

Forage Introductions
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FOREWORD

The production of forage seeds has long been an integral part of agriculture in the northern areas of Alberta and British Columbia. In recent years, with the advent of contract production of seed of foreign cultivars under O.E.C.D. Herbage Scheme, this industry has expanded rapidly. Many new cultivars were thus available for increase but information on their adaptability was wanting.

A testing program was designed in 1966 to rapidly evaluate these introduced cultivars at the Beaverlodge Research Station. Initial testing has been restricted to those cultivars which have been of particular interest to the Canadian Seed Trade. Consequently, the Trade was the primary source of seed for testing.

While many observations are recorded emphasis is placed on winter hardiness and relative seed yielding ability. 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.

This is the first report prepared on this program. We hope it will be useful to Seed Growers, members of the Seed Trade, and to Plant Breeding Institutions.

Key to Symbols:

Ratings 1 to 9 (9 best), - (not rated)
cm. - centimeters (1 inch = 2.54 cm)
kg/ha - kilograms per hectare (1 pound per acre
= 1.12 kg/ha)
* - first year data only.

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

Grasses

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Species	Cultivar	Origin	Hardiness	Seed Yields Kg/ha	Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
Bluegrass- Kentucky (<u>Poa pratensis</u>)									
	Altra	U.S.A.	9	250	7/20	7	41		
	Common	Canada	9	100	7/14	6	61		Mildew
	Cougar	U.S.A.	9	300	7/14	8	41	*	
	Delta	Canada	9	100	7/22	7	-		
	Dryland	Canada	9	70	7/18	5	51		
	Fylking	U.S.A.	9	100	7/14	7	33	*	
	Merion	U.S.A.	8	100	7/20	5	41		Rust & mildew
	Newport	U.S.A.	9	100	7/30	7	-		
	Nugget	U.S.A.	9	150	7/15	8	36		Rust & mildew
	Park	U.S.A.	9	100	7/20	6	58		Mildew
	Prato	Netherlands	9	200	7/20	7	38		Mildew
	SK-46	Poland	9	220	7/15	7	58		Mildew
	T-No.34	Denmark	9	150	7/15	7	56		Rust & mildew
Bluegrass- Canada (<u>P. compressa</u>)									
	Common	Canada	7	100	8/1	6	-		
Bluegrass- Upland (<u>P. glaucantha</u>)									
	Draylar	U.S.A.	9	200	7/14	5	36	*	
Bromegrass (<u>Bromus inermis</u>)									
	Achenbach	U.S.A.	9	220	8/15	5	-		
	Anto	Poland	9	300	8/12	6	89		
	Carlton	Canada	9	400	8/12	9	102		
	Magna	Canada	9	375	8/11	8	107	*	
	Manchar	U.S.A.	9	250	8/15	7	102		
	Polar	U.S.A.	9	325	8/11	8	102		
	Redpatch	Canada	9	150	8/11	5	102		
	S.A.C.	U.S.A.	9	150	8/11	7	107		
	Saratoga	U.S.A.	9	150	8/15	6	94		
	ZK	Czechoslovakia	9	300	8/11	7	107		
Fescue - Chewings (<u>F. rubra</u> var. <u>commutata</u>)									
	Barfalla		9	200	7/21	5	43	*	
	Brabantia	Netherlands	9	350	8/1	7	-		
	Brabantia L. Green)	"	9	100	8/1	5	-		

