



## 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 recorded correctly.

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	
<b>BROWN TOP</b>						
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				
<b>COCKSFOOT</b>						
Abertop	TET	70	VS-S	S	M	
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	75				
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				
<b>FESTULOLIUM</b>						
Aberniche	TET	73	T	I	W	
Elmet	TET	74				
Emrys	TET	82	VT	L	W	
Lofa	TET	74	T	I	I	
Prior	TET	78				
<b>MEADOW FESCUE</b>						
Aberpaddock	DIP	61	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	
<b>RED FESCUE</b>							
Abercharm		HEX	70	VS-S	S	VN	
Aberflight		HEX	59	S	I-L	N	Dark Green
Barcrown		HEX	66	I	S	I	Mid green
Bargreen (A)		HEX	45	I - T	M - L	N - I	Mid green
Bargreen II (A)			43				
Barlineus		OCT	60	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	55	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
Libano		HEX	42				
Liprosa		HEX	44	T	I	I	Mid green
Merlin		HEX	59	I	S	I	Mid green
Musica		HEX		I	S-I	I	M-L ear emergence
Nigella			51				
Olivia		HEX	43				Dark green
Oriflamme		HEX	47	S	S	N	Dark green
Raisa		HEX	44				
Reggae		HEX	48	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
<b>SHEEPS FESCUE</b>							
Aberfleece (A)		TET	69	S	S		Mid green
Pintor			61	S	S	N	Mid green
<b>TALL FESCUE</b>							
Bardoux		HEX		I - T	I - T	I	M-L ear emergence
Bariane		HEX	83	T - VT	I-L	I-W	
Barolex		HEX	80	T	L	M	
Dovey (OECD)		HEX	45	T	I	W	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
<b>TIMOTHY</b>							
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	
<b>PERENNIAL RYEGRASS</b>							
Aberable		DIP	88	S	VS	VN	
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	
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	
Abergreen		DIP	83	VT	I	N	
Aberimp(A)		DIP	98	S	VS	VN	
Aberlee		DIP	87	T	M	N	
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	
Aberplentiful		TET	92	T	L	W	
Abersilo		DIP	71	T	I	I	
Aberspey *		TET	85	VT	I	I	
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	M	M	
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	VT	VL	VW	
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	M	
Astonenergy		TET	86	VT	VL	W	
Aubisque		TET	75	T	L	I	
Aviara		TET	83	VT	VL	W	
Ballintoy *		TET	88	VT	L	W	
Baradona (A)		DIP		M	S	VN - N	med/late ear emergence
Barclay (A)		DIP	89	S	S	N	
Barclay II		DIP	72	I	VS	VN	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
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	
Barlicum (A) *		DIP	86		S	VN - N	
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	M	M	N	
Barorlando (A)		DIP	75	T	VS	VN	
Barplus		DIP	85		I	I	
Barrage (A)		DIP	78	S	VS	N	
Barsandra		DIP	79	I	S	VN	
Barsignum (A)		DIP	87	S-M	S	N	
Bartwingo (A)		DIP	84	I	S	N	
Belida		DIP	61		I	I	
Bellevue (A)		DIP	87				
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	M	VS	VN	
Cadix (A)		DIP	78	I	S	N	
Caledon *		TET	82	VT	VL	VW	
Calibra		TET	79	T	L	W	
Calico (A)		DIP	87	M	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	
Cavendish		DIP	87	T	L	M	
Chagall (A)		DIP	86	S	I	N	
Chardin (A)		DIP	82	M	VS	VN	
Cherokee (A)		DIP	69	S	S	N	
Choice		DIP	91	I	L	I	
Clanrye		DIP	90	T	M	N	
Claudius (A)		DIP	93	I	S	N	
Clementine (A)		DIP	89	M	VS	VN	L - M green
Columbine *		DIP	82	S	S	N-I	
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	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
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	
Dickens 1		DIP	84	S-M	S-M	N-M	
Donard		DIP	64	T	I	I	
Dromore		DIP	97	T	L	I	
Drumbo		DIP	89	VT	L	M	
Dundrum		TET	86	T	VL	VW	
Dunloy		TET	92	VT	VL	I	
Dunluce		TET	83		L	I	
Dylan		DIP	82	M	VS	VN	
Elgon		TET	88	T	L	I	
Elital		TET	83	VT	L	W	
Envy (A)		DIP	76	I	S	N	
Escapade (A)		DIP	90	M	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	
Flamenco (A)		DIP	80	S	VS	VN	
Fornax		TET	79	T	L	W	
Foxtrot		DIP	88	T	I	I	
Galleon			73				
Gator (A)		DIP	76	S	S	N	
Gemma		TET	88		VL	W	
Genesis		DIP	69	VT	M	W	
Gilford		DIP	85	I	L	I	
Glen		DIP	82	I	L	I	
Glenariff		DIP	80	T	M	M	
Glenarm *		DIP	88	T	L	I	
Glenroyal		DIP	89	T	M	N	
Glenstal		TET	75		L	W	
Glenveagh		DIP	86	T	M	M	
Godali 1		TET	78	VT	VL	VW	
Gosford *		DIP	83	T	L	W	
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	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
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	
Majestic		DIP	81	VT	M	M	
Malone		TET	72	VT	L	W	
Master (A)		DIP	79	S	S	N	
Matiz		DIP	96	VT	M	N	
Maurice		TET	99	T	L	I	
Meloni		DIP	77	T	M	N	
Melpro		DIP	93	VT	L	M	
Merbo		DIP	72	I	I	I	
Merganda		DIP	79	T	I	I	
Merkem		TET	90	VT	VL	VW	
Merlinda		TET	72	T	L	W	
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	M	M	
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	M	
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	
Ragtime (A)		DIP	79	M	S	VN	
Ritmo (A)		DIP	75	S	S	N	
Rival (A)		DIP	79	S	S	N	
Romance(A)		DIP	77	S	S	N	
Romark		DIP	89	I	L	I	
Ronja(A)		DIP	86	S	S	N	
Rosalin		TET	72	T	VL	W	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
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	
Triwarwic *		TET	88	VT	VL	VW	
Troubadour (A)		DIP	85	I	S	N	
Twins		TET	79	T	VL	W	
Twymax		TET	92	VT	L	W	
Twyplay (A)		DIP	94		VS	VN	
Twystar		DIP	96	T	L	N	
Twyttop		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	
Vertech *		DIP	76	S	VS	VN	
Yorktown III (A)		DIP	74	I	I	I	
Youpi		TET	87	M	VL	W	
<b>ITALIAN RYEGRASS HYBRID RYEGRASS</b>							
Abercomo	Italian	DIP	79	I	S	N	
Aberecho	HybridR	TET	72	I	L	I	
Aberedge	HybridR	TET	75	VS	I	I	
Aberelite	HybridR	TET	75				
Aberepic	Italian	DIP	76	I	S	N	
Abereve	HybridR	TET	78	I	I	N	
Aberexcel	HybridR	TET	75	I	L	N	
Aberlinnet	HybridR	TET	75	I	I	I	
Abermario	Italian	DIP	82	VT	S	N	
Aberoscar	HybridR	TET	67	I	I	I	
Aberstorm	HybridR	TET	66	S	S	N	
Aberveil	HybridR	TET	84	T	S	N	
Abervision	HybridR	TET	69	S	L	W	
Abervista	HybridR	TET	73	I	L	I	
Abys	Italian	DIP	78	M-T	I	N-I	
Alamo	Italian	DIP	73	I	S	N	
Atalja	Italian	DIP	78	I	S	N	
Bahial	HybridR	TET	78				
Barlizzy	Italian	DIP	80	T	S	N	



VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
Barmultra	Italian	TET	79	VT	L	I	
Barmultra II *	Italian	TET	77	VT	M	VW	
Barsilo	HybridR	DIP	80	I	S	N	
Bartissimo	Italian	DIP	78	I	I	N	
Barvitra	HybridR	TET	72	T	M	W	
Barzini	Italian	TET	77	VT	I	I	
Cazzano *	Italian	TET	80	T	N	I	
Celebrity	Italian	TET	74	T	L	I	
Citeliac	HybridR	TET	76	S	I	N	
Danergo	Italian	TET	77	T	L	I	
Domino	Italian	TET	72				
Dorike	Italian	TET	72	T	L	I	
Drumlin	HybridR	DIP	77				
Emily	Italian	TET	79	VT	VL	W	
Enduro	HybridR	TET	74				
Exalta	Italian	DIP	75	I	L	I	
Fabio	Italian	TET	71	T	VL	W	
Fox	Italian	DIP	76	VT	S	N	
Foyle	HybridR	TET	77				
Fredrik	Italian	TET	71				
Gazella	HybridR	TET	67	I	L	I	
Gemini	Italian	TET	71	T	L	I	
Gladiator	HybridR	TET	79	I	I	I	
Hymer	HybridR	TET	77	I	L	I	
Kirial	HybridR	TET	79	S	L	M	
Ligrande	Italian	DIP	76	I	S	N	
Limeta	Italian	DIP	80				
Lipo	Italian	TET	70				
Macho	Italian	TET	71	T	VL	W	
Meribel	Italian	DIP	76	I	S	N	
Meritra	Italian	TET	67				
Messina *	Italian	TET	80	VT	M	W	
Molisto	HybridR	TET	76	I	L	I	
Novial	HybridR	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	
Sabella *	HybridR	DIP	65	S	S	VN	
Solid	HybridR	TET	72	S	I	I	
Splenda	Hybrid	TET		S	L	M	Early ear emergence
Steel	Italian	DIP	77	T	S	I	
Storm	HybridR	TET	81	S	I	I	
Sultan	Italian	TET	73	VT	L	W	
Syntilla *	Italian	DIP	75	T	M	M	
Tetraflorum	Italian	TET	72				
Tetragraze	HybridR	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	HybridR	TET	74	I	L	I	
<b>WESTERWOLDS RYEGRASS</b>							
Barspectra II		TET	78				Westerwolds
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