

**NDSU Carrington Research Extension Center
2016 Variety Trial Data**

Cool-season Forage

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Forage Treatment	Forage Type	Harvest Stage	Harvest Date	Plant Stand		Days to Heading	Days to Bloom	Plant Height		Harvest Moisture %	Forage DM Yield ton/ac
				Cereal sq ft	Pea sq ft			Cereal inch	Pea inch		
Stockford	forage barley	early dough	29-Jun	18.4	.	66.5	.	22.6	.	67.7	2.04
Everleaf 114	forage oat	early milk	1-Jul	20.9	.	69.8	.	22.8	.	63.9	2.04
Everleaf 126	forage oat	50 % headed	1-Jul	16.6	.	73.5	.	22.8	.	69.8	2.10
Wheatly	forage triticale	anthesis	24-Jun	11.6	.	61.0	.	32.9	.	69.4	1.73
Rockford	grain oat	early milk	29-Jun	17.8	.	61.5	.	28.9	.	65.2	2.12
Proleaf 234	forage oat	milk	1-Jul	20.0	.	65.0	.	26.8	.	64.2	2.11
Kona	forage oat	early milk-milk	1-Jul	14.0	.	64.5	.	26.6	.	64.1	2.13
NZA4, 41	forage oat	watery ripe-early milk	1-Jul	17.4	.	67.0	.	23.0	.	66.4	2.12
NZA256, 54	forage oat	watery ripe	1-Jul	18.3	.	70.5	.	23.0	.	69.1	2.07
4010/Stockford	forage pea/forage barley	flat pod/early dough	29-Jun	7.4	3.1	68.0	60.8	23.4	21.9	71.0	1.87
4010/Everleaf 114	forage pea/forage oat	Pods swell/-early milk	1-Jul	8.5	4.0	70.3	61.0	23.0	17.7	67.9	1.86
4010/Everleaf 126	forage pea/forage oat	Pods swell/50 % heading	1-Jul	10.8	4.4	73.5	61.0	21.9	18.7	69.5	1.84
4010/Wheatly	forage pea/forage triticale	flower-flat pod/anthesis	24-Jun	8.1	4.0	61.5	60.3	31.1	26.2	73.5	1.37
4010/Rockford	forage pea/grain oat	flat pod/early milk	29-Jun	9.4	3.7	62.0	61.0	30.1	22.2	70.9	1.84
Flex/Stockford	forage pea/forage barley	flat pod/early dough	29-Jun	10.2	3.0	67.0	62.0	22.8	21.5	69.1	2.00
Flex/Everleaf 114	forage pea/forage oat	flat pod/early milk	1-Jul	8.6	1.8	71.3	61.8	23.2	16.9	70.0	1.81
Flex/Everleaf 126	forage pea/forage oat	flat pod/50 % headed	1-Jul	9.9	2.1	73.5	61.3	21.8	17.7	73.5	1.78
Flex/Wheatly	forage pea/forage triticale	flower-flat pod/anthesis	24-Jun	8.5	1.8	61.0	61.5	31.9	22.6	73.5	1.43
Flex/Rockford	forage pea/grain oat	flat pod/early milk	29-Jun	9.1	1.6	62.0	62.0	30.1	22.0	68.7	1.78
PUSA#1/Stockford	forage pea/forage barley	Pods swell/early dough	29-Jun	8.8	2.4	67.3	54.3	23.2	20.5	69.7	1.90
PUSA#1/Everleaf 114	forage pea/forage oat	Pods swell/early milk	1-Jul	8.8	2.0	70.0	54.0	23.2	14.6	68.6	1.77
PUSA#1/Everleaf 126	forage pea/forage oat	Pods swell/50 % heading	1-Jul	11.2	2.2	73.5	54.3	22.8	18.5	74.1	1.68
PUSA#1/Wheatly	forage pea/forage triticale	flat pod/anthesis	24-Jun	7.4	1.7	61.0	54.3	31.1	20.1	73.1	1.36
PUSA#1/Rockford	forage pea/grain oat	Pods swell/early milk	29-Jun	9.7	1.6	61.5	54.0	29.3	18.3	67.4	1.97
Mean				12.1	2.6	66.8	58.8	25.8	20.0	69.2	1.86
C.V. (%)				16.8	19.2	0.9	0.7	5.4	14.4	3.2	10.6
LSD 0.10				3.5	0.9	0.7	0.5	1.6	3.4	2.6	0.23
LSD 0.05				4.2	1.1	0.9	0.6	2.0	4.1	3.1	0.28

Planting Date = April 21; Previous Crop = Barley

No plant lodging occurred in this trial, all treatments were rated 0

Fertility: spring N soil test = 46 lbs/ac, applied 50 lbs N prior to planting, all peas were inoculated

Weed control: blind harrow@ April 29 and post harrow@ 2 leaf on May 17

This trial experienced limited precipitation, 74% of normal (April-June), along with low soil moisture conditions at planting.

