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**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS**

GENEVA

**DRAFT**

**WILLOW**

**UPOV Code: SALIX**

*(Salix L.)*

**GUIDELINES**

**FOR THE CONDUCT OF TESTS**

**FOR DISTINCTNESS, UNIFORMITY AND STABILITY**

*prepared by an expert from Germany*

*to be considered by the  
Technical Working Party for Ornamental Plants and Forest Trees  
at its thirty-eighth session,  
to be held in Seoul, Republic of Korea, from September 12 to 16, 2005*

Alternative Names: \*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Salix L.</i>	Willow	Saule	Weide	Sauce

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](http://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 *Salix* L. of the family *Salicaceae*.

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 hardwood cuttings with a diameter of at least 1 cm and a length of 20 cm, or well rooted one year old plants.

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

30 hardwood cuttings or 15 plants.

2.4 The cuttings should be taken from one-year-old main shoots from stools. The applicant should indicate to the authorities, if possible, the location of at least one adult tree of the variety. Nevertheless, if the applicant does not submit such characteristics, it is still recommended that they enable the authorities to make observations on adult trees as this can facilitate the examination and shorten the testing period.

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

2.6 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*

The minimum duration of tests should normally be two independent growing cycles. In particular, the first two growing cycles after planting should not be considered to produce satisfactory expressions of characteristics.

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.

3.3.2 The following growing conditions are recommended (Northern Hemisphere):

Time of submission of plant material: second half of March

Planting: beginning of April; in the open; planting distance 150 x 150 cm; 2 cuttings are planted per plant hole and one of them is removed after beginning of growth to have one growing plant

Soil: sandy, humic soil

Fertilization: according to soil analysis

### 3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 10 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 10 plants or parts taken from each of 10 plants.

### 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 10 plants, 1 off-type is 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)

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 Section 6.1.2

QL Qualitative characteristic – see Section 6.3

QN Quantitative characteristic – see Section 6.3

PQ Pseudo-Qualitative characteristic – see Section 6.3

(a)-(d) 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
<b>1. (*)</b>	<b>(a) Plant: sex</b>	<b>Plante: sexe</b>	<b>Pflanze: Geschlecht</b>	<b>Planta: sexo</b>		
<b>QL</b>	dioecious female	dioïque femelle	zweihäusig weiblich	dioico femenino	Tora	1
	dioecious male	dioïque mâle	zweihäusig männlich	dioico masculino	Björn	2
	monoecious unisexual	monoïque unisexuée	einhäusig eingeschlechtlich	monoico unisexual		3
	monoecious hermaphrodite	monoïque hermaphrodite	einhäusig zwittrig	monoico hermafrodita		4
<b>2. (*)</b>	<b>(a) Plant: spring foliation</b>	<b>Plante: débourrement</b>	<b>Pflanze: Frühjahrsaustrieb</b>	<b>Planta: brotación en primavera</b>		
<b>QN</b>	very early	très précoce	sehr früh	muy temprana	I - 3 - 58	1
	early	précoce	früh	temprana	Godesberg	3
	medium	moyen	mittel	media	Metz	5
	late	tardif	spät	tardía	F - 65 - 02	7
	very late	très tardif	sehr spät	muy tardía	Mangahn	9
<b>3. (*)</b>	<b>(b) Main shoot: attitude</b>	<b>Pousse principale: port</b>	<b>Haupttrieb: Haltung</b>	<b>Rama principal: porte</b>		
<b>PQ</b>	straight	droit	gerade	recto	Bredevoort	1
	slightly curved	légèrement flexueux	schwach gebogen	ligeramente curvado	I - 3 - 58	2
	moderately curved	modérément flexueux	mäßig gebogen	moderamente curvado	Mittlerer Inn V	3
	strongly curved	fortement flexueux	stark gebogen	muy curvado	75/64 ( <i>S. fragilis</i> L.)	4
	tortuous	tortueux	gewunden	tortuoso	Tortuosa	5

