

Table 6a. Alfalfa variety dry matter yield, milk production (expressed as percent of Vernal), RFQ index, CP and NDF (% dry matter), and NDFD (% NDF); 2009 season totals and weighted averages from a trial seeded in 2008 at Rosemount, MN.

Variety, listed in descending order of milk production	DM yield ¹ Ton/ acre	Milk, (% of Vernal) ²		RFQ ³ , index	CP ³ , % dm	NDF ³ , % dm	NDFD ⁴ , % NDF
		Lb/ acre	Lb/ ton				
VELOCITY	5.9	121	107	175	20.8	35.5	42.5
DKA 43-13	5.6	114	105	167	20.5	36.3	42.3
6417	5.5	112	105	169	21.0	35.8	41.5
6431	5.4	110	106	172	21.3	35.8	43.3
6415	5.3	109	105	173	21.0	35.5	42.3
WL 322 HQ	5.1	104	107	175	21.5	35.0	42.8
CIMARRON	5.3	104	101	154	19.8	38.3	40.3
VERNAL	5.2	100	100	147	19.3	39.0	40.0
Vernal, actual values	5.2	14580	2817	147	19.3	39.0	40.0
Mean	5.4	109	104	167	20.6	36.4	41.8
LSD (5%)	0.4	8	4	15	1.1	1.7	3.1
CV (%)	5.0	5.3	4.2	6.1	3.5	3.2	5.1

¹ A seasonal 4-harvest total taken 2009.

² Milk production (pounds milk per acre and ton) are predicted using the MILK2006 spreadsheet, version milk2006alfalfagrass, developed at the University of Wisconsin.

³ RFQ=relative forage quality index; CP=% crude protein; and NDF=% neutral detergent fiber. Variables expressed as average concentration for the season.

⁴ NDFD=neutral detergent fiber digestibility, expressed as % NDF concentration.

Table 6b. Alfalfa variety dry matter yield, milk production (expressed as percent of Vernal), RFQ index, CP and NDF (% dry matter), and NDFD (% NDF); 2009 season totals and weighted averages from a trial seeded in 2009 at Rosemount, MN.

Variety, listed in descending order of milk production	DM yield ¹ Ton/ acre	Milk, (% of Vernal) ²		RFQ ³ , index	CP ³ , % dm	NDF ³ , % dm	NDFD ⁴ , % NDF
		Lb/ acre	Lb/ ton				
CIMARRON	3.5	104	99	169	19.9	38.4	49.2
VERNAL	3.3	100	100	170	19.6	38.6	50.3
WL 322HQ	3.1	96	102	179	21.2	36.4	48.9
exp. 2302	3.1	95	103	186	21.0	35.9	50.5
VELOCITY	2.9	90	101	181	20.1	37.3	52.2
exp. 2314	2.7	85	104	191	20.9	36.2	54.1
Vernal, actual values	3.3	10023	3029	170	19.6	38.6	50.3
Mean	3.1	95	102	179	20.4	37.1	50.8
LSD (5%)	0.3	19	5	21	1.4	2.7/ns	5.8/ns
CV (%)	9.3	12.9	2.9	7.7	4.7	4.8	7.6

¹ A seasonal 2-harvest total taken 2009.

² Milk production (pounds milk per acre and ton) are predicted using the MILK2006 spreadsheet, version milk2006alfalfagrass, developed at the University of Wisconsin.

³ RFQ=relative forage quality index; CP=% crude protein; and NDF=% neutral detergent fiber. Variables expressed as average concentration for the season.

⁴ NDFD=neutral detergent fiber digestibility, expressed as % NDF concentration.