

Variety	Yield							DM Yield 2 yr avg
	Dry Matter			12% Moisture		Harvest Moisture		
	1 <sup>st</sup> Cutting	2 <sup>nd</sup> Cutting	Total	1 <sup>st</sup> Cutting	2 <sup>nd</sup> Cutting	1 <sup>st</sup> Cutting	2 <sup>nd</sup> Cutting	
	-----Tons/ac-----						-----%-----	-Tons/ac-
Crested wheatgrass	0.6	0.1	0.7	0.7	0.2	67	51	--
Jerry oat	0.3	--	0.3	0.4	--	71	--	--
<sup>1</sup> Perennial rye	1.0	--	1.0	1.2	--	74	--	--
Regal meadow brome	0.9	--	0.9	1.0	--	70	--	--
Robust barley	0.4	--	0.4	0.5	--	72	--	--
Russian wildrye	0.9	--	0.9	1.0	--	65	--	--
Western wheatgrass	0.4	--	0.4	0.4	--	60	--	--
Trial Mean	0.6	--	--	0.7	--	68	--	--
C.V.%	29.8	--	--	29.8	--	1.8	--	--
LSD .05	NS	--	--	NS	--	2	--	--

<sup>1</sup>Plots in this study were established in 2001. 2003 was first year a harvest was taken on grasses.

<sup>3</sup>NS=no significant difference.

Perennial Rye Forage Trial Site 2 - 2003

Dickinson, ND

Variety	CP <sup>1</sup>		CP <sup>2</sup> Yield	-----ADF-----		-----NDF-----		-----TDN-----		-----RFV-----		Nitrate	
	----- %-----			----- %-----								ppm	
	1 <sup>st</sup> cut	2 <sup>nd</sup> cut	lbs/ac	1 <sup>st</sup> cut	2 <sup>nd</sup> cut	1 <sup>st</sup> cut	2 <sup>nd</sup> cut	1 <sup>st</sup> cut	2 <sup>nd</sup> cut	1 <sup>st</sup> cut	2 <sup>nd</sup> cut	1 <sup>st</sup> cut	2 <sup>nd</sup> cut
Crested wheatgrass	12.6	8.0	159.8	40	36	62	58	58	61	86	98	87	68
Jerry oat	11.7	--	56.2	41	--	65	--	57	--	81	--	117	--
Regal meadow brome	11.9	--	222.0	44	--	63	--	54	--	81	--	107	--
Robust barley	14.1	--	107.0	32	--	59	--	64	--	101	--	193	--
Russian wildrye	10.1	--	162.0	41	--	62	--	57	--	87	--	90	--
Western wheatgrass	12.2	--	73.5	42	--	62	--	56	--	84	--	28	--
Trial Mean	11.3	--	130.9	41	--	62	--	57	--	86	--	110	--
C.V.%	17.2	--	52.2	8.2	--	3.2	--	4.5	--	6.1	--	48.6	--
LSD .05	3.5	--	NS	6	--	NS	--	5	--	9	--	NS	--

<sup>1</sup>CP = Crude Protein, ADF = Acid Detergent Fiber, NDF = Neutral Detergent Fiber, and TDN = Total Digestible Nutrient concentrations; RFV = Relative Feed Value.

<sup>2</sup>CP calculated on three reps