	English	français	deutsch	español	Example Varieties Exemples Beispielsorten Variedades ejemplo	Note/ Nota
<b>4.</b>	<b>(b) Main shoot: color in (c) the middle third (sunny side)</b>	<b>Pousse principale: couleur au tiers moyen (face ensoleillée)</b>	<b>Haupttrieb: Farbe im mittleren Drittel (Sonnenseite)</b>	<b>Rama principal: color en el tercio medio (parte soleada)</b>		
<b>PQ</b>	yellow	jaune	gelb	amarillo		1
	orange	orange	orange	naranja	Gelbe Dotterweide	2
	grey	gris	grau	gris		3
	grey green	gris vert	graugrün	verde gris		4
	light green	vert clair	hellgrün	verde claro	Graupa 34	5
	medium green	vert moyen	mittelgrün	verde medio	259/64 ( <i>S. x smithiana</i> Willd.)	6
	brown green	brun vert	braungrün	marrón verdoso	I – 3– 58	7
	grey brown	brun gris	graubraun	marrón grisáceo		8
	red brown	brun rouge	rotbraun	marrón rojizo	Altenstadt 4	9
	brown	brun	braun	marrón	Straubinger Baumweide II	10
<b>5.</b>	<b>(b) Main shoot: (c) hairiness</b>	<b>Pousse principale: pilosité</b>	<b>Haupttrieb: Behaarung</b>	<b>Rama principal: vellosidad</b>		
<b>QN</b>	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Tordis	1
	weak	faible	gering	débil		3
	medium	moyenne	mittel	media		5
	strong	forte	stark	fuerte	Osk	7
	very strong	très forte	sehr stark	muy fuerte		9



	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>6.</b>	<b>(b) Main shoot: protrusion of lenticel</b>	<b>Pousse principale: protubérance de la lenticelle</b>	<b>Haupttrieb: Hervorstehen der Lentizelle</b>	<b>Rama principal: protuberancia de lenticelas</b>		
<b>(+)</b>						
<b>QN</b>	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil		1
	weak	faible	gering	débil	Olaf	3
	medium	moyenne	mittel	media		5
	strong	forte	stark	grande	Sherwood	7
	very strong	très forte	sehr stark	muy fuerte		9
<b>7.</b>	<b>(b) Main shoot: color of (c) leaf bud</b>	<b>Pousse principale: couleur du bourgeon à feuilles</b>	<b>Haupttrieb: Farbe der Blattknospe</b>	<b>Rama principal: color de la yema</b>		
<b>PQ</b>	light green	vert clair	hellgrün	verde claro		1
	green	vert	grün	verde		2
	greenish brown	brun verdâtre	grünlichbraun	marrón verdoso	Gustaf	3
	brown	brun	braun	marrón	Björn, Orm	4
	reddish brown	brun rougeâtre	rötlichbraun	marrón rojizo	Stott 10	5
<b>8.</b>	<b>(b) Main shoot: (c) hairiness of leaf bud</b>	<b>Pousse principale: pilosité du bourgeon à feuilles</b>	<b>Haupttrieb: Behaarung der Blattknospe</b>	<b>Rama principal: vellosidad de la yema</b>		
<b>QN</b>	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Armando	1
	weak	faible	gering	débil	Sherwood	3
	medium	moyenne	mittel	media	Nils	5
	strong	forte	stark	fuerte	Stott 10	7
	very strong	très forte	sehr stark	muy fuerte	Osk	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>9. (*)</b>	<b>(b) Main shoot: number of branches longer than 5 cm</b>	<b>Pousse principale: nombre de rameaux de plus de 5 cm de long</b>	<b>Haupttrieb: Anzahl der Zweige, die länger als 5 cm sind</b>	<b>Rama principal: número de ramas de longitud superior a 5 cm</b>		
<b>QN</b>	absent or very few	nul ou très petit	fehlend oder sehr gering	ausente o muy bajo	Altenstadt 4	1
	few	petit	gering	bajo	Mittlerer Inn III	3
	medium	moyen	mittel	medio	Bredevoort	5
	many	grand	groß	alto	Belders	7
	very many	très grand	sehr groß	muy alto	I - 3 - 58	9
<b>10. (*)</b>	<b>(b) Branch: angle between first 5 cm of branch and main shoot in middle third of main shoot (time: autumn of 1<sup>st</sup> year)</b>	<b>Rameau: angle entre les 5 premiers centimètres du rameau et la pousse principale au tiers moyen de la pousse principale (époque: automne de la 1<sup>ère</sup> année)</b>	<b>Zweig: Winkel zwischen den ersten 5 cm des Zweiges und dem Haupttrieb im mittleren Drittel des Haupttriebes (Zeitpunkt: Herbst des 1. Jahres)</b>	<b>Rama: ángulo entre los primeros 5 cm de la rama y la rama principal en el tercio medio de la rama principal (época: otoño del 1<sup>o</sup> año)</b>		
<b>QN</b>	very small	très petit	sehr klein	muy pequeño		1
	small	petit	klein	pequeño	Resolution	3
	medium	moyen	mittel	medio	Karin	5
	large	grand	groß	grande	Doris	7
	very large	très grand	sehr groß	muy grande		9
<b>11. (*)</b>	<b>(b) Branch: attitude</b>	<b>Rameau: port</b>	<b>Zweig: Haltung</b>	<b>Rama: porte</b>		
<b>PQ</b>	curved up	incurvé vers le haut	aufwärts gebogen	curvada hacia arriba	Orm	1
	straight	droit	gerade	recta	Olaf	2
	drooping	retombant	überhängend	colgante	Pendula	3
	first curved down, then curved up	incurvé vers le bas, puis vers le haut	erst abwärts, dann aufwärts gebogen	curvada primero hacia abajo y luego hacia arriba		4

