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INTERNATIONAL UNION  
FOR THE PROTECTION  
OF NEW VARIETIES OF  
PLANTS

UNION INTERNATIONALE  
POUR LA PROTECTION  
DES OBTENTIONS  
VÉGÉTALES

INTERNATIONALER  
VERBAND ZUM SCHUTZ  
VON PFLANZEN-  
ZÜCHTUNGEN

UNIÓN INTERNACIONAL  
PARA LA PROTECCIÓN  
DE LAS OBTENCIÓNES  
VEGETALES

DRAFT

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

EUROPEAN PLUM

(*Prunus domestica* L.)

These Guidelines should be read in conjunction with document TG/1/2, which contains explanatory notes on the general principles on which the Guidelines have been established.

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## I. Subject of these Guidelines

These Test Guidelines apply to all vegetatively propagated varieties for fruit production of *Prunus domestica* L. including its subspecies.

## II. Material Required

1. The competent authorities decide when, where and in what quantity and quality the plant material required for testing the variety 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 are complied with. As a minimum, the following quantity of plant material is recommended:

five one-year-old grafted trees.

It is recommended that one, and only one in each trial, of the following rootstock varieties should be used: 'Saint-Julien d'Orléans' or 'Myrobalan B' or any other rootstock specified by the competent authorities.

2. The plant material supplied should be visibly healthy, not lacking in vigor or affected by any important pests or diseases and should especially be free from viruses as required by the competent authority. It should preferably not be obtained from *in vitro* propagation. If it has been produced by *in vitro* propagation this fact must be stated by the applicant.

3. The plant material must not have undergone any treatment unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

## III. Conduct of Tests

1. It is essential that the plants under test should produce at least two satisfactory crops of fruit for the examination.

2. The tests should normally be conducted at one place. If any important characteristics of the variety cannot be seen at that place, the variety may be tested at an additional place.

3. The tests should be carried out under conditions ensuring normal growth. As a minimum, each test should include a total of 5 trees. Separate plots for observation and for measuring can only be used if they have been subject to similar environmental conditions.

4. Additional tests for special purposes may be established.

#### IV. Methods and Observations

1. Unless otherwise stated, all observations determined by measurement, weighing and counting should be made on 5 plants or 10 parts, 2 from each of 5 plants. All observations on the fruit should be made on a minimum of 10 typical fruits, 2 from each fruit tree.
2. For 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.
3. Unless otherwise stated, all observations on the tree and on the one-year-old shoot should be made during winter on trees that have fruited at least once. The thickness of the shoot and the length of internodes should be observed in the middle of the shoot.
4. All observations on the vegetative bud should be made on one-year-old shoots.
5. Unless otherwise stated, all observations on the leaf should be made in summer on fully developed leaves from the middle third of a current season's shoot.
6. Unless otherwise stated, all observations on the flower should be made on fully developed flowers at the beginning of anther dehiscence.

#### V. Grouping of Varieties

1. The collection of varieties to be grown should be divided into groups to facilitate the assessment of distinctness. Characteristics which are suitable for grouping purposes are those which are known from experience not to vary, or to vary only slightly within the variety. Their various states of expression should be fairly evenly distributed throughout the collection.
2. It is recommended that the competent authorities use the following characteristics for grouping varieties:
  - (a) Fruit: size (characteristic 43)
  - (b) Fruit: shape in lateral view (characteristic 44)
  - (c) Fruit: ground color of skin (after removing bloom) (characteristic 50)
  - (d) Time of beginning of flowering (characteristic 61)
  - (e) Time of beginning of fruit ripening (characteristic 62)

#### VI. Characteristics and Symbols

1. To assess distinctness, uniformity and stability, the characteristics and their states as given in the Table of Characteristics should be used.
2. Notes (numbers), for the purposes of electronic data processing, are given opposite the states of expression for each characteristic.

3. Legend:

- (\*) Characteristics that should be used on all varieties in every growing period over which examinations are made and always be included in the variety descriptions, except when the state of expression of a preceding characteristic or regional environmental conditions render this impossible.
- (+) See Explanations on the Table of Characteristics in Chapter VIII.

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

English	français	deutsch	español	Example Varieties Exemples Beispielsorten Variedades ejemplo	Note/ Nota
<b>1. Tree: vigor</b>	<b>Arbre: vigueur</b>	<b>Baum: Wuchsstärke</b>	<b>Árbol: vigor</b>		
(+)					
weak	faible	gering	débil	Ruth Gerstetter	3
medium	moyenne	mittel	medio	Felsina, Victoria	5
strong	forte	stark	fuerte	Valor	7
<b>2. Tree: density of crown</b>	<b>Arbre: densité de la couronne</b>	<b>Baum: Kronendichte</b>	<b>Árbol: densidad de la copa</b>		
sparse	faible	locker	laxa	Čačanska najbolja, Reine Claude verte	3
medium	moyenne	mittel	media	Anna Späth, d'Ente	5
dense	dense	dicht	densa	Mirabelle de Nancy	7
<b>3. One-year-old shoot: attitude</b>	<b>Pousse d'un an: port</b>	<b>Einjähriger Trieb: Stellung</b>	<b>Rama de un año: porte</b>		
erect	dressé	aufrecht	erecto	Čačanska Julia, Empress, Reine Claude de Bavay	1
semi-erect	demi-dressé	halbaufrecht	semierecto	d'Ente, Hanita	3
horizontal	horizontal	waagerecht	horizontal	Graf Brühl, Gräfin Cosel, Reine Claude verte	5
drooping	retombant	hängend	colgante	Primacotes	7
<b>4. One-year-old shoot: thickness</b>	<b>Pousse d'un an: grosseur</b>	<b>Einjähriger Trieb: Dicke</b>	<b>Rama de un año: grosor</b>		
thin	fine	dünn	delgada	Precoce de Tour, Victor Christian	3
medium	moyenne	mittel	medianas	Reine Claude verte	5
thick	grosse	dick	gruesa	Reine Claude de Bavay	7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>5.</b> One-year-old shoot: length of internodes	<b>Pousse d'un an: longueur des entreœuds</b>	<b>Einjähriger Trieb: Länge der Internodien</b>	<b>Rama de un año: longitud de los entrenudos</b>		
short	courts	kurz	cortos	Andrierez Plum, California Blue	3
medium	moyens	mittel	medios	Anna Späth, Reine Claude verte	5
long	longs	lang	largos	Angelina Burdett, Reine Claude de Bavay	7
<b>6.</b> One-year-old shoot: pubescence (upper third)	<b>Pousse d'un an: pilosité (tiers supérieur)</b>	<b>Einjähriger Trieb: Behaarung (oberes Drittel)</b>	<b>Rama de un año: pubescencia (en el tercio superior)</b>		
weak	faible	gering	débil	d'Ente, Felsina	3
medium	moyenne	mittel	media	Reine Claude verte, Top	5
strong	élevée	stark	fuerte	The Czar	7
<b>7.</b> One-year-old shoot: number of lenticels	<b>Pousse d'un an: nombre de lenticelles</b>	<b>Einjähriger Trieb: Anzahl Lentizellen</b>	<b>Rama de un año: número de lenticelas</b>		
few	faible	gering	bajo	Anna Späth, Hauszwetsche	3
medium	moyen	mittel	medio	d'Ente, Gräfin Cosel	5
many	élevé	groß	alto	Graf Brühl, Reine Claude de Bavay	7
<b>8.</b> One-year-old shoot: size of vegetative bud	<b>Pousse d'un an: taille du bourgeon à bois</b>	<b>Einjähriger Trieb: Größe der Blattknospe</b>	<b>Rama de un año: tamaño de la yema de madera</b>		
small	petit	klein	pequeña	Elena, Althanova	3
medium	moyen	mittel	media	d'Ente, Empress	5
large	gros	groß	grande	Golden Transparent	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
9.	<b>One-year-old shoot: shape of vegetative bud</b>	<b>Pousse d'un an: forme du bourgeon à bois</b>	<b>Einjähriger Trieb: Form der Blattknospe</b>	<b>Rama de un año: forma de la yema de madera</b>		
(+)	acute	pointu	spitz	aguda	Anna Späth, Bountiful	1
	obtuse	obtus	stumpf	obtusa	Reine Claude d'Oullins	2
	rounded	arrondi	abgerundet	redondeada	Herman	3
10.	<b>One-year-old shoot: position of vegetative bud in relation to shoot</b>	<b>Pousse d'un an: position du bourgeon à bois par rapport au rameau</b>	<b>Einjähriger Trieb: Stellung der Blattknospe im Verhältnis zum Trieb</b>	<b>Rama de un año: posición de la yema de madera en relación con la rama</b>		
(+)	adpressed	appliqué	anliegend	alineada	Anna Späth, Marjorie's Seedling	1
	slightly held out	légèrement décollé	etwas abstehend	ligeramente divergente	Coes Golden Drop, Hanita	2
	markedly held out	nettement décollé	deutlich abstehend	fuertemente divergente	Herman, Victoria	3
11.	<b>One-year-old shoot: size of vegetative bud support</b>	<b>Pousse d'un an: taille du support du bourgeon à bois</b>	<b>Einjähriger Trieb: Größe des Wulstes der Blattknospe</b>	<b>Rama de un año: tamaño del soporte de la yema de madera</b>		
(+)	small	petit	klein	pequeño	Belle de Louvein, Hanita	3
	medium	moyen	mittel	medio	The Czar, Felsina	5
	large	grand	groß	grande	Elena, Reine Claude d'Oullins	7
12.	<b>One-year-old shoot: decurrence of vegetative bud support</b>	<b>Pousse d'un an: décurrence du support du bourgeon à bois</b>	<b>Einjähriger Trieb: Auslaufen des Wulstes der Blattknospe</b>	<b>Rama de un año: decurrencia del soporte de la yema de madera</b>		
(+)	absent	absente	fehlend	ausente	Coe's Golden Drop	1
	present	présente	vorhanden	presente	Laxton's Cropper	9

