

Cultivar	Origin	Hardiness	Height (cm)	Date 1979	Ripe 1980	Seed Yield				Herbage Yield			
						Kg/ha		% of Climax		(DM) t/ha		% of Climax	
						1979	1980	1979	1980	1979	1980	1979	1980
Palermo	Netherlands	9	25	Aug. 22	Aug. 14	221	145	54	55	(1)	1.83	(1)	40
Para	Poland	9	66	Aug. 9	Aug. 5	339	305	82	116		3.44		74
Pedion	Netherlands	9	62	Aug. 22	Aug. 14	292	53	71	20		3.34		72
Pet	Germany	9	66	Aug. 9	July 30	448	348	108	133		4.54		98
Phlewiola	Germany	9	67	Aug. 9	July 30	335	217	81	83		4.26		92
Pota	Denmark	9	69	Aug. 12	July 30	458	303	111	116		5.17		112
Pronto	USA	9	67	Aug. 15	July 30	371	192	90	73		5.69		123
Ramona	Netherlands	9	20	Aug. 22	Aug. 11	185	121	45	46		2.56		55
Rasant	Germany	9	71	Aug. 9	July 30	414	358	100	137		4.00		86
Richmond	Canada	9	66	Aug. 9	July 30	398	336	96	128		4.56		98
Rotenberg	Sweden	9	70	Aug. 9	July 30	442	338	107	129		4.65		100
RVP251F	Belgium	9	60	Aug. 17	Aug. 4	309	52	75	20		4.72		102
Sabre	U.K.	9	66	Aug. 22	Aug. 25	356	137	86	52		5.02		108
Sigma	Netherlands	9	53	Aug. 22	Aug. 14	304	36	74	14		3.29		71
Suceava	Romania	9	65	Aug. 9	July 30	407	342	99	131		4.18		90
Surprise	Netherlands	9	66	Aug. 17	Aug. 5	449	202	109	77		5.40		117
Tammisto	Finland	9	74	Aug. 9	July 30	457	341	111	130		4.03		87
Tapio 800	Hungary	9	69	Aug. 9	July 30	390	306	94	117		4.35		95
Tarmo	Finland	9	69	Aug. 9	July 30	561	369	136	141		4.90		106
Tjida	Denmark	9	62	Aug. 11	Aug. 2	365	200	88	76		3.58		77
Timfor	USA	9	65	Aug. 9	July 30	328	255	79	97		4.39		95
Topas Ototte	Denmark	9	67	Aug. 12	July 30	357	231	86	88		4.38		95
Vallo	Sweden	9	65	Aug. 11	July 30	534	393	129	150		4.49		97
Verdant	USA	9	76	Aug. 15	Aug. 1	382	226	92	86		5.06		109
Mean						399	230				4.45		
L.S.D. (P = .05)						42.04	38.43				0.58		

