

Table 1. Forage yield of 12 alfalfa varieties seeded at Fargo, ND, in 2005 with and without traffic 5 days after harvest.[†]

Entry	2008 forage yield				2008 total	2007 total	2006 total	06-08 total	% of Vernal	
	6-18	7-18	8-20	10-20					2008	06-08
----- tons dry matter/acre -----										
<u>No traffic</u>										
X202	3.11	2.16	1.70	1.67	8.65	6.76	5.82	21.23	114.6	104.7
DS204HYB	3.09	2.08	1.76	1.35	8.28	7.01	5.88	21.17	109.7	104.4
381HYB	2.80	2.04	1.48	1.99	7.87	6.92	6.10	20.89	104.3	103.0
361HYB	3.11	2.06	1.69	1.56	8.39	6.89	6.07	21.35	111.1	105.3
WL 319 HQ	3.04	2.17	1.82	1.44	8.46	6.98	5.89	21.33	112.1	105.2
FGI-31Q109	2.90	2.23	1.81	1.44	8.38	7.07	5.70	21.15	111.1	104.3
6415	2.99	2.18	1.69	1.68	8.54	7.74	6.13	22.41	113.1	110.5
4A421	2.82	2.14	1.85	1.49	8.32	6.58	6.06	20.95	110.2	103.3
A 30-06	2.66	2.09	1.67	1.46	7.89	6.86	5.84	20.58	104.5	101.5
AmeriStand 403T	3.04	2.05	1.57	1.46	8.12	7.19	6.00	21.31	107.6	105.1
Vernal [§]	2.69	1.88	1.53	1.08	7.18	6.79	6.43	20.41	95.2	100.7
Vernal [§]	2.99	2.12	1.56	1.33	7.99	7.19	6.09	21.27	105.9	104.9
Mean	2.94	2.10	1.67	1.46	8.17	7.00	6.00	21.17	108.3	104.4
<u>One pass with tractor tire 5 days after harvest</u>										
X202	2.81	2.09	1.55	1.33	7.78	6.06	5.62	19.45	103.1	95.9
DS204HYB	2.82	2.06	1.70	1.31	7.89	6.40	5.58	19.87	104.5	98.0
381HYB	2.78	2.10	1.62	1.43	7.93	6.55	5.54	20.02	105.1	98.7
361HYB	2.80	2.02	1.77	1.54	8.12	6.67	5.88	20.67	107.6	101.9
WL 319 HQ	2.87	2.16	1.80	1.37	8.20	6.54	5.42	20.15	108.6	99.4
FGI-31Q109	3.01	2.04	1.77	1.48	8.30	6.52	5.57	20.39	110.0	100.5
6415	2.80	2.09	1.78	1.31	7.98	6.20	5.29	19.46	105.7	96.0
4A421	3.03	2.07	1.78	1.46	8.34	6.95	6.09	21.38	110.5	105.4
A 30-06	2.85	2.22	1.68	1.37	8.11	6.67	5.28	20.07	107.5	99.0
AmeriStand 403T	2.92	2.01	1.63	1.28	7.84	6.63	5.77	20.24	103.9	99.8
Vernal [§]	2.90	1.99	1.62	1.22	7.73	6.94	5.46	20.13	102.4	99.3
Vernal [§]	2.89	1.98	1.56	0.91	7.33	6.02	5.93	19.28	97.1	95.1
Mean	2.87	2.07	1.69	1.33	7.96	6.51	5.62	20.09	105.5	99.0
LSD (0.05)										
Entry (E)	NS	NS	0.28	0.17	0.50	NS	NS	NS	6.6	NS
Traffic (T)	NS	NS	NS	NS	0.19	0.43	10%	0.98	5.3	4.2
E * T	NS	NS	NS	0.24	NS	NS	NS	NS	NS	NS
CV, %	9.2	8.2	10.0	10.3	5.3	7.7	5.2	4.4	5.3	4.4

[†] Design: Split block, traffic main plot
 Seeding method: Broadcast
 Seeding rate: 25 lb/acre
 Seeding date: May 8, 2005

Fertilization: 100 K + 50 P lb/acre
 Cuttings: 2005 (2), 2006-08(4)
 Plot size: 5' by 23'
 Harvest plot: 38" by 18'

Soil type: Fargo clay
 Replicates: Three
 Herbicide: None in 2008
 Insecticide: None in 2008

[§] Differential infection by Fusarium wilt caused some of the yield differences between the Vernal entries.