Perennial Rye Forage Trial Site 1-2003 **Dickinson, ND**

Variety	Yield							DM Yield
	Dry Matter			12% Moisture		Harvest Moisture		
	1st Cutting	2nd Cutting	Total	1st Cutting	2nd Cutting	1st Cutting	2nd Cutting	2 yr avg
	----------Tons/ac----------			----------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	--	--
[1]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	--	--

[1]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.
[3]NS=no significant difference.

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Variety	CP[1]		CP[2]	--------ADF--------		--------NDF --------		--------TDN--------		-------RFV-------		Nitrate	
	--------- %---------		Yield	---------- % ----------								ppm	
	1st cut	2nd cut	lbs/ac	1st cut	2nd cut	1st cut	2nd cut	1st cut	2nd cut	1st cut	2nd cut	1st cut	2nd 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	--

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

[2]CP Yield calculated on three reps