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UPOV

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

COMMON SEA BUCKTHORN *

UPOV Code: HIPPH_RHA

Hippophae rhamnoides L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

Alternative Names:*

Botanical name	*English*	*French*	*German*	*Spanish*
Hippophae rhamnoides L.	Common Sea Buckthorn, Sallowthorn, Sea-buckthorn	Argasse, Argousier, Grisset	Sanddorn	Espino amarillo, Espino falso

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.

ASSOCIATED DOCUMENTS

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

* 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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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Hippophae rhamnoides* L.

2. Material Required

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 one-year-old, well-rooted plants with at least two shoots.

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

5 plants.

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. Method of Examination

3.1 Number of Growing Cycles

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

3.1.2 The growing cycle is considered to be the duration of a single growing season, beginning with bud burst (flowering and/or vegetative), flowering and fruit harvest and concluding when the following dormant period ends with the swelling of new season buds."

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

3.3.1 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. In particular, it is essential that the plants produce a satisfactory crop of fruit in each of the two growing cycles.

3.3.2 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.

3.4 Test Design

3.4.1 Each test should be designed to result in a total of at least 5 plants.

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 should be made on 5 plants or parts taken from each of 5 plants. In the case of parts of plants, the number to be taken from each of the plants should be 3.

3.6 Additional Tests

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

4. Assessment of Distinctness, Uniformity and Stability

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 For the assessment of uniformity, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 5 plants, no off-types are allowed.

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 plant stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

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: sex (characteristic 1)
(b) Plant: growth type (characteristic 2)
(c) Plant: attitude of branches (characteristic 3)
(d) Shoot: number of thorns (from middle part to top) (characteristic 8)

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

6. Introduction to the Table of Characteristics

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.

6.4 Example Varieties

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

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, MS, VG, VS: See Chapter 3.3.2

(a)-(e) See Explanations on the Table of Characteristics in Chapter 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8.2

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

		English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. (*) (+)	**VG**	**Plant: sex**	**Plante: sexe**	**Pflanze: Geschlecht**	**Planta: sexo**		
QL	**(a)**	female	femelle	weiblich	femenina	Bojan, Leikora, Slovan	1
		male	mâle	männlich	masculina	Pollmix 1	2
2. (*) (+)	**VG**	**Plant: growth type**	**Plante: type de croissance**	**Pflanze: Wuchstyp**	**Planta: porte**		
QL	**(a)**	tree-type	arbre	baumartig	tipo árbol	Maslichnaya, Novost` Altaya, Slovan, Vitaminaya	1
		bush-type	buissonnant	buschig	tipo arbustivo	Bojan, Dorana, Terhi	2
3. (*)	**VG**	**Plant: attitude of branches**	**Plante: port des ramifications**	**Pflanze: Stellung der Seitenäste**	**Planta: porte de las ramificaciones**		
PQ	**(a)**	erect	dressé	aufrecht	erecto	Ascola, Frugana	1
		semi-erect	demi-dressé	halbaufrecht	semierecto	Leikora, Slovan, Vitaminaya	2
		horizontal	horizontal	waagerecht	horizontal	Bojan, Maslichnaya	3
		arching	arqué	bogenförmig	arqueada	Hergo	4
4. (+)	**VG**	**Plant: vigor**	**Plante: vigueur**	**Pflanze: Wuchsstärke**	**Planta: vigor**		
QN	**(a)**	weak	faible	gering	débil	Dorana, Maslichnaya	3
		medium	moyenne	mittel	medio	Bojan, Hergo	5
		strong	forte	stark	fuerte	Ascola	7
		very strong	très forte	sehr stark	muy fuerte	Leikora	9
5.	**VG**	**Plant: density of shoots**	**Plante: densité des rameaux**	**Pflanze: Dichte der Triebe**	**Planta: densidad de las ramas**		
QN	**(a)**	sparse	faible	locker	laxa	Pollmix 3, Vitaminaya	3
		medium	moyenne	mittel	media	Bojan	5
		dense	dense	dicht	densa	Maslichnaya, Slovan	7

