CUMBERLAND VALLEY ANALYTICAL SERVICES, INC.

March 29, 2010

PO Box 669 Maugansville, MD 21767 301-790-1980

Sample No : 10172036

A N A L Y S I S R E S U L T S

TMR	As Sampled	Dry Matter	Unit
Moisture	46.1		%
Dry Matter	53.9		%
Crude Protein	8.8	16.3	% DM
Adjusted Protein	8.8	16.3	% DM
Soluble Protein		42.3	% CP
Degradable Protein (calc.)		71.2	% CP
TDN	38.8	71.9	% DM
Net Energy Lactation	0.41	0.75	Mcal/lb
Net Energy Maintenance	0.41	0.77	Mcal/lb
Net Energy Gain	0.26	0.49	Mcal/lb
Acid Detergent Fiber	11.5	21.4	% DM
Neutral Detergent Fiber	17.0	31.6	% DM
Ash	4.2	7.7	% DM
Starch	16.2	30.1	% DM
NFC	22.2	41.1	% DM
Calcium	0.39	0.72	% DM
Phosphorus	0.21	0.38	% DM
Magnesium	0.16	0.31	% DM
Potassium	1.00	1.85	% DM
Sodium	0.295	0.546	% DM
Iron	434	804	PPM
Manganese	56	104	PPM
Zinc	50	92	PPM
Copper	13	24	PPM

ISHLER, VIRGINIA
PENN STATE COLLEGE OF AG SCIENCES
COOPERATIVE EXTENSION

Sample : 1 - TMR - LACTATING COWS
Farm Name : [redacted]
Received : March 24, 2010
Complete : March 29, 2010
Regression : OH
Originator : RICHARD A KOHN

CUMBERLAND VALLEY ANALYTICAL SERVICES, INC.

March 26, 2010

PO Box 669 Maugansville, MD 21767 301-790-1980

Sample No : 10172037

A N A L Y S I S R E S U L T S

TMR	As Sampled	Dry Matter	Unit
Moisture	65.1		%
Dry Matter	34.9		%
Crude Protein	3.9	11.2	% DM
Adjusted Protein	3.6	10.3	% DM
Soluble Protein		48.9	% CP
Degradable Protein (calc.)		74.4	% CP
TDN	21.1	60.3	% DM
Net Energy Lactation	0.22	0.62	Mcal/lb
Net Energy Maintenance	0.21	0.60	Mcal/lb
Net Energy Gain	0.12	0.34	Mcal/lb
Acid Detergent Fiber	12.3	35.3	% DM
Neutral Detergent Fiber	19.7	56.4	% DM
Ash	2.7	7.8	% DM
NFC	7.9	22.6	% DM
Calcium	0.31	0.90	% DM
Phosphorus	0.13	0.38	% DM
Magnesium	0.15	0.42	% DM
Potassium	0.67	1.91	% DM
Sodium	0.085	0.242	% DM
Iron	204	583	PPM
Manganese	99	282	PPM
Zinc	75	214	PPM
Copper	25	72	PPM

ISHLER, VIRGINIA
PENN STATE COLLEGE OF AG SCIENCES
COOPERATIVE EXTENSION

Sample : 2 - TMR - DRY COWS
Farm Name : [redacted]
Received : March 24, 2010
Complete : March 26, 2010
Regression : OH
Originator : RICHARD A KOHN