

Example Report you can use with clients participating in the NIRS/NUTBAL program for the first time.

STANDARD BALANCE REPORT

Case Information

Ranch Name: Really Risky Ranch
 Herd: Angus Cows
 Profile Name: Mature Angus cows
 Profile Date: 07/10/2000
 Case Name: 12345
 Case Description: July sample
 Vegetation: native range
 Pasture ID: cp3-8-13
 Animal Kind: CATTLE
 Animal Class: COW 60-? MONTHS
 Breedtype: ANGUS FS 3.4 (Really Risky Ranch)
 Standard Ref. Wt. (lbs): 1059.630
 Current Weight (lbs): 984.500
 Current Body Condition: 4.00
 Days Lactating: 72
 Days Pregnant: 0

<u>Nutritional Status</u>	<u>Intake</u>	<u>Requirement</u>	<u>Balance</u>
Crude Protein (lbs)	2.463	2.191	0.272
NEm (Mcal / day)	20.677	16.099	4.578
NEg (Mcal / day)	2.806	0.000	2.806

Performance

Weight Performance goal in lbs/day: 0.000
 Estimated weight change in lbs/day: 1.18
 Estimated body condition in 30 days: 4.51
 Performance Limited By: CRUDE PROTEIN

<u>Dry Matter Intake</u>	<u>lbs</u>	<u>% Std. Ref. Wt.</u>	<u>AUE</u>
Concentrates:	0.000	0.000	0.000
Roughage:	0.000	0.000	0.000
Forage:	29.605	2.794	1.139
Sub Total:	29.605	2.794	1.139
Calf DM/d:	1.967		0.076
Total:	31.572	2.794	1.215

Diet Quality

	<u>Overall</u>	<u>Forage</u>
CP consumption (%):	8.32	8.32
DOM consumption (%):	63.86	63.86
DOM / CP ratio:	7.68	7.68

Milk

Potential Milk Production (lb/d): 12.75
 Actual Milk Production (lb/d): 12.75

Fecal

Estimated Fecal Output (lb/day): 9.7540
 Fecal P Output (lb/day): 0.0244
 Fecal N Output (lb/day): 0.1151

Please see next page for comments.

Mr. John Keepsimple:

Lab results are:

8.32% CP
63.86% DOM
1.18% N
0.25% P

Under the conditions described, this herd is currently on a positive plane of nutrition. Now, let's take a look at the report. Under *Case Information*, scan down until you come to *Standard Reference Weight*. This is how heavy these cows would be at a body condition score of 5 given a frame score (FS) of 3.4.

Under *Nutritional Status*, the *Requirement* column describes how many pounds of crude protein and mega calories of net energy for maintenance is needed by these animals given their breed type, physiological status, environmental conditions, etc. The *Balance* column indicates whether or not intake meets what is required. The *Performance* section is self-explanatory. Cows are gaining about 1.18lbs/day ~ 35lbs in 30 days. If everything remains constant, you should see BCS improve to 4.5. You would need more protein in order to enhance performance.

The *Dry Matter Intake* section breaks down total intake by concentrates (currently feeding or considering to feed), roughage (see note), and forage (the pasture). Note: If you are currently feeding hay, silage, etc., this is read in the NIR analysis, thus reflected in the lab results ~ pasture+fed hay=lab results. NUTBAL allows you to hypothetically feed a hay, etc., to see how your cattle may perform~this row would reflect that situation. These numbers are reported in dry matter basis. With this diet quality, the cows are consuming 2.79 % of standard reference weight (or body weight). The cow described in this report would consume 29.6lbs of forage per day, or approximately 1.2 AUEs (animal unit equivalent~1000lb cow, calf, consuming 26lbs per day of dry matter).

The *Diet Quality* section takes an overall (pasture+feed) look at CP and DOM as well as just the forage. The DOM/CP ratio is an indicator of rumen efficiency. In this case, overall DOM/CP is 7.68, which is between the acceptable range of 4 to 8 with 4 being optimal. Nutrition is sufficient for these cows to reach their milking potential of 12.75lbs per day. The *Fecal* section describes in pounds what is deposited on the ground per day.

If you think your herd has not been described correctly in terms of current weight, frame score, intake, forage available, etc., please indicate on the next sample sheet or call. If you have any questions, please contact me.

Thank you,
W.E. Workwithu