

Red Clover

Test Site: Fort Vermilion Experimental Farm
Seeding Year: 1987

Cultivar	Origin	Herbage Yield (DM)					
		Cut 1		Cut 2		Total	
		(t/ha)	% of Altaswede	(t/ha)	% of Altaswede	(t/ha)	% of Altaswede
Albatros	France	2.52	31	3.97	176	6.49	62
Altaswede *	Canada	8.17	100	2.25	100	10.42	100
Favorina	Czechoslovakia	5.68	70	4.32	192	10.00	96
GKT Junior	Hungary	2.38	29	3.67	163	6.05	58
Hayakita 4N	Japan	3.04	37	3.46	154	6.50	62
Hungarotetra	Hungary	1.73	21	2.77	120	4.51	43
Jubilatka	USSR	4.69	57	3.95	176	8.64	83
Karim	France	1.75	21	3.51	156	5.26	50
Maneta 4N	East Germany	4.46	55	3.57	159	8.03	77
Mistral	France	2.18	27	3.84	171	6.02	58
Nessonas	Greece	0.00	0	0.00	0	0.00	0
Nike	Poland	3.29	40	4.06	180	7.35	71
Parka	Poland	4.65	57	4.89	217	9.55	92
Reichersberger Neu	Austria	4.18	51	4.28	190	8.45	81
Select 1	Romania	2.15	26	3.37	150	5.52	53
Mean		3.63		3.71		7.34	
L.S.D. (P = .05)		0.87		0.75		1.24	

SCREENING TRIALS

Cultivar Screening Trial
Seeding Year: 1986

Species	Cultivar	Origin	Hardiness		Height (cm)	Date Ripe		Seed Yield			
			1987	1988		1987	1988	kg/ha		% of *	
								1987	1988	1987	1988
Alfalfa (<u>Medicago sativa</u> L.)											
	555	United States	9.0	8.7	57	Sep 11	Sep 22	288	213	46	40
	581	United States	9.0	6.7	59	Sep 11	Sep 22	240	120	39	23
	5929	United States	9.0	1.3	62	Sep 11	Sep 22	147	47	24	9
	Alouette	Canada	9.0	9.0	62	Sep 11	Sep 22	705	539	114	102
	Apollo II	United States	9.0	9.0	60	Sep 11	Sep 22	606	383	98	72
	Armor	United States	9.0	9.0	63	Sep 11	Sep 22	702	452	113	85
	Beaver*	Canada	9.0	9.0	62	Sep 11	Sep 22	620	529	100	100
	Caliverde	United States	9.0	7.3	58	Sep 11	Sep 22	239	65	39	12
	Cheronia	Greece	9.0	8.0	60	Sep 11	Sep 22	181	114	29	22
	CUF 101	United States	9.0	1.0	55	Sep 11	Sep 22	89	11	14	2
	Dart	United States	9.0	9.0	60	Sep 11	Sep 22	695	313	112	59
	DK 135	United States	9.0	9.0	55	Sep 11	Sep 22	530	265	85	50
	Drummor	United States	9.0	9.0	58	Sep 11	Sep 22	638	265	103	50
	Honeoye	United States	9.0	9.0	57	Sep 11	Sep 22	669	446	108	84
	Husky	United States	9.0	9.0	57	Sep 11	Sep 22	577	250	93	47
	Itaca	Italy	9.0	5.3	57	Sep 11	Sep 22	261	94	42	18
	Julus	Sweden	9.0	9.0	58	Sep 11	Sep 22	593	378	96	71
	Pierce	United States	9.0	5.0	60	Sep 11	Sep 22	277	143	45	27
	Roma	Italy	9.0	9.0	62	Sep 11	Sep 22	239	127	39	24
	San Isidro	Spain	9.0	6.7	50	Sep 11	Sep 22	51	21	8	4
	Surpass	United States	9.0	9.0	58	Sep 11	Sep 22	470	242	76	46
	Szentesi Rona	Hungary	9.0	9.0	58	Sep 11	Sep 22	673	551	109	104
	Thunder	United States	9.0	9.0	63	Sep 11	Sep 22	669	362	108	68
	Mean							436.1	257.9		
	L.S.D. (P = 0.05)							250.5	215.5		

Sainfoin (Onobrychis viciifolia Scop.)

