



Dr. Matt Hersom

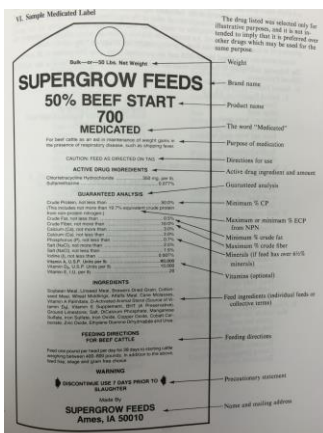
Extension Beef Cattle Specialist

Dept. of Animal Sciences



Presentation Feed Tag

- What is found on a tag
- What is not found on a tag
- Examples of feed tags
- Calculating what is in the feed bag



What is found on a Feed Tag?

- Net Weight
- Product and Brand Name
- Drug-Medicated
- Guaranteed Analysis
- Ingredients
- Directions
- Cautions
- Manufacturer

[illegible]

1. 80-Crude Fiber = % TDN
2. Use conversion table
3. Who cares

		% Ash on the feed tag					
% Crude Fiber on feed tag	2	4	6	8	10	12	
2	86.9	85.1	82.3	81.5	79.7	77.9	
3	86.1	84.3	82.5	80.7	78.9	77.1	
4	85.3	83.5	81.7	79.9	78.1	76.3	
5	84.5	82.7	80.9	79.1	77.3	75.5	
6	83.7	81.9	80.1	78.3	76.5	74.7	
7	82.9	81.1	79.3	77.5	75.7	73.9	
8	82.1	80.3	78.5	76.7	74.9	73.1	
9	81.3	79.5	77.7	75.9	74.1	72.3	
10	80.5	78.7	76.9	75.1	73.3	71.5	

1 Base: 13% crude protein, 2% crude fat
 For 16% protein feed, deduct 0.5% TDN from the estimate in the table
 For 10% protein feed, add 0.5% TDN to the estimate in the table
 For each 1% fat over 2% add 2.25% TDN to the estimate in the table
 Adapted from J. Sprinkle, 1999, Univ. of Arizona Coop. Extension bulletin AZ1054

% Ash on the feed tag						
% Crude Fiber on feed tag	2	4	6	8	10	12
2	86.9	85.1	82.3	81.5	79.7	77.9
4	85.3	83.5	81.7	79.9	78.1	76.3
6	83.7	81.9	80.1	78.3	76.5	74.7
8	82.1	80.3	78.5	76.7	74.9	73.1
10	80.5	78.7	76.9	75.1	73.3	71.5
12	78.9	77.1	75.3	73.5	71.7	69.9
14	77.3	75.5	73.7	71.9	70.1	68.3
16	75.7	73.9	72.1	70.3	68.5	66.7
18	74.1	72.3	70.5	68.7	66.9	65.1

¹ Base: 13% crude protein, 2% crude fat
For 16% protein feed, deduct 0.5% TDN from the estimate in the table
For 10% protein feed, add 0.5% TDN to the estimate in the table
For each 1% fat over 2% add 2.25% TDN to the estimate in the table
Adapted from J. Sprinkle, 1999, Univ. of Arizona Coop. Extension bulletin AZ1054

SUNRISE FEEDS

Net Weight: 50 lbs.
(22.68 KGS)

2177 Tinkling Springs Rd.
Stuarts Draft, VA 24477
Phone: 540-337-3773

CATTLE FEED
FEEDING DIRECTIONS
Feed as needed to supplement nutritional intake.

Crude Protein.....(min.).....15%
Crude Fat.....(min.).....5%
Crude Fiber.....(max.).....8%

INGREDIENTS

Corn, Oats, Roasted Soybeans, Alfalfa meal, Molasses, Sodium Silico Aluminate, Dried Kelp, Salt, Di-calcium Phosphate, Mono-calcium Phosphate, Seashell Flour, Condensed Lactobacillus Fermentation Solubles, Magnesium Oxide, Potassium Magnesium Sulfate, Dried Saccharomyces cerevisiae Fermentation Product, Dried Aspergillus oryzae Fermentation Extract, Dried Fermentation Products of Lactobacillus acidophilus, Enterococcus faecium, Lactobacillus casei, Lactobacillus plantarum, Calcium Carbonate, Yeast Culture, Dried Aspergillus niger Fermentation Extract, Sodium Selenite, Vitamin A Supplement, Vitamin D3 Supplement, Vitamin E Supplement, Vitamin B12 Supplement, 4-Calcium Pantothenate, Nicotin, Thiamine Hydrochloride, Riboflavin, Folic Acid, Polysaccharide Complexes of Zinc, Manganese, Iron, Copper and Cobalt.