		English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
6.	**VG**	**Plant: position of inflorescences**	**Plante : position des inflorescences**	**Pflanze: Position der Blütenstände**	**Planta: posición de las inflorescencias**		
QL	**(b)**	on one-year-old shoots only	seulement sur les rameaux d'un an	nur an einjährigen Trieben	sólo en ramas de un año	Leikora, Pollmix 1, Pollmix 2	1
		both on one-year-old and older shoots	sur les rameaux d'un an et les rameaux plus anciens	an einjährigen und an älteren Trieben	en ramas de un año y en ramas más viejas	Ascola, Dorana, Frugana	2
7.	**VG**	**One-year-old shoot: thickness**	**Rameau d'un an : épaisseur**	**Einjähriger Trieb: Dicke**	**Rama de un año: grosor**		
QN	**(b)**	thin	mince	dünn	delgada		3
		medium	moyenne	mittel	media	Bojan, Slovan	5
		thick	épaisse	dick	gruesa	Leikora, Maslichnaya	7
8. (*)	**VG**	**Shoot: number of thorns (from middle part to top)**	**Rameau : nombre d'épines (de la partie médiane au sommet)**	**Trieb: Anzahl Dornen (vom mittleren Teil bis zur Spitze)**	**Rama: número de espinas (de la parte media hacia arriba)**		
QN	**(b)**	absent or very few	nul ou très petit	fehlend oder sehr gering	ausente o muy bajo	Obil´naya, Yantarnaya	1
		few	faible	gering	bajo	Pollmix 1, Vitaminaya	3
		medium	moyen	mittel	medio	Slovan	5
		many	grand	groß	alto	Bojan, Leikora, Pollmix 2	7
9. (+)	**VG**	**Shoot: length of thorns**	**Rameau : longueur des épines**	**Trieb: Länge der Dornen**	**Rama: longitud de las espinas**		
QN	**(b)**	short	courtes	kurz	corta	Silvia, Tiberiu	3
		medium	moyennes	mittel	media	Auras, Victoria	5
		long	longues	lang	larga	Diana	7

		English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
10. (*) (+)	**VG**	**Leaf blade: shape**	**Limbe: forme**	**Blattspreite: Form**	**Limbo: forma**		
PQ	**(c)**	very narrow elliptic	très elliptique étroit	sehr schmal elliptisch	muy elíptica estrecha	Bojan, Dorana, Maslichnaya, Vitaminaya	1
		narrow elliptic	elliptique étroit	schmal elliptisch	elíptica estrecha	Slovan	2
		narrow ovate	oval étroit	schmal eiförmig	oval estrecha	Frugana	3
11. (*)	**MG/ VG**	**Leaf blade: size**	**Limbe: taille**	**Blattspreite: Größe**	**Limbo: tamaño**		
QN	**(c)**	small	petit	klein	pequeño	Dorana, Maslichnaya	3
		medium	moyen	mittel	mediano	Hergo, Slovan	5
		large	grand	groß	grande	Bojan, Leikora, Vitaminaya	7
12.	**VG**	**Leaf blade: undulation of margin**	**Limbe: ondulation du bord**	**Blattspreite: Randwellung**	**Limbo: ondulación del borde**		
QL	**(c)**	absent	absente	fehlend	ausente	Bojan, Dorana, Maslichnaya, Slovan, Vitaminaya	1
		present	présente	vorhanden	presente	Frugana	9
13. (*)	**VG**	**Leaf blade: color of upper side**	**Limbe: couleur de la face supérieure**	**Blattspreite: Farbe der Oberseite**	**Limbo: color del haz**		
QL	**(c)**	green	verte	grün	verde	Dorana, Leikora, Pollmix 1	1
		silverish	argentée	silbrig	plateado	Bojan, Maslichnaya, Slovan, Sprite	2
14. QN	**VG (c)**	**Leaf blade: intensity of green color of upper side**	**Limbe: intensité de la couleur verte de la face supérieure**	**Blattspreite: Intensität der Grünfärbung der Oberseite**	**Limbo: intensidad del color verde en la parte superior**		
		light	légère	hell	claro	Dorana	1
		medium	moyenne	mittel	medio	Leikora	2
		dark	foncée	dunkel	oscuro	Pollmix 1	3

