.896	39.13	39.08	39.05	39.09	0.21 A	0.05	0.05	
avgHSD	0.903							Bias Total Accuracy:	1.303	
								NHSD:	1.442	B
									PASS	

Certification Status: Certified

	HSDAvg	BTA	NHSD	Pass
Dry Matter	0.49	0.44	0.89	Pass
Crude Protein	0.37	0.37	1.00	Pass
ADF	0.70	1.11	1.59	Pass
NDF	0.90	1.30	1.44	Pass



Labs with missing results for a sample are assigned a penalty bias of 5.5 \* HSD (adjBias). If a lab reporting results for a sample has an actual Bias greater than the "penalty" bias for a sample, then the penalty bias is used. This is signified by a "Yes" in the Penalty column above.