

TG/67/5(proj.3)Prov. ORIGINAL: English DATE: 2005-11-30

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

DRAFT

RED FESCUE, SHEEP'S FESCUE, HAIR FESCUE, RELIANT HARD FESCUE, SHADE FESCUE, PSEUDOVINA

UPOV codes:

FESTU_RUB; FESTU_OVI; FESTU_FIL; FESTU_BRE; FESTU_HET; FESTU_PSO

(Festuca rubra L., Festuca ovina L., Festuca filiformis Pourr., Festuca brevipila R. Tracey, Festuca heterophylla Lam., Festuca pseudovina Hack. ex Wiesb.)

GUIDELINES FOR THE CONDUCT OF TESTS FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from the Netherlands

to be considered by the Technical Committee at its forty-second session to be held in Geneva, Switzerland, from April 3 to 5, 2006

Alternative Names:

Botanical name	English	French	German	Spanish
Festuca rubra L.	Red Fescue Creeping Fescue	Fétuque rouge	Rotschwingel	Cañuela roja, Festuca roja
Festuca ovina L.	Sheep's Fescue, Hard Fescue	Fétuque ovine, Fétuque des moutons, Fétuque durette, Poil de chien	Schafschwingel	Cañuela de oveja, Cañuela ovina, Festuca ovina
Festuca filiformis Pourr. Festuca ovina subsp. tenuifolia (Sibth.) Celak., Festuca tenuifolia Sibth.	Fine-leaf sheep fescue, Hair fescue, Slender fescue		Feinblättriger Schwingel, Haar- Schaf-Schwingel	
Festuca brevipila R. Tracey, Festuca ovina L. ssp. duriuscula, Festuca trachyphylla Hack krajina	Reliant hard fescue		Härtlicher Schwingel	
Festuca heterophylla Lam.	Shade Fescue	Fétuque hétérophylle	Borstenschwingel, Verschiedenblättriger Schwingel	
<i>Festuca pseudovina</i> Hack. ex Wiesb.	Pseudovina			

^{*} These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

Other associated UPOV documents: TG/39 Meadow Fescue, Tall Fescue

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1. <u>Subject of these Test Guidelines</u>

These Test Guidelines apply to all varieties of *Festuca rubra* L., *Festuca ovina* L., *Festuca filiformis* Pourr., *Festuca brevipila* R. Tracey, *Festuca heterophylla* Lam. and *Festuca pseudovina* Hack. ex Wiesb.

2. <u>Material Required</u>

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

2.2 The material is to be supplied in the form of seed.

2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

1200 grams

The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority.

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.

2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. <u>Method of Examination</u>

3.1 Number of Growing Cycles

The minimum duration of tests should normally be two independent growing cycles.

3.2 Testing Place

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

3.3 Conditions for Conducting the Examination

The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.

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3.3.1 Stage of development for the assessment

The optimum stage of development for the assessment of each characteristic is indicated by a number in the second column of the Table of Characteristics. The stages of development denoted by each number are described at the end of Chapter 8.

3.3.2 Type of observation – visual or measurement

The recommended method of observing the characteristic is indicated by the following key in the second column of the Table of Characteristics:

- MG: single measurement of a group of plants or parts of plants
- MS: measurement of a number of individual plants or parts of plants
- VG: visual assessment by a single observation of a group of plants or parts of plants
- VS: visual assessment by observation of individual plants or parts of plants

3.3.3 Type of plot for observation

The recommended type of plot in which to observe the characteristic is indicated by the following key in the second column of the Table of Characteristics:

- A: spaced plants
- B: row plot
- C: special test

3.4 Test Design

3.4.1 Each test should be designed to result in a total of at least 60 spaced plants which should be divided between at least 2 replicates. In addition, the test may include 8 meters of row plot which should be divided between at least 2 replicates. The density of the seed should be such that around 200 plants / meter can be expected

3.4.2 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

3.5 Number of Plants / Parts of Plants to be Examined

Unless otherwise indicated, all observations or measurements on single plants should be made on 60 plants or parts taken from each of 60 plants and any other observations or measurements should be made on all plants in the test. In the case of observations of parts taken from single plants, the number of parts to be taken from each of the plants should be 1.

3.6 Additional Tests

Additional tests, for examining relevant characteristics, may be established.

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4. <u>Assessment of Distinctness, Uniformity and Stability</u>

4.1 Distinctness

4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.2 Uniformity

4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:

4.2.2 The assessment of uniformity should be according to the recommendations for cross-pollinated varieties in the General Introduction.

