

FORAGE INTRODUCTIONS

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FORAGE INTRODUCTIONS

C. R. Elliott
1972

FOREWORD

This is our fourth report on the performance of introduced cultivars of grasses and legumes. All available data are included thus this report replaces Publications NRG 69-16, 70-16 and 71-16.

Data are obtained from single plots comprising 5 rows, 30.5 cm (1 foot) apart and 6.1 metres (20 feet) long. Two rows are harvested for herbage and the remaining 3 for seed. Each cultivar is seeded in 3 successive years and each seeding is retained for 3 harvest years. Weeds are controlled by both mechanical and chemical means. Plots are fertilized annually. Irrigation is employed only in the year of seeding if required to ensure complete stands. While many observations are recorded, emphasis is placed on winter hardiness and seed yield.

Key to Symbols

Ratings 1 to 9 (9 best), - (not rated)
cm - centimeters (1 inch = 2.54 cm)
kg/ha - kilograms per hectare
lb/acre - pounds per acre

D.C. = double cut
S.C. = single cut
Tetra = tetraploid
Dip. = diploid

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GRASSES

Species	Cultivar	Origin	Hardi- ness (rating)	Herbage Yield	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments
							lb/acre avg	high	kg/ha avg	high		
Bentgrass (Agrostis gigantea)												
	N.F.G.	Germany	8	1	15/8	3	136	214	152	240	35	
Bentgrass - Colonial (A. tenuis)												
	Astoria	U.S.A.	8	4	15/8	5	55	101	62	113	-	
	Boral	Sweden	8	4	15/8	8	132	288	148	323	20	
	Exeter	Canada	6	2	15/8	3	42	54	47	60	21	
	Highland	U.S.A.	7	3	15/8	5	44	73	49	82	-	
	Saboval	Gt. Britain	9	1	28/7	1	2	2	2	2	25	
	Utverk	Iceland	8	1	10/8	3	85	203	95	227	23	
	Varmlandsk	Sweden	8	4	15/8	6	139	250	156	280	20	
Bentgrass - Creeping (A. palustris)												
	Penncross	U.S.A.	6	1	15/8	6	29	91	32	102	14	
	S-4979	Canada	8	1	15/8	9	74	130	83	146	12	
	Seaside	U.S.A.	8	5	15/8	7	63	132	71	148	-	
Bluegrass - Canada (Poa compressa)												
	Canon	Canada	9	3	10/8	5	268	461	300	516	52	
	Common	Canada	9	4	30/7	5	122	242	137	271	-	
Bluegrass - Kentucky (P. pratensis)												
	Adorno	Netherlands	9	3	20/7	4	105	197	118	221	50	
	Altra Cl	U.S.A.	9	4	20/7	10	204	528	229	592	43	
	Apoll 31	Denmark	9	3	20/7	2	161	309	180	346	62	
	Arista	Netherlands	9	3	26/7	2	250	491	280	550	35	
	Atlas	Sweden	9	4	20/7	3	288	516	323	578	80	
	Barkenta	Netherlands	9	3	26/7	2	246	471	276	528	37	
	Baron	"	9	3	2/8	2	423	836	474	936	40	
	Campus	Germany	9	3	2/8	2	105	208	118	233	42	
	Captan	Netherlands	9	3	24/7	2	366	701	410	785	50	
	Common	Canada	9	5	20/7	25	115	587	129	658	53	
	Cougar	U.S.A.	9	3	22/7	8	245	733	274	821	30	

Species	Cultivar	Origin	Hardi- ness Herbage Yield (rating)	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments	
						lb/acre avg	high	kg/ha avg	high			
	Dasas	Denmark	9	3	20/7	2	191	373	214	418	55	
	Delft	Netherlands	9	3	2/8	2	79	148	88	166	42	
	Delta	Canada	9	6	24/7	6	170	561	191	629	58	
	Dryland	Canada	9	3	20/7	6	63	133	71	149	45	
	E.F.S. 64	Denmark	9	3	22/7	2	220	430	246	482	55	
	Fylking	U.S.A.	9	3	20/7	8	69	274	77	307	35	
	Golf	Sweden	9	3	28/7	2	435	816	487	914	40	
	Hg. 7217	Denmark	9	5	28/8	1	1005	1005	1126	1126	55	
	Hg. 7222	"	9	1	1/8	1	48	48	54	54	40	
	Kahnstein	"	9	3	20/7	2	210	412	235	461	60	
	Merion	U.S.A.	9	3	24/7	27	93	265	104	297	38	
	Mervel	Belgium	9	3	24/7	3	161	345	180	386	55	
	Monopoly	Netherlands	9	3	28/7	2	110	208	123	233	52	
	Newport	U.S.A.	9	5	30/7	7	105	246	118	276	51	
	Norma Otofte	Denmark	9	3	20/7	2	221	430	248	482	55	
	Nugget	U.S.A.	9	3	24/7	9	139	240	155	269	30	
	Olymprisp	Germany	9	3	2/8	2	287	542	321	607	47	
	Otofte	Denmark	9	3	20/7	2	213	407	239	456	53	
	Park	U.S.A.	9	6	24/7	18	115	448	129	502	52	
	Prato	Netherlands	9	3	22/7	10	205	461	230	517	30	
	Primo	Sweden	9	4	20/7	3	275	491	308	550	60	
	SK-46	Poland	9	4	20/7	9	162	357	181	400	51	
	Sobra	Sweden	9	2	20/7	2	141	252	158	282	50	
	Soma Hunsballe	Denmark	9	3	24/7	3	227	468	254	524	55	
	Spaths Hohenheimer	Germany	9	2	27/7	2	169	329	189	368	45	
	Stensballe	Denmark	9	3	22/7	2	170	331	190	371	60	
	Sydsport	Sweden	9	4	20/7	3	249	459	279	514	65	
	T-No.34	Denmark	9	5	16/7	3	156	235	175	263	49	
	Windsor	U.S.A.	9	2	22/7	2	125	240	140	269	47	
Bluegrass - Upland (<i>P. glaucantha</i>)												
	Draylar	U.S.A.	9	3	15/8	8	164	252	184	282	40	