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13. <b>Young shoot: anthocyanin coloration of growing tip (during rapid growth)</b>	<b>Jeune rameau: pigmentation anthocyane de l'extrémité (en cours de croissance rapide)</b>	<b>Junger Trieb: Anthocyanfärbung der Triebspitze (während des schnellen Wachstums)</b>	<b>Rama joven: pigmentación antociánica del ápice de crecimiento (durante el crecimiento rápido)</b>		
weak	faible	gering	débil	Herman, Reine Claude d'Oullins	3
medium	moyenne	mittel	media	Anna Späth, Hanita, Hauszwetsche	5
strong	forte	stark	fuerte	Cambridge Gage, Felsina	7
14. <b>Leaf blade: attitude in relation to shoot (+)</b>	<b>Limbe: position par rapport au rameau</b>	<b>Blattspreite: Stellung im Verhältnis zum Trieb</b>	<b>Limbo: porte en relación con la rama</b>		
upwards	oblique vers le haut	aufwärts	ascendente		1
outwards	perpendiculaire	abstehend	perpendicular	Early Laxton	2
downwards	oblique vers le bas	hängend	descendente	Victoria	3
15. <b>Leaf blade: length</b>	<b>Limbe: longueur</b>	<b>Blattspreite: Länge</b>	<b>Limbo: longitud</b>		
short	court	kurz	corto	Ruth Gerstetter	3
medium	moyen	mittel	medio	Graf Brühl, Reine Claude verte	5
long	long	lang	largo	Anna Späth, d'Ente	7
16. <b>Leaf blade: width</b>	<b>Limbe: largeur</b>	<b>Blattspreite: Breite</b>	<b>Limbo: anchura</b>		
narrow	étroit	schmal	estrecho	d'Ente, Hanita	3
medium	moyen	mittel	medio	Graf Brühl, Reine Claude verte	5
broad	large	breit	ancho	Nordens, Valor	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17. (*)	<b>Leaf blade: ratio length/width</b>	<b>Limbe: rapport longueur/largeur</b>	<b>Blattspreite: Verhältnis Länge/Breite</b>	<b>Limbo: relación entre la longitud y la anchura</b>		
	small	faible	klein	pequeña	Nordens, Valor	3
	medium	moyen	mittel	media	d'Ente, Hanita	5
	large	élevé	groß	grande	Anna Späth, Felsina, Hauszwetsche	7
18. (*) (+)	<b>Leaf blade: shape</b>	<b>Limbe: forme</b>	<b>Blattspreite: Form</b>	<b>Limbo: forma</b>		
	ovate	ovale	eiförmig	oval		1
	elliptic	elliptique	elliptisch	elíptico	d'Ente, Top	2
	obovate	obovale	verkehrt eiförmig	oboval	Allgrove's Superb, Hanita	3
19. (+)	<b>Leaf blade: angle of apex (excluding tip)</b>	<b>Limbe: angle du sommet (hors extrémité)</b>	<b>Blattspreite: Winkel an der Spitze (ohne aufgesetzte Spitze)</b>	<b>Limbo: ángulo del extremo (excluyendo el ápice)</b>		
	acute	aigu	spitz	agudo	Anna Späth, Damson Prune	1
	right-angled	droit	rechtwinklig	en ángulo recto	d'Ente, Gräfin Cosel	2
	obtuse	obtus	stumpf	obtuso	Graf Brühl, Pershore	3
20. (*) (+)	<b>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>		
	acute	pointue	spitz	aguda	Katinka, Top, Verity	1
	obtuse	obtuse	stumpf	obtusa	Anna Späth, Hanita	2
	truncate	tronquée	gerade	truncada	Marjorie's Seedling	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>21.</b>	<b>Leaf blade: green color of upper side</b>	<b>Limbe: couleur verte de la face supérieure</b>	<b>Blattspreite: Grünfärbung der Oberseite</b>	<b>Limbo: color verde del haz</b>		
	light	claire	hell	claro	Ersinger Frühzwetsche	3
	medium	moyenne	mittel	medio	d'Ente, Katinka, Opal	5
	dark	foncée	dunkel	oscuro	Anna Späth, Elena	7
<b>22.</b>	<b>Leaf blade: glossiness of upper side</b>	<b>Limbe: brillance de la face supérieure</b>	<b>Blattspreite: Glanz der Oberseite</b>	<b>Limbo: brillo del haz</b>		
	weak	faible	gering	débil	Early Rivers	3
	medium	moyenne	mittel	medio	Shropshire Damson	5
	strong	élevée	stark	fuerte	President	7
<b>23.</b>	<b>Leaf blade: pubescence of lower side</b>	<b>Limbe: pilosité de la face inférieure</b>	<b>Blattspreite: Behaarung der Unterseite</b>	<b>Limbo: pubescencia del envés</b>		
	absent	nulle	fehlend	ausente	Reine Claude verte	1
	present	présente	vorhanden	presente	Anna Späth	9
<b>24.</b>	<b>Leaf blade: incisions of margin (+)</b>	<b>Limbe: incisions du bord</b>	<b>Blattspreite: Randeinschnitte</b>	<b>Limbo: incisiones del borde</b>		
	crenate	crénelées	gekerbt	crenadas	Hanita, Reine Claude d'Oullins	1
	serrate	en dents de scie	gesägt	aserradas	Anna Späth, Golden Bullace	2
<b>25.</b>	<b>Petiole: length</b>	<b>Pétiole: longueur</b>	<b>Blattstiell: Länge</b>	<b>Pecíolo: longitud</b>		
	short	court	kurz	corto	Althanova	3
	medium	moyen	mittel	medio	d'Ente, Felsina	5
	long	long	lang	largo	Victoria	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>26.</b>	<b>Petiole: pubescence of upper side</b>	<b>Pétiole: pilosité de la face supérieure</b>	<b>Blattstiel: Behaarung der Oberseite</b>	<b>Pecíolo: pubescencia de la parte superior</b>		
	weak	faible	schwach	débil	Ruth Gerstetter, Hanita, Althanova	3
	medium	moyenne	mittel	media	d'Ente, Empress	5
	strong	forte	stark	fuerte	Herman, Professeur Collumbien	7
<b>27.</b>	<b>Leaf: ratio length of leaf blade/length of petiole</b>	<b>Feuille: rapport longueur du limbe/longueur du pétiole</b>	<b>Blattstiel: Verhältnis Länge der Blattspreite/Länge des Blattstiels</b>	<b>Hoja: relación entre la longitud del limbo y la longitud del pecíolo</b>		
	small	faible	klein	pequeña	Graf Brühl, Reine Claude verte	3
	medium	moyen	mittel	media	d'Ente, Hanita	5
	large	élévé	groß	grande	Hauszwetsche Typ Schüfer	7
<b>28.</b>	<b>Leaf: presence of nectaries</b>	<b>Feuille: présence de nectaires</b>	<b>Blatt: Vorhandensein von Nektarien</b>	<b>Hoja: presencia de nectarios</b>		
	absent	absents	fehlend	ausentes	Anna Späth, Jefferson	1
	present	présents	vorhanden	presentes	Grand Duke, Victoria	9
<b>29.</b>	<b>Leaf: position of nectaries</b>	<b>Feuille: position des nectaires</b>	<b>Blattstiel: Sitz der Nektarien</b>	<b>Hoja: posición de los nectarios</b>		
	predominantly on base of blade	le plus souvent à la base du limbe	vorwiegend an der Basis der Spreite	predominantemente en la base del limbo	Reine Claude de Bavay, Mirabelle de Metz	1
	equally on base of blade and petiole	également à la base du limbe et sur le pétiole	gleichermaßen an der Basis der Spreite und am Stiel	igualmente en la base del limbo y en el pecíolo	d'Ente, Reine Claude verte	2
	predominantly on petiole	le plus souvent sur le pétiole	vorwiegend am Stiel	predominantemente en el pecíolo	Althanova	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>30.</b>	<b>Flowering shoot: number of flowers</b>	<b>Rameau florifère: nombre de fleurs</b>	<b>Blühender Trieb: Anzahl Blüten</b>	<b>Rama floral: número de flores</b>		
	few	faible	gering	bajo	d'Ente	3
	medium	moyen	mittel	medio	Felsina, Reine Claude de Bavay	5
	many	élevé	groß	alto	Elena, Grand Prize	7
<b>31.</b>	<b>Flower: diameter (fully opened flowers)</b> (*)	<b>Fleur: diamètre (à plein épanouissement)</b>	<b>Blüte: Durchmesser (bei voll geöffneter Blüte)</b>	<b>Flor: diámetro (flores completamente abiertas)</b>		
	small	petit	klein	pequeño	Early Laxton, Elena, Hanita	3
	medium	moyen	mittel	medio	Herman, Victoria, Ruth Gerstetter	5
	large	grand	groß	grande	Čačanska najbolja, Felsina, Reine Claude d'Oullins	7
<b>32.</b>	<b>Pedicel: length</b>	<b>Pédoncule: longueur</b>	<b>Blütenstiellänge</b>	<b>Pedicelo: longitud</b>		
	short	court	kurz	corto	Reine Claude de Bavay, Ruth Gerstetter	3
	medium	moyen	mittel	medio	Ersinger Frühzwetsche, Reine Claude verte	5
	long	long	lang	largo	d'Ente, Felsina, Ortenauer	7
	very long	très long	sehr lang	muy largo	Graf Brühl	9
<b>33.</b>	<b>Pedicel: pubescence</b>	<b>Pédoncule: pilosité</b>	<b>BlütenstiellBehaarung</b>	<b>Pedicelo: pubescencia</b>		
	absent	absente	fehlend	ausente	Čačanska najbolja, Elena	1
	present	présente	vorhanden	presente	Ersinger Frühzwetsche	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>34.</b> (+)	<b>Calyx: attitude of sepals</b>	<b>Calice: position des sépales</b>	<b>Kelch: Stellung der Kelchblätter</b>	<b>Cáliz: porte de los sépalos</b>		
	adpressed to petals	appliqués aux pétales	anliegend am Blütenblatt	alineado con los pétalos	Hanita, Marjorie's Seedling	1
	touching neither petals nor receptacle	écartés à la fois des pétales et du réceptacle	weder Blütenblatt noch Blütenboden berührend	sin tocar ni los pétalos ni el receptáculo	Anna Späth, Reine Claude d'Oullins	2
	touching receptacle	appliqués au réceptacle	anliegend am Blütenboden	tocando el receptáculo	Čačanska rana, Washington	3
<b>35.</b> (*) (+)	<b>Sepal: shape</b>	<b>Sépale: forme</b>	<b>Kelchblatt: Form</b>	<b>Sépalo: forma</b>		
	narrow elliptic	elliptique allongé	schmal elliptisch	elíptico estrecho	Prugna d'Italia, Hauszwetsche	1
	elliptic	elliptique	elliptisch	elíptico	Reine Claude d'Oullins	2
	ovate	ovale	eiförmig	oval	Washington, Coe's Golden Drop	3
	broad ovate	ovale arrondi	breit eiförmig	oval ancho	The Czar	4
	triangular	triangulaire	dreieckig	triangular	Kirke's	5
<b>36.</b> (*) (+)	<b>Flower: arrangement of petals</b>	<b>Fleur: arrangement des pétales</b>	<b>Blüte: Anordnung der Blütenblätter</b>	<b>Flor: disposición de los pétalos</b>		
	free	libres	freistehend	libres	Anna Späth, Prugna d'Italia	1
	touching	soudés	berührend	tocándose	Coe's Golden Drop, Empress	2
	overlapping	chevauchants	überlappend	superponiéndose	Ontario, Ruth Gerstetter	3
<b>37.</b> (*)	<b>Petal: size</b>	<b>Pétale: taille</b>	<b>Blütenblatt: Größe</b>	<b>Pétalo: tamaño</b>		
	small	petit	klein	pequeño	Golden Bullace	3
	medium	moyen	mittel	medio	Königin Victoria	5
	large	grand	groß	grande	Reine Claude d'Oullins	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>38.</b> <small>(*) (+)</small>	<b>Petal: shape</b>	<b>Pétale: forme</b>	<b>Blütenblatt: Form</b>	<b>Pétalo: forma</b>		
	elliptic	elliptique	elliptisch	elíptico	Anna Späth, Opal	1
	broad elliptic	elliptique large	breit elliptisch	elíptico ancho	Graf Brühl	2
	circular	arrondi	rundlich	circular	The Czar, Althanova	3
	ovovate	obovale	verkehrt eiförmig	oval	Gräfin Cosey, Herman	4
<b>39.</b>	<b>Petal: undulation of margin</b>	<b>Pétale: ondulation du bord</b>	<b>Blütenblatt: Wellung des Randes</b>	<b>Pétalo: ondulación del borde</b>		
	absent	absente	fehlend	ausente	Red Magnum	1
	present	présente	vorhanden	presente	Anna Späth	9
<b>40.</b>	<b>Stigma: position in relation to anthers</b>	<b>Stigmate: position par rapport aux anthères</b>	<b>Narbe: Stellung im Verhältnis zu den Staubbeuteln</b>	<b>Estigma: posición en relación con las anteras</b>		
	below	au-dessous	unterhalb	por debajo	Althanova, Ersinger Frühzwetsche	1
	at same level	au même niveau	in gleicher Höhe	al mismo nivel	Hanita, Graf Brühl, Prugna d'Italia	2
	above	au-dessus	oberhalb	por encima	Herman, Reine Claude verte	3
<b>41.</b>	<b>Anther: color (just before dehiscence)</b>	<b>Anthère: couleur (juste avant déhiscence)</b>	<b>Staubbeutel: Farbe (kurz vor dem Pollenstäuben)</b>	<b>Antera: color (justo antes de la dehiscencia)</b>		
	yellowish	jaunâtre	gelblich	amarillento	d'Ente, Hanita, Victoria	1
	reddish orange	orange rougeâtre	rötlichorange	naranja rojizo	Gräfin Cosey, Valor, Reine Claude verte	2
<b>42.</b> <small>(*)</small>	<b>Ovary: pubescence</b>	<b>Ovaire: pilosité</b>	<b>Fruchtknoten: Behaarung</b>	<b>Ovario: pubescencia</b>		
	absent	absente	fehlend	ausente	Hanita, Washington	1
	present	présente	vorhanden	presente	Anna Späth, Belle de Louvain	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>43.</b> <small>(*)</small>	<b>Fruit: size</b>	<b>Fruit: taille</b>	<b>Frucht: Größe</b>	<b>Fruto: tamaño</b>		
	very small	très petit	sehr klein	muy pequeño	Mirabelle de Nancy	1
	small	petit	klein	pequeño	Bonne de Bry, Hauszwetsche	3
	medium	moyen	mittel	medio	Hanita, Stanley	5
	large	gros	groß	grande	Nordens, Reine Claude d'Oullins	7
	very large	très gros	sehr groß	muy grande	Giant	9
<b>44.</b> <small>(*)</small> <small>(+)</small>	<b>Fruit: shape in lateral view</b>	<b>Fruit: forme en vue latérale</b>	<b>Frucht: Form in der Seitenansicht</b>	<b>Fruto: forma (en vista lateral)</b>		
	oblong	oblong	länglich	oblongo	Grand Prize	1
	elliptic	elliptique	elliptisch	elíptico	Empress, Victoria	2
	circular	arrondi	kugelförmig	circular	Fortune, Mirabelle de Nancy	3
	oblate	aplati	breitrund	achatado	Althanova	4
	ovate	ovale	eiförmig	oval	Hanita, Stanley, Valjevka	5
	obovate	obovale	verkehrt eiförmig	oboval	Elena, President	6
<b>45.</b> <small>(*)</small>	<b>Fruit: symmetry (in ventral view)</b>	<b>Fruit: symétrie (en vue de face)</b>	<b>Frucht: Symmetrie (bauchseits)</b>	<b>Fruto: simetría (en vista ventral)</b>		
	symmetric	symétrique	symmetrisch	simétrico	Reine Claude verte	1
	asymmetric	asymétrique	asymmetrisch	asimétrico	Angelina Burdett, Anna Späth	2
<b>46.</b> <small>(*)</small>	<b>Fruit: depth of suture towards stalk end</b>	<b>Fruit: profondeur de la suture vers l'extrémité pédonculaire</b>	<b>Frucht: Tiefe der Naht zum Stielende hin</b>	<b>Fruto: profundidad de la sutura hacia el extremo peduncular</b>		
	shallow	faible	flach	poco profunda	Hanita, Reine Claude Tardive de Chambourcy	3
	medium	moyenne	mittel	media	Reine Claude de Bavay	5
	deep	forte	tief	profunda		7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>47.</b>	<b>Fruit: depression at apex</b>	<b>Fruit: cuvette pistillaire</b>	<b>Frucht: Einsenkung am Scheitel</b>	<b>Fruto: depresión del ápice</b>		
	absent or weak	absente ou faible	fehlend oder gering	ausente o débil	Jefferson, Reine Claude verte	1
	intermediate	moyenne	mittel	media	Reine Claude d'Oullins	2
	strong	forte	stark	fuerte	Victoria	3
<b>48.</b>	<b>Fruit: pubescence at apex</b>	<b>Fruit: pilosité au sommet</b>	<b>Frucht: Behaarung am Scheitel</b>	<b>Fruto: pubescencia del ápice</b>		
	absent	absente	fehlend	ausente	Ersinger Frühzwetsche, Ortenauer	1
	present	présente	vorhanden	presente	Anna Späth	9
<b>49.</b>	<b>Fruit: depth of stalk cavity</b>	<b>Fruit: profondeur de la cavité pédonculaire</b>	<b>Frucht: Tiefe der Stielhöhle</b>	<b>Fruto: profundidad de la cavidad peduncular</b>		
	shallow	faible	flach	poco profunda	Anna Späth, Hanita, Monsieur Jaune	3
	medium	moyenne	mittel	media	Graf Brühl, Reine Claude de Bavay	5
	deep	forte	tief	profunda	Bleue de Belgique, Gräfin Cosel	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>50.</b> <b>(*)</b>	<b>Fruit: ground color of skin (after removing bloom)</b>	<b>Fruit: couleur de fond de l'épiderme (sans la pruine)</b>	<b>Frucht: Grundfarbe der Haut (nach Entfernen der Bereifung)</b>	<b>Fruto: color de fondo de la epidermis (tras quitar la pruina)</b>		
	greenish white	blanc verdâtre	grünlichweiß	blanco verdoso	Reine Claude diaphane	1
	green	vert	grün	verde	Reine Claude verte	2
	yellowish green	vert jaunâtre	gelblichgrün	verde amarillento	Reine Claude d'Oullins	3
	yellow	jaune	gelb	amarillo	Drap d'Or d'Espéren	4
	orange yellow	jaune orangé	orangegelb	amarillo anaranjado	Emma Leppermann	5
	red	rouge	rot	rojo	Victoria	6
	light violet	violet clair	hellviolett	violeta claro	Althanova, Opal	7
	purplish violet	violet pourpre	purpurviolett	violeta púrpura	d'Ente	8
	dark violet	violet foncé	dunkelviolett	violeta oscuro	Anna Späth, Royale Blue	9
	violet blue	bleu violacé	violettblau	azul violáceo	Early Rivers, Valor	10
	dark blue	bleu foncé	dunkelblau	azul oscuro	Čačanska lepotica, Čačanska najbolja	11
<b>51.</b> <b>(*)</b>	<b>Fruit: color of flesh</b>	<b>Fruit: couleur de la chair</b>	<b>Frucht: Farbe des Fleisches</b>	<b>Fruto: color de la pulpa</b>		
	whitish	blanchâtre	weißlich	blanquecino		1
	green	vert	grün	verde	Ersinger Frühzwetsche, Reine Claude verte	2
	yellowish green	vert jaunâtre	gelblichgrün	verde amarillento	Anna Späth, Reine Claude d'Oullins, Ruth Gerstetter	3
	yellow	jaune	gelb	amarillo	Ariel, Graf Brühl, Monsieur Jaune	4
	orange	orange	orange	naranja	Early Transparent, Gräfin Cosel, Hanita	5
	red	rouge	rot	rojo	Bountiful	6

