

Cultivar	Origin	Hardiness	Height (cm)	Date Ripe			Seed Yield						Herbage Yield					
				1979	1980	1981	Yield kg/ha			% of Climax			Yield (DM) t/ha			% of Climax		
							1979	1980	1981	1979	1980	1981	1979	1980	1981	1979	1980	1981
Palermo	Netherlands	7	63	Aug. 15	Aug. 19	--	(1)	15	27	(1)	4	33	(2)	2.17	1.70	(2)	32	70
Pedion	Netherlands	9	61	Aug. 15	Aug. 19	Aug. 10		116	44		31	53		4.52	2.44		67	100
Pet	Germany	9	84	Aug. 15	July 30	July 29		258	160		70	193		1.93	2.38		29	98
Phlewiola	Germany	9	81	Aug. 15	July 30	Aug. 10		417	56		112	67		5.26	2.44		79	100
Pota	Denmark	8	85	Aug. 15	July 30	Aug. 10		268	116		72	140		4.32	2.16		64	89
Pronto	U.S.A.	9	82	Aug. 15	July 30	Aug. 10		130	114		35	137		2.98	2.27		44	93
Ramona	Netherlands	9	64	Aug. 15	Aug. 19	(3)		110	(3)		30	(3)		1.55	1.53		23	63
Rasant	Germany	9	86	Aug. 15	July 30	July 29		344	188		93	227		3.34	2.58		49	106
Richmond	Canada	9	87	Aug. 15	July 30	July 29		212	131		57	158		3.81	2.51		56	103
Rotenberg	Sweden	9	91	Aug. 15	July 30	Aug. 7		457	187		123	225		4.61	3.16		68	130
RVP 25IF	Belgium	9	78	Aug. 15	July 30	Aug. 10		53	85		14	102		4.42	1.95		65	80
Sabre	United Kingdom	9	67	Aug. 15	Aug. 19	Aug. 10		74	70		20	84		3.13	1.63		46	67
Sigma	Netherlands	9	57	Aug. 15	Aug. 19	Aug. 10		126	73		34	88		2.94	1.48		43	61
Suceava	Rumania	9	84	Aug. 15	July 30	Aug. 10		141	128		38	154		2.41	2.87		36	118
Surprise	Netherlands	9	78	Aug. 15	Aug. 19	Aug. 10		122	75		33	90		4.10	2.16		61	89
Tammisto	Finland	9	92	Aug. 15	July 30	Aug. 10		553	162		149	195		5.77	2.48		85	102
Tapio 800	Hungary	9	94	Aug. 15	July 30	Aug. 10		284	157		77	189		2.92	2.71		43	112
Tarmo	Finland	9	90	Aug. 15	July 30	Aug. 4		338	153		91	184		4.42	2.17		65	89
Timfor	U.S.A.	9	86	Aug. 15	July 30	July 29		188	104		51	125		3.71	2.16		55	89
Topas Otofte	Denmark	9	84	Aug. 15	July 30	Aug. 10		248	88		67	106		4.22	2.13		62	88
Vallo	Sweden	8	83	Aug. 15	July 30	Aug. 10		404	118		109	142		6.67	2.32		99	95
Verdant	U.S.A.	9	91	Aug. 15	July 30	Aug. 10		157	111		42	134		3.25	2.66		48	109
Mean								237.74	113.83					3.99	2.28			
L.S.D. (P = .05)								172.37	48.23					3.15	0.72			

(1) Harvested seeds destroyed by fire

(2) Herbage not measured

(3) Seed not harvested in 1981

Cultivar	Origin	Height (cm)	Hardiness			Seed Yield						Herbage Yield					
			1979	1980	1981	Yield kg/ha			% of Aurora			Yield (DM) t/ha			% of Aurora		
						1979	1980	1981	1979	1980	1981	1979	1980	1981	1979	1980	1981
Aldan Trifolium	Denmark	(1)	7	4	4	460	86	16	83	90	38	4.35	0.34	0.41	110	57	87
Alpo	Norway		7	0	-	556	0	-	100	0	-	3.77	0	-	95	0	-
Aurora*	Canada		8	5	5	556	96	42	100	100	100	3.99	0.60	0.47	100	100	100
Dawn	Canada		8	5	5	624	128	34	112	133	81	4.51	0.40	0.42	113	67	89
Ermo Otofte	Denmark		6	4	4	450	104	44	81	108	105	3.14	-	0.44	78	-	94
Hogsta	Sweden		9	6	4	484	109	30	87	114	71	4.03	0.43	0.26	100	72	55
Iso Tetra	Finland		9	7	4	524	100	32	94	104	76	4.55	0.36	0.47	113	60	100
Jeno Daehnfeltdt	Denmark		6	3	2	353	54	24	63	56	57	4.17	-	0.28	105	-	60
Odenwalder	Germany		8	6	5	487	187	18	88	195	43	4.25	0.27	0.37	105	45	79
Otofte	Denmark		4	1	-	506	43	-	91	45	-	2.85	-	-	73	-	-
Otofte 4N	Denmark		8	6	5	516	104	33	93	108	79	3.91	0.22	0.43	98	37	91
Stena 4N	Sweden		9	5	3	413	36	0	74	38	0	4.18	0.16	0	105	27	0
Strain II	Canada		7	5	5	492	139	31	88	145	74	5.02	0.36	0.43	125	60	91
Tetra	Sweden		9	7	5	569	139	48	102	145	114	4.36	0.38	0.49	110	63	104
Mean						499	95	29				4.08	0.32	0.37			
L.S.D. (P = .05)						116.18	63.13	31.03				1.44	0.27	0.29			