Species	Cultivar	Origin	Hardi- ness (rating)	Herbage Yield	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments
							lb/acre avg	kg/ha high	lb/acre avg	kg/ha high		
Bromegrass (Bromus inermis)												
	Achenbach	U.S.A.	9	4	16/8	3	222	324	249	363	-	Southern
	Anto	Poland	9	7	11/8	6	282	718	316	805	86	Northern
	Baylor	U.S.A.	9	5	15/8	6	440	805	493	902	90	Southern
	Blair	"	9	6	15/8	6	430	791	482	886	90	Southern
	Carlton	Canada	9	7	15/8	25	382	893	428	1001	86	Northern
	Frigga	Sweden	9	6	16/8	3	575	1010	644	1131	95	Northern
	"G"	Hungary	9	3	16/8	1	146	146	164	164	75	
	Lancaster	U.S.A.	9	5	16/8	6	404	813	452	911	80	Southern
	Landrace	Hungary	9	3	16/8	1	153	153	171	171	80	
	Lincoln	U.S.A.	9	5	15/8	11	361	951	404	1065	90	Southern
	Magna	Canada	9	7	15/8	9	761	1246	652	1396	98	Intermediate
	Manchar	U.S.A.	9	7	12/8	32	270	1238	302	1388	89	Intermediate
	Polar	U.S.A.	9	7	15/8	14	426	948	477	1063	90	Northern
	Redpatch	Canada	9	7	10/8	10	234	599	262	671	90	Southern
	Regar	U.S.A.	9	3	7/8	1	185	185	207	207	85	
	S.A.C.	"	9	7	12/8	9	225	565	252	633	94	Southern
	Saratoga	"	9	7	13/8	13	200	533	224	597	94	Southern
	ZK	Czech.	9	6	11/8	6	310	749	348	840	100	Northern
Fescue - Chewings (Festuca rubra var. commutata)												
	42-14	Netherlands	9	3	20/7	9	77	174	195	195	40	
	Barfalla	"	9	3	23/7	9	97	248	107	278	45	
	Cascade	U.S.A.	9	3	28/7	3	172	270	193	302	57	
	Cebeco	Netherlands	9	3	28/7	6	64	139	72	156	50	
	Cottage	France	9	1	10/7	5	1	5	1	6	25	
	Dawson	Netherlands	9	3	22/7	9	106	211	119	237	50	
	Encota	"	9	4	22/7	9	187	490	209	549	45	
	Erika	Sweden	9	5	24/7	9	128	352	143	395	54	
	Famosa	Belgium	9	3	28/7	3	146	263	164	295	45	
	Flevo	Netherlands	9	3	22/7	6	99	229	111	256	50	
	Golfrood	"	8	5	24/7	16	125	594	140	667	45	
	Highlight	"	9	4	22/7	18	185	756	207	847	42	
	Jamestown	U.S.A.	9	3	28/7	3	188	379	211	424	51	
	Koket	Netherlands	9	3	24/7	6	165	480	185	538	50	
	Oase	"	9	5	20/7	10	92	247	103	277	48	
	Rolax	Belgium	9	4	24/7	9	129	421	144	472	52	

Species	Cultivar	Origin	Hardi- ness Herbage Yield (rating)	Seed Ripe da.,mo.	Data Years	Seed Yields				ht. cm	Comments	
						lb/acre avg	kg/ha high	kg/ha avg	kg/ha high			
Fescue - Creeping red (F. rubra)												
	217-66	Gt. Britain	9	1	24/7	3	75	224	84	251	35	
	Agio	Netherlands	9	2	28/7	6	178	341	199	382	50	
	Amboise	France	9	1	25/7	1	9	9	10	10	35	
	Arctared	U.S.A.	9	6	20/7	12	308	960	345	1076	56	
	Bargena	Netherlands	9	5	26/7	8	230	533	258	597	55	
	Bergere	France	9	4	26/7	9	198	432	222	484	55	
	Blere	"	9	2	28/7	1	53	53	59	59	55	
	Boreal	Canada	9	5	26/7	16	437	1767	489	1981	55	
	Cheverny	France	9	1	28/7	1	9	9	10	10	45	
	Dasas	Denmark	9	4	28/7	3	283	536	317	601	60	
	Duraturf	Canada	9	6	30/7	14	418	934	469	1047	64	
	Durlawn	"	9	3	28/7	3	329	523	368	586	58	
	Echo	Denmark	9	5	26/7	9	323	619	362	694	63	
	Elco	"	9	5	26/7	9	266	539	298	604	60	
	Elite	"	9	5	29/7	9	326	800	365	897	62	
	F.R.R./H67	Netherlands	9	2	24/7	6	89	166	100	186	50	
	Gracia	"	9	5	26/7	11	147	480	165	538	48	
	Illahee	U.S.A.	9	5	31/7	9	250	515	280	577	-	
	K-1-57	Hungary	9	1	28/7	1	28	28	32	32	50	
	K-2-57	"	9	1	28/7	1	43	43	48	48	55	
	K-5	Gt. Britain	9	2	28/7	3	172	343	193	384	40	
	KL 257	Czech.	9	4	26/7	8	197	488	221	547	60	
	Kos	Poland	9	3	26/7	6	147	401	165	449	45	
	Lam. Sawa	"	9	2	26/7	6	66	126	74	141	50	
	Leo	"	9	3	28/7	6	86	227	96	254	50	
	Levoscka	Czech.	9	6	26/7	9	337	1195	377	1340	55	
	Liebenziger	Germany	9	3	28/7	6	256	482	287	540	55	
	Novarubra	Netherlands	9	5	26/7	10	216	493	242	553	50	
	Nr.7	Germany	9	3	23/7	6	99	272	111	305	48	
	Nr.8	"	9	2	23/7	6	80	203	90	227	48	
	Nr.9	"	9	3	23/7	5	73	139	82	156	48	
	Oberhaunstadter	"	9	5	26/7	9	220	470	246	527	60	
	Odenrot	"	9	4	26/7	9	225	634	252	711	56	
	Olds	Canada	9	7	31/7	23	463	1718	519	1926	62	
	Pennlawn	U.S.A.	9	7	31/7	12	214	534	240	599	-	

Species	Cultivar	Origin	Hardi- ness (rating)	Herbage Yield	Seed Ripe da., mo.	Data Years	Seed Yields				Ht. cm	Comments
							lb/acre avg	high	kg/ha avg	high		
	Polar	Sweden	9	6	25/7	6	124	392	139	439	52	
	Polo	Denmark	9	6	26/7	9	306	576	343	645	60	
	Rainer	U.S.A.	9	6	31/7	5	259	440	290	493	-	
	Rapid	Netherlands	9	4	26/7	9	349	674	391	756	56	
	Rassengold	Germany	9	4	28/7	6	169	325	189	364	60	
	Reptans	Sweden	9	6	28/7	17	379	1325	424	1485	56	
	Reda	Netherlands	9	1	28/7	1	9	9	10	10	48	
	Roemer	Germany	9	5	26/7	12	203	430	227	482	55	
	Roland 21	"	9	7	25/7	9	432	1472	484	1650	58	
	Roznovsky	Czech.	9	6	26/7	9	302	982	338	1101	58	
	Rubin	Sweden	9	6	28/7	12	244	522	273	585	58	
	Rubina	Denmark	9	5	28/7	6	225	451	252	506	58	
	Ruby	Netherlands	9	6	25/7	8	392	1509	439	1692	50	
	Runa	Sweden	9	7	29/7	2	404	554	453	621	-	
	Runo	Poland	9	4	28/7	6	232	478	260	536	60	
	RZU/P61	Netherlands	9	4	28/7	6	186	395	208	443	55	
	S.59	Gt. Britain	9	5	21/7	9	101	500	113	561	47	
	Sima	Poland	9	2	25/7	3	51	94	57	105	32	
	Stensballe	Denmark	9	4	28/7	3	245	453	274	508	60	
	Taborska	Czech.	9	6	25/7	9	246	1204	276	1350	55	
	Taca	Denmark	9	6	26/7	13	332	774	372	868	62	
	Turf	Sweden	9	5	26/7	15	367	710	411	796	58	
	Viking	"	9	8	29/7	2	254	406	285	455	-	
	Wilton	"	9	3	27/7	3	55	122	62	137	58	
	Wintergreen	U.S.A.	9	3	25/7	6	69	132	77	148	48	
Fescue - Meadow (<i>F. pratensis</i> , <i>F. elatior</i>)												
	AO1213	Sweden	9	5	28/7	9	324	520	363	583	80	
	Admira	Netherlands	9	4	30/7	3	447	533	501	597	70	
	B 14	Yugoslavia	9	5	30/7	3	668	743	748	832	76	
	Barenbrug-Pasture	Netherlands	9	4	30/7	2	356	522	399	585	70	
	Barenza	"	9	6	28/7	11	386	1278	433	1433	68	
	Barkas	"	9	4	31/7	3	349	518	391	581	70	
	Belimo	"	9	5	28/7	15	422	1054	473	1182	70	
	Bergamo	"	9	4	28/7	9	229	408	256	457	65	
	Bottnia II	Sweden	9	4	30/7	3	444	544	497	610	75	
	Bundy	Netherlands	9	3	30/7	3	459	552	514	619	70	