4.3 Stability

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be tested, either by growing a further generation, or by testing a new seed stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

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5. <u>Grouping of Varieties and Organization of the Growing Trial</u>

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics::

- (a) Plant: ploidy (characteristic 1)
- (b) Plant: development of rhizomes (characteristic 9)
- (c) Plant: time of inflorescence emergence (characteristic 10)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

6. <u>Introduction to the Table of Characteristics</u>

6.1 *Categories of Characteristics*

6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

6.2 States of Expression and Corresponding Notes

States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

6.3 Types of Expression

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

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6.4 Example Varieties

6.4.1 Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

6.4.2 The species of the example varieties are indicated as follows:

(Fo):	Festuca ovina
(Fr):	Festuca rubra

- 6.5 Legend
- (*) Asterisked characteristic see Chapter 6.1.2
- QL: Qualitative characteristic see Chapter 6.3
- QN: Quantitative characteristic see Chapter 6.3
- PQ: Pseudo-qualitative characteristic see Chapter 6.3
- MG: single measurement of a group of plants or parts of plants see Chapter 3.3.2
- MS: measurement of a number of individual plants or parts of plants see Chapter 3.3.2
- VG: visual assessment by a single observation of a group of plants or parts of plants Chapter 3.3.2
- VS: visual assessment by observation of individual plants or parts of plants" see Chapter 3.3.2
- A: spaced plants see Chapter 3.3.3
- B: row plot see Chapter 3.3.3
- C: special test see Chapter 3.3.3

(a), (b) See Explanations on the Table of Characteristics in Chapter 8.1

- (+) See Explanations on the Table of Characteristics in Chapter 8.2
- (10) (68+) See Explanations on the Table of Characteristics in Chapter 8.3

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7. <u>Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres</u>

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. (*) (+)	10-29 C	Plant: ploidy					
QL		diploid				Barok (Fo)	2
		tetraploid					4
		hexaploid				Biljart (Fo), Darwin (Fr)	6
		octoploid				Cindy (Fr)	8
2.		Leaf sheath: anthocyanin coloration					
QN		absent or very weak				Olivia (Fr)	1
		weak				Barreppo (Fo), Cindy (Fr), Mocassin (Fr)	3
		medium				Frida (Fr)	5
		strong				N.F.G. Theodor Roemer (Fr), Symphony (Fr)	7
		very strong				Gardez (Fr)	9
3.		Plant: natural height					
QN		very short				Blues (Fo), Clio (Fo)	1
	(a)	short				Cindy (Fr), Mentor (Fo)	3
		medium				Barcrown (Fr)	5
		tall				Lirosy (Fr)	7
		very tall				Bargeret (Fr)	9

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
4.	29	Plant: growth habi	t				
	VS A						
QN	VG B	erect					1
	(a)	semi erect				Jupiter (Fr)	3
	(b)	medium				Barcrown (Fr), Trophy (Fr)	5
		semi prostrate				Cindy (Fr), Pintor (Fo)	7
		prostrate					9
5.	29	Leaf: length					
(+)	VS A						
QN	VG B	very short					1
	(a)	short				Count (Fr), Pintor (Fo)	3
		medium				Casanova (Fr), Medal (Fo)	5
		long				Cindy (Fr)	7
		very long				Gondolin (Fr)	9
6.		<u>Only Red Fescue</u> <u>varieties</u> : Leaf: width					
ON		very narrow					1
•		narrow				Frida (Fr)	3
		medium				Casanova (Fr)	5
		wide				N.F.G. Theodor Roemer (Fr)	7
		very wide					9

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
7.	29 VS A	Leaf: intensity of green color					
QN	VG B	very light					1
	(a)	light				Calliope (Fr)	3
		medium				Barcrown (Fr), Cindy (Fr), Quatro (Fo)	5
		dark				Diego (Fr), Manoir (Fr), Medal (Fo)	7
		very dark				Darwin (Fr), Hardtop (Fo), Tarnat (Fr)	9
8.	29	Leaf: glaucosity					
	VG B						
QL	(a)	absent				Trophy (Fr)	1
		present				Merlin (Fr)	9
(*)	29-31 VS A	Plant: development of rhizomes					
QN	(a)	absent or weak				Trophy (Fr)	1
		medium					2
		strong				Barpusta (Fr)	3