Species	Cultivar	Origin	Hardiness	Seed Yields Kg/ha	Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
Fescue - Chewings (<u>F. rubra</u> var. <u>commutata</u>) Cont'd									
	Golfrood	Netherlands	7	120	7/30	6	64		
	Highlight	Netherlands	9	350	7/17	7	41		Snowmold resis- tance
	Oasis	Netherlands	9	150	7/19	6	56		
Fescue - Creeping Red (<u>F. rubra</u>)									
	42-8	Netherlands	9	500	7/25	5	64	*	
	Arctared	U.S.A.	9	400	7/20	6	64		
	Bargena	Netherlands	9	500	7/25	6	74	*	
	Bergere	France	9	300	7/25	7	69	*	
	Boreal	Canada	9	600	7/30	9	64		
	Dawson	Netherlands	9	180	7/19	7	46	*	
	Duraturf	Canada	9	400	7/30	8	64		
	Echo	Denmark	9	600	7/25	9	64	*	
	Elco	Denmark	9	500	7/25	8	74	*	
	Elite	Denmark	9	350	7/30	7	-		
	Erika	Sweden	9	150	7/21	6	53	*	
	Illahee	U.S.A.	9	200	7/31	6	-		
	K.L. 257	-	9	400	7/25	6	79	*	
	Levocska	Czechoslovakia	9	500	7/25	8	74		
	Novorubra	Netherlands	9	400	7/25	8	64	*	
	N.F.G.	Germany	9	400	7/25	8	71	*	
	Oberhaunstadter	Germany	9	350	7/25	6	71	*	
	Odenrot	Germany	9	350	7/25	6	66	*	
	Olds	Canada	9	550	7/31	9	64		
	Pennlawn	U.S.A.	9	250	7/31	8	-		
	Polar	Sweden	9	200	7/25	6	53		
	Polo	Denmark	9	550	7/25	9	74	*	
	Rainier	U.S.A.	9	300	7/31	8	-		
	Reptans	Sweden	9	550	7/25	9	64		
	Rolax	Belgium	9	100	7/21	6	46		
	Roznovska	Czechoslovakia	9	300	7/27	8	71		
	Rubin	Sweden	9	400	7/27	9	66		
	Ruby	Netherlands	9	350	7/27	8	61		

Species	Cultivar	Origin	Hardiness	Seed Yield Kg/ha	Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
Fescue - Creeping Red (<u>F. rubra</u>) Cont'd									
	S-59	Great Britain	9	100	7/21	6	51		
	Sceempter	Netherlands	9	250	7/21	7	58		
	Sioux	Netherlands	9	300	7/21	8	-		
	Steinacher	Germany	9	400	7/21	8	66		
	Taborska	Czechoslovakia	9	400	7/25	8	66		
	Taca	Denmark	9	450	7/25	8	79		
	Tjelvar	Sweden	9	500	7/25	7	76	*	
	Viking	Sweden	9	200	7/31	8	-		
Fescue - Meadow (<u>F. pratensis</u> , <u>F. elatior</u>)									
	A0121E	Sweden	9	250	7/31	8	81	*	
	AS-9	Sweden	9	500	7/31	9	84		
	Barenza	Netherlands	9	500	7/31	8	74		
	Bergamo	Netherlands	9	400	7/31	8	76		
	Dina	Poland	9	250	7/31	8	66		
	Dufa	Netherlands	9	350	7/31	8	76		
	Ensign	Canada	9	450	7/31	8	-		
	Levocska	Czechoslovakia	9	350	7/31	9	81		
	Loken	Norway	9	350	7/31	9	86	*	
	Marbury	England	9	450	7/31	9	81	*	
	Mefon	Canada	9	400	7/31	8	-		
	Mewa	Poland	9	300	7/31	9	76		
	Mimer	Sweden	9	550	7/31	9	81		
	Mommersteeg's Hay	Netherlands	9	500	7/31	8	86		
	" Pasture	Netherlands	9	300	7/31	7	69		
	Ola	Poland	9	300	7/31	8	74		
	Paavo	Finland	9	400	7/31	7	89	*	
	Rossa	Netherlands	9	400	7/31	7	79	*	
	Roznovska	Czechoslovakia	9	500	7/31	7	84		
	R.v.P.	Belgium	8	500	7/31	7	69		
	S-53	Great Britain	9	300	7/31	7	71		
	Sceempter	Netherlands	8	350	7/31	7	86		
	Sena	Sweden	9	500	7/31	7	76	*	

Species	Cultivar	Origin	Hardiness	Seed Yields Kg/ha	Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
Fescue - Meadow (<u>F. pratensis</u> , <u>F. elatior</u>) Cont'd									
	Sequana	France	9	450	7/31	7	76		
	SK-6	Poland	9	450	7/31	8	81		
	Steinacher	Germany	9	350	7/31	8	89	*	
	Trader	Canada	9	350	7/31	8	86		
	Wehrdaer	Germany	9	450	7/31	8	74	*	
	Wendelmoed	Netherlands	9	300	7/31	5	81	*	
Fescue - Hard (<u>F. ovina</u> var. <u>duriuscula</u>)									
	Durar	U.S.A.	9	250	7/21	9	79		
Fescue - Tall (<u>F. arundinaceae</u>)									
	Alta	U.S.A.	9	350	7/31	7	81		
	Backafall	Sweden	9	250	7/31	7	79	*	
	Fawn	U.S.A.	9	200	7/31	7	64		
	Manade	France	9	150	7/31	6	51		
Oatgrass, Tall (<u>Arrhenatherum elatius</u>)									
	Remus	Poland	9	150	7/30	6	107		Shatters
	SK-5	Poland	9	150	7/18	6	107		Shatters
	Wena	Poland	9	150	7/18	6	107		Shatters
Oatgrass, Yellow (Yellow trisetum - <u>Trisetum flavescens</u>)									
	Common	Germany	9	-	-	4	61		Seed Shattered
Orchardgrass (<u>Dactylis glomerata</u>)									
	Aries	France	7	75	7/25	6	74		
	Chinook	Canada	9	110	7/25	7	81		
	Danish Common	Denmark	1	-	-	-	-		
	Fala	Poland	9	-7-	150	7/25	7	107	