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>52.</b> (*)	<b>Fruit: firmness of flesh</b>	<b>Fruit: fermeté de la chair</b>	<b>Frucht: Festigkeit des Fleisches</b>	<b>Fruto: firmeza de la pulpa</b>		
	soft	molle	weich	blanda	Čačanska rodna, Empress, Gräfin Cosel	3
	medium	moyenne	mittel	media	Elena, Monsieur Jaune	5
	firm	ferme	fest	firme	Hauszwetsche, Nordens	7
<b>53.</b>	<b>Fruit: juiciness</b>	<b>Fruit: succulence</b>	<b>Frucht: Saftgehalt</b>	<b>Fruto: suculencia</b>		
	low	faible	niedrig	Baja	Hauszwetsche, Top	3
	medium	moyenne	mittel	Media	Anna Späth	5
	high	forte	hoch	Alta	Čačanska najbolja, Jefferson	7
<b>54.</b> (*)	<b>Fruit: degree of adherence of stone to flesh</b>	<b>Fruit: degré d'adhérence du noyau à la chair</b>	<b>Frucht: Stärke des Anhaftens des Steins am Fleisch</b>	<b>Fruto: grado de adherencia del hueso a la pulpa</b>		
	non-adherent	non adhérent	nicht anhaftend	no adherente	Hauszwetsche, Kirke's	1
	semi-adherent	semi-adhérent	teilweise anhaftend	semiadherente	Drap d'Or d'Espéren, Elena	2
	adherent	adhérent	anhaftend	adherente	Ersinger Frühzwetsche, Jefferson	3
<b>55.</b> (*) (+)	<b>Stone: general shape in lateral view</b>	<b>Noyau: forme générale en vue latérale</b>	<b>Stein: allgemeine Form in der Seitenansicht</b>	<b>Hueso: forma general en vista lateral</b>		
	narrow elliptic	elliptique étroit	schmal elliptisch	elíptico estrecho	Drap d'Or d'Espéren, Ortenauer	1
	elliptic	elliptique	elliptisch	elíptico	Graf Brühl, Washington	2
	circular	arrondi	kreisförmig	circular	Early Transparent, Mirabelle de Nancy	3