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>12.</b>	<b>(b) Branch: color (c) (sunny side)</b>	<b>Rameau: couleur (face ensoleillée)</b>	<b>Zweig: Farbe (Sonnenseite)</b>	<b>Rama: color (parte soleada)</b>		
<b>PQ</b>	yellow green	vert jaune	gelbgrün	verde amarillento		1
	grey green	gris vert	graugrün	verde-gris	<b>Unn</b>	2
	green	gris	grün	verde		3
	grey brown	brun gris	graubraun	marrón grisáceo	<b>Stott 10</b>	4
	red brown	brun rouge	rotbraun	marrón rojizo	<b>Boberg</b>	5
	brown	brun	braun	marrón	<b>Karin</b>	6
<b>13.</b>	<b>(d) Leaf blade: length of (* midrib)</b>	<b>Limbe: longueur de la nervure principale</b>	<b>Blattspreite: Länge der Mittelrippe</b>	<b>Limbo: longitud del nervio central</b>		
<b>QN</b>	very short	très courte	sehr kurz	muy pequeño	<b>Armando</b>	1
	short	courte	kurz	pequeño	<b>Vidi</b>	3
	medium	moyenne	mittel	medio	<b>Doris</b>	5
	long	longue	lang	grande	<b>A. Parfitt</b>	7
	very long	très longue	sehr lang	muy grande		9
<b>14.</b>	<b>(d) Leaf blade: width (* )</b>	<b>Limbe: largeur</b>	<b>Blattspreite: Breite</b>	<b>Limbo: anchura</b>		
<b>QN</b>	very narrow	très étroit	sehr schmal	muy estrecho	<b>Armando</b>	1
	narrow	étroit	schmal	estrecho	<b>Karin</b>	3
	medium	moyen	mittel	medio	<b>A. Parfitt</b>	5
	broad	large	breit	ancho	<b>Vidi</b>	7
	very broad	très large	sehr breit	muy ancho		9
<b>15.</b>	<b>(d) Leaf blade: position of maximum width</b>	<b>Limbe: position de la largeur maximale</b>	<b>Blattspreite: Position der maximalen Breite</b>	<b>Limbo: posición del ancho máximo</b>		
<b>QN</b>	below the middle	en dessous du milieu	unterhalb der Mitte	debajo de la mitad	<b>Karin</b>	1
	approximately at the middle	à peu près au milieu	etwa in der Mitte	aproximadamente en la mitad	<b>Vidi</b>	2
	above the middle	au-dessus du milieu	oberhalb der Mitte	encima de la mitad	<b>Pendula</b>	3

