

Cultivar	Origin	Hardiness	Height (cm)	Date 1980	Ripe 1981	Seed Yield				Herbage Yield			
						Kg/ha		% of Climax		Yield t/ha		% of Climax	
						1980	1981	1980	1981	1980	1981	1980	1981
Alpage	France	9	80	Aug. 18	Aug. 5	384	204	105	109	5.21	3.30	98	104
Asterix	Netherlands	8	53	Sept. 6	Aug. 16	465	63	127	34	6.28	1.69	118	53
Bartimi	Netherlands	9	76	Aug. 12	Aug. 5	405	260	110	138	5.11	3.59	96	114
Basho	Canada	9	74	Aug. 20	Aug. 7	192	87	52	46	3.71	2.71	70	86
Bilbo	Denmark	9	82	Aug. 16	Aug. 5	309	219	84	116	4.84	3.00	91	95
Bottnia 11	Sweden	9	83	Aug. 12	Aug. 5	703	432	192	230	4.89	4.83	92	153
Bounty	Canada	9	81	Aug. 19	Aug. 11	218	158	59	84	4.51	2.77	85	88
Champ	Canada	9	79	Aug. 12	Aug. 5	353	202	96	107	5.05	3.57	95	113
Climax*	Canada	9	82	Aug. 12	Aug. 13	367	188	100	100	5.30	3.16	100	100
Engmo	Norway	9	82	Aug. 12	Aug. 5	571	414	156	220	4.63	5.03	87	159
Erecta	Belgium	9	79	Aug. 13	Aug. 5	469	228	128	121	5.64	3.15	106	100
Goliath	Netherlands	9	79	Aug. 12	Aug. 5	407	233	111	124	5.58	3.18	105	101
Hokushu	Japan	9	75	Aug. 19	Aug. 13	443	295	121	157	6.60	3.61	125	114
Itasca	Sweden	9	87	Aug. 12	Aug. 5	268	155	73	82	5.05	3.50	95	111
Korpa	Iceland	9	84	Aug. 12	Aug. 5	792	401	216	213	4.61	3.96	87	125
Ludor	France	9	73	Aug. 19	Aug. 13	131	104	36	55	4.81	1.93	91	61
Melora	Netherlands	9	74	Aug. 16	Aug. 11	363	210	99	112	5.80	5.21	109	165
Mino	Denmark	9	76	Aug. 16	Aug. 13	304	251	82	134	5.33	2.72	101	86
Nosappu	Japan	9	88	Aug. 12	Aug. 5	496	332	135	177	5.28	4.25	100	134
Otto	Finland	9	87	Aug. 12	Aug. 5	537	308	146	164	4.41	4.00	83	127
Polka	United Kingdom	9	84	Aug. 13	Aug. 5	431	201	117	107	5.07	3.05	96	97
Pota	Denmark	9	85	Aug. 12	Aug. 5	406	206	111	110	5.50	3.39	104	107
Pronto	U.S.A.	9	83	Aug. 13	Aug. 5	403	229	110	122	5.48	3.55	103	112
Purlieu	United Kingdom	9	78	Aug. 16	Aug. 5	358	147	98	78	5.04	2.88	95	91
Rasant	Germany	9	85	Aug. 12	Aug. 5	607	348	165	185	5.01	3.78	95	120
Richmond	Canada	9	82	Aug. 16	Aug. 5	319	186	87	99	4.81	2.99	91	95
RVP 251F	Belgium	9	79	Aug. 16	Aug. 11	272	138	74	73	5.94	2.93	112	93
Salvo	Canada	9	78	Aug. 13	Aug. 5	225	60	61	32	4.47	1.85	84	59
Sigma	Netherlands	9	53	Aug. 26	Aug. 17	671	262	183	139	6.10	3.14	115	99
Tiiti	Finland	9	85	Aug. 12	Aug. 5	631	382	172	203	5.50	4.07	104	129
Tilda	Denmark	9	80	Aug. 12	Aug. 5	358	288	98	153	4.77	3.97	90	126
Topas Otofte	Denmark	9	83	Aug. 12	Aug. 5	399	258	109	137	5.51	3.48	104	110
Verdant	U.S.A.	9	88	Aug. 12	Aug. 13	410	326	112	173	6.17	4.09	116	129
Mean						404	236			5.16	3.32		