English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>56.</b> <small>(*) (+)</small>	<b>Stone: shape in ventral view</b>	<b>Noyau: forme en vue de face</b>	<b>Stein: Form bauchseits</b>	<b>Hueso: forma en vista ventral</b>		
	narrow elliptic	elliptique étroit	schmal elliptisch	elíptico estrecho	Hauszwetsche	1
	elliptic	elliptique	elliptisch	elíptico	Hanita, Washington	2
	broad elliptic	elliptique large	breit elliptisch	elíptico ancho	Gräfin Cosei, Reine Claude verte	3
	cuneate	cunéiforme	keilförmig	cuneiforme	President	4
<b>57.</b> <small>(+)</small>	<b>Stone: development of keel</b>	<b>Noyau: développement de la carène</b>	<b>Stein: Ausprägung des Kiels</b>	<b>Hueso: desarrollo de la quilla</b>		
	weak	faible	gering	débil	d'Ente, Herman, Stanley	3
	medium	moyen	mittel	medio	Anna Späth, Coes Golden Drop	5
	strong	fort	stark	fuerte	Althanova	7
<b>58.</b> <small>(+)</small>	<b>Stone: texture of lateral surfaces</b>	<b>Noyau: texture des surfaces latérales</b>	<b>Stein: Struktur der seitlichen Oberflächen</b>	<b>Hueso: textura de las superficies laterales</b>		
	grained	sableuse	körnig	granulosa	Chrudimer, Herman, The Czar	1
	hammered	martelée	gehämmert	martilleada	Anna Späth, Elena, Valor	2
<b>59.</b> <small>(+)</small>	<b>Stone: width at base</b>	<b>Noyau: troncature à la base</b>	<b>Stein: Breite an der Basis</b>	<b>Hueso: anchura en la base</b>		
	narrow	étroite	schmal	estrecho	Kirke's, Mirabelle de Nancy	3
	medium	moyenne	mittel	medio	Hanita, Marjorie's Seedling	5
	broad	large	breit	ancho	Gräfin Cosei, Washington	7

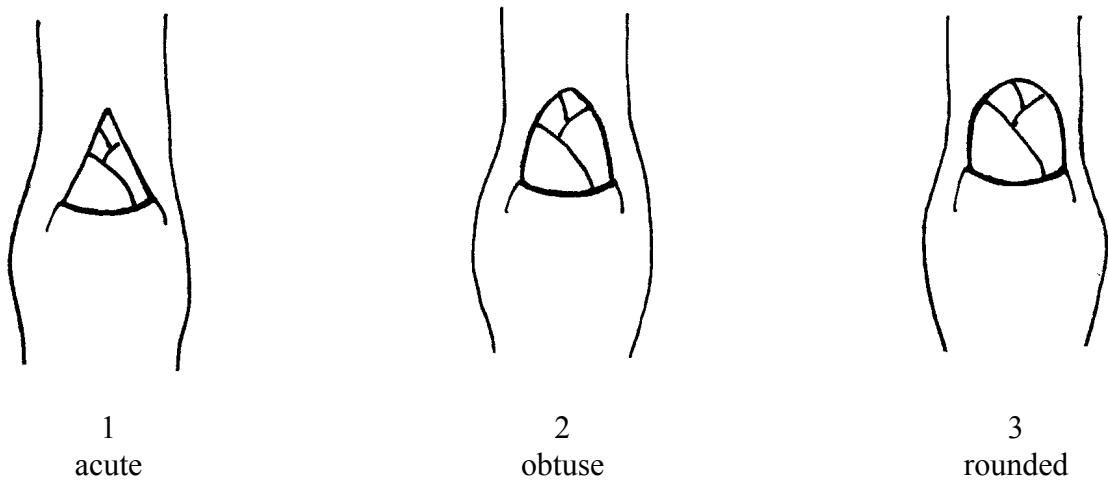
English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>60.</b> <b>(+)</b>	<b>Stone: shape of apex</b> <b>Noyau: forme du pôle</b>	<b>Stein: Form der Spitze</b>	<b>Hueso: forma del ápice</b>		
acute	pointu	spitz	agudo	Čačanska rodna, Ortenauer, The Czar	1
obtuse	obtus	stumpf	obtuso	Anna Späth, Hanita	2
rounded	arrondi	abgerundet	redondeado	Althanova, Monsieur Jaune	3
<b>61.</b> <b>(*)</b>	<b>Time of beginning of flowering</b>	<b>Époque de début de floraison</b>	<b>Zeitpunkt des Blühbeginns</b>	<b>Época del inicio de la floración</b>	
very early	très précoce	sehr früh	muy temprana	Graf Brühl, Lützelsachser Frühzwetsche	1
early	précoce	früh	temprana	Ruth Gerstetter, Utility	3
medium	moyenne	mittel	media	d'Ente, Hanita, Reine Claude verte	5
late	tardive	spät	tardía	Elena, Hauszwetsche	7
very late	très tardive	sehr spät	muy tardía	Hauszwetsche Typ Schüfer, Quetsche Blanche de Cétricourt	9
<b>62.</b> <b>(*)</b> <b>(+)</b>	<b>Time of beginning of fruit ripening</b>	<b>Époque de début de maturité des fruits</b>	<b>Zeitpunkt des Beginns der Fruchtreife</b>	<b>Época del comienzo de madurez del fruto</b>	
very early	très précoce	sehr früh	muy temprana	Ruth Gerstetter	1
early	précoce	früh	temprana	Bonne de Bry, Ersinger Frühzwetsche	3
medium	moyenne	mittel	media	Graf Brühl, Reine Claude verte	5
late	tardive	spät	tardía	Čačanska rodna, d'Ente	7
very late	très tardive	sehr spät	muy tardía	Elena, President, Reine Claude de Bavay	9

