

## Roundup Ready 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>					%
Vernal	Common	2	1	99	22	1.03	0.74	1.77	1.31	1.96	0.56	1.40	100
54QR04	Pioneer	4	2	97	25	1.02	0.69	1.72	1.15	2.03	0.59	1.37	98
MegaMaxx	Legend	4	2	97	21	0.99	0.72	1.70	1.10	1.97	0.51	1.32	94
DKA 44-16	Monsanto	4	2	99	22	0.91	0.73	1.63	0.94	2.11	0.46	1.29	92
DKA 40-51	Monsanto	4	2	96	21	0.92	0.70	1.63	0.85	2.00	0.45	1.23	88
Stratica	Croplan	4	2	99	19	0.85	0.77	1.62	0.87	1.78	0.57	1.21	86
Presteez	Croplan	3	1	97	21	0.91	0.75	1.66	0.93	1.83	0.41	1.21	86
428	Allied	4	1	94	21	0.91	0.72	1.63	0.88	1.78	0.43	1.18	84
8444	Integra	4	--	99	17	0.77	0.67	1.43	0.77	1.78	0.54	1.13	81
Trial Mean				97	21	0.92	0.72	1.64	0.98	1.91	0.50	--	--
C.V.%				3.4	19.1	16.8	14.2	14.2	17.3	9.3	17.6	--	--
LSD 0.05				NS	NS	NS	NS	NS	0.25	NS	0.13	--	--

<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.*