

SUMMARY OF DETAILS OF VARIETAL IDENTIFICATION FOR HERBAGE SEED CROP INSPECTORS

While positive identification of herbage species is possible (see key), individual varieties cannot usually be identified absolutely. However, TRUENESS TO TYPE can be authenticated according to general conformity in overall habit to known characteristics.

The inspector is asked to comment on trueness to type; the following tables give some varietal characteristics.

GRASSES

Time of ear emergence is often the most distinguishing varietal character within a species, and is shown in the tables as time in days after 1 March. This is a mean figure based on the 5% emergence stage data from verification plots at Cambridge.

(* = based on restricted information)

The ideal stage for crop inspection is between 5% and 25% when off-types can be correctly recorded.

However, ear emergence times should NOT be interpreted in terms of precise dates of inspection but only in relative times for one variety when compared to another.

Therefore it is good practice to check actual emergence times for early species, or early varieties within a species, at the start of each season. Consult NIAB for information on individual seasons.

Individual crops of a variety will also vary, comparatively, in emergence time according to site and management. Second harvest year crops generally reach 5% ear emergence 2 to 3 days later than first harvest year crops.

In crops of Italian or Hybrid ryegrass that have been defoliated, time of recovery to 5% ear emergence is about three weeks from cutting date.

Ploidy is a supportive identification character to ear emergence in ryegrasses, in which tetraploids usually can be seen to have larger, darker, shinier leaves than diploids.

In Timothy the diploid varieties are contrastingly short growing and fine-leaved compared with the hexaploid varieties.

In general, amenity ryegrasses are of fairly compact habit.



In the tables the following abbreviations are used:-

<u>Ploidy</u>	<u>Height</u>	<u>Leaf Length</u>	<u>Leaf Width</u>
DIP - Diploid	VT - Very Tall	VL - Very Long	W- Wide
TET - Tetraploid	T - Tall	L - Long	I - Intermediate
HEX - Hexaploid	I - Intermediate	I - Intermediate	N - Narrow
OCT - Octaploid	S - Short	S - Short	VN - Very Narrow
		VS - very Short	

NOTE: Crops should be inspected within 3 days following 5% Ear Emergence (EE)