(1) Height not measured

Cultivar	Origin	Height (cm)	Hardiness		Seed Yield				Herbage Yield			
			1980	1981	Kg/ha		% of Atlaswede		(DM)		% of Atlaswede	
					1980	1981	1980	1981	1980	1981	1980	1981
Atlaswede*	Canada	46	9	8	573	166	100	100	4.21	2.02	100	100
Bjorn	Sweden	47	9	8	442	197	77	119	5.07	2.19	121	108
Florex	U.S.A.	45	8	6	529	128	92	77	4.53	1.77	107	88
Florie	U.S.A.	48	7	4	377	96	66	58	3.37	0.93	81	46
Gollum	Denmark	51	8	5	537	207	94	125	4.33	1.40	102	69
Granta	United Kingdom	56	8	1	447	39	73	23	3.43	0	81	0
Grasslands Pawera	New Zealand	45	8	3	169	85	29	51	4.28	0.82	102	41
Gumpensteiner	Austria	45	8	3	307	15	54	9	2.99	0.34	69	17
Krano	Denmark	50	9	6	679	304	118	183	4.33	1.88	102	93
Lossam 4N	France	55	8	1	161	0	28	0	3.28	0	79	0
Marino	East Germany	47	8	4	381	50	66	30	2.99	0.64	69	32
Merkur	Sweden	53	9	7	437	276	76	166	4.65	2.51	110	124
Mont-Calme	Switzerland	43	7	3	360	0	63	0	2.75	0.06	67	3
Norlac	Canada	45	9	8	645	208	113	125	4.78	2.64	112	131
Pacific	Canada	49	7	1	594	0	104	0	2.91	0	69	0
Palna	Denmark	49	9	6	594	252	104	152	5.14	2.18	121	108
Patavium	Italy	45	4	3	378	0	66	0	1.70	0	41	0
Perenta 4N	Rumania	47	8	3	218	22	38	13	2.72	0.30	64	15
Quinequeli	Chile	43	4	1	317	0	55	0	1.53	0	36	0
Rea 4N	Sweden	51	9	2	285	0	50	0	1.83	0	43	0
Sally 4N	Sweden	43	8	3	247	69	43	42	1.50	0.62	36	31
Sara 4N	Sweden	39	7	4	278	48	49	29	1.51	0.65	36	32
Taplanszentkeresztli	Hungary	44	8	1	492	0	86	0	2.86	0	69	0
Temara 4N	Switzerland	49	9	1	93	0	16	0	0.98	0	24	0
Tristan	U.S.A.	44	9	5	494	130	86	78	3.50	1.21	83	60
Venla	Finland	47	9	6	479	190	84	114	4.45	1.97	107	98
Mean					404	95			3.29	0.93		
L.S.D. (P = .05)					127.56	71.34			1.19	0.64		

Seed Yield

Herbage Yield

Cultivar	Origin	Height (cm)	Hardiness			Yield kg/ha			% of Atlaswede			(DM) t/ha			% of Atlaswede		
			1979	1980	1981	1979	1980	1981	1979	1980	1981	1979	1980	1981	1979	1980	1981
Atlaswede*	Canada	(1)	9	9	8	713	529	148	100	100	100	6.27	1.14	1.94	100	100	100
Arlington	U.S.A.		2	2	0	371	52	0	52	10	0	2.86	0.27	0	46	24	0
Astra	United Kingdom		2	2	2	260	179	-	36	34	-	3.30	0.48	-	53	42	-
Bjorn	Sweden		9	9	6	540	362	176	76	68	119	5.64	0.95	1.14	90	83	59
Durdo	Denmark		3	0	-	616	0	-	86	0	-	3.49	0	-	56	0	-
Elbo	Denmark		7	7	6	618	434	135	87	82	91	3.71	0.90	0.98	59	79	51
Granta	United Kingdom		1	0	-	233	0	-	33	0	-	2.00	0	-	32	0	-
Gumpensteiner	Austria		0	-	-	92	0	-	13	0	-	1.43	0	-	23	0	-
Heges Hohenheimer	Germany		0	-	-	0	-	-	0	-	-	1.16	-	-	19	-	-
Krano	Denmark		7	6	6	784	337	118	110	64	80	3.80	0.56	0.79	61	49	41
Kuhn	Netherlands		3	2	0	287	64	0	40	12	0	3.39	0.21	0	54	18	0
Marcom	France		0	-	-	39	0	-	5	0	-	1.57	0	-	25	0	-
Maris Gemini	United Kingdom		1	-	-	211	0	-	30	0	-	1.73	0	-	28	0	-
Merkur	Sweden		9	7	6	612	343	147	86	65	99	4.59	0.84	1.29	73	74	66
Mont-Calme	Switzerland		1	0	-	148	0	-	21	0	-	2.22	0	-	35	0	-
Nava Trifolium	Denmark		7	7	4	877	351	114	123	66	77	4.22	0.71	0.71	67	62	37
Norlac	Canada		9	9	7	566	510	143	79	96	97	6.72	0.96	1.35	107	84	70
Norseman	United Kingdom		0	-	-	0	-	-	0	-	-	0.64	-	-	10	-	-
Olvi Otofte	Denmark		3	2	0	475	113	0	67	21	0	3.05	0.21	0	49	18	0
Pacific	Canada		0	-	-	0	-	-	0	-	-	1.07	-	-	17	-	-
Redland	U.S.A.		1	-	-	273	0	-	38	0	-	2.57	0	-	41	0	-
S 123	United Kingdom		2	0	-	333	0	-	47	0	-	2.33	0	-	37	0	-
Taplanszentkere- szti	Hungary		0	-	-	83	0	-	12	0	-	1.38	0	-	22	0	-
Venla	Finland		7	8	6	675	377	128	95	71	86	5.63	0.92	1.24	90	81	64

(1) Height not measured