VIII. Explanations on the Table of Characteristics

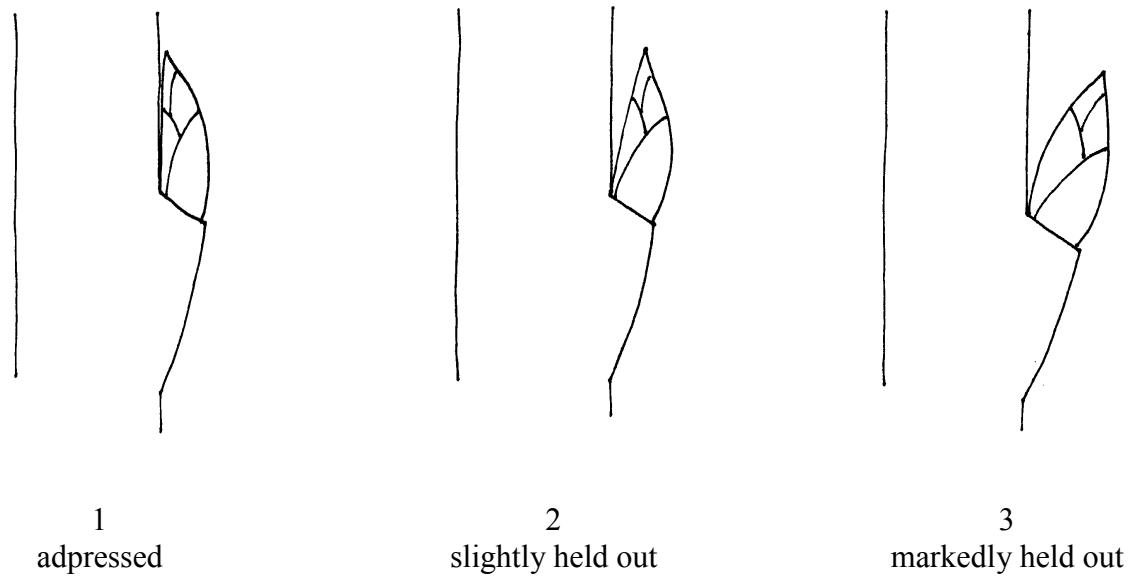
Ad. 1: Tree: vigor

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

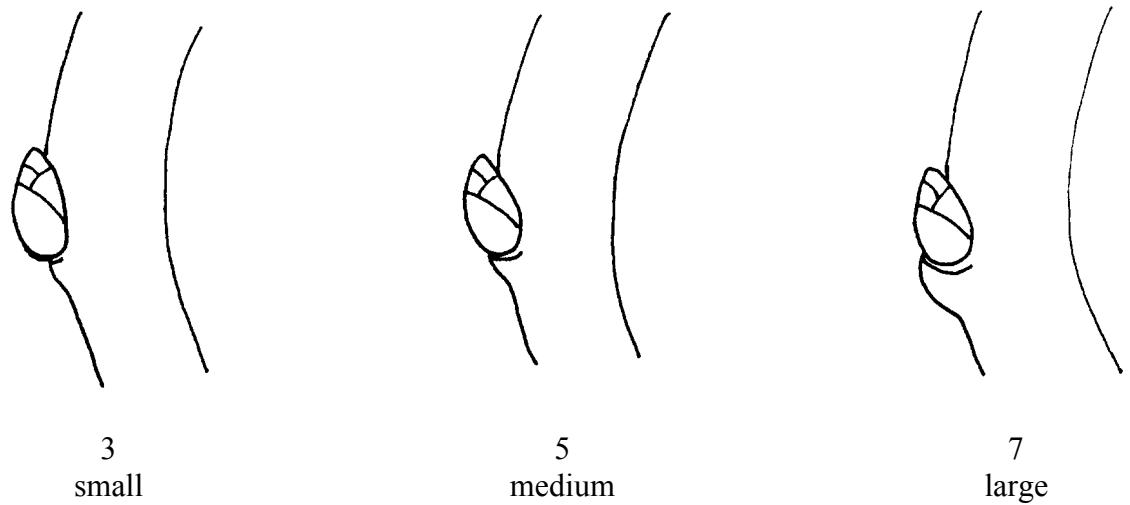
Ad. 9: One-year-old shoot: shape of vegetative bud



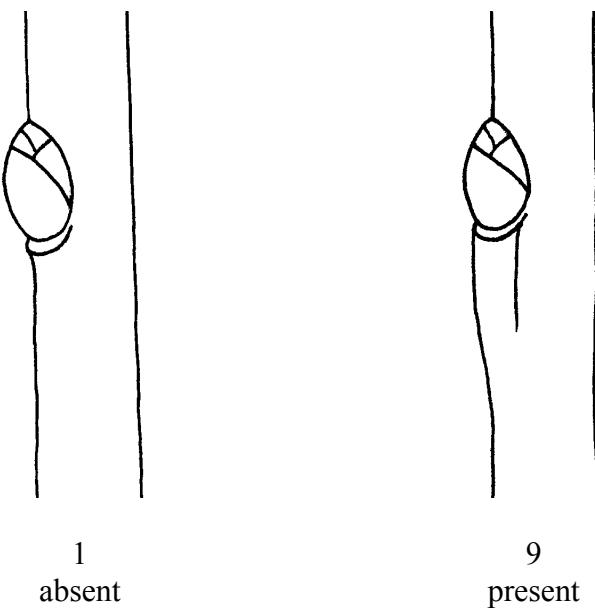
Ad. 10: One-year-old shoot: position of vegetative bud in relation to shoot



Ad. 11: One-year-old shoot: size of vegetative bud support

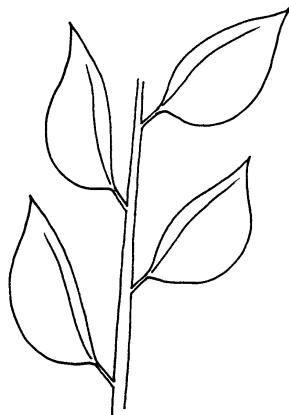


Ad. 12: One-year-old shoot: decurrence of vegetative bud support

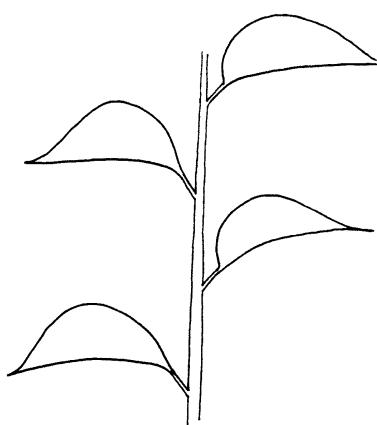


Ad. 14: Leaf blade: attitude in relation to shoot

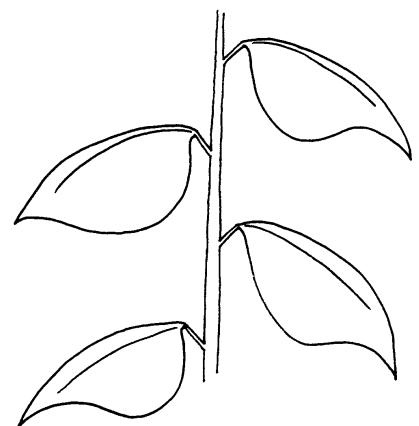
The attitude of the leaf blade in relation to shoot should be observed in the morning.