Worst Case

Why? –

- Poor feeding instructions
- No TDN
- No mineral info = ash?
- No mineral listed means <6%
- TDN estimate = 72 or 80-82%
-confirmed via my formulation
-consider ingredient list

So What did you buy?

- 40.5 lbs of TDN
- 7.5 lbs of CP
- 2.5 lbs of Fat
- Minerals??
- Vitamins??

COW RATION
12

FOR BEEF CATTLE ON PASTURE

GUARANTEED ANALYSIS

Crude Protein, not less than.....12.00%
Crude Fat, not less than.....8.00%
Crude Fiber, not more than.....16.00%
Calcium, not less than.....0.80%
Calcium, not more than.....1.10%
Phosphorus, not less than.....0.40%
Salt, not less than.....0.50%
Salt, not more than.....0.80%
Vitamin A, not less than.....6,000 I.U./lb.

INGREDIENTS: Processed grain by-products, roughage products 20%, grain products, cane molasses, soybean oil, calcium carbonate, dicalcium phosphate, monocalcium phosphate, salt, sodium bentonite, vitamin A supplement, vitamin D3 supplement, vitamin E supplement, manganese sulfate, zinc sulfate, copper sulfate, cobalt sulfate, ethylenediamine dihydrochloride, sodium selenite and selenomethionine.

FEEDING DIRECTIONS: Feed COW RATION 12 in addition to hay or pasture provide fresh, clean water at all times.

Manufactured by
LYSSY & ECKEL, L.P.
POTH, TEXAS 78147
Net Wt. 50 lbs. (22.6 kg)

Pocket Book Drainer

Concerns:

1. Feeding directions
2. Crude Protein and Crude Fiber

Estimates

TDN = 62 or 77.5% my formulation = 75%

Ash = 2.05%

So what did you buy?

- 36.5 lbs of TDN
- 6.0 lbs of CP
- 0.48 lbs of Ca
- 0.20 lbs of P
- 0.38 lbs of Salt

BEEF MAKER
FOR BEEF CATTLE ON PASTURE

GUARANTEED ANALYSIS

Crude Protein, not less than.....10.00%
Crude Fat, not less than.....3.00%
Crude Fiber, not more than.....16.00%
Calcium, not less than.....0.50%
Calcium, not more than.....0.70%
Phosphorus, not less than.....0.40%
Salt, not less than.....0.20%
Salt, not more than.....0.30%
Potassium, not less than.....0.70%
Vitamin A, not less than.....4,000 I.U./lb.

INGREDIENTS: Grain products, roughage products 22%, plant protein products, cane molasses, soybean oil, calcium carbonate, dicalcium phosphate, monocalcium phosphate, salt, vitamin A supplement, vitamin D3 supplement, vitamin E supplement, manganese sulfate, zinc sulfate, ethylenediamine dihydrochloride, cobalt sulfate, sodium selenite and selenomethionine.

FEEDING RECOMMENDATIONS:

CATTLE CLASS	POUNDS PER DAY	POUNDS PER DAY	POUNDS PER DAY
	BEF MAKER	BEF MAKER	BEF MAKER
LACTATING COWS	1	1	1
WEANLING CALVES	1	1	1
GROWING HEIFERS	1	1	1
GROWING STEERS	1	1	1
FINISHING CATTLE	1	1	1

Manufactured by
LYSSY & ECKEL, L.P.
POTH, TEXAS 78147
Net Wt. 50 lbs (22.6 kg)

Pour the feed

Concerns:

Crude Protein and Crude Fiber
indicate high feeding rate

Estimates

TDN = 64 or 78.5% my formulation = 77%

Ash = 1.95%


So what did you buy?

