



CUMBERLAND VALLEY ANALYTICAL SERVICES

"Laboratory services for agriculture ... from the field to the feed bunk"

Farm: **PURE PASTURES**
Desc: **F12/F/3A**
Submitter: **CVAS, ANALYSIS**
Account: **CVAS ANALYSIS**

Copies to: **BOOT, DAVE**

Lab ID: **28938 295**
Sampled: **08/19/2020**
Arrived: **08/20/2020**
Completed: **08/24/2020**
Reported: **08/24/2020**

F12/F/3A

SAMPLE INFORMATION			
Lab ID:	28938 295	Version:	1.0
Crop Year:		Series:	
Feed Type:	LEGUME FORAGE	Cutting#:	
Package:	BASIC NIR		

NIR ANALYSIS RESULTS			
Moisture			10.4
Dry Matter			89.6

PROTEINS	% SP	% CP	% DM
Crude Protein			22.5
Adjusted Protein			
Soluble Protein		40.2	9.0
Ammonia (CPE)	8.3	3.3	0.75
ADF Protein (ADICP)		6.2	1.40
NDF Protein (NDICP)		13.8	3.10
NDR Protein (NDRCP)			
Rumen Degr. Protein		70.1	15.8
Amino Acid Protein, Total			

FIBER	%NDFom %DM	NDFom %DM	% NDF	% DM
ADF			79.4	30.2
aNDF		37.7		38.1
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			19.0	7.21
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	40.8	15.4	40.4	15.4
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	48.0	18.1	47.4	18.0
NDF Digestibility (240 hr)	50.1	18.9	49.4	18.8
uNDF (12 hr)				
uNDF (30 hr)	59.2	22.3	59.6	22.7
uNDF (120 hr)	52.0	19.6	52.6	20.0
uNDF (240 hr)	49.9	18.8	50.6	19.2

CARBOHYDRATES	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		20.6	6.2
Water Soluble CHO (WSC-Sugar)			9.7
Starch			
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			2.47
Crude Fat			1.29
Fatty Acids, Total			0.39
C16:0			0.07
C18:0			0.03
C18:1			0.23
C18:2			0.34
C18:3			0.60
Unsaturated Fatty Acids (RUFAL)			52.2
Fatty Acids (%Fat)			

Values in bold were analyzed by wet chemistry methods.

MINERALS	
Ash (%DM)	10.3
Calcium (%DM)	1.60
Phosphorus (%DM)	0.22
Magnesium (%DM)	0.33
Potassium (%DM)	3.09
Sulfur (%DM)	0.36
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

QUALITATIVE	
pH	
Total VFA (%DM)	
Lactic Acid (%DM)	
Lactic as % of Total VFA	
Acetic Acid (%DM)	
Butyric Acid (%DM)	
1, 2 Propanediol (%DM)	
Nitrate Ion (%DM)	

Soil Contamination Probability	Probable low to none
Nitrate Probability	Probable moderate nitrate level
NIR Statistical Confidence	Excellent prediction potential

ENERGY & INDEX CALCULATIONS	
TDN (%DM)	60.0
Net Energy Lactation (Mcal/lb)	0.61
Net Energy Maintenance (Mcal/lb)	0.62
Net Energy Gain (Mcal/lb)	0.35
ME (Mcal/lb)	1.01
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.16
NDF Dig. Rate (Kd, %HR, uNDF)	4.3
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	160
Relative Forage Quality (RFQ)	168
Milk per Ton (lbs/ton)	2835
Dig. Organic Matter Index (lbs/ton)	1208
Non Fiber Carbohydrates (%DM)	29.80
Non Structural Carbohydrates (%DM)	6.2
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

Additional sample information, submitted documents and lab pictures linked to QR code





