

FORAGE INTRODUCTIONS

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Research Station

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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. It 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

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GRASSES

Forage Cultivar Introductions, Canada Dept. of Agriculture, Research Station, Beaverlodge, Alberta, November, 1969

Species	Cultivar	Origin	Hardiness	Seed Yields		Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
				Kg/ha	g/ha					
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. glaucaantha</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
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Fescue - Chewings (F. rubra var. commutata) Cont'd

Golfrond		Netherlands	7	120	7/30	6	64		
Hightlight		Netherlands	9	350	7/17	7	41		
Oasis		Netherlands	9	150	7/19	6	56		Snowmold resis- tance

Fescue - Creeping Red (F. rubra)

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	*	
Illabee		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		
Penlawn		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		
Taboriska		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 (F. pratensis, F. elatior)

A0121J		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									
	Seguana	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>)									
	Durra	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	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	-		
Tetrona		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. perenne</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	-	-	-	-		
Virris		Sweden	5	500	8/23	6	-		
Lim.		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 (<u>Phleum bertolonii</u>, <u>P. nodosum</u>)									
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 (<u>Phleum pratense</u>)									
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		
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Species	Cultivar	Origin	Hardiness	Seed Yields k/g/ha	Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
Timothy (<i>Phleum pratense</i>) 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	*	
	Heidemi j	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	*	
	Levoska	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		
	Omia	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		

WINDY
DICK

WINDY
A. B. DICK

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	71		
Hodonińska		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		
Nagyssenasi		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
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Clover, Alsike (<i>Trifolium hybridum</i>) Cont'd.									
Iso		Finland	6	300	8/20	7	-		Tetraploid
Kurir		Sweden	8	370	8/26	6	31		Diploid
Odenwaller		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 (*Trifolium pratense*)

Alaskaland		U.S.A.	6	300	9/5	8	-		Diploid S.C.
Altaswede		Canada	7	500	8/26	9	58		Diploid S.C.
Bjurselo		Sweden	5	300	8/26	7	36		Diploid S.C.
Bollsta		Norway	6	300	9/10	9	-		Diploid S.C.
Cesky Krajovalx		Czechoslovakia	7	800	9/1	6	46		Diploid S.C.
Chlumecky		Czechoslovakia	5	200	8/22	5	31		Diploid S.C.
Disa		Sweden	5	-	-	-	-	*	Diploid S.C.
Fssi		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	-	-	-	-		Diploid S.C.
Molstad		Norway	5	300	9/10	6	53		Diploid S.C.
Odenwaller		Germany	6	200	8/13	7	38		Diploid D.C.
Offer		Sweden	6	300	9/2	7	48		Diploid S.C.

Clover, Red (Trifolium pratense) Cont'd.

Species	Cultivar	Origin	Hardiness	Seed Yields		Seed Ripe	Agron. Rating	Ht. cm.	One Year's Data	Comments
				Kg/ha						
	Ottawa	Canada	6	50		8/26	5	31		Diploid D.C.
	Oygarð	-	5	250		9/10	7	-		Diploid S.C.
	Pajbjerg	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.
	Resistentta	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.
	Trebicksky 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	-		Diploid S.C.
	Vidarshov	Sweden	6	350		9/15	7	-		Tetra. S.C.
	Viglassla	-	7	500		8/30	6	43		Diploid S.C.
	Viola	Czechoslovakia	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	.15	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	-	*	
	Tehoku 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		
	Eskl	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	-		
	Taborisky	Czechoslovakia	7	500	8/20	7	31		
	Tana	U.S.A.	6	200	8/15	7	-		
	Trebickiy 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	-		