

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	1.0	0.1	1.1	1.1	1.3	69	46	1.1
Jerry oat	0.8	--	0.8	0.9	--	65	--	--
<sup>1</sup> Perennial rye	--	--	--	--	--	--	--	--
Regal meadow brome	1.0	--	1.0	1.1	--	73	--	1.4
Robust barley	0.5	--	0.5	0.6	--	66	--	0.9
Russian wildrye	1.1	--	1.1	1.2	--	71	--	1.8
Western wheatgrass	1.1	--	1.1	1.3	--	61	--	1.3
Trial Mean	0.9	--	--	1.0	--	68	--	--
C.V.%	24.8	--	--	24.8	--	1.6	--	--
LSD .05	NS	--	--	NS	--	2	--	--

<sup>1</sup>Plots in this study were established in 2000; perennial rye was damaged over the winter in 2001 and killed completely over the winter in 2002.

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

Perennial Rye Forage Trial Site 1 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	18.3	13.8	399.3	35	36	59	58	62	61	97	98	117	68
Jerry oat	11.1	--	162.3	39	--	60	--	59	--	92	--	180	--
Regal meadow brome	16.5	--	328.9	42	--	59	--	56	--	88	--	142	--
Robust barley	11.5	--	118.7	36	--	58	--	61	--	99	--	113	--
Russian wildrye	12.3	--	258.5	38	--	66	--	59	--	83	--	25	--
Western wheatgrass	--	--	--	--	--	--	--	--	--	--	--	--	--
Trial Mean	13.9	--	253.5	38	--	60	--	59	--	92	--	115	--
C.V.%	7.8	--	19.3	2.8	--	3.3	--	1.4	--	4.6	--	56.3	--
LSD .05	2.0	--	NS	2	--	4	--	2	--	2	--	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 Yield calculated on three reps