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Species	Cultivar	Origin	Hardi- ness Herbage Yield (rating)	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments	
						lb/acre avg	kg/ha high	kg/ha avg	kg/ha high			
	Comtessa	Netherlands	9	3	30/7	3	522	712	585	798	70	
	Cosmos 11	Germany	9	5	28/7	12	297	424	333	475	75	
	Daphne	France	8	4	30/7	6	314	440	352	493	70	
	Dina	Poland	8	5	28/7	9	302	887	338	994	70	
	Dufa	Netherlands	9	5	28/7	18	300	1060	336	1188	66	
	Enbela	"	9	3	30/7	3	343	423	384	474	68	
	Ensign	Canada	9	8	1/8	9	462	765	518	858	-	
	FPT/KO-65	Czech.	9	4	30/7	6	289	507	324	568	72	
	Fepra	Sweden	9	4	30/7	3	550	630	616	706	72	
	Fero Otofte	Denmark	9	4	30/7	3	311	418	348	469	72	
	Fiola	Germany	9	3	30/7	3	343	377	384	422	70	
	"G"	Hungary	9	4	28/7	1	509	509	570	570	70	
	Garenta	Netherlands	8	5	30/7	12	411	1342	460	1503	71	
	Irene	Sweden	9	6	28/7	9	470	1378	527	1545	73	
	Janetzki O.S.G.	Germany	9	4	30/7	3	446	645	500	723	72	
	Largo	Netherlands	9	4	30/7	3	528	726	591	814	72	
	Levocska	Czech.	9	6	28/7	9	407	1173	456	1315	73	
	Loken	Norway	9	5	28/7	9	312	450	349	504	75	
	Marbury	Gt. Britain	9	4	28/7	9	345	808	386	906	68	
	Merbeen	Belgium	9	6	28/7	9	500	1271	561	1425	68	
	Mewa	Poland	9	6	28/7	9	321	969	360	1086	75	
	Mimer	Sweden	9	6	28/7	24	508	1490	569	1670	70	
	Mommersteeg's Pasture	Netherlands	9	5	28/7	9	368	812	412	910	70	
	Naiade	France	9	3	30/7	3	359	393	402	440	70	
	Ola	Poland	9	6	28/7	9	289	892	324	1000	70	
	Otofte	Denmark	9	4	30/7	3	489	586	548	657	75	
	Paavo	Finland	9	5	28/7	9	381	557	427	624	78	
	Pajbjerg	Denmark	9	4	30/7	3	516	608	578	682	72	
	Rossa	Netherlands	9	5	28/7	9	427	690	478	773	70	
	Roznovska	Czech.	9	6	28/7	9	411	1392	460	1560	73	
	S.53	Gt. Britain	9	5	28/7	9	246	716	276	803	63	
	S.215	Gt. Britain	9	4	30/7	3	570	776	638	870	73	
	Sena	Sweden	9	5	28/7	9	395	632	442	708	75	
	Sequano	France	9	6	28/7	9	436	1248	489	1399	71	
	SK-6	Poland	9	6	28/7	9	344	697	385	781	71	

Species	Cultivar	Origin	Hardi- ness Herbage Yield (rating)	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments	
						lb/acre avg	kg/ha high	lb/acre avg	kg/ha high			
	Tammisto	Finland	9	5	30/7	3	505	666	566	747	78	
	Trader	Canada	9	6	28/7	9	322	1065	361	1194	75	
	Trifolium	Denmark	9	4	30/7	3	508	574	569	643	72	
	Wehrdaer	Germany	9	5	28/7	9	355	585	398	655	70	
	Wendelmoed	Netherlands	9	5	28/7	9	236	491	264	550	70	
	Winge	Germany	9	4	30/7	3	177	293	198	328	70	
Fescue, Hard (F. ovina var. duriuscula)												
	Biljart	Netherlands	9	3	23/7	9	180	421	202	472	45	
	Carot	"	9	4	23/7	6	297	690	333	773	47	
	Durar	U.S.A.	9	8	24/7	12	286	1003	320	1124	61	
Fescue - Hair (F. capillata)												
	Sima	Poland	9	1	26/7	3	79	153	88	171	25	
Fescue - Sheep (F. ovina)												
	Barok	Netherlands	9	1	22/7	7	65	190	73	213	30	
	Chambord	France	6	1	28/7	1	2	2	2	2	40	
	Felia	Belgium	8	2	22/7	4	44	104	49	116	31	
	Novina	Netherlands	9	1	28/7	3	19	50	21	56	22	
	Ovina	"	8	1	22/7	3	26	34	29	38	30	
	Sevo	Belgium	9	1	20/7	1	36	36	40	40	40	
	Vendome	France	9	1	19/7	1	73	73	82	82	34	
Fescue - Tall (F. arundinaceae)												
	Alta	U.S.A.	6	4	31/7	17	233	419	261	470	73	
	Backafall	Sweden	7	3	31/7	9	172	400	193	448	77	
	Demeter	Australia	8	2	31/7	3	241	426	270	478	75	
	Early	Gt. Britain	8	2	31/7	3	215	334	241	374	70	
	Fawn	U.S.A.	6	4	31/7	8	331	1110	371	1244	66	
	Festal	Netherlands	7	3	31/7	3	287	394	321	442	75	
	Kenmont	U.S.A.	8	3	31/7	3	243	297	272	333	79	
	Kenwell	"	7	2	31/7	3	215	411	241	461	75	
	Ky.31	"	8	3	31/7	3	353	418	395	468	79	

(10)