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
10. (*) (+)	MS A	Plant: time of inflorescence emergence					
	MG B	very early					1
		early				Biljart (Fo), Darwin (Fr)	3
		medium				Clio (Fo), Trophy (Fr)	5
		late				Frida (Fr), Mocassin (Fr)	7
		very late				Kiruna (Fr), Silk (Fr)	9
11.		Plant: natural height at time of inflorescence emergence (excluding the flag leaf blade)					
QN		short				Trophy (Fr)	3
		medium				Mocassin (Fr)	5
		long				Barpusta (Fr), N.F.G. Theodor Roemer (Fr)	7
(*)	52-56 MS A	Flag leaf: length					
QN		very short				Melord (Fo)	1
		short				Barreppo (Fo), Dawson (Fr)	3
		medium				Cindy (Fr), Darwin (Fr), Kiruna (Fr)	5
		long				Barpusta (Fr), Gondolin (Fr)	7
		very long					9

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
(*)	52-56 MS A	<u>Only Red Fescue</u> <u>varieties</u> : Flag leaf: width					
QN		narrow				Frida (Fr)	3
		medium				Cindy (Fr), Koket (Fr)	5
		wide				Barpusta (Fr), Condor (Fr)	7
14. (*)		<u>Only Red Fescue</u> <u>varieties</u> : Flag leaf: length/width					
QN		small				Symphony (Fr)	3
		medium				Barcrown (Fr)	5
		large				Kiruna (Fr)	7
15. (*) (+)		Plant: length of longest stem (inflorescence included)					
QN		very short				Liramon (Fo)	1
		short				Livina (Fo), Waldorf (Fr)	3
		medium				Spartan (Fo), Trophy (Fr)	5
		long				Casanova (Fr)	7
		very long				Gondolin (Fr)	9
(*)		Plant: length of longest stem above upper node (inflorescence excluded)					
QN		very short					1
		short				Manoir (Fr)	3
		medium				Barcrown (Fr), Frida (Fr)	5
		long				Casanova (Fr)	7
		very long					9

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemple	Note/ Nota
(*)	60-68 MS A	Inflorescence: le	ngth				
QN		very short				Lifair (Fr), Quatro (Fo)	1
		short				Biljart (Fo), Pintor (Fo)	3
		medium				Cindy (Fr), Kiruna (Fr)	5
		long				Gondolin (Fr)	7
		very long					9
18.		Inflorescence: anthocyanin coloration of the panicle					
QN		absent or weak					1
		weak				Cindy (Fr), Crystal (Fo)	3
		medium				Diego (Fr), Spartan (Fo)	5
		strong				Medal (Fo), N.F.G. Theodor Roemer (Fr)	7
		very strong				Polaris (Fr)	9

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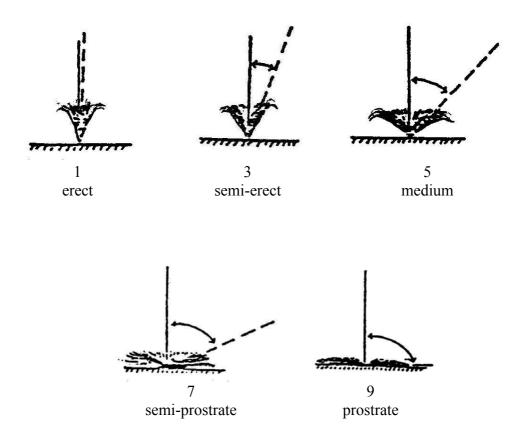
8. <u>Explanations on the Table of Characteristics</u>

8.1 Explanations covering several characteristics

(a) The optimal stage to observe these characteristics is at DC 29, which is usually in the year of planting before vernalization. The development of rhizomes can be observed until the beginning of stem elongation (DC 31).

(b) <u>Plant: growth habit</u>

The observations should be made visually from the attitude of the leaves of the plant as a whole. The angle formed by the imaginary line through the region of greatest leaf density and the vertical should be used.



8.2 Explanations for individual characteristics

Ad. 1: Plant: ploidy

The ploidy of the plant should be determined by standard cytological methods.

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Ad. 5: Leaf length

Total leaf length is the length including the leaf blade and leaf sheath.

Ad. 9: Plant: development of rhizomes

Rhizomes can be observed at the bottom of the stem. Absent or weak development of rhizomes is assessed when no rhizome development or rhizome primordia can be observed with a magnifying glass. Medium development of rhizomes is assessed when few and short rhizomes are observed. Strong development of rhizomes is assessed when abundant and long rhizomes are observed.

Ad. 10: Plant: time of heading

Spaced plants or row plots should be observed at least twice a week.