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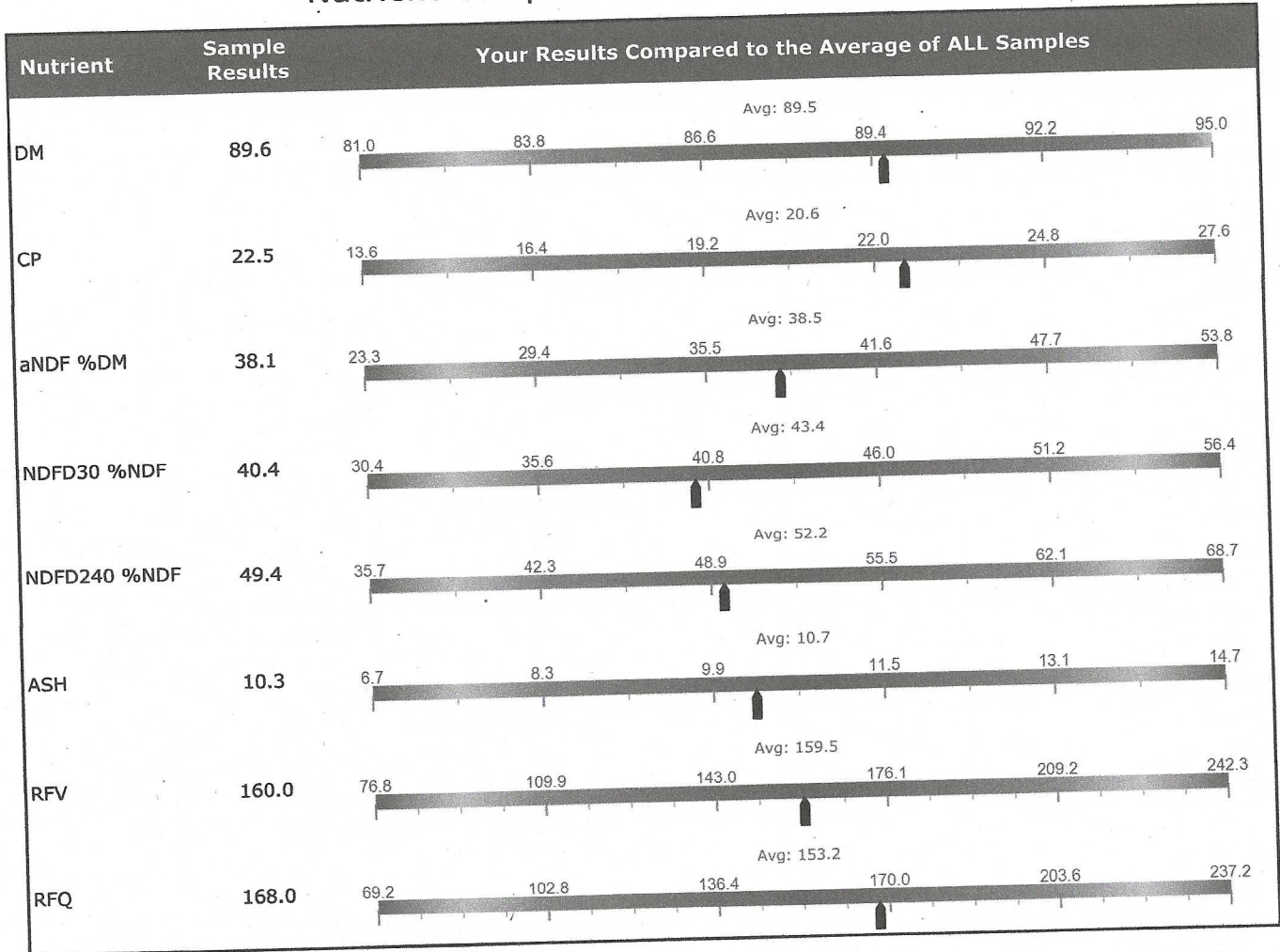
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Nutrient Comparison for : LEGUME DRY



The graphs above represent 2 years of CVAS data. Green represents 86.6% of population data; orange represents 8.8% of population data; Red represents 3.4% of population data. The black pointer indicates your data relative to the population distribution.

