

Impact of Applying 32% Molasses on animal nutrition when feeding straw – grain rations

Assumptions: 1400 pound cow in late pregnancy consuming 20 pounds of straw, 13 pounds of barley grain and 1 pound of 32% beef supplement as the base ration. Cows are in good condition.

Addition of 70 to 100 pounds of 32% molasses (MolMix) to a 1000 pound bale of straw.

Prices: \$0.25 per pound for MolMix, straw - 5 cents per pound, barley 10 cents per pound, 32% supplement 25 cents per pound.

Nutrient Difference when feeding molasses on straw bales			
Nutrient	No molasses	Molasses 1.4 lbs.	Molasses 2 lbs.
Protein % total	8.3	9.5	10.0
Protein (grams)	1137	1340	1427
Energy (TDN %)	18.19	18.81	19.07
Calcium (grams)	55	55	55
Phosphorus (grams)	29	35	38
Magnesium (grams)	20	20	21
Potassium (grams)	141	151	155
Sodium (grams)	28	41	47
Vitamin A (IU's)	45355	140609	181432
Vitamin E (IU's)	90	153	181
Copper (mg)	224	357	414
Manganese (mg)	769	1229	1426
Zinc (mg)	854	1270	1449
Selenium (mg)	2.2	5.08	6.31
Cost per head per day	2.55	2.90	3.05

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