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Forage Treatment	Forage Type	CP %	ADF %	NDF %	TDN %	Ash %	Ca %	P %	Mg %	K %	S %	RFV	RFQ
Stockford	forage barley	11.6	28.5	47.6	67.4	8.7	0.45	0.25	0.21	1.86	0.16	129	178
Everleaf 114	forage oat	12.8	29.2	50.2	65.8	8.5	0.52	0.25	0.21	2.12	0.19	121	174
Everleaf 126	forage oat	11.1	31.1	49.9	66.9	10.1	0.54	0.26	0.22	2.72	0.16	119	175
Wheatly	forage triticale	13.7	34.5	54.8	59.8	9.8	0.35	0.29	0.21	2.50	0.17	104	144
Rockford	grain oat	10.8	34.5	54.5	60.9	8.5	0.37	0.24	0.19	1.99	0.15	105	149
Proleaf 234	forage oat	10.7	31.2	51.5	63.1	8.1	0.44	0.23	0.20	2.17	0.15	115	159
Kona	forage oat	10.3	32.6	51.7	64.3	7.6	0.40	0.24	0.20	1.95	0.14	113	163
NZA4, 41	forage oat	11.2	32.0	50.8	65.3	9.5	0.43	0.24	0.19	2.33	0.15	116	167
NZA256, 54	forage oat	12.3	30.4	50.8	65.9	8.7	0.47	0.27	0.20	2.58	0.18	118	173
4010/Stockford	forage pea/forage barley	13.6	27.0	44.1	67.4	8.6	0.68	0.24	0.24	1.82	0.19	140	182
4010/Everleaf 114	forage pea/forage oat	13.3	28.9	47.3	66.2	8.5	0.59	0.26	0.23	2.00	0.20	128	176
4010/Everleaf 126	forage pea/forage oat	13.4	25.2	41.9	69.7	8.3	0.76	0.26	0.24	2.29	0.20	150	191
4010/Wheatly	forage pea/forage triticale	17.1	26.9	40.5	65.8	9.3	0.94	0.27	0.27	2.27	0.24	153	172
4010/Rockford	forage pea/grain oat	12.7	31.5	46.8	62.8	8.8	0.76	0.23	0.23	2.07	0.19	125	160
Flex/Stockford	forage pea/forage barley	12.6	28.4	47.7	66.2	8.5	0.58	0.24	0.22	1.90	0.18	129	175
Flex/Everleaf 114	forage pea/forage oat	12.7	29.6	47.9	66.5	8.3	0.66	0.26	0.22	2.47	0.19	126	176
Flex/Everleaf126	forage pea/forage oat	13.8	26.8	43.7	68.7	9.0	0.76	0.27	0.24	2.53	0.20	143	187
Flex/Wheatly	forage pea/forage triticale	14.6	31.7	51.0	62.0	9.5	0.47	0.29	0.22	2.39	0.18	114	155
Flex/Rockford	forage pea/grain oat	12.8	32.5	49.6	62.2	8.7	0.62	0.25	0.20	2.19	0.18	118	157
PUSA#1/Stockford	forage pea/forage barley	13.4	28.0	45.9	66.4	9.1	0.61	0.26	0.23	2.04	0.18	134	176
PUSA#1/Everleaf 114	forage pea/forage oat	13.2	29.1	49.1	66.3	8.1	0.54	0.27	0.23	2.14	0.19	124	177
PUSA#1/Everleaf 126	forage pea/forage oat	13.6	26.9	44.2	70.1	9.2	0.67	0.28	0.24	2.40	0.19	142	193
PUSA#1/Wheatly	forage pea/forage triticale	15.3	31.4	48.8	61.4	9.7	0.63	0.27	0.23	2.38	0.19	120	152
PUSA#1/Rockford	forage pea/grain oat	11.3	33.7	51.9	62.1	8.4	0.46	0.24	0.19	2.11	0.16	111	155
	Mean	12.8	30.1	48.4	65.1	8.8	0.57	0.26	0.22	2.2	0.18	125	169
	C.V. (%)	7.0	4.1	3.9	1.6	7.6	15.9	6.2	6.6	6.3	7.8	5.4	3.1
	LSD 0.10	1.2	1.7	2.6	1.4	0.9	0.12	0.02	0.02	0.19	0.02	9	7
	LSD 0.05	1.5	2.0	3.1	1.7	1.1	0.15	0.03	0.02	0.23	0.02	11	9