Species	Cultivar	Origin	Hardi- ness (rating)	Herbage Yield	Seed Ripe da.,mo.	Data Years	Seed Yields		Ht. cm	Comments		
							lb/acre avg high	kg/ha avg high				
	Ludon	France	7	2	4/8	3	157	251	176	281	75	
	Manade	"	6	5	31/7	6	255	530	286	594	48	
	Motail	Netherlands	9	2	2/8	1	213	213	239	239	80	
	S.170	Gt. Britain	7	2	31/7	6	176	446	197	500	77	
Foxtail,- Creeping (<i>A. arundinaceus</i>)												
	Garrison	Canada	9	3	7/7	9	115	235	129	263	79	
Foxtail - Meadow (<i>Alopecurus pratensis</i>)												
	Brudzynsti-dan	Poland	9	3	7/7	6	207	347	232	389	65	
	Common	-	9	4	7/7	8	267	552	299	618	73	
	Oregon	U.S.A.	9	3	7/7	6	184	296	206	332	71	
	Polano	Poland	9	3	7/7	6	84	142	94	159	70	
	Rhona	Germany	9	3	7/7	6	147	259	165	290	68	
Oatgrass - Tall (<i>Arrhenatherum elatius</i>)												
	Armo	Netherlands	6	2	28/7	3	40	66	45	74	90	
	Barricade	"	6	1	28/7	3	66	126	74	141	80	
	Odenwalder	Germany	9	1	27/7	1	15	15	17	17	75	
	Remus	Poland	6	4	25/7	8	83	208	93	233	90	
	SK-5	"	7	3	20/7	9	93	200	104	224	90	
	Tualatin	-	9	1	27/7	1	52	52	58	58	80	
	Wena	Poland	7	3	20/7	8	99	158	111	177	86	
Oatgrass - Yellow (<i>Trisetum flavescens</i>)												
	Spath's Hohenh.	Germany	5	1	15/7	3	80	230	90	258	70	
	Steinacher	"	5	1	15/7	3	85	254	95	285	70	
	Trisetum	"	4	1	15/7	2	70	141	78	158	70	
Orchardgrass (<i>Dactylis glomerata</i>)												
	Aries	France	6	3	1/8	5	127	368	142	413	68	
	Chinook	Canada	8	4	29/7	11	96	190	108	213	65	
	Fala	Poland	9	4	29/7	9	161	354	180	397	70	
	Hercules	Canada	6	2	6/8	3	83	148	93	166	-	
	Holstenkamp	Germany	8	4	29/7	3	101	150	113	168	85	

Species	Cultivar	Origin	Hardi- ness (rating)	Herbage Yield	Seed Ripe da., mo.	Data Years	Seed Yields				Ht. cm	Comments
							lb/acre avg	kg/ha high	lb/acre avg	kg/ha high		
	Marton vassaria	Czech.	8	4	29/7	6	93	213	104	239	70	
	Roznovska	"	9	5	29/7	9	101	229	113	256	70	
	T. No. 15	Denmark	7	4	29/7	6	74	133	83	149	68	
	T. No. 16	"	7	3	29/7	6	124	276	139	309	73	
	T. No. 17	"	6	3	29/7	5	102	213	114	239	73	
	Tardus II	Sweden	7	5	29/7	12	132	334	148	374	73	
	Taurus	France	6	3	29/7	8	24	93	27	104	65	
Redtop (<i>Agrostis alba</i> L.)												
	Reton	Canada	7	3	12/8	5	111	203	124	227	60	
	V. Kamekes	Germany	7	2	12/8	5	102	210	114	235	52	
	Smaragd	Sweden	7	1	10/8	7	32	77	36	86	20	
Reed Canarygrass (<i>Phalaris arundinacea</i>)												
	Frontier	Canada	9	7	26/7	16	28	114	31	128	89	
	Luba	Poland	9	7	26/7	9	20	85	22	95	89	
Russian wildrye (<i>Elymus junceus</i>)												
	Sawki	Canada	9	5	1/8	17	287	985	321	1104	86	
	Vinall	U.S.A.	9	1	1/8	3	66	199	74	223	90	
Altai wild ryegrass (<i>Elymus angustus</i>) U.S.S.R.												
			9	3	17/8	6	32	61	36	68	100	
Ryegrass (<i>Lolium multiflorum</i>)												
	Barenza	Netherlands	-	7	15/9	3	510	579	571	648	-	
	Barwoltra	Germany	-	7	15/9	3	628	864	703	768	-	
	Billion	"	-	8	15/9	3	664	915	744	1025	-	
	Eclata	Netherlands	-	7	5/9	2	703	1027	787	1150	75	
	Gulf	U.S.A.	-	6	7/9	2	700	1024	784	1147	70	
	Hesa	Germany	-	7	7/9	2	235	275	263	308	85	
	Lental	Belgium	-	6	7/9	2	174	197	195	221	70	
	Magnolia	U.S.A.	-	5	28/8	1	1432	1432	1604	1604	63	
	Million	Netherlands	-	6	25/8	2	815	1531	913	1715	70	
	Mowester	Poland	-	4	29/8	3	801	1200	897	1344	-	
	Ostsaat-volkenrode	Germany	-	7	5/9	2	1176	1902	1317	2130	75	
	Rina	France	-	6	5/9	1	300	300	336	336	60	

Species	Cultivar	Origin	Hardi- ness Herbage Yield (rating)	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments	
						lb/acre		kg/ha				
						avg	high	avg	high			
	Rita	France	-	7	5/9	1	350	350	392	392	60	
	Roznovsky(a)	Czech.	-	8	29/8	3	732	878	820	983	70	
	Roznovsky(I)	"	-	7	8/9	1	80	100	90	112	70	
	Tama	New Zealand	-	6	29/8	2	612	824	685	923	65	
	Tewera	Netherlands	-	8	15/9	4	578	899	647	1007	-	
	Vertas	"	-	8	15/9	3	670	885	750	991	-	
	Weldra	"	-	7	25/8	2	985	1523	1103	1706	75	
	Westerwolds(raaigras)	"	-	5	29/8	2	862	1275	965	1428	69	
	Wewo	"	-	6	25/8	2	1061	1672	1188	1873	78	
	Witala	Germany	-	5	5/9	1	300	300	336	336	50	
	Woldi	Netherlands	-	8	29/8	2	1041	1632	1165	1828	70	
	Tetrone	Germany	5	1	14/8	1	708	708	794	794	-	(biennial)
Ryegrass (L. perenne)												
	Argo	Poland	5	4	29/8	4	531	980	595	1099	51	
	Barenza	Netherlands	4	2	3/9	2	315	352	353	395	51	
	Barlenna	"	4	2	14/8	1	211	211	237	237	36	
	Glasnevin	Ireland	1	-	-	1	-	-	-	-	-	
	Linn.	U.S.A.	1	1	25/8	1	160	160	179	179	45	
	Mommersteeg's Pasture	Netherlands	3	3	24/8	3	389	741	436	831	41	
	NK-100	U.S.A.	2	4	19/8	2	431	457	483	512	-	
	Norlea	Canada	7	4	25/8	11	355	1245	398	1396	45	
	Pelo	Netherlands	3	3	21/8	3	276	427	309	479	43	
	Perma	"	3	-	-	1	-	-	-	-	-	
	Roznovsky	Czech.	5	3	26/8	5	332	775	372	869	51	
	R.v.P. Pasture	Belgium	4	1	29/8	3	227	272	254	305	51	
	Sceempter	Netherlands	3	2	3/9	2	245	290	275	325	53	
	Stadion	"	1	-	-	1	-	-	-	-	-	
	T.No.10	Denmark	3	7	25/8	1	1099	1099	1232	1232	-	
	T.No.11	"	3	9	8/8	1	1158	1158	1298	1298	-	
	T.No.12	"	3	9	23/8	1	1209	1209	1355	1355	-	
	T.No.13	"	3	6	23/8	1	1179	1179	1322	1322	-	
	T.No.14	"	1	-	-	1	-	-	-	-	-	
	Viris	Sweden	4	4	30/8	3	491	907	550	1017	53	