Melrose *	Canada	5.0	9.0	58	-	Aug 3	485	2018	100	100
-----------	--------	-----	-----	----	---	-------	-----	------	-----	-----

Cultivar Screening Trial
Seeding Year: 1986

Species	Cultivar	Origin	Hardiness		Height (cm)	Date Ripe		Seed Yield			
			1987	1988		1987	1988	kg/ha		% of *	
								1987	1988	1987	1988
Sainfoin (<i>Onobrychis viciifolia</i> Scop.) cont'd											
	Nova	Canada	5.0	9.0	62	-	Aug 3	374	1586	77	79
	Visnovsky	Czechoslovakia	5.0	7.7	53	-	Aug 3	53	305	11	15
	Mean							304.0	1303.2		
	L.S.D. (P = .05)							540.8	1837.8		
Hard Fescue (<i>Festuca ovina</i> L.)											
	Barreppo	Netherlands	9.0	9.0	40	Jul 6	Jul 14	117	197	54	63
	Biljart*	Netherlands	9.0	9.0	42	Jul 6	Jul 14	218	315	100	100
	Espro	Poland	9.0	9.0	40	Jul 6	Jul 14	242	431	111	137
	Fakir	Netherlands	9.0	9.0	45	Jul 6	Jul 14	183	374	84	119
	Galop	Netherlands	9.0	9.0	45	Jul 6	Jul 14	156	520	72	165
	Reliant	United States	9.0	9.0	44	Jul 6	Jul 14	265	516	122	164
	Silvana	Netherlands	9.0	9.0	45	Jul 6	Jul 14	224	415	103	132
	Mean							191.9	395.4		
	L.S.D. (P = .05)							112.2	193.6		
Meadow Fescue (<i>Festuca pratensis</i> Huds.; <i>F. elatior</i> auct.)											
	Leopard	West Germany	9.0	9.0	72	Jul 15	Jul 20	524	297	79	45
	Liforte	West Germany	9.0	9.0	74	Jul 15	Jul 20	858	459	130	70
	Mimer*	Sweden	9.0	9.0	74	Jul 15	Jul 20	660	655	100	100
	Pluto	Netherlands	9.0	9.0	68	Jul 15	Jul 20	490	342	74	52
	Stella	Netherlands	9.0	9.0	71	Jul 15	Jul 20	605	325	92	50
	Mean							617.9	415.5		
	L.S.D. (P = .05)							235.6	157.7		

Cultivar Screening Trial
Seeding Year: 1986

Species	Cultivar	Origin	Hardiness		Height (cm)	Date Ripe		Seed Yield			
			1987	1988		1987	1988	kg/ha		% of *	
Red Fescue (<i>Festuca rubra</i> L.)											
	Alltop (1)	West Germany	9.0	9.0	51	Jul 13	Jul 14	203	201	34	22
	Boreal* (3)	Canada	9.0	9.0	58	Jul 13	Jul 14	593	913	100	100
	CRF 85 (3)	United States	9.0	9.0	49	Jul 11	Jul 14	35	360	6	39
	Laurent (1)	Belgium	9.0	9.0	48	Jul 10	Jul 14	134	273	23	30
	Rosana (1)	Czechoslovakia	9.0	9.0	43	Jul 10	Jul 14	56	138	9	15
	Victory (1)	United States	9.0	9.0	52	Jul 10	Jul 14	231	438	39	48
	Mean							219.0	387.1		
	L.S.D. (P = .05)							273.7	150.9		
	(1) Rhizomes absent or rudimentary										
	(2) Slender rhizomes										
	(3) Strong rhizomes										
Tall Fescue (<i>Festuca arundinacea</i> Schreb.)											
	Adora	France	9.0	9.0	74	Jul 17	Jul 20	84	161	22	40
	Au-triumph	United States	9.0	9.0	60	Jul 15	Jul 20	239	604	62	151
	Clemfine	United States	9.0	9.0	75	Jul 17	Jul 20	120	372	31	93
	Donia	France	9.0	9.0	63	Jul 17	Jul 20	217	334	56	84
	Falcon	United States	9.0	9.0	71	Jul 17	Jul 20	237	383	61	96
	Kentucky 31*	United States	9.0	9.0	65	Jul 15	Jul 20	386	400	100	100
	Mustang	United States	9.0	9.0	61	Jul 17	Jul 20	294	359	76	90
	Mean							200.5	373.3		
	L.S.D. (P = .05)							198.5	185.5		