1  
upwards

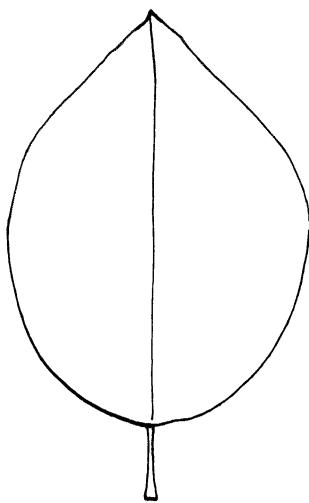


2  
outwards

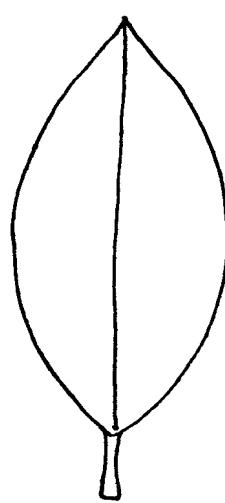


3  
downwards

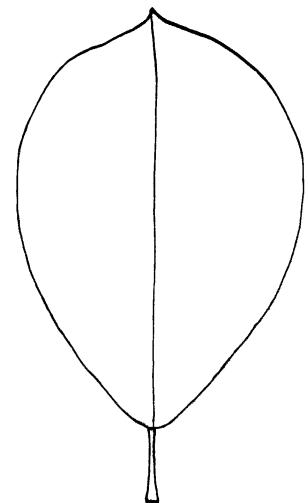
Ad. 18: Leaf blade: shape



1  
ovate

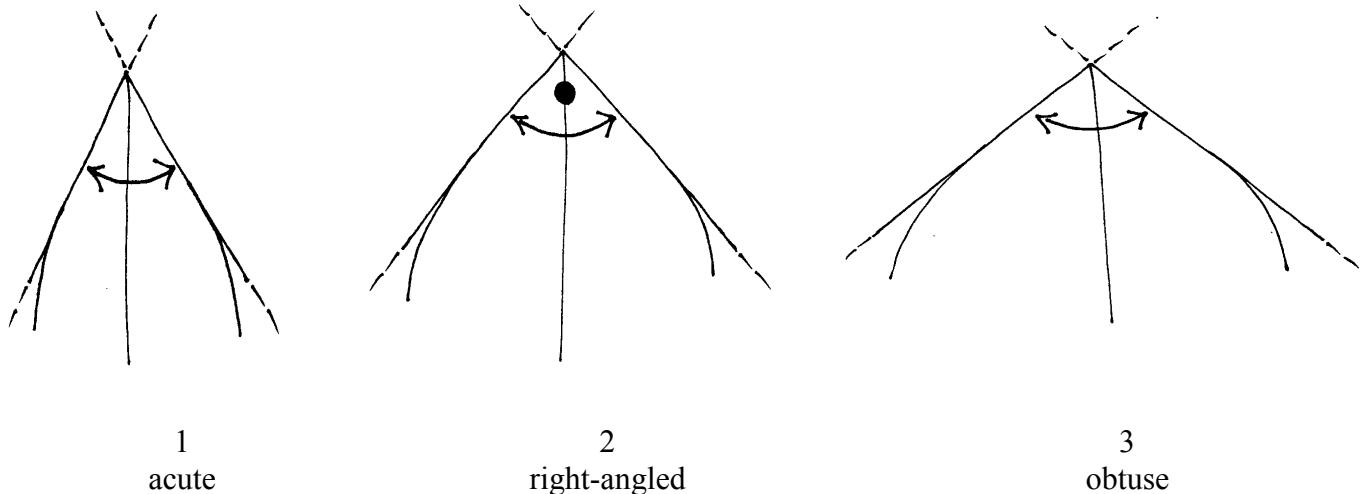


2  
elliptic

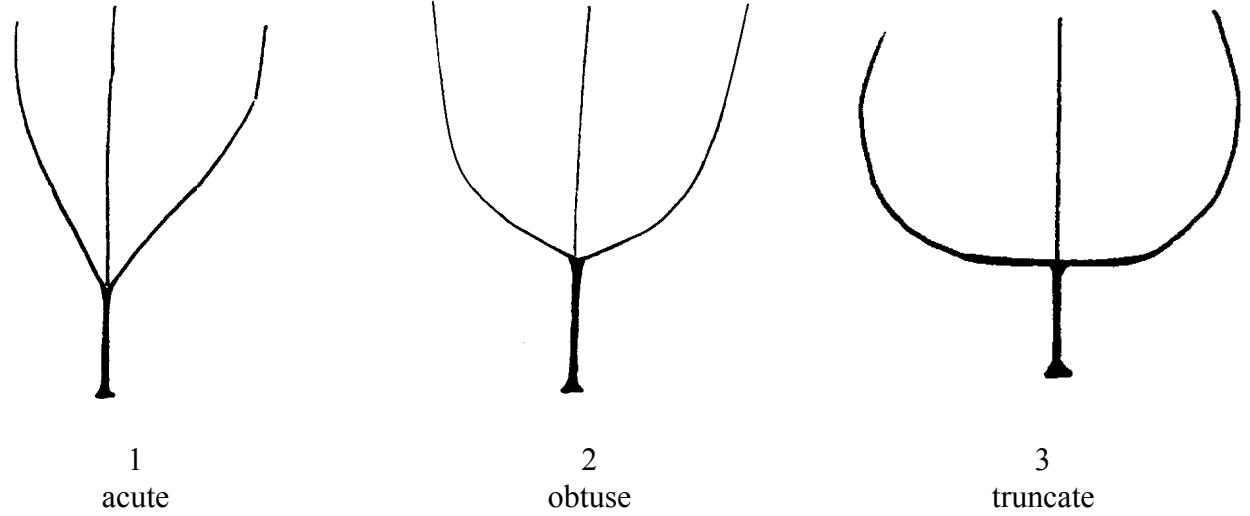


3  
obovate

Ad. 19: Leaf blade: angle of apex (excluding tip)