Species	Cultivar	Origin	Hardi- ness (rating)	Herbage Yield	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments
							lb/acre avg	kg/ha high	lb/acre avg	kg/ha high		
Timothy (Phleum bertolonii, P. nodosum)												
	Evergreen (old)	Sweden	7	6	23/8	9	276	459	309	515	61	
	S.50	Gt. Britain	8	4	24/8	9	129	321	145	360	41	
	Sport	France	9	4	25/8	9	170	494	191	554	43	
Timothy (Phleum pratense)												
	Argi	Denmark	9	5	15/8	3	250	397	280	445	77	
	Astra	Sweden	9	7	11/8	9	206	414	231	464	71	
	B-10	Yugoslavia	9	6	13/8	3	327	458	366	524	78	
	Bariton	Netherlands	9	8	26/8	3	185	240	207	269	68	
	Barmere	Gt. Britain	9	5	12/8	3	288	395	323	442	78	
	Barmoti	Netherlands	9	7	12/8	14	350	752	392	842	78	
	Bodin	Norway	9	8	12/8	3	551	779	617	872	78	
	Bottnia II	Sweden	9	9	14/8	3	473	612	530	685	80	
	Bounty	Canada	9	6	14/8	12	203	379	227	425	78	
	Champ	"	9	6	12/8	9	195	453	218	508	70	
	Clair	U.S.A.	9	6	15/8	2	54	92	61	103	-	
	Climax	Canada	9	7	16/8	35	270	820	302	919	80	
	Comet	Netherlands	9	8	26/8	3	242	309	271	346	70	
	Daeno	Denmark	9	7	11/8	9	247	578	277	648	74	
	Drummond	Canada	9	7	17/8	13	262	605	294	678	71	
	Engmo	Norway	9	8	17/8	5	405	739	454	828	-	
	Erecta	Belgium	9	8	10/8	31	279	642	313	720	71	
	Eskimo	Netherlands	9	7	9/8	9	288	621	323	696	72	
	Farol	"	9	7	17/8	18	230	507	258	568	74	
	Foka	Poland	9	6	9/8	9	283	580	317	650	75	
	Forus	Norway	9	7	12/8	3	463	610	519	683	82	
	"G"	Hungary	9	3	14/8	1	187	187	209	209	65	
	Glasnevin Gem	Gt. Britain	9	5	15/8	10	190	419	213	470	74	
	Grassland Kahu	New Zealand	9	4	15/8	9	206	320	231	359	74	
	Grindstad	Norway	9	7	12/8	3	402	551	450	617	80	
	Heidemij	Netherlands	9	6	20/8	18	217	510	243	572	66	
	Heilbink	Germany	9	6	12/8	3	350	491	392	550	75	
	Hokuo	Japan	9	6	10/8	3	158	240	177	269	76	
	Intenso	Netherlands	9	6	28/8	10	164	357	184	400	61	

Species	Cultivar	Origin	Hardi- ness (rating)	Herbage Yield	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments
							lb/acre avg	high	kg/ha avg	high		
	Kampe II	Sweden	9	8	9/8	9	265	542	297	608	76	
	King	Netherlands	9	6	24/8	18	206	701	231	786	61	
	Kor	Poland	9	5	10/8	8	227	647	254	725	73	
	Korpa	Iceland	9	4	10/8	3	493	829	552	928	80	
	Landsberger	Germany	9	4	10/8	9	226	346	253	388	75	
	Lavenauer	"	9	6	12/8	3	271	400	304	448	70	
	Levocska	Czech.	9	6	8/8	9	263	644	295	722	73	
	Lorain	U.S.A.	9	7	25/8	9	261	672	293	753	76	
	Mahnorfer Lieschgrass	Germany	9	6	14/8	3	369	592	413	663	80	
	Maintenon	France	9	4	18/8	3	254	374	284	419	80	
	Melusine	"	9	3	14/8	3	103	142	115	159	73	
	Milton	Canada	9	3	14/8	1	116	116	130	130	65	
	Motterwitzer	Germany	9	6	11/8	6	335	500	375	560	76	
	N.F.G.	"	9	5	11/8	6	339	578	380	647	75	
	No.90	Gt.Britain	9	6	11/8	9	297	811	333	909	74	
	Oakmere	"	9	5	30/8	9	204	451	228	506	72	
	Oberhaunstadter	Germany	9	7	12/8	3	447	681	501	363	80	
	Odenwalder	"	9	6	7/8	9	278	717	312	804	68	
	Olympia	Netherlands	9	7	28/8	3	227	299	254	335	70	
	Omnia	Sweden	9	7	12/8	11	343	702	385	787	71	
	Para	Poland	9	6	10/8	9	372	793	417	889	74	
	Pastremo	Netherlands	9	5	28/8	3	182	233	204	261	70	
	Pecora	France	9	6	20/8	11	256	443	287	497	66	
	Pergo	Denmark	9	6	10/8	9	188	453	211	508	68	
	Phlewiola	Germany	9	6	10/8	9	252	403	282	452	75	
	Reichersberger	Austria	9	7	12/8	3	263	363	295	407	78	
	Rotenberg	Sweden	9	7	15/8	3	406	557	455	624	80	
	S-48	Gt. Britain	9	5	31/8	10	232	724	260	812	56	
	S-51	"	9	6	14/8	9	150	336	168	377	68	
	S-352	"	9	6	12/8	6	277	430	310	482	77	
	SK-45	Poland	9	7	8/8	9	290	581	325	651	75	
	Scotia	Gt.Britain	9	5	15/8	8	244	390	273	437	73	
	Sempoku	Japan	9	2	14/8	1	87	87	97	97	60	
	Spaths	Germany	9	5	9/8	9	266	475	298	532	75	
	T-48	Sweden	9	6	16/8	9	230	528	258	592	74	
	Taca Trifolium	Netherlands	9	6	12/8	3	307	439	344	492	83	

Species	Cultivar	Origin	Hardi- ness Herbage Yield (rating)	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments	
						lb/acre avg	kg/ha high	kg/ha avg	kg/ha high			
	Tammisto	Finland	9	3	14/8	1	292	292	327	327	65	
	Tarmo	"	9	3	14/8	1	267	267	299	299	65	
	Timo	Netherlands	9	5	17/8	9	197	541	221	606	66	
	Tiran	"	9	8	18/8	3	181	238	203	267	75	
	Topas Otofte	Denmark	9	7	12/8	3	437	589	489	660	83	
	Toro	Italy	9	7	8/8	11	268	480	300	538	71	
	Vallo	Sweden	9	7	14/8	3	370	459	414	514	79	
	Vanadis	"	9	7	12/8	11	319	590	358	661	73	
	Verdant	U.S.A.	9	7	15/8	6	337	686	378	769	85	
	Vetrovsky	Czech.	9	7	8/8	9	294	633	329	710	74	
Wheatgrass - Crested (Agropyron cristatum)												
	Fairway	Canada	9	6	20/8	20	448	958	502	1074	60	
	Muzla	Czech.	9	4	17/8	9	478	825	535	925	60	
Wheatgrass - Crested (A. desertorum)												
	Nordan	U.S.A.	9	7	27/8	3	329	489	369	548	-	
	Summit	Canada	9	6	23/8	22	327	643	366	721	70	
Wheatgrass - Intermediate (A. intermedium)												
	Amur	U.S.A.	9	5	14/9	1	361	361	404	404	110	
	Chief	Canada	9	7	10/9	16	424	850	475	953	105	
	Greenar	U.S.A.	9	7	12/9	3	333	669	373	750	110	
	Slate	"	9	6	12/9	3	407	787	456	882	115	
Wheatgrass - Pubescent (A. trichophorum)												
	Greenleaf	Canada	9	8	10/9	9	351	848	393	951	110	
	Mandan	U.S.A.	9	7	28/8	14	354	800	396	897	100	
	Topar	"	9	5	12/9	3	272	424	305	475	95	
Wheatgrass - Slender (A. trachycaulum)												
	Primar	U.S.A.	9	6	19/8	6	233	467	261	524	-	
	Revenue	Canada	9	6	17/8	6	514	672	576	753	90	