Species	Cultivar	Origin	Hardiness	Seed Yields Kg/ha	Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
Orchardgrass (<u>Dactylis glomerata</u>)									
	Hercules	Canada	6	75	8/10	3	-		
	Marton vasaria	?	9	90	7/25	7	76	*	
	Roznovska	Czechoslovakia	9	110	7/25	7	81		
	T-No. 15	Denmark	8	100	7/25	7	86		
	T-No. 16	Denmark	8	120	7/25	7	91		
	T-No. 17	Denmark	6	80	7/25	5	84		
	Tardus II	Sweden	7	140	7/25	6	94		
	Taurus	France	6	10	7/25	5	74		
Reed Canarygrass (<u>Phalaris arundinacea</u>)									
	Common	Canada	9	50	7/21	7	-		Shatters
	Frontier	Canada	9	70	7/27	8	102		Shatters
	Luba	Poland	9	50	7/25	8	117		Shatters
Russian Wild-rye (<u>Elymus junceus</u>)									
	Common	Canada	9	220	8/2	6	-		
	Sawki	Canada	9	300	8/4	6	84		
Note: Russian Wild-rye seed is produced on 2 year old stands, and older, at Beaverlodge. Yields from first-year stands are negligible.									
Ryegrasses (<u>Lolium multiflorum</u>)									
	Barenza (W)	Netherlands	-	550	9/16	5	-		
	Barwoltra(W)	Germany	-	550	9/16	5	-		
	Billion (W)	Germany	-	600	9/16	6	-		
	Mowester (W)	Poland	-	900	9/16	5	-		
	Roznovsky (W)	Czechoslovakia	-	850	9/16	6	-		
	Tewera 113(W)	Netherlands	-	400	9/16	7	-		
	Tewera 114(W)	Netherlands	-	550	9/16	5	-		
	Vertas (W)	Netherlands	-	670	9/16	7	-		
	Tetrone	Germany	5	700	8/14	-	-		

Species	Cultivar	Origin	Hardiness	Seed Yields Kg/ha	Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
Ryegrass (<u>L. perenna</u>)									
	Argo	Poland	5	500	8/25	5	51		
	Mommersteeg's	Netherlands	5	300	8/25	3	46		
	NK-100	U.S.A.	4	300	8/15	4	-		
	Norlea	Canada	7	500	8/22	6	41		
	Oregon Common	U.S.A.	6	200	8/23	4	46		
	Pelo	Netherlands	6	250	8/23	4	43		
	Roznovsky	Czechoslovakia	9	250	8/20	5	56		
	R.v.P. Pasture	Belgium	5	150	8/30	3	51		
	T-No.10	Denmark	5	500	8/25	6	-		
	T-No.12	Denmark	5	500	8/25	7	-		
	T-No.13	Denmark	5	500	8/25	6	-		
	T-No.14	Denmark	1	-	-	-	-		
	Viris	Sweden	5	500	8/23	6	-		
	Linn.	U.S.A.	6	100	8/18	4	-		

Note: At Beaverlodge perennial ryegrass exhibits good hardiness for the first winter but sustains considerable injury the second winter, responding much like a biennial.