Ad. 20: Leaf blade: shape of base



Ad. 24: Leaf blade: incisions of margin

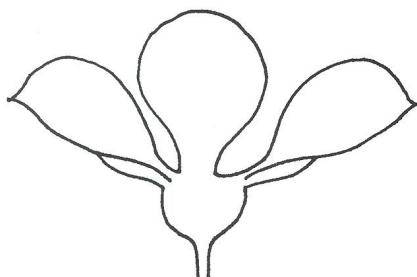


1  
crenate

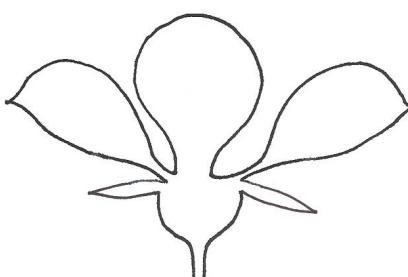


2  
serrate

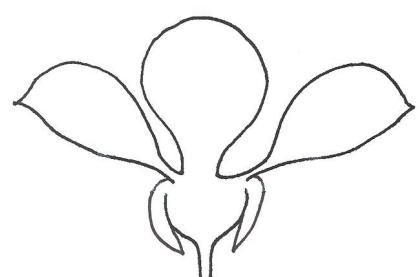
Ad. 34: Calyx: attitude of sepals



1  
adpressed to petals

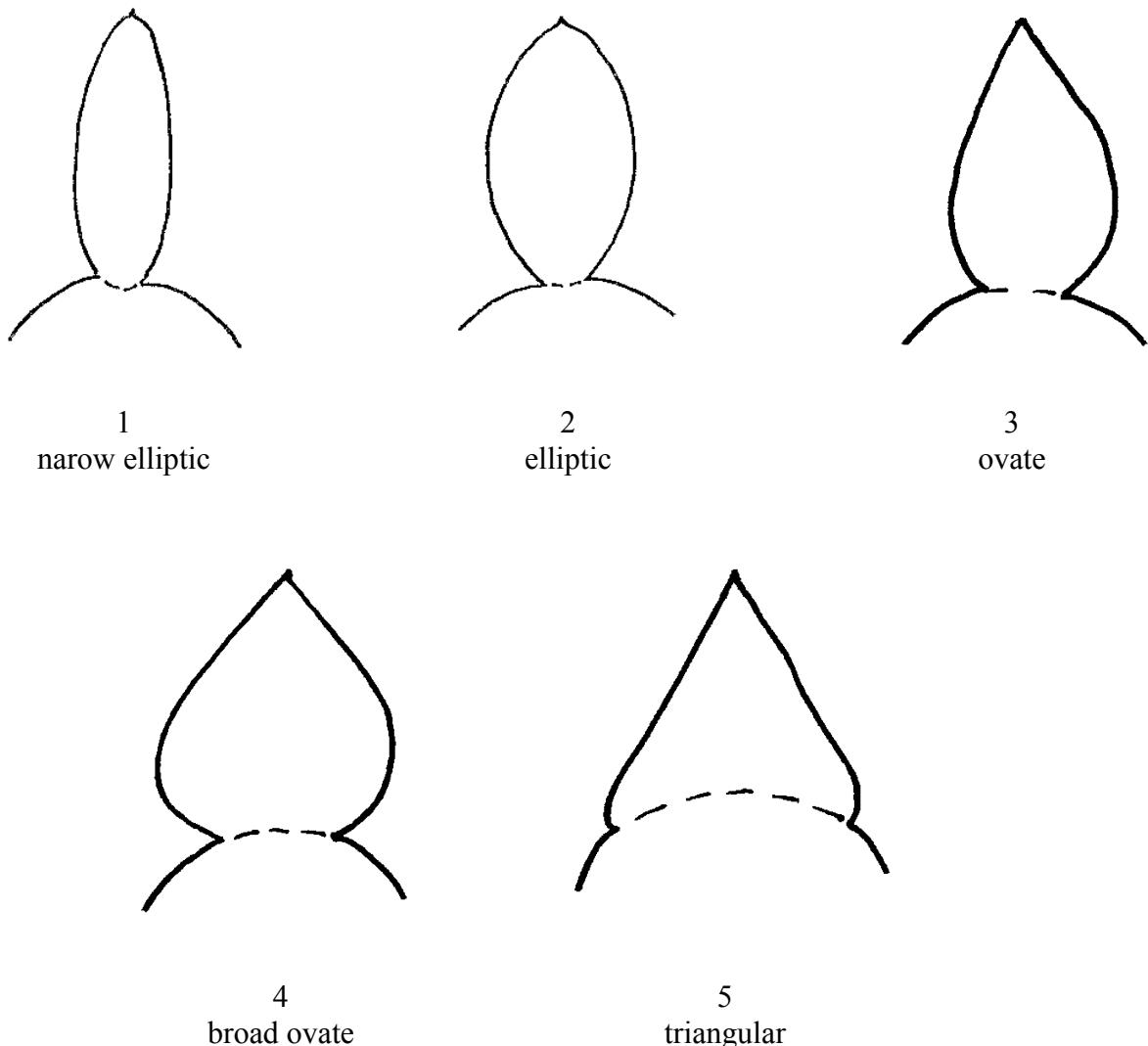


2  
touching neither petals  
nor receptacle

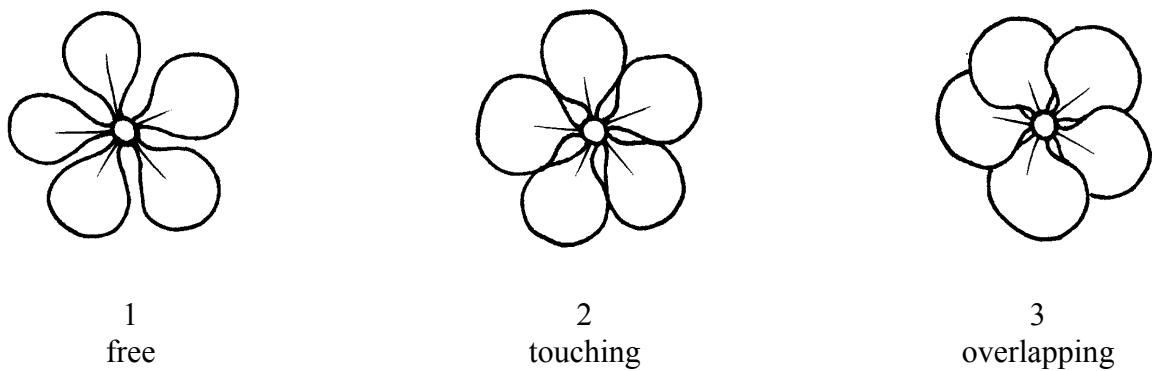


3  
touching receptacle

Ad. 35: Sepal: shape



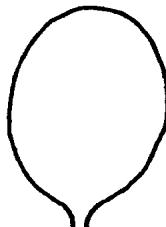
Ad. 36: Flower: arrangement of petals



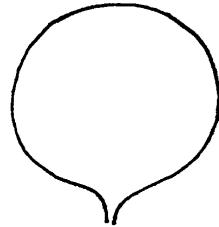
Ad. 38: Petal: shape



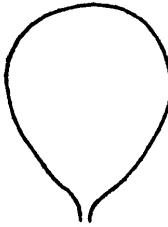
1  
elliptic



2  
broad elliptic



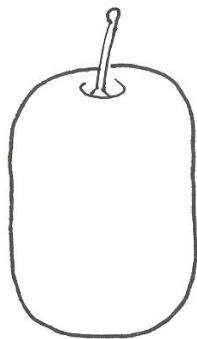
3  
circular



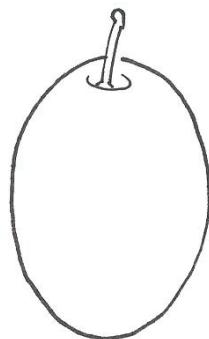
4  
obovate

Ad. 44: Fruit: shape in lateral view

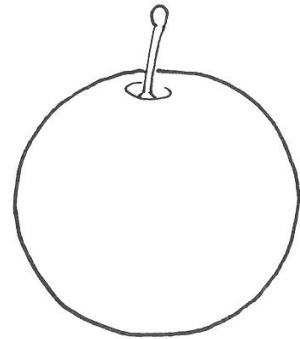
The following fruit shapes are presented as they appear in nature, nevertheless shape is to be observed in direction from the base (stalk end) to the top.



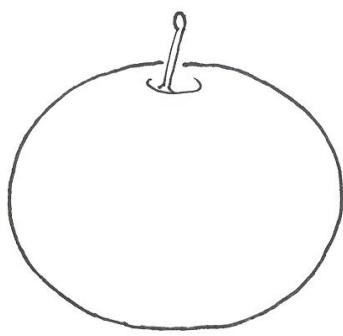
1  
oblong



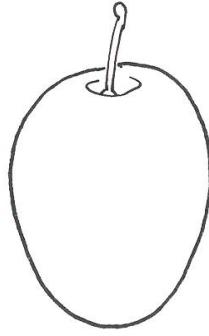
2  
elliptic



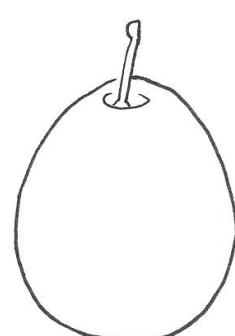
3  
circular



4  
oblate

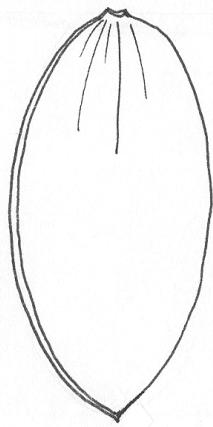


5  
ovate

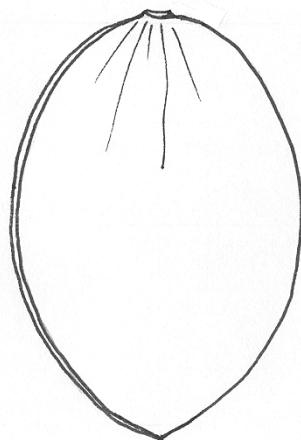


6  
obovate

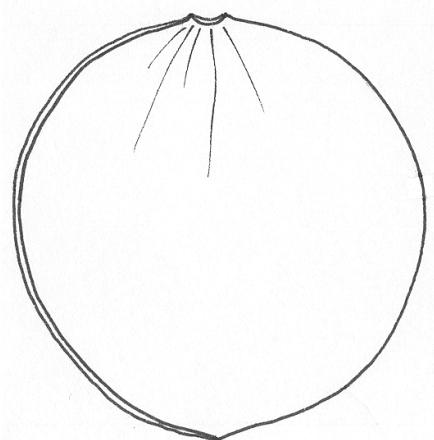
Ad. 55: Stone: general shape in lateral view