Species	Cultivar	Origin	Hardi- ness (rating)	Herbage Yield (rating)	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments
							lb/acre	kg/ha	avg	high		

Wheatgrass - Streambank (*A. riparium*)

Sodar	U.S.A.	9	5	7/8	22	260	1255	291	1407	70	
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Wheatgrass - Tall (*A. elongatum*)

Orbit	Canada	8	4	7/9	11	331	640	371	717	102	
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LEGUMES

Species	Cultivar	Origin	Hardi- ness	Herbage Yield	Seed Ripe	Data Years	Seed Yields		Ht. cm	Comments		
							lb/acre avg high	kg/ha avg high				
Alfalfa (<i>Medicago sativa</i>)			(Cultivars designated by "*" were pollinated in 1972 by leaf-cutter bees (<i>Megachille rotundata</i>))									
	Alfa	Sweden	7	5	13/9	11	107	436	120	489	56	
	Alfa II	"	9	6	16/9	3	184	286	206	320	51	*
	Anchor	U.S.A.	9	3	20/9	1	258	258	289	289	55	*
	Apex	Sweden	9	6	13/9	9	96	231	108	259	61	
	BVR2	France	9	3	20/9	1	206	206	371	371	50	*
	Beaver	Canada	8	6	13/9	15	243	266	272	298	60	*
	Charta	Germany	9	6	20/9	3	212	243	237	272	50	*
	Dekalb Strain	U.S.A.	9	5	16/9	10	234	234	262	262	48	*
	Europe	France	8	5	14/9	9	75	226	84	253	61	
	Eynsford	Gt. Britain	9	2	20/9	1	162	162	181	181	50	*
	FD 100	France	8	5	14/9	9	86	308	96	345	61	
	Grimm	U.S.A.	8	5	9/9	4	187	290	210	325	-	
	Hodoninska	Czech.	7	5	15/9	8	38	94	43	105	56	
	Iris	Denmark	9	3	20/9	1	213	213	239	239	50	*
	Jokioinen	Finland	9	3	20/9	1	326	326	365	365	55	*
	Kisvardai	Czech.	8	5	15/9	9	115	178	129	199	60	*
	Kleszozewska	Poland	9	5	15/9	8	57	102	64	114	48	
	Ladak	Canada	8	6	8/9	13	86	180	96	202	58	
	Lucerna H652	Romania	8	5	15/9	9	294	294	329	329	53	*
	Marton Vasaria	Czech.	7	5	15/9	7	8	21	9	24	58	
	Miechowska	Poland	8	5	15/9	9	35	89	39	100	48	
	Nagyszzenasi	Czech.	8	5	15/9	8	95	154	106	172	61	*
	Nitranka	"	7	6	15/9	9	144	144	161	161	53	*
	Ovari	"	8	6	15/9	9	134	226	150	253	61	*
	Prerovska	"	7	6	15/9	9	280	280	314	314	53	*
	Rambler	Canada	8	7	10/9	18	81	147	91	165	56	
	Rhizoma	"	7	5	5/9	15	151	358	169	401	-	
	Roamer	"	8	6	15/9	9	244	445	273	498	58	*

Species	Cultivar	Origin	Hardi- ness Herbage Yield (rating)	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments	
						lb/acre avg	kg/ha high	lb/acre avg	kg/ha high			
	Slovenska podunajska	Czech.	7	5	15/9	9	181	181	203	203	53	*
	" trebisovska	"	8	5	15/9	9	258	258	289	289	51	*
	Talent	U.S.A.	7	4	20/9	3	33	42	37	47	50	*
	Tuna	Sweden	9	6	20/9	3	123	173	138	194	45	*
	Vernal	U.S.A.	6	4	10/9	1	158	158	177	177	-	
	Vojteska kasticka	Czech.	7	5	15/9	8	89	176	100	197	56	
	" moravska	"	7	5	15/9	9	291	291	326	326	51	*
	" stripicka	"	7	6	15/9	9	203	203	227	227	48	*
	WL 210	U.S.A.	8	6	20/9	6	101	123	113	138	50	*
	WL 215	"	8	6	20/9	6	229	445	256	498	55	*
	WL 217	"	8	6	20/9	3	232	245	260	274	65	*
	WL 305	"	8	7	20/9	6	86	128	96	143	55	*
	WL 306	"	7	6	20/9	6	93	128	104	143	55	*
	WL 308	"	9	6	20/9	3	163	176	183	197	52	*
Clover - Alsike (<i>Trifolium hybridum</i>)												
	Alon	Canada	6	5	24/8	11	184	422	206	473	-	Dip.
	Aurora	"	7	5	24/8	27	320	675	359	757	35	"
	Birka	Sweden	8	6	2/9	3	383	733	429	821	55	"
	Eutetra	Germany	8	7	2/9	3	242	411	271	460	58	Tetra
	Iso	Finland	7	5	24/8	8	218	338	244	379	30	"
	Jetel Zvihly Taborsky	Czech.	4	5	24/8	9	93	280	104	314	41	Dip.
	Kurir	Sweden	8	3	24/8	8	225	475	252	532	28	"
	Odenwalder	Germany	5	5	24/8	13	197	645	221	722	35	"
	Otofte	Denmark	4	5	24/8	5	297	749	333	839	45	"
	Otofte 4N	"	7	7	28/8	6	214	645	240	723	55	Tetra
	Strain 11	Canada	6	5	27/8	7	278	693	311	776	38	Dip.
	Svea	Sweden	7	4	25/8	6	265	622	346	697	28	"
	Tammisto	Finland	7	5	21/8	14	306	753	343	844	-	"
	Tetra	Sweden	7	6	24/8	24	223	502	250	563	36	Tetra
Clover - Red (<i>Trifolium pratense</i>)												
	Alaskaland	U.S.A.	6	6	30/8	6	213	336	239	377	-	Dip. S.C.
	Altaswede	Canada	7	7	29/8	30	285	1048	319	1174	55	" "
	Attila	Netherlands	4	-	2/9	3	166	499	186	559	76	Dip. D.C.