	English	français	deutsch	español	Example Varieties Exemples Beispielsorten Variedades ejemplo	Note/ Nota
<b>16. (* (+)</b>	<b>(d) Leaf blade: shape of base</b>	<b>Limbe: forme de la base</b>	<b>Blattspreite: Form der Basis</b>	<b>Limbo: forma de la base</b>		
<b>PQ</b>	acuminate	acuminée	zugespitzt	acuminada		1
	acute	aiguë	spitz	aguda	Prinzeninsel Plön	2
	rounded	arrondie	abgerundet	redondeada	Super White	3
	obtuse	obtuse	rundlich keilförmig	obtusa		4
	truncate	tronquée	gerade	truncada		5
	cordate	cordiforme	herzförmig	cordiforme	SHS	6
<b>17.</b>	<b>(d) Leaf blade: color of upper side</b>	<b>Limbe: couleur de la face supérieure</b>	<b>Blattspreite: Farbe der Oberseite</b>	<b>Limbo: color del haz</b>		
<b>PQ</b>	yellow green	vert jaune	gelbgrün	amarillo verdoso	Gold Leaf	1
	light green	vert clair	hellgrün	verde claro		2
	medium green	vert moyen	mittelgrün	verde medio	Flamingo, Hild	3
	dark green	vert foncé	dunkelgrün	verde oscuro		4
	grey green	gris vert	graugrün	verde-gris		5
	blue green	bleu vert	blaugrün	verde azulado		6
	red green	vert rouge	rotgrün	verde rojizo		7
<b>18.</b>	<b>(d) Leaf blade: hairiness of upper side</b>	<b>Limbe: pilosité de la face supérieure</b>	<b>Blattspreite: Behaarung der Oberseite</b>	<b>Limbo: vellosoidad del haz</b>		
<b>QN</b>	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Flamingo	1
	weak	faible	gering	débil	Aud	3
	medium	moyenne	mittel	media	Hild	5
	strong	forte	stark	fuerte		7
	very strong	très forte	sehr stark	muy fuerte		9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>19.</b>	<b>(d) Leaf blade: hairiness of lower side</b>	<b>Limbe: pilosité de la face inférieure</b>	<b>Blattspreite: Behaarung der Unterseite</b>	<b>Limbo: velloso del envés.</b>		
<b>QN</b>	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil		1
	weak	faible	gering	débil	Flamingo	3
	medium	moyenne	mittel	media		5
	strong	forte	stark	fuerte		7
	very strong	très forte	sehr stark	muy fuerte	Ivar, Sherwood	9
<b>20.</b>	<b>Petiole: length (* )</b>	<b>Pétiole: longueur</b>	<b>Blattstiel: Länge</b>	<b>Pecíolo: longitud</b>		
<b>QN</b>	very short	très court	sehr kurz	muy corto		1
	short	court	kurz	corto	F-65-02	3
	medium	moyen	mittel	medio	Garonne 47	5
	long	long	lang	largo	259/64 ( <i>S. x smithiana</i> Willd.)	7
	very long	très long	sehr lang	muy largo		9
<b>21.</b>	<b>Petiole: color of upper side</b>	<b>Pétiole: couleur de la face supérieure</b>	<b>Blattstiel: Farbe der Oberseite</b>	<b>Pecíolo: color del haz</b>		
<b>PQ</b>	yellow green	vert jaune	gelbgrün	verde amarillento	.	1
	green	vert	grün	verde		2
	red green	vert rouge	rotgrün	verde rojizo		3
	violet green	vert violet	violettgrün	verde violeta	F-65-02, Garonne 47	4
<b>22.</b>	<b>Stipule: length</b>	<b>Stipule: longueur</b>	<b>Nebenblatt: Länge</b>	<b>Estípula: longitud</b>		
<b>QN</b>	very short	très court	sehr kurz	muy corta		1
	short	court	kurz	corta	259/64 ( <i>S. x smithiana</i> Willd.)	3
	medium	moyen	mittel	media	Super White	5
	long	long	lang	larga	Mangahn	7
	very long	très long	sehr lang	muy larga	Jodis	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>23.</b>	<b>Stipule: type</b>	<b>Stipule: type</b>	<b>Nebenblatt: Typ</b>	<b>Estípula: tipo</b>		
(+)						
<b>PQ</b>	type 1	type 1	Typ 1	tipo 1		1
	type 2	type 2	Typ 2	tipo 2		2
	type 3	type 3	Typ 3	tipo 3		3

8. Explanations 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:

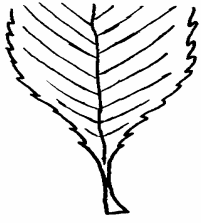
- (a) All observations on the plant sex and spring foliation should be made at beginning of growth after winter dormancy.
- (b) All observations on the main shoot and the branches should be made in autumn.
- (c) Hairiness and color should be observed at 20 cm from the tip of the main shoot.
- (d) All observations on the leaf should be made in the middle of the growing period on leaves of the middle third of the main shoot.