Cultivar Screening Trial
Seeding Year: 1986

Species	Cultivar	Origin	Hardiness		Height (cm)	Date Ripe		Seed Yield			
			1987	1988		1987	1988	kg/ha		% of *	
								1987	1988	1987	1988
Orchardgrass (<u>Dactylis glomerata</u> L.)											
	Arly	France	9.0	5.0	73	Jul 13	-	295	0	46	0
	Baza	Poland	9.0	8.0	91	Jul 17	Jul 25	362	24	56	15
	Kay*	Canada	9.0	8.0	87	Jul 13	Jul 18	645	157	100	100
	Keszthelyi 54	Hungary	9.0	6.0	83	Jul 13	Jul 25	452	28	70	18
	Leigestra	West Germany	9.0	8.0	74	Jul 13	Jul 25	536	27	83	17
	Shinyo	Japan	9.0	7.0	72	Jul 13	-	346	0	54	0
	Sparta	Denmark	9.0	8.0	73	Jul 13	Jul 25	294	9	46	6
	Trebina	East Germany	9.0	8.0	75	Jul 13	Jul 18	679	71	105	45
	Mean							451.1	39.5		
	L.S.D. (P = .05)							200.8	80.6		
Hybrid Ryegrass (<u>Lolium x Boucheanum</u> Kunth)											
	Aloha	Ireland	6.0	0.0	62	Jul 24	(1)	526	0	66	0
	Butler*	Denmark	6.0	0.0	63	Jul 23		795	0	100	0
	Esga	Poland	3.6	0.0	62	Jul 25		664	0	84	0
	Gazella	Switzerland	6.6	0.0	58	Jul 21		420	0	53	0
	Tetrelite	United States	6.6	0.0	63	Jul 24		786	0	99	0
	Mean							638.3			
	L.S.D. (P = .05)							690.0			
	(1) Note: no harvest, winter killed										
Red Top (<u>Agrostis gigantea</u> Roth)											
	Freja	Sweden	9.0	9.0	48	Aug 11	Aug 4	375	122	69	37
	Gosta	Poland	9.0	9.0	63	Aug 11	Aug 4	308	147	57	45

Cultivar Screening Trial
Seeding Year: 1986

Species	Cultivar	Origin	Hardiness		Height (cm)	Date Ripe		Seed Yield			
			1987	1988		1987	1988	kg/ha		% of *	
								1987	1988	1987	1988
Red Top (<i>Agrostis gigantea</i> Roth) cont'd											
	Kita	Poland	9.0	9.0	67	Aug 11	Aug 4	386	225	71	69
	Listra	West Germany	9.0	9.0	62	Aug 11	Aug 4	394	221	73	68
	NFG*	West Germany	9.0	9.0	68	Aug 11	Aug 4	541	327	100	100
	Streaker	United States	9.0	9.0	63	Aug 11	Aug 4	452	273	84	83
	Zygma	Poland	9.0	9.0	67	Aug 11	Aug 4	360	233	67	71
	Mean							395.3	221.4		
	L.S.D. (P = .05)							123.7	77.7		
Perennial Ryegrass (<i>Lolium perenne</i> L.)											
	Anado	Denmark	9.0	0.0	48	Jul 27	(1)	483	0	59	0
	Antrim	United Kingdom	9.0	0.0	38	Jul 30		444	0	55	0
	Argone	Poland	9.0	0.0	40	Jul 31		337	0	41	0
	Barylou	Netherlands	9.0	0.0	32	Jul 17		263	0	32	0
	Chantal	Denmark	9.0	0.0	48	Jul 30		354	0	44	0
	Cockade	United Kingdom	9.0	0.0	40	Jul 31		505	0	62	0
	Danny	Denmark	9.0	0.0	43	Jul 30		504	0	62	0
	Duramo	West Germany	9.0	0.0	43	Jul 28		396	0	49	0
	Edgar	Netherlands	9.0	0.0	37	Jul 27		385	0	47	0
	Gambit	Netherlands	9.0	0.0	42	Jul 30		141	0	17	0
	Gator	United States	9.0	0.0	33	Jul 27		710	0	87	0
	Hella	Denmark	9.0	0.0	37	Jul 17		342	0	42	0
	Hermes	Netherlands	9.0	0.0	37	Jul 28		539	0	66	0
	Honneur	Netherlands	9.0	0.0	37	Jul 31		356	0	44	0
	Kerdion	Netherlands	9.0	0.0	37	Jul 31		325	0	40	0
	Lilasso	West Germany	9.0	0.0	43	Jul 29		761	0	94	0
	Limage	West Germany	9.0	0.0	40	Jul 30		417	0	51	0