Species	Cultivar	Origin	Hardi- ness Herbage Yield (rating)	Seed Ripe da., mo.	Data Years	Seed Yields				Ht. cm	Comments	
						lb/acre avg	kg/ha high	lb/acre avg	kg/ha high			
	Barfiola	Netherlands	4	6	5/9	6	145	195	163	219	61	Tetra D.C.
	Bjursele	Sweden	6	4	20/8	6	197	355	221	398	43	Dip. S.C.
	Bollsta	Norway	7	6	30/8	5	193	276	216	309	-	" "
	Britta	Sweden	6	8	15/9	3	239	496	268	556	58	" "
	Cesky Krajovylx	Czech.	6	5	2/9	6	238	915	267	1026	43	Dip. S.C.
	Changins	Switzerland	4	4	28/8	5	97	280	109	314	53	" "
	Chlumecky	Czech.	2	3	28/8	7	94	478	105	536	58	" "
	Corona Otofte	Denmark	4	7	7/9	2	300	600	336	672	76	" "
	Cotswold Broad	Gt. Britain	3	4	2/9	3	201	603	225	676	76	" "
	Disa	Sweden	3	3	28/8	4	-	-	-	-	-	Dip. S.C.
	Divina	"	6	3	2/9	3	290	570	325	639	65	" "
	Elbo	Denmark	6	7	7/9	3	280	509	314	571	65	" "
	Essi	Sweden	7	3	20/8	6	151	550	169	617	48	" "
	Fetzers Kitzinger	Germany	2	3	13/8	6	50	302	56	339	-	Dip. S.C.
	Gloria	Poland	3	4	23/8	6	170	640	190	717	48	" "
	Groninger	Netherlands	3	3	2/9	3	165	474	185	531	78	" "
	Hamidori	Japan	4	5	22/8	12	241	526	270	590	48	Dip. D.C.
	Hera 4N	Denmark	3	7	7/9	2	55	109	62	122	71	Tetra
	Hermes I	Sweden	5	6	27/8	6	202	586	226	657	65	" "
	Heyes Hohenheimer	Germany	4	3	11/8	6	103	219	115	246	38	Dip. D.C.
	Hg 1102	Sweden	7	5	10/9	3	231	562	259	630	55	" "
	Holeho	Czech.	3	-	-	-	-	-	-	-	-	" "
	Holy	"	3	5	29/8	5	230	627	258	703	63	Dip. D.C.
	Hungarapoli	Hungary	5	4	14/8	8	102	263	114	295	51	Tetra D.C.
	Jicinsky	Czech.	4	4	29/8	6	169	355	189	398	61	Dip. S.C.
	Jo-37	Finland	8	8	4/9	10	136	366	152	410	-	" "
	Jokioinen	"	8	6	20/9	1	402	402	450	450	50	" "
	Kuhn	Netherlands	3	2	26/8	6	44	88	49	99	31	Dip. D.C.
	Kustrash	Sweden	5	8	30/8	5	187	253	209	284	-	Dip. S.C.
	Lakeland	U.S.A.	4	4	27/8	12	226	506	253	567	48	Dip. D.C.
	Lasalle	Canada	5	4	27/8	11	106	147	119	165	-	" "
	Leisi	Switzerland	5	2	10/9	3	149	256	167	287	65	" "
	Lero	Germany	3	3	11/8	5	-	-	-	-	-	Dip. D.C.
	Lucrum	"	5	3	2/9	3	200	400	224	448	55	" "
	Lutea	"	3	-	2/9	2	150	299	168	335	65	" "
	Maris Leda	Gt. Britain	2	-	-	1	-	-	-	-	-	Tetra
	Mekra	Germany	4	4	21/8	4	122	333	137	373	53	Dip. D.C.

Species	Cultivar	Origin	Hardi- ness (rating)	Herbage Yield (rating)	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments
							lb/acre avg	kg/ha high	lb/acre avg	kg/ha high		
	Merkur	Sweden	5	3	11/8	2	-	-	-	-	-	
	Molstad	Norway	6	6	1/9	14	289	497	324	557	51	Dip. S.C.
	Odenwalder	Germany	5	3	11/8	6	152	205	170	230	38	Dip. D.C.
	Offer	Sweden	5	6	30/8	7	228	299	256	336	-	Dip. S.C.
	Orbit	U.S.A.	3	6	31/8	2	170	339	190	380	70	
	Ostsaat	Germany	5	5	21/8	4	280	806	314	904	58	Dip. D.C.
	Otofte	Denmark	7	4	20/9	1	182	182	204	204	50	
	Otofte 4N	"	5	8	10/9	3	107	176	120	197	56	
	Otofte Early	"	4	6	2/9	2	346	693	388	777	65	
	Otofte Late	"	6	6	15/9	3	247	483	277	541	50	
	Ottawa	Canada	5	4	30/9	8	179	330	200	370	50	Dip. D.C.
	Oygaard	-	5	6	4/9	4	217	322	243	361	-	Dip. S.C.
	Pajbjerg Bora	Denmark	6	7	30/8	9	359	570	402	639	53	" "
	Podtatranska E	Czech.	4	4	23/8	5	161	525	180	589	56	Dip. D.C.
	Poly 4N	Sweden	5	-	2/9	2	93	186	104	209	66	Tetra
	Prerovsky dvonsecny	Czech.	5	4	23/8	5	148	425	166	476	38	D.C.
	Primus	Belgium	5	2	12/9	3	175	296	196	332	62	
	Rea	Sweden	6	6	26/8	20	220	457	247	512	56	Tetra S.C.
	Reichersberger	Austria	5	2	12/9	3	181	349	203	391	58	
	Reko	Sweden	7	5	14/9	2	349	390	391	437	62	
	Remy	Germany	7	2	20/9	1	266	266	298	298	40	
	Renova	Switzerland	4	5	29/8	6	117	288	131	323	58	D.C.
	Resident Otofte	Denmark	5	5	10/9	3	277	584	310	655	58	
	Resistentia	Sweden	5	5	30/8	9	278	515	312	577	51	
	Robina	Netherlands	5	4	22/8	6	171	347	192	389	48	S.C.
	Robusta	Belgium	3	-	-	2	-	-	-	-	-	Dip.
	Ronda	Denmark	5	-	2/9	2	291	582	326	652	66	
	Rotra R.V.P.	Belgium	2	-	-	1	-	-	-	-	-	Tetra
	S 123	Gt. Britain	2	3	-	5	-	-	-	-	-	S.C.
	S 151	"	3	-	2/9	3	185	554	207	621	75	
	Sabtoron	"	3	-	2/9	3	122	366	137	410	70	
	Sapporo	Japan	4	3	22/8	7	69	231	77	259	35	Dip. D.C.
	Schnyder	Switzerland	4	5	29/8	5	194	430	217	482	61	D.C.
	Silo	Sweden	4	-	2/9	2	141	482	158	540	71	
	Skultuna	"	7	6	10/9	3	181	277	203	311	63	
	Sorby-Okna	"	5	5	10/9	3	210	320	235	359	65	

