

## 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	
<b>BROWN TOP</b>							
Aberregal		TET	80	S-I	I	I	
AberRoyal		DIP	87	I	I	I	
Bardot(A)			96				
Boral (A)			95	I-T	I L - L	I-W	
Heriot			100				
Highland			85				
Lance		DIP	97				
<b>COCKSFOOT</b>							
Abertop			70				(BC7123)
Accord		TET	62	I-T	I	I	
Arly		DIP	75				
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	
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				
<b>FESTULOLIUM</b>							
Aberniche		TET	68	T	I	W	
Elmet		TET	74				
Emrys		TET	82	VT	L	W	
Lofa		TET		T	I	I	
Prior		TET	78				
<b>MEADOW FESCUE</b>							
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>							
Aberflight		HEX	59	S	I-L	N	Dark Green
Abercharm			73				
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	66	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	59	S-I	S	N-I	
Barskol		HEX	62				Mid green
Barustic		OCT	52	I	I	I	Dark Green
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
Olivia		HEX	43				Dark green
Oriflamme		HEX	47	S	S	N	Dark green
Raisa		HEX	44				
Reggae		HEX	53	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>							
Bariane		HEX		T - VT	I-L	I-W	
Dovey		HEX	45	T	I	W	
<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	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
<b>PERENNIAL RYEGRASS</b>							
Aberavon		DIP	85	T	L	I	
Aberbite		TET	90	I	L	W	
Aberchoice		DIP	94	VT	I	N	
Aberclyde		TET	77	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				
Aberzest		DIP	84	T	I	I	
Advent (A)		DIP	72	S	S	N	
Agreement(A)							
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	96				
Astonenergy		TET	86	VT	VL	W	
Aubisque		TET	75	T	L	I	
Aviara		TET	83	VT	VL	W	
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	
Barlinda (A)		DIP	90	S	S	N	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
<b>PERENNIAL RYEGRASS</b>							
Barlouise(A)		DIP	90	S	S	VN	
Barminton		DIP	88		I	I	
Barmona(A)		DIP	75	I	S	N	
Barnhem		DIP	91		L	I	
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	
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	
Cadix(A)		DIP	78	I	S	N	
Calibra		TET	79	T	L	W	
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	M	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	M	
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	
ER2703 (A)		DIP	83				

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
<b>PERENNIAL RYEGRASS</b>							
Escapade (A)		DIP	90				
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	
Fornax		TET	79	T	L	W	
Foxtrot		DIP	88	T	I	I	
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	M	N	
Glenstal		TET	75		L	W	
Glenveagh		DIP	86	T	M	M	
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	M	N	
Maurice		TET	99	T	L	I	
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	
Meloni		DIP					

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
<b>PERENNIAL RYEGRASS</b>							
Meteor (A)		DIP	88	S	S	N	
Millennium		TET	96	T	VL	W	
Module		DIP	87	T	I	I	Dk - V.Dk Grn
Mondial (A)		DIP	89		S	N	
Mongita		DIP	78	I	I	I	
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	
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	

VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
<b>PERENNIAL RYEGRASS</b>							
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	
Twytop		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	
<b>ITALIAN RYEGRASS</b>							
Abercomo		DIP	79	I	S	N	Bb2408
Aberepic		DIP	76	I	S	N	Bb2422
Abermario		DIP	82	VT	S	N	
Abys		DIP	78	M-T	I	N-I	
Alamo		DIP	72	I	S	N	
Atalja		DIP	78	I	S	N	
Barlizzy		DIP	80	T	S	N	
Barmultra		TET	79	VT	L	I	
Bartissimo		DIP	78	I	I	N	
Barzini		TET	77	VT	I	I	
Celebrity		TET	74	T	L	I	
Danergo		TET	77	T	L	I	
Domino		TET	69				
Dorike		TET	72	T	L	I	
Emily		TET	79	VT	VL	W	
Exalta		DIP	75	I	L	I	
Fabio		TET	71	T	VL	W	
Fox		DIP	76	VT	S	N	
Fredrik		TET	68				
Gemini		TET	71	T	L	I	
Ligrande		DIP	76	I	S	N	
Limeta		DIP	80				
Lipo		TET	70				
Macho		TET	71	T	VL	W	
Meribel		DIP	76	I	S	N	
Meritra		TET	67				
Podium		DIP	76	VT	S	I	
Rio		TET	79	VT	L	W	
Roberta		TET	76	T	L	I	
Steel		DIP	77*	T	S	I	
Sultan		TET	73	VT	L	W	
Tetraflorum		TET	70				
Total		DIP	76	I	I	N	
Trajan		DIP	78	I	I	N	
Tribune		DIP	81	T	S	N	



VARIETY		PLOIDY	5% EE DAYS AFTER 1ST MARCH	AT EAR EMERGENCE			REMARKS
				Height	Leaf Length	Leaf Width	
<b>HYBRID RYEGRASS</b>							
Aberecho		TET	72	I	L	I	BaB567
Aberelite		TET	75				BaB398
Abereve		TET	78	I	I	N	BaB598
Aberexcel		TET	75	I	L	N	
Aberlinnet		TET	75	I	I	I	
Aberoscar		TET	67	I	I	I	
Aberstorm		TET	66	S	S	N	
Aberveil		TET	84	T	S	N	
Abervision		TET	69	S	L	W	
Abervista		TET	73	I	L	I	
Bahial		TET	78				
Barsilo		DIP	80	I	S	N	
Citeliac		TET	76	S	I	N	
Drumlin		DIP	77				
Enduro		TET	74				
Foyle		TET	77				
Gazella		TET	67	I	L	I	
Gladiator		TET	79	I	I	I	
Hymmer		TET	77	I	L	I	
Molisto		TET	76	I	L	I	
Novial		TET	75	S	I	I	
Solid		TET	72	S	I	I	
Storm		TET	81	S	I	I	
Tetragraze		TET	75	S	S	N	
Twyblade		TET	74	I	L	I	
<b>WESTERWOLDS RYEGRASS</b>							
Barspectra II		TET					
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**

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