A: Plots with spaced plants

The date of heading of each single plant should be assessed. A single plant is considered to have headed when the tip of three heads (just after DC 50) can be seen protruding from the flag leaf sheath. From the single plant data a mean date per plot and a mean date per variety is obtained.

B: Row plots

At each observation date the average plot stage should be expressed in one of the following growth stages:

DC 45 Boots swollen
DC 49 First awns visible (in awned forms only)
DC 50 First spikelet of inflorescence just visible

- DC 50 First spikelet of inflorescence just visible
- DC 52 ¹/₄ of the inflorescence emerged (across all stems)
- DC 54 $\frac{1}{2}$ of the inflorescence emerged (across all stems)
- DC 56 $\frac{3}{4}$ of the inflorescence emerged (across all stems)
- DC 58 Emergence of inflorescence completed

The date of heading is the date at which the average plot stage DC 54 has been reached. This date should – if necessary – be obtained by interpolation.

Ad. 12 and 13: Flag leaf: length (12) and Only Red Fescue varieties: Flag leaf: width (13)

Flag leaf is the first leaf below the inflorescence.

Time: within a period of two to three weeks after heading (DC 52-56).

Measurements should be made on the same leaf.

Length should be measured to an accuracy of at least 1mm from the tip of the leaf blade to the leaf sheath.

Width should be measured to an accuracy of at least 0.5mm at the widest point of the leaf blade.

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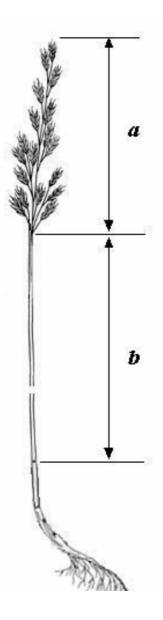
Ad. 15: Plant: length of longest stem (inflorescence included)

Length of the longest stem (inflorescence included) is measured from ground level.

Ad. 16 and 17: Plant: length of longest stem above upper node (inflorescence excluded) (16), Inflorescence: length (17)

Char. 16: b = Length of the longest stem, above the upper node (inflorescence excluded)

Char. 17: a = Length of the inflorescence (of the longest stem)



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8.3 Growth stages for grasses

All characteristics should be recorded at the appropriate time for the plant concerned. Growth stages of grasses are indicated by decimal codes which are derived from the decimal code for the growth stages of cereals (Zadoks, et al., 1974). This decimal code is in close conformity with the BBCH-code (Meier, 1997)."

Seedling growth (seedling: one shoot)

- DC 10 First leaf through coleoptile
- DC 15 Five leaves unfolded
- DC 19 Nine or more leaves unfolded *Tillering*
- DC 20 Main shoot only (beginning of tillering)
- DC 23 Main shoot and 3 tillers
- DC 25 Main shoot and 5 tillers
- DC 29 Main shoot and 9 or more tillers

Stem elongation

- DC 30 Pseudo-stem erection (formed by sheaths of leaves).
- DC 31 First node detectable (early stem extension across all stems)
- DC 35 Fifth node detectable (50 % extension across all stems)
- DC 39 Flag leaf ligula/collar just visible (pre-boot stage)

Booting

- DC 41 Flag leaf sheath extending (little enlargement of the inflorescence, early boot-stage)
- DC 45 Boots swollen (late-boot stage)
- DC 47 First leaf sheath opening
- DC 49 first awns visible (in awned forms only)

Inflorescence emergence (mostly non-synchronous)

- DC 50 First spikelet of inflorescence just visible
- DC 52 25 % of the inflorescence emerged (across all stems)
- DC 54 50 % of the inflorescence emerged (across all stems)
- DC 56 75 % of the inflorescence emerged (across all stems)
- DC 58 Emergence of inflorescence completed

Anthesis (mostly non-synchronous)

- DC 60 Beginning of anthesis
- DC 64 Anthesis half-way
- DC 68 Anthesis complete

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9. <u>Literature</u>

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10. <u>Technical Questionnaire</u>