Species	Cultivar	Origin	Hardi- ness (rating)	Herbage Yield	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments
							lb/acre avg	kg/ha high	kg/ha avg	kg/ha high		
	Tammisto	Finland	6	7	1/9	17	197	502	221	563	51	S.C.
	Tenda	Denmark	5	4	10/9	3	287	498	321	558	55	
	Tepo	Finland	7	7	1/9	11	89	203	100	228	-	Tetra S.C.
	Teroba	Netherlands	4	3	18/8	5	69	157	77	176	46	S.C.
	Tetri	"	6	4	29/8	6	156	261	175	293	53	Tetra S.C.
	Titus 71	Germany	4	-	8/9	2	116	232	130	260	76	
	Transilvania	Romania	4	4	23/8	5	136	410	152	460	61	S.C.
	Trebicky E	Czech.	4	4	25/8	6	159	483	178	541	58	"
	Tripo	Norway	7	7	3/9	15	205	507	230	568	56	Tetra S.C.
	Trover	U.S.A.	3	6	31/8	2	206	411	231	461	66	
	Tuna	Sweden	6	7	30/8	5	221	349	248	391	-	S.C.
	U-039	"	3	4	-	-	-	-	-	-	-	Dip.S.C.
	Ulva	"	7	5	28/8	3	146	292	164	327	-	Tetra S.C.
	Ultuna	"	5	6	31/8	6	179	231	201	259	-	S.C.
	Vagge	"	7	7	12/9	3	199	395	223	443	63	
	Vidarshov	-	6	7	4/9	4	233	347	261	389	-	S.C.
	Viglassla	Czech.	4	3	29/8	5	189	564	212	632	41	D.C.
	Viola	Poland	4	4	2/9	7	212	621	237	696	61	D.C.
	Violetta R.V.P.	Belgium	4	4	4/9	3	216	533	242	597	60	
Clover, White (<i>Trifolium repens</i>)												
	Aria	Netherlands	7	2	25/8	1	386	386	432	432	18	
	Armada	"	6	2	24/8	4	147	371	165	416	16	
	Barbian	"	8	1	27/8	3	170	222	190	249	15	
	Beta	Sweden	8	3	27/8	3	320	491	358	550	20	
	Blanca R.V.P.	Belgium	5	2	24/8	4	78	128	87	143	17	
	Crau	France	7	1	27/8	3	133	142	149	159	20	
	Culture	Netherlands	7	2	24/8	4	156	381	175	427	16	
	Daeno K	Denmark	7	2	27/8	6	208	400	233	448	22	
	Espanso	Italy	6	1	9/9	3	147	152	165	170	25	
	Fries Groninger	Netherlands	5	2	27/8	7	111	134	124	150	15	
	Gigant	Germany	6	2	25/8	6	114	253	128	283	16	
	Huia	New Zealand	7	1	27/8	3	84	113	94	127	15	
	Kent	Gt. Britain	7	2	26/8	6	145	307	162	344	15	
	Kivi	Sweden	5	1	24/8	6	71	248	80	278	12	
	Ladino	U.S.A.	4	3	22/8	10	61	222	68	249	15	

Species	Cultivar	Origin	Hardi- ness (rating)	Herbage Yield	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments
							lb/acre avg	kg/ha high	lb/acre avg	kg/ha high		
	Lema	Sweden	9	2	27/8	3	201	274	225	307	16	
	Lodi Otofte	Denmark	8	2	27/8	3	320	382	358	428	20	
	Louisiana	U.S.A.	3	2	24/8	6	2	11	2	12	15	
	Merit	"	4	1	25/8	6	65	133	73	149	15	
	Milka	Denmark	6	2	27/8	10	193	358	216	401	17	
	Milkanova	"	8	2	27/8	3	174	230	195	258	19	
	Mira Otofte	"	8	2	27/8	3	212	307	237	344	20	
	Nova	Sweden	6	3	22/8	18	150	352	168	395	12	
	Otofte	Denmark	9	3	25/8	1	360	360	403	403	20	
	Ovcak	Czech.	5	2	24/8	8	85	171	95	192	12	
	Pertina	Netherlands	7	2	25/8	4	219	397	245	445	15	
	Pilgrim	U.S.A.	4	2	12/8	5	30	48	34	54	12	
	Podkowa	Poland	6	2	25/8	10	99	181	111	203	12	
	Retor	Netherlands	8	2	27/8	3	296	390	332	437	20	
	S 100	Gt. Britain	7	1	25/8	3	82	91	92	102	12	
	S 184	"	7	1	25/8	3	168	228	188	255	10	
	Sabeda	"	7	1	25/8	2	130	130	146	146	8	
	Skultuna	Sweden	9	2	27/8	3	174	306	195	343	18	
	Smalbladet	Denmark	8	1	25/8	3	341	384	382	430	14	
	Steinacher	Germany	6	2	25/8	5	159	324	178	363	14	
	Szereasi	Hungary	9	1	1/9	1	128	128	143	143	20	
	T-No.4	Denmark	9	1	15/8	1	2	2	2	2	-	
	Tamar	Netherlands	1	-	-	-	-	-	-	-	-	
	Tohoku 1	Japan	3	1	25/8	5	67	136	75	152	14	
	Tregor	France	6	1	25/8	6	94	204	105	228	13	
	Trevise	"	6	2	25/8	4	50	82	56	92	18	
	Vacares	"	6	1	25/8	6	72	104	81	116	13	
	Viglassba	Czech.	5	2	25/8	9	103	156	115	175	13	
	Von Kamekes	Germany	6	2	25/8	6	142	394	159	441	12	
	Wild English	Denmark	9	1	25/8	1	349	349	391	391	15	
	Wilkla	Netherlands	8	1	27/8	3	205	334	230	374	19	
Clover - Zig-Zag (<i>Trifolium medium</i>)												
	Common	Canada	8	6	20/9	5	39	133	44	149	22	

Species	Cultivar	Origin	Hardi- ness Herbage Yield (rating)	Seed Ripe da.,mo.	Data Years	Seed Yields				Ht. cm	Comments	
						lb/acre avg	kg/ha high	kg/ha avg	kg/ha high			
Sainfoin (Onobrychis spp)												
	Busciansky	Czech.	4	3	15/8	6	382	448	428	502	56	
	Cotswold	Gt. Britain	6	6	15/8	3	262	613	293	687	65	
	Eski	U.S.A.	7	4	12/8	10	325	541	364	606	58	
	Fakir	France	8	6	15/8	3	344	461	385	517	70	
	Giant	Gt. Britain	7	7	15/8	2	324	339	363	380	60	
	Kampotti	Hungary	7	1	11/9	1	187	187	209	209	70	
	Lunic	France	9	7	15/8	3	358	627	401	703	75	
	Melrose	Canada	9	2	8/8	1	187	187	209	209	65	
	Montana	U.S.A.	3	4	21/9	2	-	-	-	-	-	
	Saro	Poland	6	5	10/8	5	221	483	248	541	73	
	SK-48	"	6	3	9/8	9	151	286	169	321	53	
	Sparceta ICA6	Romania	7	5	13/8	6	326	507	365	568	63	
	Visnovsky	Czech.	4	3	14/8	10	185	347	207	389	51	
Trefoil (Lotus corniculatus)												
	Cascade	U.S.A.	4	4	8/8	5	150	308	168	345	-	
	Empire	"	4	5	20/8	13	284	748	318	839	-	
	Glauka	Germany	7	1	17/8	1	92	92	103	103	35	
	Grange	U.S.A.	4	5	8/8	5	160	424	179	475	-	
	Leo	Canada	8	4	19/8	18	464	990	500	1110	45	
	Maitland	"	6	4	18/8	4	428	962	479	1078	40	
	Malejovsky	Czech.	5	4	17/8	8	261	515	293	577	43	
	Mansfield	U.S.A.	9	6	8/8	2	369	523	414	587	-	
	Odenwalder	Germany	8	1	17/8	2	540	676	605	757	40	
	Otofte	Denmark	9	2	17/8	1	341	341	382	382	35	
	Roskilde	"	9	1	17/8	1	318	318	356	356	40	
	Taborsky	Czech	6	5	18/8	8	360	826	404	926	38	
	Tana	U.S.A.	9	6	8/8	2	202	217	226	243	-	
	Trebicky E	Czech.	6	4	17/8	9	439	806	492	904	40	
	Viglassky	"	7	4	17/8	9	289	560	324	628	35	
	Viking	U.S.A.	5	4	17/8	8	211	448	237	502	-	