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
BROWN TOP							
Aberregal		TET	71	S-I	I	I	
AberRoyal		DIP	87	I	I	I	
Bardot			96				
Boral (A)			95	I-T	I L - L	I-W	
Heriot			100				
Highland			85				
Lance		DIP	97				
COCKSFOOT							
Abertop			70				(BC7123)
Accord		TET	62	I-T	I	I	
Arly		DIP	73				
Baraula		TET	76	S	VS	I	
Barexcel		TET	64	I-T	I L - L	I-W	
Barmoral		TET	72	I-T	S-I	I-W	
Bartyle		TET	83	I-T	I-L	N-I	
Cabrett		TET	76				
Cambria		TET	71	S-I	S	I	
Cristobal		TET	74	I-T	L	I	
Intensiv			74				
Ludovic		TET	71	I-T	I-L	N	
Lully		TET	72				
Lupre		TET	72	T	L	N-I	
Mobite			82				
Prairial		TET	69	I	I	I	
Saborto		TET	70				
Sparta			68				
FESTULOLIUM							
Aberniche		TET	70	T	I	W	
Elmet		TET	74				
Emrys		TET	82	VT	L	W	
Prior		TET	78				
Lofa		TET	74	T	I	I	
MEADOW FESCUE							
Aberpaddock		DIP		S-I	I	I	
Lifelix		DIP	74	I	I	I	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
RED FESCUE							
Aberflight		HEX	59	S	I-L	N	Dark Green
Abercharm			71				
Barcrown		HEX	66	I	S	I	Mid green
Bargreen (A)		HEX	45	I - T	M - L	N - I	Mid green
Bargreen II(A)			*				
Barlineus		OCT	64	S-I	I	I	
Barmalia		HEX	43	I - T	S	I	Mid green
Baroyal		HEX	52	I	I	I	Mid-Dk Green
Barpearl		HEX	59	I	S-I	N	Dark Green
Barprince		HEX	57	S-I	S	N-I	
Barskol		HEX	62				Mid green
Barustic		OCT	52	I	I	I	Dark Green
Borluna			46				
Cezanne		HEX	58	S-I	I	N	Mid-Dk Green
Chopin		HEX	53	I	I	I-W	Mid green
Count		OCT	55				
Countess		HEX	39	I	S	N	Mid green
Darwin		HEX	50				
Duke		OCT	62				
Flyer		OCT	48	I	L	W	Dark green
Frida		HEX	58	S	VS	N	Mid green
Javelin		HEX	63				
Jupiter		HEX	58	I	S	N	Dark green
Kristina		HEX	49	I			Mid green
Leik		OCT	39	I - T	I	I-W	Pale -Mid green
Leo (A)		OCT	*				
Libano		HEX	42				
Liprosa		HEX	44	T	I	I	Mid green
Merlin		HEX	59	I	S	I	Mid green
Nigella		HEX		I	S	I	
Olivia		HEX	43				Dark green
Oriflamme		HEX	47	S	S	N	Dark green
Raisa		HEX	44				
Reggae		HEX	50	S-I	VS	I	Med to dark green
Rossa		DIP	66	I	I	I	
Rufilla		HEX	46	I	I	I	Mid green
Salsa		OCT	49	I	I	I	
Samanta		HEX	48	I	I	N	
Twysport			66				
Viktorka(A)		HEX	66	S-I	S-I	I	
Wilma		HEX	37	I	I	I	Dark Green
SHEEPS FESCUE							
Aberfleece (A)		TET	69	S	S		Mid green
Pintor			61	S	S	N	Mid green
TALL FESCUE							
Bariane		HEX	83	T - VT	I-L	I-W	
Dovey		HEX	45	T	I	W	
TIMOTHY							
Comtal		HEX	95	T	L	I	
Erecta		HEX	96	T	L	I	
Farol		HEX	103	T	L	N	
Kampe II		HEX	94	T	I	N	
Motim		HEX	101				
Promesse		HEX	95	T	I	N	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
PERENNIAL RYEGRASS							
Aberavon		DIP	85	T	L	I	
Aberbite		TET	90	I	L	W	
Aberchoice		DIP	94	VT	I	N	
Aberclyde		TET	79	T	L	I	
Abercraigs		TET	85	VT	L	I	
Aberdart		DIP	77	T	I	I	
Aberdash		TET	90				
Abereclair		TET	65	T	L	W	
Aberelan		DIP	78	T	L	I	
Aberelf (A)		DIP	99	S	VS	N	
Aberfarrell		DIP	81	VT	I	I	
Abergain		TET	87	VT	L	W	
Aberglyn		TET	74	VT	VL	W	
Abergold		DIP	77	T	I	I	Yellow-green
Abergreen		DIP	83	VT	I	N	
Aberimp(A)		DIP	98	S	VS	VN	
Abermagic		DIP	82	VT	I	N	
Abermara		DIP	77	T	I	I	
Abermont		DIP	77	T	L	I	
Abernile(A)		DIP	88	S	S	VN	Dark green
Aberplentiful		TET	92	T	L	W	
Abersilo		DIP	71	T	I	I	Paler green
Abersprite(A)		DIP	98	S	VS	VN	
Aberstar		DIP	79	VT	I	N	
Abersweet		DIP	83	VT	I	N	
Abertorch		TET	64	T	L	W	
Aberwolf		DIP	83				
Aberzeus		DIP	83	VT	I	I	
Aberzest		DIP	84	T	I	I	
Advent (A)		DIP	72	S	S	N	
Agreement(A)		DIP	74	S	VS	VN	
Agri		DIP	79	T	I	I	
Alfonso		TET	86				
Allegro(A)		DIP	88	I	I	N	
Amadeus		DIP	81		VS	VN	
Amigo		DIP	73	I	I	I	
Anaconda		TET	61	T	L	W	
Apollo (A)		DIP	74		S	N	
