

Rumen *in vitro* Neutral Detergent Fiber Digestibility (NDFD) Guidelines

Eastern, Midwestern, and Western US Forages
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Feed Type	Traditional* NDFD 30h			Traditional NDFD 48h		
	Goal**	Average	Min	Goal	Average	Min
Alfalfa Hay or Haylage	49.2	42.4	35.6	56.8	50.2	43.6
Mixed Forage	51.7	44.4	37.3	61.8	53.6	45.7
Corn Silage	61.6	53.8	46.3	69.0	64.4	60.1
Grass Hay or Silage	53.9	44.3	35.3	68.4	59.2	50.1
Sorghum, Sudan, or Small Grain Hay or Silage	62.9	53.8	42.7	73.9	65.7	56.4

Feed Type	Standardized* NDFD 24h			Standardized NDFD 30h			Standardized NDFD 48h		
	Goal	Average	Min	Goal	Average	Min	Goal	Average	Min
Alfalfa Hay or Haylage	38.8	30.8	22.8	45.2	37.2	29.1	58.8	50.1	41.5
Mixed Forage	36.5	28.7	21.1	42.8	35.0	27.3	57.7	48.8	40.4
Corn Silage	26.1	20.6	15.0	34.1	28.2	22.3	54.2	46.8	39.5
Grass Hay or Silage	36.1	27.3	18.6	42.8	33.8	24.7	60.7	49.9	39.0
Sorghum, Sudan, or Small Grain Hay or Silage	69.3	29.4	19.7	46.7	37.0	27.1	65.3	54.6	43.9

Feed Type	uNDF 240h, % of DM		
	Goal**	Average	Max
Alfalfa Hay or Haylage	10.4	14.6	18.5
Mixed Forage	9.6	15.2	21.2
Corn Silage	5.2	8.7	12.2
Grass Hay or Silage	6.9	17.1	28.3
Sorghum, Sudan, or Small Grain Hay or Silage	8.7	14.7	20.1

*Rock River Laboratory implements both Traditional (Tilley & Terry, 1963; Goering and Van Soest, 1970) and Standardized (Goeser et al., 2009) *in vitro* rumen NDF digestion procedures.

**Goal and Minimum correspond to the 85th and 15th percentiles respectively; guidelines are based upon population statistics from four years of data with more than 600,000 U.S. samples.

References

Goeser, JP, P.C. Hoffman, and D.K. Combs. 2009. J Dairy Sci. 92:3842-3848.

Goering and Van Soest, 1970. Agric Handbook No. 379, pg 12.

Tilly and Terry, 1963. J Br Grassl Soc 18, 104-111.



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