L.S.D. (P = .05)						154.75	63.10			0.95	1.27		

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						1980	1981	1980	1981	1980	1981	1980	1981
Alpage	France	9	67	Aug. 5	Aug. 13	358	239	105	84	4.22	4.35	98	93
Asterix	Netherlands	9	56	Aug. 25	Aug. 17	114	63	34	22	4.11	3.66	95	78
Bartini	Netherlands	9	63	Aug. 11	Aug. 13	406	386	119	136	4.29	5.60	99	119
Basho	Canada	9	64	Aug. 5	Aug. 10	352	148	104	52	3.68	3.37	85	72
Bilbo	Denmark	9	66	Aug. 5	Aug. 4	433	255	127	90	4.49	4.50	104	96
Bottnia 11	Sweden	9	68	July 30	Aug. 7	498	311	146	110	5.54	5.20	129	111
Bounty	Canada	9	69	Aug. 11	Aug. 11	291	176	86	62	4.27	4.08	99	87
Champ	Canada	9	64	July 30	Aug. 6	304	159	89	56	4.01	4.17	93	89
Climax*	Canada	9	69	Aug. 5	Aug. 13	340	283	100	100	4.31	4.70	100	100
Engmo	Norway	9	69	Aug. 5	Aug. 7	639	213	188	75	5.28	4.31	123	92
Erecta	Belgium	9	65	Aug. 5	Aug. 13	369	260	109	92	4.30	4.40	100	94
Goliath	Netherlands	9	66	Aug. 5	Aug. 4	354	268	104	95	4.77	4.89	111	104
Hokushu	Japan	9	59	Aug. 11	Aug. 14	219	307	64	108	5.22	5.09	121	108
Itasca	Sweden	9	66	July 30	Aug. 4	295	159	87	56	4.44	4.90	103	104
Korpa	Iceland	9	67	July 30	Aug. 4	274	289	81	102	5.70	4.86	132	103
Ludor	France	8	61	Aug. 11	Aug. 13	181	162	53	57	3.70	3.12	86	66
Melora	Netherlands	9	61	Aug. 11	Aug. 13	269	274	79	97	4.78	4.21	111	90
Mino	Denmark	9	64	Aug. 11	Aug. 13	306	286	90	101	4.63	4.48	107	95
Nosappu	Japan	9	67	July 30	Aug. 4	506	247	149	87	5.06	4.61	117	98
Otto	Finland	9	66	July 30	Aug. 4	501	252	147	89	4.53	4.73	105	101
Polka	United Kingdom	9	68	Aug. 5	Aug. 13	384	217	113	77	4.06	4.04	94	86
Pota	Denmark	9	70	Aug. 5	Aug. 9	436	284	128	101	4.80	5.17	111	110
Pronto	U.S.A.	9	68	Aug. 5	Aug. 4	389	223	114	79	4.79	4.51	111	96
Purlieu	United Kingdom	9	66	Aug. 11	Aug. 13	334	301	98	106	5.22	4.56	121	97
Ramona	Netherlands	8	32	Aug. 11	Aug. 16	205	132	60	47	2.36	1.98	55	42
Rasant	Germany	9	65	July 30	Aug. 4	558	289	164	102	4.85	4.88	113	104
Richmond	Canada	9	61	July 30	Aug. 4	422	182	124	64	4.42	3.85	103	82
RVP25IF	Belgium	9	62	Aug. 11	Aug. 13	180	153	53	54	3.97	4.07	92	87
Salvo	Canada	8	56	July 30	Aug. 4	275	80	81	28	3.54	2.47	82	53
Sigma	Netherlands	9	53	Aug. 25	Aug. 16	332	268	98	95	3.63	4.40	84	94
Tiiti	Finland	9	66	July 30	Aug. 13	437	337	129	119	5.64	5.05	131	107
Tilda	Denmark	9	66	Aug. 5	Aug. 4	517	235	152	83	5.14	4.96	119	105
Topas Otofte	Denmark	9	67	Aug. 5	Aug. 8	486	248	143	88	4.98	4.71	116	100
Verdant	U.S.A.	9	74	Aug. 5	Aug. 13	358	301	105	106	5.11	5.04	119	93
Mean						371	235			4.53	4.38		
L.S.D. (P = .05)						84.63	66.21			0.85	0.56		

