

SEA-90 Pasture Grass Trial

Goal:
Trial analysis of pasture forage fertilized with SEA-90 Ag Mineral Fertilizer.

Parameters:
Time Frame: Fertilizers applied with 4T Adams Broadcast spreader spring 2017. Grazed until June. Hay cut, baled and sampled in August 2017. Hay production was not recorded.
Total Area: 100 acres. 50 acres Control and 50 acres Test
Control (common practice): 200 lbs/acre NPK Triple 17 fertilizer
Cost: \$80/Acre - Total Cost \$4,000
Test: 80 lbs/acre SEA-90 Ag Mineral fertilizer
Cost: \$0.70 per lb or \$56 per acre - Total Cost \$2,800

Results: SEA-90 application increased crude protein 144% with 27% increases in both TDN and NEL over conventionally fertilized hay forage. ADF values decreased 22% which is also an indication of higher quality hay forage. Total fertilizer cost savings \$2,200.

TEST	Control	SEA-90	% Change
CP (Crude Protein)	9%	22%	144%
TDN (Total Digestible Nutrients)	51%	65%	27%
NEL (Net Energy for Lactation) Mcal/lb	0.52	0.66	27%
ADF (Acid Detergent Fiber)	39%	31.6%	-22%

Poor quality forage has higher ADF value.