		English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
15. (*)	**VG**	**Leaf blade: pubescence of lower side**	**Limbe: pilosité de la face inférieure**	**Blattspreite : Behaarung der Unterseite**	**Limbo: pubescencia del envés**		
QN	**(c)**	weak	faible	gering	débil	Bojan, Diana, Ovidiu, Slovan, Tiberiu	3
	(d)	medium	moyenne	mittel	media	Auras, Serpenta, Victoria	5
		strong	forte	stark	fuerte	Silvia	7
16. (*)	**VG**	**Fruit: size**	**Fruit: taille**	**Frucht: Größe**	**Fruto: tamaño**		
QN	**(e)**	small	petit	klein	pequeño	Bojan, Dorana	3
		medium	moyen	mittel	medio	Hergo, Maslichnaya	5
		large	gros	groß	grande	Leikora	7
17. (*) (+)	**VG**	**Fruit: shape**	**Fruit: forme**	**Frucht: Form**	**Fruto: forma**		
PQ	**(e)**	pear-shaped	piriforme	birnenförmig	piriforme	Dorana	1
		ovate	ovale	eiförmig	ovada	Leikora, Slovan	2
		transverse elliptic	elliptique transverse	quer elliptisch	elíptica transversal	Silvia	3
		circular	circulaire	kreisförmig	circular	Tashkent	4
		elliptic	elliptique	elliptisch	elíptica	Askola, Bojan, Frugana	5
		oblong	oblong	rechteckig	oblonga	Hergo, Terhi	6
18. (*)	**VG**	**Fruit: color of skin**	**Fruit: couleur de la peau**	**Frucht: Farbe der Haut**	**Fruto: color de la epidermis**		
PQ	**(e)**	light yellow	jaune clair	hellgelb	amarillo claro		1
		dark yellow	jaune foncé	dunkelgelb	amarillo oscuro	Terhi, Tytti	2
		yellow orange	jaune orange	gelborange	anaranjado amarillento	Hergo, Slovan	3
		orange red	rouge orangé	orangerot	rojo anaranjado	Ascola, Bojan, Leikora	4
		red	rouge	rot	rojo	L 90/539, Sirola	5

		English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
19.	**VG**	**Fruit: pubescence**	**Fruit: pilosité**	**Frucht: Behaarung**	**Fruto: pubescencia**		
QN	**(d)**	weak	faible	gering	débil	Bojan, Frugana, Maslichnaya, Vitaminaya	3
	(e)	medium	moyenne	mittel	media	Hergo	5
		strong	forte	stark	fuerte	Ascola, Slovan	7
20.	**VG**	**Fruit: length of stalk**	**Fruit: longueur du pédoncule**	**Frucht: Länge des Stiels**	**Fruto: longitud del pedúnculo**		
QN	**(e)**	short	court	kurz	corto	Bojan, Hergo	1
		medium	moyen	mittel	medio	Leikora, Maslichnaya	2
		long	long	lang	largo	Frugana, Slovan	3
21. **(+)**	**MG**	**Time of beginning of flowering**	**Époque de début de floraison**	**Zeitpunkt des Blühbeginns**	**Época de comienzo de la floración**		
QN		early	précoce	früh	temprana	Terhy, Tytti	3
		medium	moyenne	mittel	media	Bojan, Dorana, Hergo, Maslichnaya	5
		late	tardive	spät	tardía	Leikora, Slovan	7
22. **(+)**	**MG**	**Time of beginning of fruit ripening**	**Époque du début de la maturation des fruits**	**Zeitpunkt des Beginns der Fruchtreife**	**Época de inicio de maduración del fruto**		
QN		very early	très précoce	sehr früh	muy temprana	Terhi, Tytti	1
		early	précoce	früh	temprana	Frugana	3
		medium	moyenne	mittel	media	Dorana, Hergo	5
		late	tardive	spät	tardía	Leikora	7
		very late	très tardive	sehr spät	muy tardía		9

8. Explanation on the Table of Characteristics

8.1 Explanations covering several characteristics

Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

(a) Plant: Observations should be made during winter dormancy.
(b) Shoot: Observations should be made during active growth.
(c) Leaf blade: Observations should be made on mature leaves taken from the middle third of the current season's growth in the middle part of plant.
(d) Pubescence: Observations should be made using a magnifying glass.
(e) Fruit: Observations should be made at the time of fruit maturity.

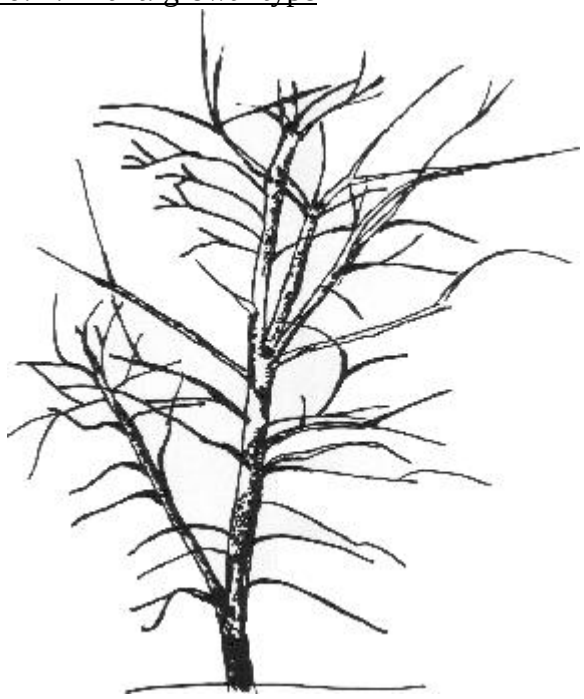
8.2 Explanations for individual characteristics