8.2 *Explanations for individual characteristics*

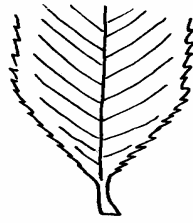
Add. 6: Main shoot: protrusion of lenticel

All observations on the lenticels should be made in the observed middle third of the main shoot.

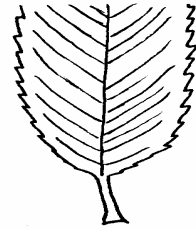
Ad. 16: Leaf blade: shape of base



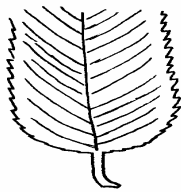
1  
acuminate



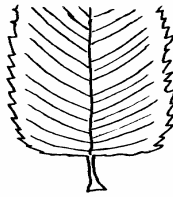
2  
acute



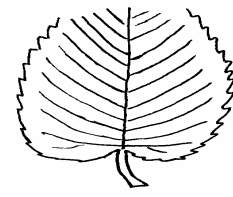
3  
rounded



4  
obtuse



5  
truncate

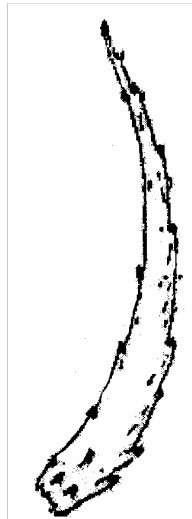


6  
cordate

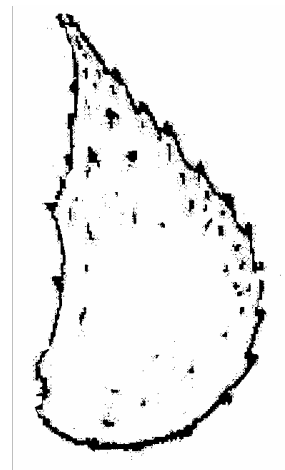
Ad. 23: Stipule: type



type 1



type 2



type 3



9. Literature

Newsholme, Christopher "Willows, the genus Salix." London, B. T. Batsford Ltd., Great Britain, 1992.

Schiechtl, H. M. "Weiden in der Praxis" Patzer Verlag, Hannover, 1992.

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
<b>TECHNICAL QUESTIONNAIRE</b> to be completed in connection with an application for plant breeders' rights		
1. Subject of the Technical Questionnaire		
1.1 Botanical Name	<input type="text" value="SalixL."/>	
1.2 Common Name	<input type="text" value="Willow"/>	
2. Applicant		
Name	<input type="text"/>	
Address	<input type="text"/>	
Telephone No.	<input type="text"/>	
Fax No.	<input type="text"/>	
E-mail address	<input type="text"/>	
Breeder (if different from applicant)	<input type="text"/>	
3. Proposed denomination and breeder's reference		
Proposed denomination (if available)	<input type="text"/>	
Breeder's reference	<input type="text"/>	

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

- (a) cuttings  [ ]
- (b) *in vitro* propagation  [ ]
- (c) other (state method)  [ ]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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
<b>5.1 Plant: sex</b> (1)		
dioecious female	Tora	1[ ]
dioecious male	Björn	2[ ]
monoecious unisexual		3[ ]
monoecious hermaphrodite		4[ ]
<b>5.2 Plant: spring foliation</b> (2)		
very early	I - 3 - 58	1[ ]
early	Godesberg	3[ ]
medium	Metz	5[ ]
late	F - 65 - 02	7[ ]
very late	Mangahn	9[ ]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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 <b>similar</b> variety(ies)	Describe the expression of the characteristic(s) for <b>your</b> candidate variety
<i>Example</i>	<i>Plant: spring foliage</i>	<i>medium</i>	<i>early</i>

Comments:

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

7.3 Other information

A representative color photograph of the variety should accompany the Technical Questionnaire.

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.

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# 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:
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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]