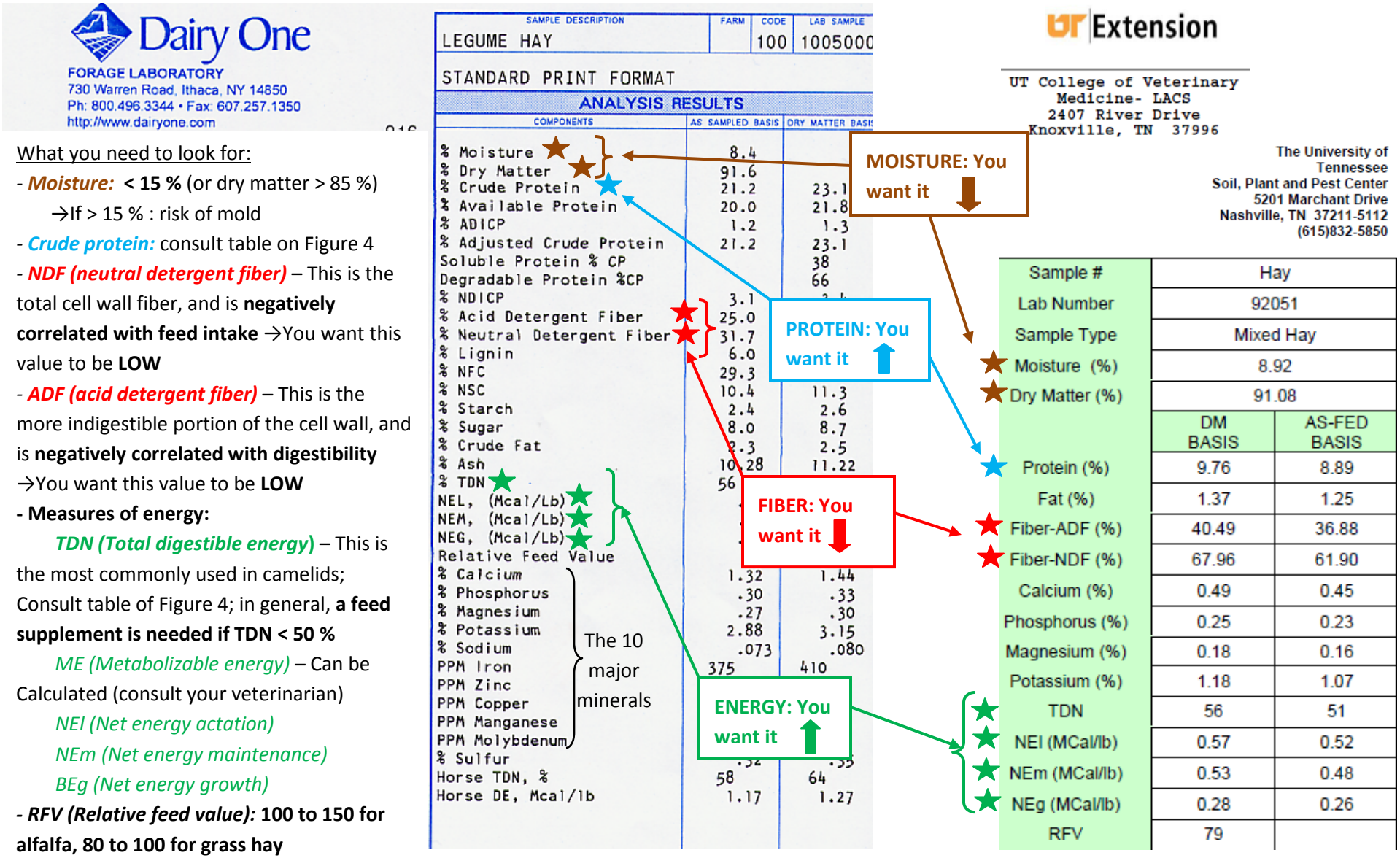
FIGURE 6: Two examples of forage analysis

