

HAY RESEARCH



In recent side-by-side field tests, granulated AZOMITE® was blended with fertilizer by local leading fertilizer blenders and applied to hay fields in Utah and Virginia. The following results showed more than a half ton yield increase — 3.5 tons per acre with AZOMITE® versus 2.8 tons per acre without AZOMITE®.



3.4%
improvement in
Total Digestible
Nutrients (TDN)
62.1% with AZOMITE
vs. 58.5% without
AZOMITE

4.4%
lower Acid
Detergent
Fiber (ADF)
35.5% with AZOMITE
vs. 38.6% without
AZOMITE

5%
higher Crude
Protein
15.8% with AZOMITE
vs. 12.1% without
AZOMITE

28%
improvement
in size/growth
of plants
Detailed Analyses
on following page



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Feedstuff Analysis: Grass Hay in Fredricksburg, VA

MIDWEST LABS, INC. | 13611 B ST. OMAHA NE 68144 | WWW.MIDWESTLABS.COM

DRY MATTER (WEIGHT) BASIS

COMPOUND MEASURED	11-151-5160	11-151-5159	11-306-5244
	No AZO	44 lbs. AZO/ac	88 lbs. AZO/ac
Crude Protein, %	12.1	12.7	15.8
Acid Detergent Fiber, %	38.6	36.9	35.5
Total Digestible Nutrients, %	58.5	60.5	62.1
Net Energy—Lactation (Mcal/lb)	0.60	0.62	0.64
Net Energy—Maint. (Mcal/lb)	0.57	0.60	0.61
Sulfur, %	0.16	0.21	0.28
Phosphorus, %	0.25	0.29	0.40
Potassium, %	1.75	2.36	1.56
Magnesium, %	0.16	0.25	0.34
Calcium, %	0.22	0.28	0.51
Sodium, %	<0.01	<0.01	0.04
Iron (ppm)	53	67	82
Manganese (ppm)	129	108	103
Copper (ppm)	5	5	7
Zinc (ppm)	22	38	31

Alfalfa Analysis: Utah & Virginia DAIRY ONE, INC. AND MIDWEST LABS, INC. REPORTS

DRY MATTER (WEIGHT) BASIS

COMPOUND MEASURED	Utah	Utah	Virginia	Virginia	Virginia	Virginia
	plus AZO	No AZO	plus AZO	No AZO	plus AZO	No AZO
Crude Protein, %	24.5	23.6	35.0	28.4	27.2	24.8
Acid Detergent Fiber, %	26.2	27.5	26.3	26.9	28.0	31.4
Total Digestible Nutrients, %	64	63	70.3	69.7	68.5	64.8
Net Energy—Lactation (Mcal/lb)	0.69	0.68	0.73	0.72	0.71	0.67
Net Energy—Maint. (Mcal/lb)	0.64	0.64	0.71	0.71	0.69	0.65
Sulfur, %	0.32	0.31	0.44	0.39	0.53	0.45
Phosphorus, %	0.27	0.28	0.54	0.43	0.36	0.37
Potassium, %	2.39	2.16	4.20	3.17	2.97	2.72
Magnesium, %	0.43	0.44	0.27	0.21	0.29	0.28
Calcium, %	1.70	1.60	1.57	1.62	2.58	2.17
Sodium, %	N.D.	N.D.	<0.01	<0.02	0.01	0.01
Iron (ppm)	N.D.	N.D.	174	84	99	99
Manganese (ppm)	N.D.	N.D.	70	84	77	93
Copper (ppm)	N.D.	N.D.	14	10	12	12
Zinc (ppm)	N.D.	N.D.	32	26	25	24

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