

2003 Cool Season Forage Trial - Chemical Fallow

Dickinson, ND

Variety	Cereal	Harvest	Growth	DM				
	Height	Moisture	Stage ¹	Yield	CP ²	ADF	NDF	RFV
	inches	----%----		Ton/ac	----- % -----			
Conlon barley	30	70	2	1.6	13.8	36	58	98
Haybet barley	31	63	2	2.1	12.2	38	57	98
Hays barley	28	66	2	2.2	12.2	39	58	95
Robust barley	33	66	2	1.6	12.2	39	58	95
AC Assiniboia oat	32	62	2	1.7	10.6	37	59	95
Ebeltoft oat	28	54	2	1.7	8.4	42	62	84
Ensiler oat	36	56	2	1.9	8.1	44	65	79
Forage Plus oat	31	48	1	2.2	10.1	40	59	91
HiFi oat	34	54	2	1.5	8.0	43	64	80
Jerry oat	33	56	2	2.0	9.7	41	60	89
Killdeer oat	30	60	2	2.3	10.0	40	62	87
Morton oat	36	63	1	1.9	8.8	43	64	81
Paul oat	35	53	1	1.8	9.1	39	62	87
Triple Crown oat	34	53	1	2.1	9.5	45	63	79
Triple Crown/Arvika pea	35	61	2	1.6	11.6	39	59	91
Triple Crown/Carneval pea	32	59	1	1.6	11.3	38	62	89
Sandro triticale	36	58	2	2.1	9.8	39	58	95
SK3P speltz	43	51	2	1.8	9.1	38	58	96
Trial Mean	33	58	2	1.9	10.2	40	60	89
C.V. %	7.3	6.3	--	18.2	10.5	6.0	3.4	5.7
LSD .05	3	5	--	NS	1.8	4	3	9

¹Growth Stage at harvest: 1=Milk, 2= Early Soft Dough.

²CP=Crude Protein, ADF=Acid Detergent Fiber, NDF=Neutral Detergent Fiber, RFV=Relative Feed Value.

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Variety	Harvest	12%	DM yield			
	Moisture	Moisture	2001	2002	2003	3 yr avg
	-%-	-Tons/ac-	----- Tons/ac -----			
Conlon barley	70	1.8	2.6	1.4	1.6	1.9
Haybet barley	63	2.4	3.1	2.0	2.1	2.4
Hays barley	66	2.5	--	--	2.2	--
Robust barley	66	1.8	2.1	2.2	1.6	2.0
AC Assiniboia oat	62	2.0	--	--	1.7	--
Ebeltoft oat	54	2.0	--	--	1.7	--
Ensiler oat	56	2.2	--	--	1.9	--
Forage Plus oat	48	2.5	3.7	1.8	2.2	2.6
HiFi oat	54	1.7	--	--	1.5	--
Jerry oat	56	2.3	--	--	2.0	--
Killdeer oat	60	2.6	--	--	2.3	--
Morton oat	63	2.2	--	--	1.9	--
Paul oat	53	2.1	3.2	2.0	1.8	2.3
Triple Crown oat	53	2.4	3.3	2.1	2.1	2.5
Triple Crown/Arvika	61	1.8	3.0	1.9	1.6	2.2
Triple Crown/Carneval	59	1.9	2.9	1.8	1.6	2.1
Sandro triticale	58	2.4	4.1	2.0	2.1	2.7
SK3P speltz	51	2.1	3.3	1.7	1.8	2.3
Trial Mean	58	2.0	3.0	2.0	1.9	--
C.V. %	6.3	18.2	11.3	15.3	18.2	--
LSD .05	5	NS	0.5	NS	NS	--

Variety	Growth Stage	Contribution to Yield					
		Head	Leaf	Stem	2-Year Average		
		Head	Leaf	Stem	Head	Leaf	Stem
		-----	%	-----	-----	%	-----
Conlon barley	2	50	14	35	42	15	42
Haybet barley	2	53	14	33	41	16	42
Hays barley	2	47	17	36	--	--	--
Robust barley	2	58	14	28	54	15	32
Forage Plus oat	1	45	26	29	42	24	35
Paul oat	1	66	14	21	--	--	--
Triple Crown oat	1	64	16	19	48	20	32
SK3P spelt	2	54	12	34	39	16	45
Sandro triticale	2	54	13	33	46	15	40
Trial Mean	--	55	16	30	--	--	--
C.V. %	--	13.1	18.9	16.3	--	--	--
LSD .05	--	10	4	7	--	--	--