

## Alfalfa Variety Trial at Minot

Variety	Company	Fall	Winter	Plant	Plant	Yield	Yield	Total Yield					% Vernal
		Dormancy	Hardiness	Stand <sup>3</sup>	Height	1st cut	2nd cut	2018	2017	2016	2015	Average	
		1 - 11 <sup>1</sup>	1 - 6 <sup>2</sup>	%	inches	-----		Tons / acre <sup>4</sup>					%
Ladak II	Allied	2	2	99	24	1.34	0.80	2.14	1.49	2.17	0.56	1.59	108
FSG 329	Allied	3	2	98	23	1.14	0.69	1.83	1.21	2.24	0.71	1.50	102
54B66	Pioneer	4	--	97	26	1.23	0.69	1.92	1.27	2.11	0.68	1.50	102
Persist III	Millborn	4	2	99	21	1.10	0.69	1.79	1.45	2.09	0.65	1.50	102
AFX 457	Dow	4	2	98	23	1.10	0.65	1.74	1.17	2.33	0.67	1.48	101
Vernal	Common	2	1	99	24	1.19	0.71	1.90	1.30	2.06	0.63	1.47	100
Phirst Extra Hyb	Millborn	4	2	96	21	1.07	0.64	1.70	1.16	2.10	0.66	1.41	96
HybriForce-3400	Dow	4	2	97	24	1.12	0.66	1.78	1.22	2.00	0.55	1.39	94
LegenDairy	Croplan	3	1	99	23	1.14	0.63	1.76	1.32	1.87	0.52	1.37	93
DG4210	Dyna-Gro	4	1	95	22	1.10	0.58	1.68	1.20	1.98	0.59	1.36	93
55V50	Pioneer	5	--	98	22	1.04	0.61	1.65	1.17	1.96	0.56	1.33	91
Crave	Legend	4	2	97	20	1.11	0.71	1.81	0.99	1.94	0.57	1.33	90
8420	Integra	4	--	98	19	1.00	0.61	1.62	1.00	2.04	0.52	1.29	88
AFX 469	Dow	4	2	99	21	1.04	0.58	1.62	1.01	1.91	0.60	1.29	87
55Q27	Pioneer	5	--	98	21	1.01	0.63	1.63	1.07	1.77	0.54	1.25	85
AFX 429	Dow	4	2	96	18	0.94	0.62	1.56	1.01	1.80	0.52	1.22	83
4A420	Dow	4	2	98	19	1.02	0.52	1.54	0.83	1.92	0.55	1.21	82
Trial Mean				98	22	1.10	0.65	1.74	1.17	2.02	0.59	--	--
C.V.%				2.5	26.8	20.3	22.3	18.3	29.4	20.4	10.1	--	--
LSD 0.05				NS	NS	NS	NS	NS	NS	0.17	0.29	--	--

<sup>1</sup>Fall Dormancy: 1 = very dormant, 11 = very non dormant (see description below).

<sup>2</sup>Winter Hardiness: 1 = extremely winterhardy, 6 = non-winterhardy.

<sup>3</sup>Plant Stand: Visual estimation of winter survival.

<sup>4</sup>Yields are stated on a 0% moisture basis.

NS = no statistical difference between varieties.

*Planting Date: May 28, 2015*

*Harvest Date: 1st cutting = June 20, 2nd cutting = July 24*

*Soil Type: Williams Loam*

*Note: The 2017 and 2018 trials sustained severe drought.*

*Fall dormancy is the ability of alfalfa to grow tall in the fall. It is measured by determining plant height about 25 days after a fall cutting is taken following a spring planting. The advantage of growing less fall dormant varieties is higher yields.*