Timothy (Pleum bertolonii, P. nodosum)

	Evergreen	Sweden	9	400	8/25	7	69
	S-50	Great Britain	9	250	8/25	6	48
	Sport	France	9	300	8/25	6	51

Timothy (Phleum pretense)

	Astra	Sweden	9	300	8/10	9	86
	Barenza	Netherlands	9	350	8/15	8	79
	Bounty	Canada	9	300	8/15	8	94
	Champ	Canada	9	200	8/7	8	61
	Clair	U.S.A.	9	50	8/20	4	-
	Climax	Canada	9	420	8/10	9	91
	Daeno	-	9	250	8/10	8	81

Species	Cultivar	Origin	Hardiness	Seed Yields k/g/ha	Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
Timothy (<u>Phleum pretense</u>) Cont'd									
	Drummond	Canada	9	350	8/18	9	81		
	Engmo	Norway	9	450	8/20	8	-		
	Erecta	Belgium	9	400	8/8	8	76		
	Eskimo	Netherlands	9	300	8/8	9	84		
	Foka	Poland	9	250	8/8	7	89		
	Glasnevin Gem)	Ireland	9	50	8/11	7	64	*	
	Grasslands Kahu)	New Zealand	9	150	8/11	7	74	*	
	Heidemij	Netherlands	9	300	8/25	7	64		
	Hokuo	Japan	9	250	8/7	8	84	*	
	Kaempe II	Sweden	9	300	8/7	9	91	*	
	King	Netherlands	9	200	8/22	8	64		
	Kor	Poland	9	270	8/7	7	89		
	L.84	Italy	9	350	8/7	8	74		
	Landsberger	Germany	9	350	8/5	8	81	*	
	Levocska	Czechoslovakia	9	300	8/5	9	84		
	Lofar	Netherlands	9	300	8/20	8	84		
	Lorain	U.S.A.	9	300	8/15	9	91		
	No.90	Scotland	9	380	8/15	9	84		
	Oakmere	Great Britain	9	20	8/25	7	66	*	
	Odenwalder	Germany	9	375	8/5	9	74		
	Omnia	Sweden	9	375	8/15	8	79		
	Pajbjerg	Denmark	9	280	8/9	9	76		
	Para	Poland	9	400	8/8	9	81		
	Pecora	France	9	350	8/20	7	81		
	Phlewiola	Germany	9	230	8/7	9	89	*	
	S-48	Great Britain	9	250	8/30	7	61		
	S-51	Great Britain	9	200	8/15	8	84		
	Sceempter	Netherlands	9	200	8/22	7	69		
	Scotia	Great Britain	9	250	8/11	9	86	*	
	SK-45	Poland	9	300	8/6	9	86		
	Spaths	Germany	9	340	8/5	8	79	*	
	T-48	Sweden	9	300	8/15	8	89		
	Timo	Netherlands	9	200	8/22	8	74		
	Vanadis	Sweden	9	400	8/15	9	86		
	Vetrovsky	Czechoslovakia	9	350	8/7	9	81		

Species	Cultivar	Origin	Hardiness	Seed Yields Kg/ha	Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
Wheatgrass, Crested (<u>Agropyron cristatum</u>)									
	Fairway	Canada	9	500	8/22	9	69		
	Muzla	Czechoslovakia	9	500	8/22	8	71		
Wheatgrass, Crested (<u>A. desertorum</u>)									
	Nordan	U.S.A.	9	400	8/28	8	-		
	Summit	Canada	9	450	8/25	9	81		
Wheatgrass, Intermediate (<u>A. intermedium</u>)									
	Chief	Canada	9	700	9/15	9	127		
Wheatgrass, Pubescent (<u>A. trichophorum</u>)									
	Greenleaf	Canada	9	500	9/25	9	122	*	
	Mandan	U.S.A.	9	600	9/25	9	122		
Wheatgrass, Slender (<u>A. trachycaulum</u>)									
	Primar	U.S.A.	9	350	9/1	7	-		
Wheatgrass, Streambank (<u>A. riparium</u>)									
	Sodar	U.S.A.	9	700	7/31	7	71		
Wheatgrass, Tall (<u>A. elongatum</u>)									
	Orbit	Canada	9	400	9/23	7	100		

Legumes

Species	Cultivar	Origin	Hardiness	Seed Yields Kg/ha	Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
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Alfalfa (Medicago sativum)

Note: Alfalfa seed yields from these studies are considered low because of the competition of other legumes for pollinator insects. Yields reported here express the relative yielding ability of cultivars as determined by seed produced, flower development and general vigor.