(1) Herbage not measured

Cultivar	Origin	Hardiness	Height (cm)	Date 1979	Ripe 1980	Seed Yield				Herbage Yield			
						kg/ha		% of Climax		(DM) t/ha		% of Climax	
						1979	1980	1979	1980	1979	1980	1979	1980
Asterix	Netherlands	9	47	Aug.20	Aug.20	(1)	102	(1)	39	(2)	.98	(2)	48
Barmidi	Netherlands	9	66	Aug.15	Aug. 2		128		48		1.84		90
Barmoti	Netherlands	9	64	Aug.15	Aug. 2		232		88		1.68		82
Bartimi	Netherlands	9	54	Aug.15	July29		156		59		1.81		88
Barvanti	Netherlands	9	54	Aug.19	Aug.12		102		39		1.82		89
Basho	Canada	9	69	Aug.17	July29		164		62		1.66		81
Bodin	Norway	9	71	Aug.17	July29		386		146		2.48		121
Bottnia II	Sweden	9	69	Aug.15	July29		258		98		2.40		117
Champlain	Netherlands	9	73	Aug.15	Aug. 4		175		66		2.10		102
Climax*	Canada	9	74	Aug.15	July29		264		100		2.05		100
Deploy	U.K.	9	27	Aug.17	Aug.12		40		15		.83		40
Engmo	Norway	9	70	Aug.15	July29		358		137		2.60		127
Erecta	Belgium	9	69	Aug.15	July29		162		63		1.59		78
Fanol	Netherlands	9	63	Aug.15	Aug.12		132		50		1.42		69
Forus	Norway	9	68	Aug.15	July29		295		112		2.14		104
Georgikon	Hungary	9	71	Aug.15	July29		349		132		2.26		110
Gollath	Netherlands	9	99	Aug.15	July29		177		67		1.68		82
Grindstad	Norway	9	65	Aug.15	July29		204		77		1.79		87
Gusto	Netherlands	9	64	Aug.20	Aug.12		70		27		2.27		111
Hokus	Japan	9	56	Aug.15	July29		163		62		1.37		67
Korpa	Iceland	9	69	Aug.15	July29		482		183		3.16		154
Mahndorfer	Germany	9	64	Aug.15	July29		237		90		1.83		89
Megas	Netherlands	9	67	Aug.15	Aug.12		123		47		1.40		68
Meson	Netherlands	9	67	Aug.17	Aug.12		183		69		2.03		99
Mino	Denmark	9	49	Aug.15	Aug. 6		48		18		.90		44
Motim	Netherlands	9	54	Aug.15	Aug. 6		153		58		1.74		85

(1) Harvested seeds destroyed by fire.

(2) Herbage not measured.

Cultivar	Origin	Hardiness	Height (cm)	Date Ripe 1979 1980	Seed Yield				Herbage Yield				
					1979	Kg/ha 1980	% of Climax 1979	% of Climax 1980	(DM) 1979	t/ha 1980	% of Climax 1979	% of Climax 1980	
N.F.G.	Germany	9	65	Aug. 15	July 29	(1)	289	(1)	109	(2)	1.84	(2)	90
Otto	Finland	9	76	Aug. 15	July 29		445		169		2.86		140
Palermo	Netherlands	9	22	Aug. 15	July 29		83		31		.61		30
Pedion	Netherlands	9	59	Aug. 15	Aug. 12		118		45		1.65		80
Pet	Germany	9	68	Aug. 15	July 29		268		102		2.05		100
Phlewiola	Germany	9	66	Aug. 15	July 29		245		93		2.08		101
Pota	Denmark	9	66	Aug. 15	July 29		196		74		1.91		93
Pronto	USA	9	69	Aug. 15	July 29		219		83		2.13		104
Ramona	Netherlands	9	19	Aug. 15	Aug. 6		36		14		.38		19
Rasant	Germany	9	66	Aug. 15	July 29		347		131		2.37		116
Richmond	Canada	9	64	Aug. 15	July 29		220		83		2.13		104
Rotenberg	Sweden	9	73	Aug. 15	July 29		412		156		2.21		108
RVP251F	Belgium	9	57	Aug. 15	Aug. 6		147		56		2.15		105
Sabre	U.K.	9	57	Aug. 19	Aug. 20		178		67		1.19		58
Sigma	Netherlands	9	44	Aug. 20	Aug. 12		162		61		1.44		70
Suceava	Romania	9	56	Aug. 15	July 23		214		81		1.70		83
Surprise	Netherlands	9	55	Aug. 17	Aug. 6		229		87		2.30		112
Tammisto	Finland	9	72	Aug. 15	July 29		350		135		2.40		117
Tapio 800	Hungary	9	67	Aug. 15	July 29		266		101		2.01		98
Tarmo	Finland	9	71	Aug. 15	July 29		436		165		2.47		120
Tilda	Denmark	9	74	Aug. 15	July 29		204		77		1.56		76
Timfor	USA	9	61	Aug. 15	July 29		247		94		2.03		99
Topas Otäfte	Denmark	9	71	Aug. 15	July 29		137		52		1.12		55
Vallo	Sweden	9	71	Aug. 15	July 29		358		136		2.26		110
Verdant	USA	9	72	Aug. 15	July 29		229		87		2.52		123
Mean							219				1.87		
L.S.D. (P = .05)							54.99				0.36		

(1) Harvested seeds destroyed by fire.

(2) Herbage not measured.