Example 1: - $ 28 Basic + Minerals + Shipment
- $ 18 Basic + Shipment

Example 2: !!! + Shipment



Dairy One
FORAGE LABORATORY
730 Warren Road, Ithaca, NY 14850
Ph: 800.496.3344 • Fax: 607.257.1350
http://www.dairyone.com

SAMPLE DESCRIPTION	FARM	CODE	LAB SAMPLE
LEGUME HAY		100	1005000

STANDARD PRINT FORMAT

ANALYSIS RESULTS

COMPONENTS	AS SAMPLED BASIS	DRY MATTER BASIS
% Moisture	8.4	
% Dry Matter	91.6	
% Crude Protein	21.2	23.1
% Available Protein	20.0	21.8
% ADICP	1.2	1.3
% Adjusted Crude Protein	21.2	23.1
Soluble Protein % CP		38
Degradable Protein %CP		66
% NDICP	3.1	
% Acid Detergent Fiber	25.0	
% Neutral Detergent Fiber	31.7	
% Lignin	6.0	
% NFC	29.3	
% NSC	10.4	11.3
% Starch	2.4	2.6
% Sugar	8.0	8.7
% Crude Fat	2.3	2.5
% Ash	10.28	11.22
% TDN	56	
NEL, (Mcal/Lb)		
NEM, (Mcal/Lb)		
NEG, (Mcal/Lb)		
Relative Feed Value		
% Calcium	1.32	1.44
% Phosphorus	.30	.33
% Magnesium	.27	.30
% Potassium	2.88	3.15
% Sodium	.073	.080
PPM Iron	375	410
PPM Zinc		
PPM Copper		
PPM Manganese		
PPM Molybdenum		
% Sulfur		
Horse TDN, %	58	64
Horse DE, Mcal/lb	1.17	1.27

The 10 major minerals

MOISTURE: You want it

PROTEIN: You want it

FIBER: You want it

ENERGY: You want it

UT Extension

UT College of Veterinary Medicine- LACS
2407 River Drive
Knoxville, TN 37996

The University of Tennessee
Soil, Plant and Pest Center
5201 Marchant Drive
Nashville, TN 37211-5112
(615)832-5850

Sample #	Hay	
Lab Number	92051	
Sample Type	Mixed Hay	
Moisture (%)	8.92	
Dry Matter (%)	91.08	
	DM BASIS	AS-FED BASIS
Protein (%)	9.76	8.89
Fat (%)	1.37	1.25
Fiber-ADF (%)	40.49	36.88
Fiber-NDF (%)	67.96	61.90
Calcium (%)	0.49	0.45
Phosphorus (%)	0.25	0.23
Magnesium (%)	0.18	0.16
Potassium (%)	1.18	1.07
TDN	56	51
NEl (MCal/lb)	0.57	0.52
NEm (MCal/lb)	0.53	0.48
NEg (MCal/lb)	0.28	0.26
RFV	79	

What you need to look for:

- ***Moisture:*** **< 15 %** (or dry matter > 85 %)
  →If > 15 % : risk of mold
- ***Crude protein:*** consult table on Figure 4
- ***NDF (neutral detergent fiber)*** – This is the total cell wall fiber, and is **negatively correlated with feed intake** →You want this value to be **LOW**
- ***ADF (acid detergent fiber)*** – This is the more indigestible portion of the cell wall, and is **negatively correlated with digestibility** →You want this value to be **LOW**
- **Measures of energy:**
  TDN (Total digestible energy) – This is the most commonly used in camelids; Consult table of Figure 4; in general, **a feed supplement is needed if TDN < 50 %**
  ME (Metabolizable energy) – Can be Calculated (consult your veterinarian)
  NEl (Net energy actation)
  NEm (Net energy maintenance)
  BEg (Net energy growth)
- ***RFV (Relative feed value):*** **100 to 150 for alfalfa, 80 to 100 for grass hay**

CONSULT THE LABORATORY IF YOU HAVE QUESTIONS! - YOUR VETERINARIAN MAY ALSO BE ABLE TO HELP YOU