

North Central Research Extension Center—Minot

Company	Variety
Croplan Genetics	Legendary YPQ
Garst Seed Co.	Garst 6400 HT
Dairyland/Tri-West Seed	Hybri-Force
W-L Research	WL 319 HQ
PGI Alfalfa, Inc.	A30-06
GoldLeaf Seed Co.	Gold Leaf
Trac Max	Trac Max
Public	Vernal (Control)

Alfalfa variety trial was established in the Spring of 2003

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Alfalfa Variety Trial—1st Cutting

Variety	Harvest Date	Plant Height	AD-ICP	ADF	NDF	Ca	P	Mg	K	S	Harvest Moisture	Protein Sol.	Crude Protein	Hay T/A
	June	in	%	%	%	%	%	%	%	%	%	%	%	10%
Legendary YPQ	20	24	1.9	46.2	53.9	1.2	0.3	0.3	2.3	0.3	82.2	36.4	17.5	2.7
Garst 6400 HT	20	23	2.2	46.3	57.8	1.4	0.3	0.3	2.4	0.2	74.6	31.9	16.6	4.0
Hybri-Force	20	23	2.5	38.0	48.4	1.4	0.3	0.3	2.6	0.3	79.7	33.6	19.9	3.1
WL 319 HQ	20	24	2.2	43.3	52.8	1.5	0.4	0.3	2.6	0.2	80.0	36.1	18.2	3.2
A 30-06	20	23	2.0	44.3	53.1	1.3	0.3	0.3	2.6	0.3	78.8	36.2	18.0	3.7
Gold Leaf	20	23	2.1	46.3	55.1	1.3	0.3	0.3	2.1	0.2	73.1	32.0	16.2	4.2
Trac Max	20	21	2.2	44.8	52.9	1.4	0.3	0.3	2.0	0.3	79.3	33.1	16.6	3.2
Vernal (Control)	20	21	1.9	45.3	53.6	1.4	0.3	0.3	2.1	0.2	78.8	32.0	16.9	3.6
LSD 5%	--	4	--	--	--	--	--	--	--	--	0.11	--	--	0.8
C.V.%	--	9.6	0.1	--	--	0.1	--	--	0.1	--	0.08	--	--	13.1
Mean	20	23	2.1	44.3	53.5	1.4	0.3	0.3	2.3	0.3	78.31	33.9	17.5	3.5

ADF=Acid-detergent fiber

NDF=Neutral-detergent fiber

Nutrients: Ca=calcium, P=phosphorus, Mg=magnesium, K=potassium, S=sulfur

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Alfalfa Variety Trial—2nd Cutting

Variety	Harvest Date	Plant Height	AD-ICP	ADF	NDF	Ca	P	Mg	K	S	Harvest Moisture	Protein Sol.	Crude Protein	Hay T/A
	July	in	%	%	%	%	%	%	%	%	%	%	%	10%
Legendary YPQ	26	28	1.7	33.3	42.2	1.4	0.3	0.4	2.7	0.3	78.3	31.2	20.2	2.5
Garst 6400 HT	26	27	1.5	35.3	44.1	1.5	0.3	0.4	2.6	0.3	78.2	32.4	18.9	2.4
Hybri-Force	26	26	1.6	30.7	38.4	1.8	0.3	0.4	2.3	0.4	79.4	33.1	21.1	2.3
WL 319 HQ	26	24	1.8	28.5	31.5	1.9	0.3	0.4	2.9	0.4	77.6	29.0	20.3	2.4
A 30-06	26	26	1.5	31.0	39.4	1.6	0.4	0.4	2.6	0.4	76.7	31.7	22.4	2.9
Gold Leaf	26	30	1.5	31.1	39.0	1.7	0.3	0.4	2.6	0.4	77.3	31.4	21.5	2.7
Trac Max	26	26	1.6	37.5	42.1	1.7	0.4	0.4	2.0	0.4	78.2	38.1	20.6	3.6
Vernal (Control)	26	26	1.4	31.4	39.2	1.7	0.3	0.4	2.6	0.4	78.1	33.8	20.8	2.6
LSD 5%	--	2	--	--	--	--	--	--	--	--	--	--	--	0.4
C.V.%	--	4.4	--	--	--	--	--	--	--	--	--	--	--	8.0
Mean	26	27	1.6	32.4	39.5	1.7	0.3	0.4	2.5	0.4	77.98	32.6	20.7	2.7

ADF=Acid-detergent fiber

NDF=Neutral-detergent fiber

Nutrients: Ca=calcium, P=phosphorus, Mg=magnesium, K=potassium, S=sulfur