(1) Note: no harvest, winter killed

Cultivar Screening Trial
Seeding Year: 1986

Species	Cultivar	Origin	Hardiness		Height (cm)	Date Ripe		Seed Yield			
			1987	1988		1987	1988	kg/ha		% of *	
								1987	1988	1987	1988
Perennial Ryegrass (<i>Lolium perenne</i> L.) cont'd											
	Limes	West Germany	9.0	0.0	35	Jul 31	(1)	219	0	27	0
	Lisabelle	West Germany	9.0	0.0	38	Jul 30		377	0	46	0
	Manhattan	United States	9.0	0.0	35	Jul 21		664	0	82	0
	Master	Netherlands	9.0	0.0	30	Jul 28		424	0	52	0
	Matura	East Germany	9.0	0.0	47	Jul 31		447	0	55	0
	Mondial	Netherlands	9.0	0.0	37	Jul 30		460	0	57	0
	Norlea*	Canada	9.0	0.0	43	Jul 30		813	0	100	0
	Outsider	Netherlands	9.0	0.0	38	Jul 31		553	0	68	0
	Ovation	Netherlands	9.0	0.0	32	Jul 24		680	0	84	0
	Palmer	United States	9.0	0.0	38	Jul 22		932	0	115	0
	Patora	Denmark	9.0	0.0	40	Jul 31		360	0	44	0
	Pelleas	Netherlands	9.0	0.0	38	Jul 30		406	0	50	0
	Peramo	West Germany	9.0	0.0	43	Jul 19		767	0	94	0
	Polly	Denmark	9.0	0.0	48	Jul 27		493	0	61	0
	Rally	Denmark	9.0	0.0	47	Jul 31		478	0	59	0
	Ranger	West Germany	9.0	0.0	38	Jul 27		661	0	81	0
	Riikka	Finland	9.0	0.0	47	Jul 30		820	0	101	0
	Spargo	Netherlands	9.0	0.0	48	Jul 30		421	0	52	0
	Tasdale	Australia	9.0	0.0	40	Jul 17		535	0	66	0
	Mean							493.6			
	L.S.D. (P = .05)							267.8			

(1) Note: no harvest, winter killed

Cultivar Screening Trial
Seeding Year: 1987

Species	Cultivar	Origin	Hardiness	Height (cm)	Date Ripe	Seed Yield (kg/ha)	% of St*
Alfalfa (<i>Medicago sativa</i> L.)							
	88	United States	9.0	58	Sep 22	751	104
	Acclaim	United States	9.0	58	Sep 22	615	85
	Admiral	United States	9.0	58	Sep 22	675	93
	Argenta	Italy	9.0	53	Sep 22	468	65
	Arrow	United States	9.0	65	Sep 22	881	122
	Award	United States	9.0	60	Sep 22	399	55
	Barrier	Canada	9.0	58	Sep 22	712	99
	Beaver	Canada	9.0	57	Sep 22	722	100
	Cossack	United States	9.0	60	Sep 22	623	86
	Dedinovskaya	USSR	9.0	52	Sep 22	100	14
	Eagle	United States	9.0	60	Sep 22	777	108
	Excalibur	United States	9.0	63	Sep 22	795	110
	Maya	France	9.0	65	Sep 22	773	107
	Nadejda 2	Bulgaria	9.0	65	Sep 22	730	101
	Nagyszenasi	Hungary	9.0	53	Sep 22	434	60
	Noble	United States	9.0	57	Sep 22	726	101
	OK1-1	Hungary	9.0	58	Sep 22	560	78
	Oneida VR	United States	9.0	62	Sep 22	693	96
	Sunter	Turkey	9.0	70	Sep 22	752	104
	Surpass	Canada	9.0	60	Sep 22	1033	143
	Ufimovskaya	USSR	9.0	58	Sep 22	617	85
	Mean					658.9	
	L.S.D. (P = .05)					306.9	

Cultivar Screening Trial
Seeding Year: 1987

Species	Cultivar	Origin	Hardiness	Height (cm)	Date Ripe	Seed Yield (kg/ha)	% of St*
Birdsfoot Trefoil (<u>Lotus corniculatus</u> L.)							
	Leo *	Canada	9.0	(1)	Aug 29	288	100
	Oberhaunstadter	West Germany	7.7		Aug 29	435	151
	Rocco	West Germany	8.7		Aug 29	344	119
	Mean					355.7	
	L.S.D. (P = 0.05)					235.4	
	(1) Height not taken						
Bromegrass (<u>Bromus inermis</u> Leyss.)							
	Carlton	Canada	9.0	103	Aug 15	1453	100
	Chisminsky	USSR	9.0	110	Aug 15	1799	124
	Hungaria	Hungary	9.0	92	Aug 15	1235	85
	Keszthelyi 51	Hungary	9.0	103	Aug 15	792	55
	Pervomaysky	USSR	9.0	107	Aug 15	2141	147
	Szarvasi 52	Hungary	9.0	107	Aug 15	950	65
	Una (1)	Poland	9.0	73	Aug 15	455	31
	Mean					1260.6	
	L.S.D. (P = .05)					495.0	
	(1) <u>Bromus willdenowii</u> Kunth (<u>B. catharticus</u> Vahl)						
Orchardgrass (<u>Dactylis glomerata</u> L.)							
	Amfly	France	9.0	72	Jul 25	65	13
	Bepro	Poland	9.0	83	Jul 18	233	46
	Drogobirchanka	USSR	9.0	88	Jul 18	372	73
	Kay	Canada	9.0	90	Jul 18	512	100