Astonamber		TET	95	VT	L	I	
Astonenergy		TET	86	VT	VL	W	
Aubisque		TET	75	T	L	I	
Aviara		TET	83	VT	VL	W	
BA14088		DIP	87	T	I	N	
Barclay (A)		DIP	89	S	S	N	
Barclay II		DIP	72	I	VS	VN	
Barcristalla (A)		DIP	75				
Bardessa (A)		DIP	88	S	S	N	
Bardorado (A)		DIP	70		VS	N	
Bareine(A)		DIP	89	S	S	VN	
Bareuro(A)		DIP	90	S/I	S	N	
Bargold(A)		DIP	85	I	S	VN	
Barillion (A)		DIP	69	I	VS	VN	
Barlady(A)		DIP	88		S	VN	
Barlennium (A)		DIP	77	I	VS	VN	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
Barlinda (A)		DIP	90	S	S	N	
Barlouise(A)		DIP	90	S	S	VN	
Barminton		DIP	88		I	I	
Barmona(A)		DIP	75	I	S	N	
Barnhem		DIP	91		L	I	
Barolympic (A)		DIP	92	I	I	N	
Barorlando (A)		DIP	64	T	VS	VN	
Barplus		DIP	85		I	I	
Barrage (A)		DIP	78	S	VS	N	
Barsandra		DIP	79	I	S	VN	
Bartwingo(A)		DIP	84	I	S	N	
Belida		DIP	61		I	I	
Bijou		TET	85	VT	VL	VW	
Bizet (A)		DIP	89	S-I	I	N	
Blog		DIP	85	T	I	N	
Boyne		DIP	73				
Braid		TET	82	T	VL	W	
Bree		DIP	78	T	L	I	
Butara 1		DIP	83	VT	L	M	
Cabrio (A)		DIP	91	I	VS	VN	
Cadix(A)		DIP	78	I	S	N	
Calibra		TET	79	T	L	W	
Calico (A)		DIP	85	I	VS	VN	
Calvano 1		DIP	82	VT	L	I	
Campania		DIP	93		L	I	
Cancan		DIP	96	T	L	N	
Carnac(A)		DIP	80				
Carraig		TET	68	T	L	VW	
Cashel		DIP	72	I	L	I	
Catabi 1		TET	84	VT	VL	VW	
Chagall (A)		DIP	86	S	I	N	
Cherokee (A)		DIP	69	S	S	N	
Choice		DIP	91	I	L	I	
Clanrye		DIP	90	T	I	N	
Claudius (A)		DIP	93	I	S	N	
Concerto(A)		DIP	76	S	S	N	
Condesa		TET	92	T	L	I	
Conrad 1		DIP	87	S-I	S-I	N-I	
Contrast		DIP	82				
Cooper		TET	90	T	L	I	
Copeland		DIP	81	VT	I	I	
Corbet		DIP	84	T	I	I	
Dali(A)		DIP	80	S	S	VN	
Dancer(A)		DIP	81	S	S	VN	
Darius(A)		DIP	93	I	S	N	
Delphin		TET	86	VT	VL	W	
Denver		DIP	85	T	I	I	
Diams		TET	90	T	L	W	
Donard		DIP	64	T	I	I	
Dromore		DIP	97	T	L	I	
Drumbo		DIP	89	VT	L	I	
Dundrum		TET	86	T	VL	VW	
Dunloy		TET	92	VT	VL	I	
Dunluce		TET	83		L	I	
Elgon		TET	88	T	L	I	
Elital		TET	83	VT	L	W	
Envy (A)		DIP	76	I	S	N	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
ER2703 (A)		DIP	83				
Escapade (A)		DIP	90	I	VS	VN	
Evita(A)		DIP	86	I	S	N	
Fancy (A)		DIP	72	I	S	N	
Fandango		DIP	72	I	S	NI	
Fennema		DIP	78	T	I	I	
Fetione		TET	81	T	L	W	
Fintona		TET	78	T	L	W	
Fornax		TET	79	T	L	W	
Foxtrot		DIP	88	T	I	I	
Galleon (A)		DIP					
Gator (A)		DIP	76	S	S	N	
Gemma		TET	88		VL	W	
Gilford		DIP	85	I	L	I	
Glen		DIP	82	I	L	I	
Glenariff		DIP	80				
Glenroyal		DIP	89	T	I	N	
Glenstal		TET	75		L	W	
Glenveagh		DIP	86	T	I	I	
Godali 1		TET	78	VT	VL	VW	
Greengold		TET	83	T	L	I	
Herbal		TET	92	T	L	W	
Hercules		DIP	93	T	L	I	
Hermes (A)		DIP	78	S	I	I	
Ideal		TET	95		L	I	
Imagine		DIP	74	S	VS	N	
Inoval		DIP	89	T	I	N	
Jade(A)		DIP	88	I	S	N	
Jumbo		DIP	94	T	L	I	
Kent Indigenous		DIP	83	I	I	N	
Kells		DIP	75	T	L	I	
Kilrea		DIP	69	I	I	I	
Kintyre		TET	92	VT	VL	VW	
Kubus		TET	77				
Labrador		TET	67	I	L	I	
Lacerta		TET	68		L	W	
Langa (A)		DIP	78	S	S	N	
Lasso		DIP	88	T	L	I	
Link		DIP	88	I	I	I	
Liprior		DIP	64	I	I	I	
Lisabelle (A)		DIP	86	S	S	N	
Loretanova (A)		DIP	92	S	S	VN	
Lorina (A)		DIP	92	S	S	N	
Magician		TET	74	T	L	I	
Malone		TET	72	VT	L	W	
Master (A)		DIP	79	S	S	N	
Matiz		DIP	96	VT	I	N	
Maurice		TET	99	T	L	I	
Meloni		DIP		T	I	N	
Melpro		DIP	93	VT	L	I	
Merbo		DIP	72	I	I	I	
Merganda		DIP	79	T	I	I	
Merkem		TET	90	VT	VL	VW	
Merlinda		TET	72	T	L	W	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
Meteor (A)		DIP	88	S	S	N	
Millennium		TET	96	T	VL	W	
Module		DIP	87	T	I	I	Dk - V.Dk Grn
Moira		DIP	78	VT	I	I	
Mondial (A)		DIP	89		S	N	
Mongita		DIP	78	I	I	I	
Monroe		DIP	84	M	VS	VN	
Montando		TET	86	T	VL	W	
Moy		DIP	61	I	I	I	
