

Nebraska 2020: Oat (Forage) Variety Trial in Cheyenne Co._Irrigated

Planting Date: April 24, 2020

Harvest Date: August 4, 2020

Brand/Company	Variety	entry	Yield rank	DM yield (lbs/a)	Crude Protein % Dry Basis	ADF % Dry Basis	TDN % Dry Basis (ADF)	NE/Maint Mcal/cwt Dry Basis (ADF)	NE/Gain Mcal/cwt Dry Basis (ADF)	NE/Lact Mcal/cwt Dry Basis (ADF)	Plant height (inch)
ProGene LLC	Kona	12	1	5633	14.53	35.23	62.40	62.97	36.63	65.32	30
ProGene LLC	NZA 739/7	4	2	5431	13.95	35.10	62.53	63.20	36.83	65.48	30
ProGene LLC	Goliath	10	3	5373	13.13	35.53	62.05	62.51	36.21	64.98	34
ND Crop Improvement	ND Heart	3	4	5325	11.53	37.45	59.85	59.16	33.16	62.54	35
ProGene LLC	Intimidator	8	5	5179	16.13	35.78	61.75	62.04	35.77	64.63	35
ProGene LLC	Proleaf 234	6	6	5084	15.95	33.78	64.05	65.40	38.82	67.09	29
ProGene LLC	Jerry	9	7	4973	11.48	36.98	60.40	60.02	33.96	63.17	34
ProGene LLC	Everleaf 156	11	8	4941	20.33	33.28	64.60	66.28	39.61	67.74	24
ProGene LLC	Monida	7	9	4926	14.23	34.45	63.25	64.25	37.79	66.25	29
ND Crop Improvement	Rockford	2	10	4923	13.48	35.30	62.33	62.90	36.56	65.26	31
ProGene LLC	Everleaf 256	5	11	4634	18.28	34.53	63.23	64.19	37.73	66.20	25
Meridian Seeds	CS Camden	1	12	4455	15.00	34.78	62.93	63.80	37.38	65.92	26
Average of all varieties				5073	14.83	35.12	62.44	63.05	36.71	65.38	30
Difference (LSD) required at 5% sig.				847	1.92	1.55	1.77	2.63	2.38	1.92	2.5
CV				12	9	3	2	3	5	2	6

LSD: Values required (\geq LSD) to determine if varieties are significantly different from one another

CV: 15 is generally acceptable value.

Trial information:

- 1 Location: Sidney in Cheyenne Co. (N.41.25122; W. 103.00290)
- 2 Planted on conventionally tillage
- 3 Herbicide: 1.5 lbs Atrazine
- 4 Seeding rate: 100 lbs/acre
- 5 Fertilizer (N): 30 lbs/acre + 48 lbs residual
- 6 Plot: 5 ft x 30 ft (8 rows with 7.5" row spacing)
- 7 Total water: 4 inches (irri)+ 3.1 inches (rainfall)