

Table 2. Forage yield of 12 alfalfa varieties seeded at Fargo, ND, in 2005 with and without traffic 5 days after harvest.†

Entry	2007 forage yield				2007 total	2006 total	06-07 total	% of Vernal		
	6-5	7-6	8-10	10-25				2007	06-07	
----- tons dry matter/acre -----										
					<u>No traffic</u>					
X202	2.99	1.88	1.29	0.61	6.76	5.82	12.58	100.4	98.9	
DS204HYB	2.84	1.84	1.44	0.89	7.01	5.88	12.89	104.0	101.3	
381HYB	2.97	1.08	1.28	0.79	6.92	6.10	13.02	102.8	102.4	
361HYB	2.97	1.86	1.32	0.75	6.89	6.07	12.96	102.3	102.0	
WL 319 HQ	2.99	1.58	1.57	0.84	6.98	5.89	12.86	103.6	101.2	
FGI-31Q109	2.78	1.80	1.47	1.02	7.07	5.70	12.77	104.9	100.4	
6415	2.99	2.19	1.56	1.00	7.74	6.13	13.87	114.9	109.1	
4A421	2.57	1.98	1.17	0.85	6.58	6.06	12.65	97.6	99.4	
A 30-06	2.98	1.72	1.33	0.93	6.86	5.84	12.70	101.8	99.8	
AmeriStand 403T	2.73	2.19	1.51	0.76	7.19	6.00	13.19	106.7	103.7	
Vernal	3.11	1.48	1.43	0.77	6.79	6.43	13.23	100.9	104.0	
Vernal	3.25	1.68	1.45	0.81	7.19	6.09	13.28	106.7	104.4	
Mean	2.93	1.83	1.40	0.83	7.00	6.00	13.00	103.9	102.2	
					<u>One pass with tractor tire 5 days after cutting</u>					
X202	2.69	1.60	1.10	0.67	6.06	5.62	11.68	89.9	91.8	
DS204HYB	2.77	1.60	1.19	0.83	6.40	5.58	11.98	95.0	94.2	
381HYB	2.78	1.71	1.18	0.87	6.55	5.54	12.09	97.2	95.1	
361HYB	2.95	1.69	1.20	0.83	6.67	5.88	12.55	99.0	98.7	
WL 319 HQ	2.98	1.57	1.20	0.78	6.54	5.42	11.96	97.1	94.0	
FGI-31Q109	2.74	1.75	1.32	0.70	6.52	5.57	12.09	96.7	95.1	
6415	2.69	1.59	1.18	0.74	6.20	5.29	11.49	92.1	90.3	
4A421	2.84	1.81	1.41	0.89	6.95	6.09	13.04	103.1	102.5	
A 30-06	2.97	1.76	1.19	0.74	6.67	5.28	11.95	98.9	94.0	
AmeriStand 403T	3.01	1.56	1.33	0.72	6.63	5.77	12.40	98.4	97.5	
Vernal	3.29	1.67	1.31	0.67	6.94	5.46	12.40	103.1	97.6	
Vernal	2.95	1.19	1.18	0.70	6.02	5.93	11.95	89.4	94.0	
Mean	2.89	1.63	1.23	0.76	6.51	5.62	12.13	96.7	95.4	
LSD (0.05)										
Entry (E)	0.26	0.28	NS	NS	NS	NS	NS	NS	NS	
Traffic (T)	NS	0.16	10%	NS	0.43	10%	0.88	6.3	6.9	
E * T	NS	NS	NS	NS	NS	NS	NS	NS	NS	
CV, %	7.7	13.8	18.6	22.9	7.7	5.2	5.3	7.7	5.3	

† 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), 2006-07(4)
Plot size: 5' by 23'
Harvest plot: 38" by 18'

Soil type: Fargo clay
Replicates: Three
Herbicide: None in 2007
Insecticide: Asana @ 5 mL/qt first harvest