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						Kg/ha		% of Climax		Yield	t/ha	% of Climax	
						1980	1981	1980	1981	1980	1981	1980	1981
Alpage	France	9	52	Aug. 6	Aug. 6	148	212	116	150	1.82	3.33	92	108
Asterix	Netherlands	8	35	Aug. 20	Aug. 14	28	109	46	77	0.69	2.93	35	95
Bartimi	Netherlands	9	50	Aug. 6	Aug. 11	186	257	145	182	1.83	3.59	92	116
Basho	Canada	9	45	Aug. 6	July 31	79	49	62	35	1.44	2.10	73	68
Bilbo	Denmark	9	55	July 29	Aug. 14	176	164	138	116	1.94	3.04	98	98
Bottnia 11	Sweden	9	57	July 29	July 31	206	344	161	244	2.34	4.22	118	137
Bounty	Canada	9	55	Aug. 6	Aug. 14	104	91	81	65	1.43	2.31	72	75
Champ	Canada	9	44	Aug. 6	Aug. 14	107	93	84	66	1.50	2.47	76	80
Climax*	Canada	9	52	Aug. 6	Aug. 11	128	141	100	100	1.98	3.09	100	100
Engmo	Norway	9	56	Aug. 6	July 31	222	372	173	264	2.07	3.92	105	127
Erecta	Belgium	9	56	July 29	July 31	120	241	94	171	1.86	3.39	94	110
Goliath	Netherlands	9	52	July 29	Aug. 8	150	268	117	190	1.96	3.29	99	106
Hokushu	Japan	9	54	Aug. 8	Aug. 12	164	353	128	250	2.07	3.86	105	125
Itasca	Sweden	9	52	July 29	Aug. 11	108	120	84	85	1.91	3.10	96	100
Korpa	Iceland	9	55	July 29	July 31	245	290	191	207	2.02	3.73	102	121
Ludor	France	9	47	Aug. 6	Aug. 14	62	91	48	65	1.55	2.71	78	88
Melora	Netherlands	9	46	Aug. 8	Aug. 14	81	200	63	142	1.87	3.21	94	104
Mino	Denmark	9	47	Aug. 8	Aug. 14	153	169	120	120	1.93	2.45	97	79
Nosappu	Japan	9	50	Aug. 6	July 31	165	142	129	101	2.01	3.30	102	107
Otto	Finland	9	57	July 29	July 31	265	304	207	216	2.32	3.91	117	127
Polka	United Kingdom	9	51	Aug. 6	Aug. 6	172	135	134	96	1.92	2.97	97	96
Pota	Denmark	9	55	July 29	Aug. 6	133	159	104	113	2.20	3.65	111	118
Pronto	U.S.A.	9	49	Aug. 6	Aug. 14	155	157	121	111	1.85	3.14	95	102
Purlieu	United Kingdom	9	51	Aug. 12	Aug. 14	135	193	105	137	1.44	2.89	73	94
Rasant	Germany	9	58	July 29	Aug. 11	323	421	252	299	2.27	4.23	115	137
Richmond	Canada	9	51	July 29	July 31	139	200	109	142	1.85	2.75	93	89
RVP 251F	Belgium	9	49	Aug. 8	Aug. 14	70	154	55	109	1.75	3.00	88	97
Salvo	Canada	9	41	July 29	July 31	56	92	44	65	1.42	1.88	72	61
Sigma	Netherlands	8	39	Aug. 12	Aug. 11	189	339	148	240	1.70	3.24	86	105
Tiiti	Finland	9	60	July 29	Aug. 6	272	373	213	265	2.45	4.09	124	132
Tilda	Denmark	9	56	July 29	Aug. 6	196	180	153	128	2.00	3.47	101	112
Topas Otofte	Denmark	9	54	Aug. 6	July 31	174	156	136	111	2.06	3.18	104	103
Verdant	U.S.A.	9	52	Aug. 6	Aug. 14	139	181	109	128	1.97	3.68	99	119
Mean						149	205			1.82	3.14		
L.S.D. (P = .05)						61.96	72.24			0.41	0.64		