Alfa	Sweden	8	430	9/15	7	81	
Apex	Sweden	8	230	9/15	8	79	
Beaver	Canada	8	300	9/15	9	76	
Dekalb Strain	U.S.A.	8	100	9/15	7	71	
Europa	France	7	200	9/15	7	71	
FD-100	France	8	300	9/15	8	71	
Grimm	U.S.A.	8	300	9/10	7	-	
Hodoninska	Czechoslovakia	9	100	9/15	8	61	
Kisvardai	Czechoslovakia	9	100	9/8	6	66	*
Kleszozewska	Poland	9	100	9/15	7	64	
Ladak	Canada	9	200	9/10	8	64	
Lucerna H652	Romania	9	100	9/10	7	66	
Marton vasaria	Czechoslovakia	9	50	9/8	7	69	*
Miechowska	Poland	9	100	9/15	7	64	
Nagyszenasi	Czechoslovakia	9	100	9/15	6	66	*
Nitranka	Czechoslovakia	9	75	9/15	8	58	
Ovari	Czechoslovakia	9	75	9/15	8	71	*
Prerovska	Czechoslovakia	9	100	9/15	9	64	
Rambler	Canada	8	150	9/15	9	58	
Rhizoma	Canada	7	150	9/15	7	-	
Roamer	Canada	8	150	9/15	8	69	
Slovenska podunajska)	Czech.	9	100	9/15	8	66	
" trebisovska	Czechoslovakia	9	100	9/15	7	61	
Vernal	U.S.A.	5	50	9/10	7	-	
Vojteska kasticka)	Czech.	8	300	9/10	9	58	
" moravska	Czechoslovakia	8	100	9/10	7	66	
" stupicka	Czechoslovakia	8	100	9/10	7	51	

Clover, Alsike (Trifolium hybridum)

Alon	Canada	6	300	8/30	6	28	Diploid
Aurora	Canada	8	450	8/30	9	31	Diploid

Species	Cultivar	Origin	Hardiness	Seed Yields Kg/ha	Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
Clover, Alsike (<u>Trifolium hybridum</u>) Cont'd.									
	Iso	Finland	6	300	8/20	7	-		Tetraploid
	Kurir	Sweden	8	350	8/26	6	31		Diploid
	Odenwalder	Germany	6	150	8/20	6	-		Diploid
	Superfine	France	6	250	8/30	6	-		Diploid
	Svea	Sweden	8	450	8/26	7	31		Diploid
	Tammisto	Finland	7	350	8/20	8	-		Diploid
	Tetra	Sweden	7	400	8/26	9	33		Tetraploid
Clover, Red (<u>Trifolium pratense</u>)									
	Alaskaland	U.S.A.	6	300	9/5	8	-		Diploid S.C.
	Altaswede	Canada	7	500	8/26	9	58		Diploid S.C.
	Bjursele	Sweden	5	300	8/26	7	36		Diploid S.C.
	Bollsta	Norway	6	300	9/10	9	-		Diploid S.C.
Cesky	Krajovylx	Czechoslovakia	7	800	9/1	6	46		Diploid S.C.
	Chlumecky	Czechoslovakia	5	200	8/29	5	31		Diploid S.C.
	Disa	Sweden	5	-	-	-	-	*	Diploid S.C.
	Essi	Sweden	7	150	8/18	5	33	*	Diploid S.C.
Fetzers	Kitzinger	Germany	5	300	8/14	5	-		Diploid S.C.
	Gloria	Poland	6	150	8/14	5	33		Diploid S.C.
	Hamidori	Japan	7	100	8/18	5	33	*	Diploid S.C.
	Hermes	Sweden	4	-	-	-	-		Diploid S.C.
Heyes	Hoherheimer	Germany	5	200	8/13	5	38		Diploid S.C.
	Hungarapoli	Hungary	7	300	8/14	6	43		Tetra. D.C.
	Jicinsky	Czechoslovakia	7	300	8/30	6	31		Diploid S.C.
	Jo. 37	Finland	7	300	8/30	7	-		Diploid S.C.
	Kuhn	Netherlands	7	100	8/26	5	31	*	Diploid D.C.
	Kustrask	Sweden	6	300	9/10	7	-		Diploid S.C.
	Lakeland	U.S.A.	6	-	8/18	5	26		Diploid D.C.
	Lasalle	Canada	6	150	8/30	6	-		Diploid D.C.
	Lembkes	Germany	4	-	-	-	-		Diploid S.C.
	Merkur	Sweden	5	-	-	5	-		Diploid S.C.
	Molstad	Norway	5	300	9/10	6	53		Diploid S.C.
	Odenwalder	Germany	6	200	8/13	5	38		Diploid D.C.
	Offer	Sweden	6	300	9/2	7	48		Diploid S.C.