- 38.0 lbs of TDN
- 5.0 lbs of CP
- 0.30 lbs of Ca
- 0.20 lbs of P
- 0.13 lbs of Salt

Lactating cow: 1200 lb BW = 24 lbs feed + 12 lbs of hay

Weaned calf: 500 lb BW = 10 lbs feed + 5 lbs of hay

Net Weight 50 lbs (22.68 kg)



LOCAL 12 FEED

For weaned beef cattle on pasture and feedlot animals, and maintenance of mature horses

GUARANTEED ANALYSIS	
Crude Protein (Min.)	12.00%
Crude Fat (Min.)	3.00%
Crude Fiber (Max.)	4.50%
Acid Detergent Fiber (Max.)	8.50%
Calcium (Ca) (Min.)	0.80%
Phosphorus (P) (Min.)	1.50%
Salt (Min.)	0.40%
Potassium (Min.)	0.50%
Copper (Min.)	10.0 ppm
Copper (Max.)	15.0 ppm
Selenium (Se) (Min.)	0.30 ppm
Zinc (Zn) (Min.)	75.0 ppm
Vitamin A (Min.)	1,500 IU/lb

INGREDIENTS: Iron protein, plant protein products, processed grain products, molasses products, zinc, calcium carbonate, monocalcium phosphate, sodium selenate, magnesium oxide, mineral supplement, vitamin E source, vitamin D3 supplement, choline chloride, calcium phosphates, methionine, niacin, zinc oxide, ferrous carbonate, ferrous sulfate, ferrous oxide, sulfur, copper oxide, copper sulfate, calcium iodate, cobalt carbonate

FEEDING DIRECTIONS: Feed local 12 in amounts to maintain desired body weight and condition. Generally feed at a rate of 1 to 1.5 lb. of dry body weight daily along with their forage and hay. Amounts fed will vary according to the specific needs of individuals. **REMARKS:** Feed continuously. Store this product in a cool dry area away from moisture and acids. **WARNING:** DO NOT offer any feed that is spoiled, moldy, rancid or feed inferior, abnormal in appearance or odor as it may cause illness or death.

ASR Feed & Supply, LLC
211 South Jefferson Avenue
Pawcatuck, CT 06259

Feed it to Anything

Concerns:

Crude Protein and Crude Fiber
indicate high feeding rate

Estimates

TDN = 73.5 or 83.3% my formulation = 83%
Ash = 1.95%

So what did you buy?

- 41.5 lbs of TDN
- 6.0 lbs of CP
- 0.53 lbs of Ca
- 0.20 lbs of P
- 0.33 lbs of Salt

MoorMan's®
Range Minerals A
with WeatherMaster®
646AAA

A Free-Choice Mineral
for Grazing Beef Cattle on Pasture or Range

GUARANTEED ANALYSIS	
Calcium (Ca) (Min.)	16.0% Max. 19.2%
Phosphorus (P) (Min.)	8.0% Max. 8.8%
Salt (NaCl) (Min.)	13.0% Max. 16.2%
Magnesium (Mg) (Min.)	2.2%
Potassium (K) (Min.)	0.2%
Copper (Cu) (Min.)	1,100 ppm
Selenium (Se) (Min.)	39 ppm
Zinc (Zn) (Min.)	3,800 ppm
Vitamin A (Min.)	200,000 IU per pound

INGREDIENTS: Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Salt, Magnesium Oxide, Zinc Oxide, Manganese Oxide, Copper Sulfate, Ferrous Sulfate, Mineral Oil, Potassium Sulfate, Potassium Iodide, Cobalt Carbonate, Vegetable Oil, Manganese Sulfate, Plant Protein Products, Defluorinated Phosphate, Sodium Selenate, Iron Oxide, Calcium Sulfate, Vitamin A Supplement, Vitamin D3 Supplement, Sodium Selenate, Mineral Oil, Vitamin E Supplement

FEEDING DIRECTIONS: MoorMan's Range Minerals A is a free-choice mineral formulated for grazing cattle on pasture or range receiving little or no grain. When starting to feed, remove salt and self-feed this product. **Phosphorus levels may vary from 8.0% to 8.8%.** Recommended consumption is 0.25 lb (5.6%) to 0.5 lb (11.3%) per 100 lb of dry body weight per month.

CAUTION: Consumption of this product by sheep and goats may result in copper toxicity.