Ad. 1: Plant: sex

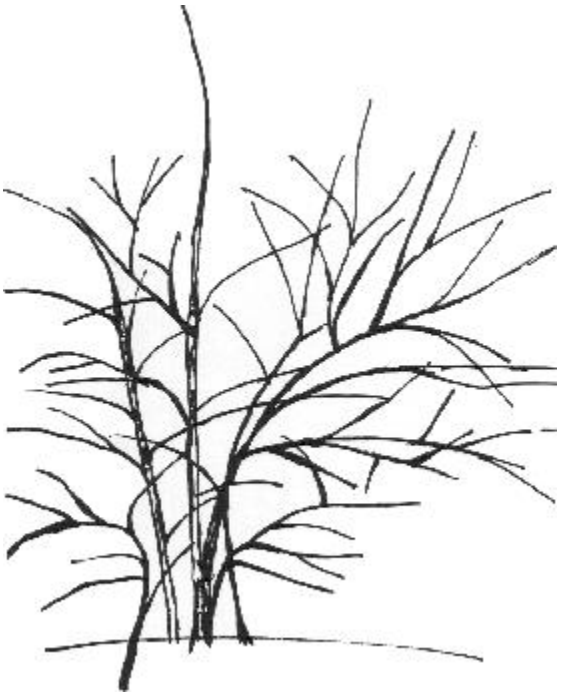
1
male

2
female

Ad. 2: Plant: growth type



1
tree-type



2
bush-type

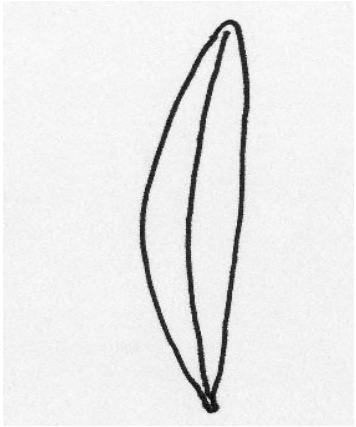
Ad. 4: Plant: vigor

The vigor of the plant should be considered as the overall abundance of vegetative growth.

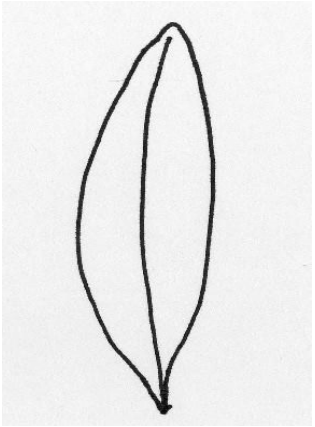
Ad. 9: Shoot: length of thorns

Lateral thorns should be assessed exclusively, as the terminal ones (at the tip of the central leading shoots) are longer.