Moyola		DIP	64	VT	I	W	
Napoleon		TET	74	T	L	W	
Navan		TET	89	T	L	I	
Nelson		DIP	83	VT	I	I	
Nifty		DIP	78	VT	L	I	
Numan (A)		DIP	72	S	S	N	
Orantas		DIP	81	VT	I	I	
Orion		TET	85	VT	L	W	
Pagode		DIP	86	T	L	I	
Paradise		DIP	92	S	S	N	
Parcour		DIP	89	T	L	I	
Pastour		DIP	87	T	L	I	
Piamonte		TET	88	T	L	I	
Polim		TET	89	T	L	I	
Portrush		DIP	92	T	VL	I	
Portstewart		DIP	88	T	I	I	
Premium		DIP	79	T	L	I	
Prisma		TET	65	I	L	W	
Profit		DIP	87	I	I	N	
Ritmo (A)		DIP	75	S	S	N	
Rival (A)		DIP	79	S	S	N	
Romance(A)		DIP	77	S	S	N	LPEP 95
Romark		DIP	89	I	L	I	R990922MD
Ronja(A)		DIP	86	S	S	N	
Rosalin		TET	72	T	VL	W	
Roy		TET	79	T	L	I	
Sambin		DIP	68	T	I	I	
Sarsfield		DIP	96	T	L	I	
Sauvignon (A)		DIP	87	S	VS	VN	
Score(A)		DIP	89	I	S	N	
Seagoe		TET	77	VT	VL	VW	
Sensation(A)		DIP	86	S	I	N	
Session		TET	66	I	L	I	
Sherwood		DIP	71	T	I	I	
Sirtaky (A)		DIP	75	I	VS	VN	
Solomon		DIP	71	VT	I	I	
Sovereign		DIP	68	T	L	I	
Spelga		DIP	72	T	I	I	
Sperrin		DIP	83	T	I	I	
Spira		DIP	68	I	I	I	
Sponsor		DIP	93	T	L	I	
Stratos		DIP	88	I	L	I	
Talgo (A)		DIP	88	S	S	N	
Titus(A)		DIP	89	I	S	VN	
Tivoli		TET	93	VT	VL	W	
Trend		TET	78				
Tribal		TET	76	T	VL	VW	
Troubadour (A)		DIP	85	I	S	N	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
Twins		TET	79	T	VL	W	
Twymax		TET	92	VT	L	W	
Twypay (A)		DIP	94		VS	VN	
Twystar		DIP	96	T	L	N	
Twytopy		DIP	98		I	N	
Tyrella		DIP	86	VT	VL	I	
Tyrone		DIP	88	I	I	N	
Umbria		DIP	86	T	L	I	
Vela		DIP	66	I	I	I	
Verdi (A)		DIP	71	S	S	N	
Yorktown III (A)		DIP	74	I	I	I	
ITALIAN RYEGRASS HYBRID RYEGRASS							
Abercomo	Italian	DIP	79	I	S	N	Bb2408
Aberecho	Hybrid	TET	72	I	L	I	BaB567
Aberedge	Hybrid	TET	75	VS	I	I	
Aberelite	Hybrid	TET	75				BaB398
Aberepic	Italian	DIP	76	I	S	N	Bb2422
Abereve	Hybrid	TET	78	I	I	N	BaB598
Aberexcel	Hybrid	TET	75	I	L	N	
Aberlinnet	Hybrid	TET	75	I	I	I	
Abermario	Italian	DIP	82	VT	S	N	
Aberoscar	Hybrid	TET	67	I	I	I	
Aberstorm	Hybrid	TET	66	S	S	N	
Aberveil	Hybrid	TET	84	T	S	N	
Abervision	Hybrid	TET	69	S	L	W	
Abervista	Hybrid	TET	73	I	L	I	
Abys	Italian	DIP	78	I-T	I	N-I	
Alamo	Italian	DIP	72	I	S	N	
Atalja	Italian	DIP	78	I	S	N	
Bahial	Hybrid	TET	78				
Barlizzy	Italian	DIP	80	T	S	N	
Barmultra	Italian	TET	79	VT	L	I	
Barsilo	Hybrid	DIP	80	I	S	N	
Bartissimo	Italian	DIP	78	I	I	N	
Barzini	Italian	TET	77	VT	I	I	
Celebrity	Italian	TET	74	T	L	I	
Citeliac	Hybrid	TET	76	S	I	N	
Danergo	Italian	TET	77	T	L	I	
Domino	Italian	TET	69				
Dorike	Italian	TET	72	T	L	I	
Drumlin	Hybrid	DIP	77				
Emily	Italian	TET	79	VT	VL	W	
Enduro	Hybrid	TET	74				
Exalta	Italian	DIP	75	I	L	I	
Fabio	Italian	TET	71	T	VL	W	
Fox	Italian	DIP	76	VT	S	N	
Foyle	Hybrid	TET	77				
Fredrik	Italian	TET	68				
Gazella	Hybrid	TET	67	I	L	I	
Gemini	Italian	TET	71	T	L	I	
Gladiator	Hybrid	TET	79	I	I	I	
Hymer	Hybrid	TET	77	I	L	I	
Kirial	Hybrid	TET	79	S	L	I	
Ligrande	Italian	DIP	76	I	S	N	
Limeta	Italian	DIP	80				
Lipo	Italian	TET	70				
Macho	Italian	TET	71	T	VL	W	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
Meribel	Italian	DIP	76	I	S	N	
Meritra	Italian	TET	67				
Molisto	Hybrid	TET	76	I	L	I	
Novial	Hybrid	TET	75	S	I	I	
Podium	Italian	DIP	76	VT	S	I	
Rio	Italian	TET	79	VT	L	W	
Roberta	Italian	TET	76	T	L	I	
Solid	Hybrid	TET	72	S	I	I	
Steel	Italian	DIP	77*	T	S	I	
Storm	Hybrid	TET	81	S	I	I	
Sultan	Italian	TET	73	VT	L	W	
Tetraflorum	Italian	TET	70				
Tetragraze	Hybrid	TET	75	S	S	N	
Total	Italian	DIP	76	I	I	N	
Trajan	Italian	DIP	78	I	I	N	
Tribune	Italian	DIP	81	T	S	N	
Twyblade	Hybrid	TET	74	I	L	I	
WESTERWOLDS RYEGRASS							
Barspectra II		TET	78				
Lifloria		DIP	66				

