



To: Worlds Forage Superbowl
1111 Lawrence Drive
PO Box 7058
De Pere, WI 54115

Account No.: 3795 (0)
Sampled By: Worlds Forage Superb
Sampled For: GROESCHL AG SERVICE

Product: ORCHARD GRASS

Test Mode: N3
Feed Type: Hay - Grass
Sub Type: Mixed

Nutrient

Moisture 12.78%
Dry Matter 87.22%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	17.42	9.38	4.95 - 16.48
AD-ICP % of CP	%CP	4.31	12.02	5.83 - 23.42
ND-ICP w/SS	%CP	23.25		
Protein Sol.	%CP	30.77	26.07	8.61 - 48.90
ADF	%DM	31.03	40.44	31.75 - 50.23
aNDF	%DM	54.83	60.92	48.19 - 72.71
aNDFom	%DM	52.83	57.38	43.04 - 68.85
Lignin	%NDFom	7.74		
NDFD12	%NDFom	48.67	30.40	21.40 - 45.10
NDFD 30	%NDFom	68.88	49.20	36.20 - 65.52
NDFD 120	%NDFom	77.00	63.17	49.44 - 81.34
NDFD240	%NDFom	78.78	66.50	52.42 - 80.59
uNDFom12	%DM	27.12	38.70	24.80 - 48.50
uNDFom30	%DM	16.44	28.34	14.70 - 40.90
uNDFom120	%DM	12.15	20.89	8.46 - 32.77
uNDFom240	%DM	11.21	19.99	10.26 - 30.38
Sugar (ESC)	%DM	7.66	6.34	2.16 - 10.37
Sugar (WSC)	%DM	9.06	8.25	3.29 - 12.93
Starch	%DM	0.30	1.81	0.25 - 7.32
Fat (EE)	%DM	3.37	2.57	1.58 - 3.71
TFA (fat)	%DM	1.42	1.19	0.49 - 2.17
16:0 Palmitic	%TFA	23.94	24.05	18.05 - 36.79
18:0 Stearic	%TFA	4.23	6.16	3.37 - 10.76
18:1 Oleic	%TFA	5.63	8.70	4.24 - 26.61
18:2 Linoleic	%TFA	12.68	12.66	3.64 - 26.39
18:3 Linolenic	%TFA	52.11	47.06	8.75 - 59.69
Ash	%DM	9.61	9.35	6.12 - 13.03
Calcium	%DM	0.60	0.61	0.25 - 1.15
Phosphorus	%DM	0.39	0.22	0.11 - 0.35
Magnesium	%DM	0.27	0.20	0.12 - 0.33
Potassium	%DM	3.65	1.82	0.69 - 3.03
Sulfur	%DM	0.29	0.14	0.07 - 0.25

Calculations

NFC %DM 21.77
NSC %DM 9.36



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RFV		109.89
RFQ		166.71
Adjusted Crude Protein	%DM	17.42

		<u>ADF</u>	<u>OARDC</u>	<u>MLK 2013</u>
TDN	%DM	64.73	61.07	64.80
Nel 3x	Mcal/cwt	66.71	62.56	66.46
Neg	Mcal/cwt	31.29	37.95	42.49
Nem	Mcal/cwt	57.11	64.43	69.49
Milk per ton	lb/ton DM			3155