Ad. 10: Leaf blade: shape



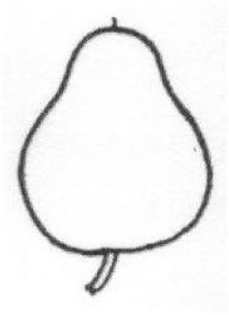
1
very narrow elliptic



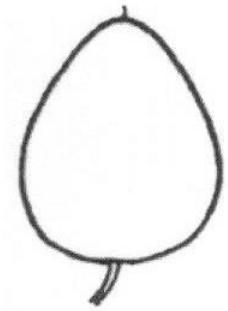
2
narrow elliptic

3
narrow ovate

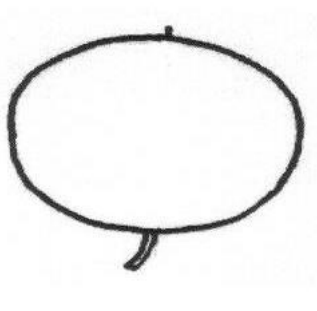
Ad. 17: Fruit: shape



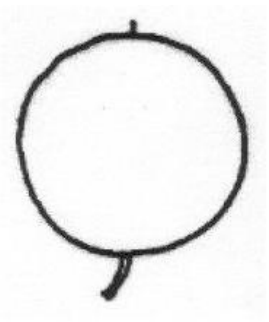
1
pear-shaped



2
ovate

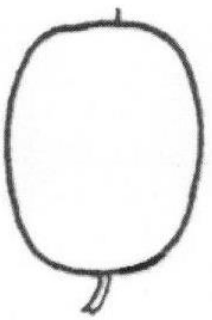


3
transverse elliptic



4
circular

5
elliptic



6
oblong

Ad. 21: Time of beginning of flowering

For female plants, the time of beginning of flowering is reached when the first stigmas are visible (the stigmas emerge from the leaf axils).

For male plants, the time of beginning of flowering is reached when anthers release pollen.

Ad. 22: Time of beginning of fruit ripening

Time of fruit maturity is when at least 90 % of fruits have achieved full color.

9. Literature

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Hričovský, I., 2002: Pomológia, Nezávislosť, Bratislava, SK, pp. 361-363.

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	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 Botanical name	*Hippophae rhamnoides* L.
1.2 Common name	Common Sea Buckthorn

2. Applicant

Name	
Address	
Telephone No.	
Fax No.	
E-mail address	

Breeder (if different from applicant)

3. Proposed denomination and breeder's reference

Proposed denomination (if available)	
Breeder's reference	

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

[#]4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross [ ]
(please state parent varieties)
(b) partially known cross [ ]
(please state known parent variety(ies))
(c) unknown cross [ ]

4.1.2 Mutation [ ]
(please state parent variety)

4.1.3 Discovery and development [ ]
(please state where and when discovered
and how developed)

4.1.4 Other [ ]
(please provide details)

4.2 Method of propagating the variety

4.2.1 Vegetative propagation

(a) cuttings [ ]

(b) *in vitro* propagation [ ]

(c) other (state method) [ ]

4.2.2 Other [ ]
(please provide details)

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

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

5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

	Characteristics	Example Varieties	Note
5.1 (1)	**Plant: sex**		
	female	Bojan, Leikora, Slovan	1[ ]
	male	Pollmix 1	2[ ]
5.2 (2)	**Plant: growth type**		
	tree-type	Maslichnaya, Novost` Altaya, Slovan, Vitaminaya	1[ ]
	bush-type	Bojan, Dorana, Terhi	2[ ]
5.3 (3)	**Plant: attitude of branches**		
	erect	Ascola, Frugana	1[ ]
	semi-erect	Leikora, Slovan, Vitaminaya	2[ ]
	horizontal	Bojan, Maslichnaya	3[ ]
	arching	Hergo	4[ ]
5.4 (8)	**Shoot: number of thorns (from middle part to top)**		
	absent or very few	Obil´naya, Yantarnaya	1[ ]
	few	Pollmix 1, Vitaminaya	3[ ]
	medium	Slovan	5[ ]
	many	Bojan, Leikora, Pollmix 2	7[ ]

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

	Characteristics	Example Varieties	Note
5.5 (17)	**Fruit: shape**		
	pear-shaped	Dorana	1[ ]
	ovate	Leikora, Slovan	2[ ]
	transverse elliptic	Silvia	3[ ]
	circular	Tashkent	4[ ]
	elliptic	Askola, Bojan, Frugana	5[ ]
	oblong	Hergo, Terhi	6[ ]
5.6 (18)	**Fruit: color of skin**		
	light yellow		1[ ]
	dark yellow	Terhi, Tytti	2[ ]
	yellow orange	Hergo, Slovan	3[ ]
	orange red	Ascola, Bojan, Leikora	4[ ]
	red	L 90/539, Sirola	5[ ]

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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	*Leaf: color of upper side*	*green*	*silverish*

Comments:

TECHNICAL QUESTIONNAIRE	Page {x} of {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 yes, please provide details)

7.2 Are there any special conditions for growing the variety or conducting the examination?

Yes [ ] No [ ]

(If yes, please provide details)

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 such authorization been obtained?

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.

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

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) Microorganisms (e.g. virus, bacteria, phytoplasma) Yes [ ] No [ ]

(b) Chemical treatment (e.g. growth retardant, pesticide) Yes [ ] No [ ]

(c) Tissue culture Yes [ ] No [ ]

(d) Other factors Yes [ ] No [ ]

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:

Applicant’s name

Signature Date

[End of document]