AWNING IN HYBRID RYEGRASS

A reduction in the proportion of spikelets carrying awns can be expected with later spring defoliation. Tests on hybrids have shown a reduction from approximately 80% awning with no defoliation or defoliation up to mid-April, to 60% awning with early May defoliation to 30-40% awning by cutting at the end of May. There are indications that dry conditions appear to exaggerate this effect. Italian ryegrass is normally only slightly affected in this way.

DAYS AFTER FIRST OF MARCH

Date	March	April	May	June	July
1	1	32	62	93	123
2	2	33	63	94	124
3	3	34	64	95	125
4	4	35	65	96	126
5	5	36	66	97	127
6	6	37	67	98	128
7	7	38	68	99	129
8	8	39	69	100	130
9	9	40	70	101	131
10	10	41	71	102	132
11	11	42	72	103	133
12	12	43	73	104	134
13	13	44	74	105	135
14	14	45	75	106	136
15	15	46	76	107	137
16	16	47	77	108	138
17	17	48	78	109	139
18	18	49	79	110	140
19	19	50	80	111	141
20	20	51	81	112	142
21	21	52	82	113	143
22	22	53	83	114	144
23	23	54	84	115	145
24	24	55	85	116	146
25	25	56	86	117	147
26	26	57	87	118	148
27	27	58	88	119	149
28	28	59	89	120	150
29	29	60	90	121	151
30	30	61	91	122	152
31	31		92		153