ADM Alliance Nutrition, Inc.
Quincy, IL 62450-3115
Net Weight 50 lb (22.68 kg)

Mineral Supplements

Generally:

- Ca:P is 2:1
- Salt is used as intake limiter
- Look at mineral sources
- Look at feeding directions!!
- Figure out what intake should be

4 - 8 oz per 100 lbs BW per month
4 - 8 oz x 12 cwt = 48 - 96 oz/mon/cow
48 - 96 oz/month = 1.6 - 3.2 oz/day/cow

50 lbs x 16 oz/lb = 800 oz
800 oz ÷ 3.2 oz/day/cow = 250 cow
days per bag

2315356A

2315356 g 50 lb 105413 NW 2273 kg (50 lb)

SHILOH
Hi Se RANGE MINERAL

GUARANTEED ANALYSIS		INGREDIENTS	
CALCIUM (Ca)	(min) 19.00%	Monocalcium Phosphate, Dicalcium Phosphate, Calcium Carbonate, Salt, Magnesium Oxide, Iron Sulfate, Iron Phosphate, Zinc Oxide	19.00%
PHOSPHORUS (P)	(min) 8.00%	Choline Chloride, Sodium Selenate, Calcium Iodate, Ethylenediamine Diacetate, Zinc Sulfate, Vitamin A Supplement, Vitamin D3 Supplement, Vitamin E Supplement, Colloidal Silica, Defluorinated Phosphate	8.00%
SALT (NaCl)	(min) 24.00%		24.00%
MAGNESIUM (Mg)	(min) 1.00%		1.00%
IRON (Fe)	(min) 0.50%		0.50%
COPPER (Cu)	(min) 2000 ppm		2000 ppm
SELENIUM (Se)	(min) 100 ppm		100 ppm
ZINC (Zn)	(min) 2850 ppm		2850 ppm
COBALT (Co)	(min) 75 ppm		75 ppm
DIETARY FIBER	(min) 500 ppm		500 ppm
VITAMIN A	(min) 100,000 IU/lb		100,000 IU/lb
VITAMIN D3	(min) 4,000 IU/lb		4,000 IU/lb
VITAMIN E	(min) 30 IU/lb		30 IU/lb

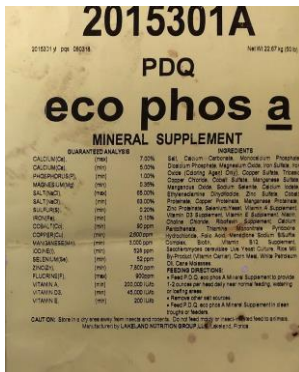
CAUTION: Store in a dry area away from moisture and acids. Do not feed moldy or rancid material to animals. This product contains added copper. Do not allow horses or other copper-sensitive species to consume this product. Consumption of this mineral by copper-sensitive species may result in copper toxicity. This product contains added selenium. Do not permit excessive consumption. Daily intake of selenium should not exceed 0.3 ppm in the total diet and daily intake of selenium should not exceed 0.3 ppm in the total diet.

ADM Alliance Nutrition Group, LLC, Leesville, Florida

Formulated Supplement

- Ca:P is 3:1
- Salt% is greater, why?
- Should I feed salt?
- Comprehensive mineral list
- 3 basic vitamins
- High Se – comes with feeding directions

50 lb bag = 800 oz
800 oz ÷ 2 oz/hd/d = 400 cow d
400 cow days ÷ 30 d = 13 cows



Specific Use Mineral Suppl.

- Ca:P is 6:1
- Salt% is high, why?
 - Salt limits intake
- Should I feed salt?
- Comprehensive mineral list
- 3 basic vitamins
- Specific intake specifications

50 lb bag=800 oz
 800 oz ÷ 1.5 oz/hd/d = 533 cow d
 533 cow days ÷ 50 cows = 10.6 d

Calculations

- \$/pound= \$ bag/ bag wt
 $\$10/50 \text{ lbs} = \$0.20/\text{lb}$
 $\text{Cost per day} = \$0.20 \times 6 \text{ lbs} = \$1.20/\text{day}$
- \$/lb Nutrient (TDN or CP) = \$/lb ÷ (%Nutrient ÷ 100)
 $\text{CP basis:} = \$0.20 \div (12\% \div 100) = \$1.67/\text{lb CP}$
 $\text{cost per day} = \$1.67 \times 6 \text{ lbs} = \$10/\text{day}$
 $\text{TDN basis:} = \$0.20 \div (77\% \div 100) = \$0.26/\text{lb TDN}$
 $\text{cost per day} = \$0.26 \times 6 \text{ lbs} = \$1.56/\text{day}$