Species	Cultivar	Origin	Hardiness	Seed Yields Kg/ha	Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
Clover, Red (<u>Trifolium pratense</u>) Cont'd.									
	Ottawa	Canada	6	50	8/26	5	31		Diploid D.C.
	Oygaard	-	5	250	9/10	7	-		Diploid S.C.
	Pajbjerg Bora	Denmark	7	350	8/26	6	51	*	Diploid S.C.
	Podtatranska E.	Czechoslovakia	6	100	8/14	5	36		Diploid D.C.
	Prerovsky dvon.	Czechoslovakia	8	400	8/14	5	38		Diploid D.C.
	Rea	Sweden	7	300	8/27	9	64		Tetra. S.C.
	Resistentia	Sweden	7	350	9/1	7	-		Diploid S.C.
	Robina	Netherlands	7	100	8/13	5	31		Diploid S.C.
	S 123	Great Britain	4	-	-	-	-		Diploid S.C.
	Sapporo	Japan	4	150	8/14	5	31		Diploid S.C.
	S.V. 059	Sweden	5	300	8/14	7	-		Tetra. S.C.
	Tammisto	Finland	7	300	8/26	6	51		Diploid S.C.
	Tepo	Finland	6	200	8/28	7	-		Tetra. S.C.
	Teroba	Netherlands	7	50	8/13	5	31	*	Diploid S.C.
	Tetri	Netherlands	7	250	8/14	6	41		Tetra. S.C.
	Tigid W.S.R.11	-	6	350	8/30	6	-		Tetra. S.C.
	Transilvania	Romania	6	150	8/14	5	36		Diploid S.C.
	Trebicky E.	Czechoslovakia	6	150	8/18	4	31		Diploid S.C.
	Tripo	Norway	7	400	8/30	9	71		Tetra. S.C.
	Tuna	Sweden	6	300	8/30	8	-		Diploid S.C.
	U-039	Sweden	4	-	-	-	-		Diploid S.C.
	Ultuna	Sweden	4	200	8/28	6	-		Diploid S.C.
	Ulva	Sweden	6	300	8/28	5	-		Tetra. S.C.
	Vidarshov	-	6	350	9/15	7	-		Diploid D.C.
	Viglassla	Czechoslovakia	7	500	8/30	6	43		Diploid S.C.
	Viola	Poland	7	200	8/30	5	41		Diploid S.C.

Clover, White (Trifolium repens)

	Dutch Common	Canada	6	500	8/20	6	-		
	Fries Groninger	Netherlands	7	150	8/30	5	15		
	Gigant	Germany	7	150	8/30	5	15	*	
	Kent	Great Britain	7	100	8/20	5	13		
	Kivi	Sweden	7	100	8/30	4	13	*	
	Ladino	U.S.A.	6	200	8/30	5	15		

Species	Cultivar	Origin	Hardiness	Seed Yields Kg/ha	Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
Clover, White (<u>Trifolium repens</u>) Cont'd									
	Merit	U.S.A.	7	100	8/26	5	15	*	
	Nora	Sweden	7	350	8/26	5	43		
	Ovoak	Czechoslovakia	8	200	8/30	7	13		
	Pilgrim	U.S.A.	6	50	8/20	5	13		
	Podkowa	Poland	8	200	8/20	5	10		
	T-No.4	Denmark	7	50	8/15	5	-		
	Tohoku 1	Japan	8	50	8/26	5	15	*	
	Viglassba	Czechoslovakia	8	150	8/30	5	15		
	V. Kamekes	Germany	8	100	8/30	5	10	*	
Sainfoin (<u>Onobrychis</u> spp.)									
	Busciansky	Czechoslovakia	8	400	8/15	5	66		
	Eski	U.S.A.	8	475	8/15	6	46		
	SK-48	Poland	8	300	8/15	5	48		
	Sparceta ICA 6	Romania	8	400	8/22	7	71		
	Visnovsky	Czechoslovakia	8	350	8/15	6	48		
Trefoil (<u>Lotus corniculatus</u>)									
	Cascade	U.S.A.	5	300	8/9	7	-		
	Empire	U.S.A.	6	450	8/15	7	-		
	Granger	U.S.A.	5	300	8/10	7	-		
	Leo	Canada	8	700	8/30	8	43		
	Malejovsky	Czechoslovakia	7	400	8/15	6	38		
	Mansfield	U.S.A.	6	400	8/10	7	-		
	Taborsky	Czechoslovakia	7	500	8/20	7	31		
	Tana	U.S.A.	6	200	8/15	7	-		
	Trebicky E.	Czechoslovakia	7	500	8/15	6	31		
	Viglassky	Czechoslovakia	8	400	8/20	7	31		
	Viking	U.S.A.	5	300	8/30	6	-		