TECHNICAL QUESTIONNAIR	E Page $\{x\}$ of $\{y\}$	Reference Number:						
Application date: (not to be filled in by the applicant								
TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights								
1. Subject of the Technical Questionnaire								
1.1.1 Botanical Name 1.1.2 Common Name								
1.2.1 Botanical Name 1.2.2 Common Name	<i>Festuca ovina</i> L. Sheep's Fescue, Hard Fe	scue						
1.3.1 Botanical Name	Festuca filiformis Pourr. Festuca ovina subsp. ten Festuca tenuifolia Sibth.	[]						
1.3.2 Common Name	Fine-leaf sheep fescue, Hair fescue, Slender fesc	cue						
1.4.1 Botanical Name	Festuca brevipila R. Tra Festuca ovina L. ssp. du Festuca trachyphylla had	riuscula,						
1.4.2 Common Name	Reliant hard fescue							
1.4.1 Botanical Name	Festuca heterophylla La	m. []						
1.4.2 Common Name	Shade Fescue							
1.5.1 Botanical Name	Festuca pseudovina Hac	k. ex Wiesb. []						
1.5.2 Common name	Pseudovina							

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TEC	CHNICAL QUESTIONNAIR	E	Page {x} of {y}	Reference Number:	
2.	Applicant				
	Name				
	Address				
	Telephone No.				
	Fax No.				
	E-mail address				
	Breeder (if different from ap	pli	cant)		
3.	Proposed denomination and	bre	eeder's reference		
	Proposed denomination (if available)				
	Breeder's reference				

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TECHNICAI	L QUESTI	ONNAIRE	Page $\{x\}$ of $\{y\}$	Reference Num	nber:		
[#] 4. Information on the breeding scheme and propagation of the variety							
4.1 Br	4.1 Breeding scheme						
Va	Variety resulting from:						
4.	1.1 Cros	sing					
	(a)	controlled cr (please state	oss parent varieties)		[]		
	(b)	partially kno (please state	wn cross known parent variety(ies))	[]		
	(c)	unknown cro	DSS		[]		
4.		Mutation (please state parent variety)			[]		
4.	(plea	overy and dev se state where now develope	e and when discovered		[]		
4.	1.4 Othe (plea	r se provide de	tails)		[]		
4.2 M	ethod of pr	ropagating the	e variety				

[#] Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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ГЕСН	NICAL QUESTIONNAIRE	Page $\{x\}$ of $\{y\}$	y} Reference Number:	
			he number in brackets reference of the note which best correst	
	Characteristics		Example Varieties	Note
5.1 (1)	Plant: ploidy			
	diploid		Barok (Fo)	2[]
	tetraploid			4[]
	hexaploid		Biljart (Fo), Darwin (Fr)	6[]
	octoploid		Cindy (Fr)	8[]
5.2 (9)	Plant: development of rhizomes			
	absent or very weak		Trophy (Fr)	1[]
	medium			2[]
	strong		Barpusta (Fr)	3[]
5.3 (10)	Plant: time of inflorescence emer	rgence		
	very early			1[]
	early		Biljart (Fo), Darwin (Fr)	3[]
	medium		Clio (Fo), Trophy (Fr)	5[]
	late		Frida (Fr) Mocassin (Fr)	7[]
	very late		Kiruna (Fr), Silk (Fr)	9[]

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TECHNICAL QUESTIONNAIRE	Page $\{x\}$ of $\{y\}$	Reference Number:

6. Similar varieties and differences from these varieties

Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.

Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
Example	Plant: time of inflorescence emergence	early (note 3)	late (note 7)
Comments:			

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TEC				Dece (w)	- f ()	Deference Number	
TEC	HNIC	AL QUE	ESTIONNAIRE	Page {x} c	DI {y}	Reference Number:	
[#] 7.	Additional information which may help in the examination of the variety						
7.1		In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?					
	Yes	[]		No []		
	(If ye	es, please	e provide details)				
7.2	Are	there any	y special condition	s for growin	ng the vari	ety or conducting the examination?	
	Yes	[]		No []		
	(If ye	es, please	e provide details)				
7.3	Other information						
8.	Authorization for release						
	(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?						
		Yes	[]	No	[]		
	(b)	Has suc	ch authorization b	een obtained	d?		
		Yes	[]	No	[]		
	If the answer to (b) is yes, please attach a copy of the authorization.						

[#] Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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TECHNICAL QUESTIONNAIRE Page {x} of {y} Reference Number:							
9. Informat	9. Information on plant material to be examined or submitted for examination.						
9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.							
9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:							
(a) Mi	croorganisms (e.g. vir	us, bacteria, phytoplas	ma) Yes []	No []			
(b) Ch	Chemical treatment (e.g. growth retardant, pesticide)			No []			
(c) Tis	Tissue culture			No []			
(d) Oth	d) Other factors Yes [
Please pr	Please provide details for where you have indicated "yes".						
10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:							
Applican	Applicant's name						
Signature Date							

[End of document]