1  
narrow elliptic



2  
elliptic



3  
circular

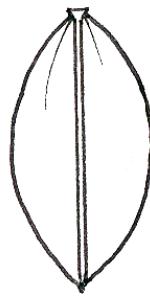
Ad. 56: Stone: shape in ventral view



1  
narrow elliptic



2  
elliptic

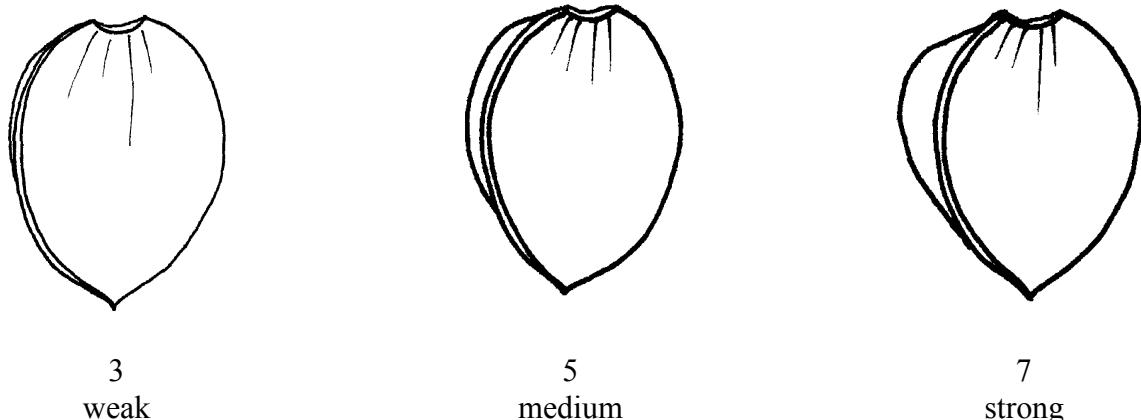


3  
broad elliptic

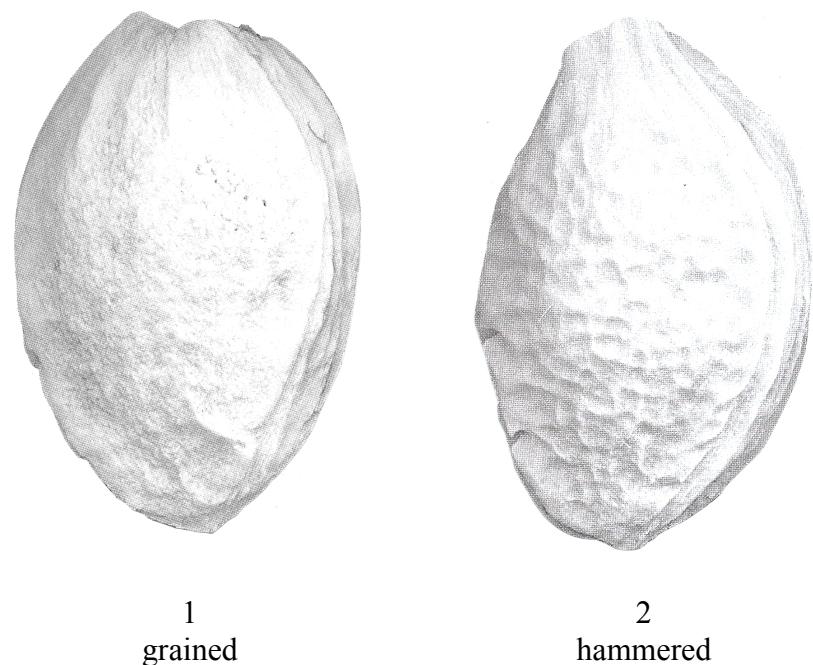


4  
cuneate

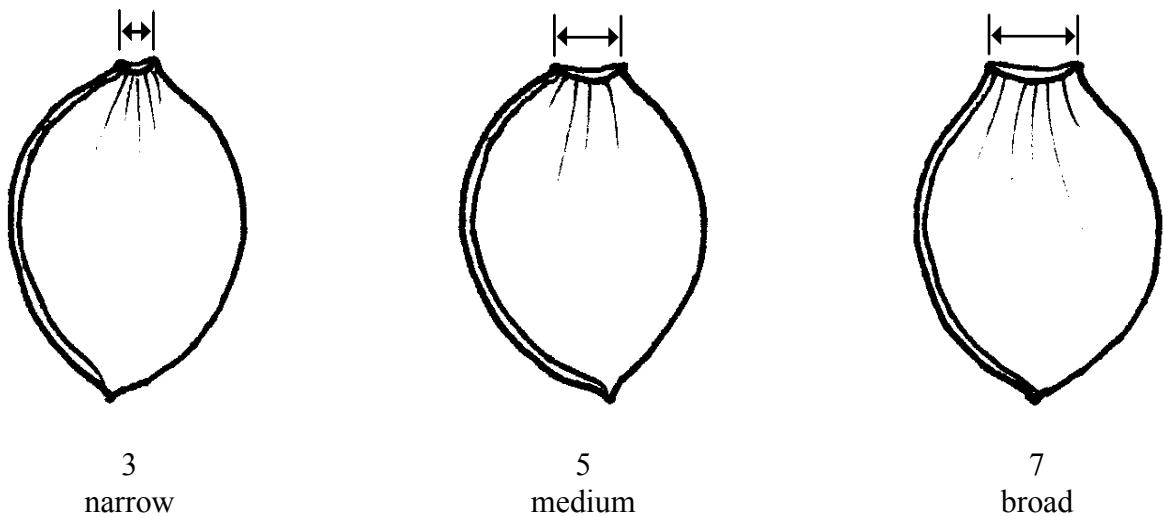
Ad. 57: Stone: development of keel



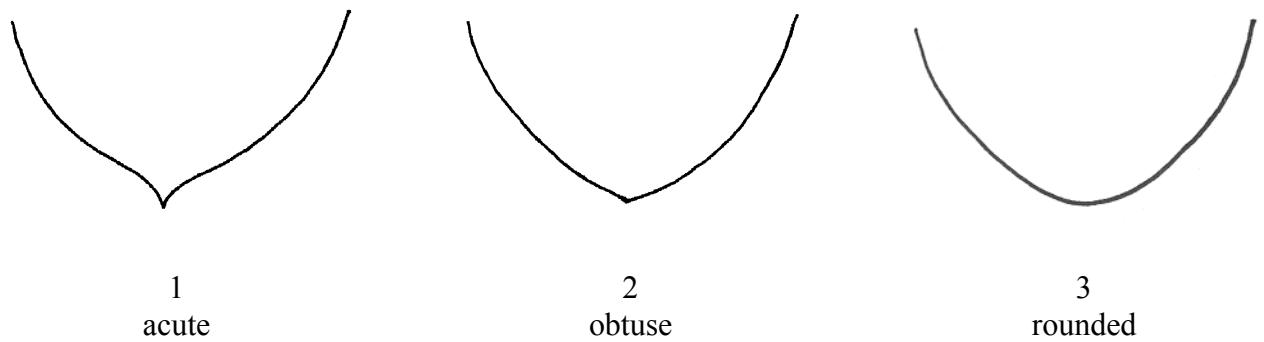
Ad. 58: Stone: texture of lateral surfaces



Ad. 59: Stone: width at base



Ad. 60: Stone: shape of apex



Ad. 62: Time of beginning of fruit ripening

The time of fruit ripening should be considered as the time of eating ripeness, when the fruit is most easily removed.

Synonyms of the example varieties:

Example Varieties	Synonyms
Althanova	Althann, Count Althanns Gage, Graf Althanns Reneklode, (Reine Claude) Conducta, Reine Claude (du comte) d'Althan
Čačanska Julia	Cacaks Julia
Čačanska lepotica	Cacaks Schöne
Čačanska najbolja	Cacaks Beste
Čačanska rana	Cacaks Frühe
Čačanska rodna	Cacaks Fruchtbare
Coe's Golden Drop	Bury seedling, Goutte d'or de Coe, Silver prune
d'Ente	Agen (d')Ente, Datte d'Agen, French prune, (Prune d') Ente, Robe de Sergent
Drap d'Or d'Espéren	Golden Esperen
Ersinger Frühzwetsche	Ahlbachs Frühzwetsche, Eisentaler Frühzwetsche, Goldquelle, Quetsche précoce d'Ersingen, Weißentaler Frühzwetsche
Hauszwetsche	Altesse ordinaire, Bauernpflaume, Early Russian, Hauspflaume, Impératrice Violette, Quetsche commune (d'Allemagne), Quetsche d'Alsace, Quetsche de Metz, Quetsche de Namur
Kirke's	Kirkes Pflaume
Mirabelle de Metz	Metzer Mirabelle, Mirabelle abricotée, Mirabelle aus Metz, Mirabelle petite
Mirabelle de Nancy	(Double) Drap d'Or, Double Mirabelle, Mirabelle grosse, Nancymirabelle
Monsieur hâtif	Early Orleans, Monsieur du Roi, Wilmot's Orleans
President	Président
Prugna d'Italia	Altesse double, Bleue d'Italie, Fellenberg, Italian Prune, Italienische Zwetsche, Quetsche d'Italie
Reine Claude de Bavay	Monstrueuse de Bavay, Saint Clair
Reine Claude diaphane	Reine Claude de Guigne, Transparent Gage
Reine Claude d'Oullins	Fausse Reine Claude, Massot, Oullins Golden, Oullins Reneklode, Reine Claude précoce
Reine Claude verte	Damas gris, Dauphine, Green Gage, Große Grüne Reneklode, Reine Claude Dorée, Zuckerpflaume
The Czar	Le Tsar, Czar
Victoria	Königin Viktoria, Queen Victoria, Viktoriapflaume

## IX. Literature

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Hedrick, U.P.: The Plums of New York. State of New York – Dep. of Agric.: 18<sup>th</sup> Annual Report, Vol. 3, Part II. Albany, USA: J.B. Lyon Company, 1911, 616 p.

Nicotra, A.; Moser, L.; Cobianchi, D.; Damiano, D.; Faedi, W.: Monografia di cultivar di susino. Roma, 1983, 141 p.

Röder, K.: Sortenkundliche Untersuchungen an *Prunus domestica*. Halle (Saale): Kühn-Archiv Bd. 54, 1939, 131 p.

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X. Technical Questionnaire

	Reference Number (not to be filled in by the applicant)
TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights	
1. Species	<i>Prunus domestica</i> L. EUROPEAN PLUM (Fruit varieties only)
2. Applicant (Name and address)	
3. Proposed denomination or breeder's reference	

4. Information on origin, maintenance and reproduction of the variety

4.1 Origin

- (a) Seedling of unknown parentage [ ]
- (b) Produced by controlled pollination [ ]
- Seed bearing parent [ ]
- .....
- Pollen parent [ ]
- .....
- (c) Produced by open pollination of  
(indicate seed bearing parent plant) [ ]
- .....
- (d) Mutation or sport from (indicate original parent variety) [ ]
- .....
- (e) Discovery (indicate where and when) [ ]
- .....

4.2 *In vitro* propagation

The plant material of the candidate variety has been obtained [ ]  
by *in vitro* propagation yes [ ] no [ ]

4.3 Other type of multiplication (seed, leaf cutting, hardwood cutting, layer) [ ]

4.4 Virus status

The plant material is virus tested yes [ ]  
no [ ]

If the answer to that question is yes, please indicate against which viruses

4.5 Other information

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

Characteristics	Example Varieties	Note
<b>5.1 Fruit: size (43)</b>		
very small	Mirabelle de Nancy	1[ ]
small	Bonne de Bry, Hauszwetsche	3[ ]
medium	Hanita, Stanley	5[ ]
large	Nordens Reine Claude d'Oullins	7[ ]
very large	Giant	9[ ]
<b>5.2 Fruit: shape in lateral view (44)</b>		
oblong	Grand Prize	1[ ]
elliptic	Empress, Victoria	2[ ]
circular	Fortune, Mirabelle de Nancy	3[ ]
oblanceolate	Althanova	4[ ]
ovate	Hanita, Stanley, Valjevka	5[ ]
obovate	Elena, President	6[ ]

Characteristics	Example Varieties	Note
<b>5.3 (50) Fruit: ground color of skin (after removing bloom)</b>		
greenish white	Reine Claude diaphane	1[ ]
green	Reine Claude verte	2[ ]
yellowish green	Reine Claude d'Oullins	3[ ]
yellow	Drap d'Or d'Espéren	4[ ]
orange yellow	Emma Leppermann	5[ ]
red	Victoria	6[ ]
light violet	Althanova, Opal	7[ ]
purplish violet	d'Ente	8[ ]
dark violet	Anna Späth, Royale Blue	9[ ]
violet blue	Early Rivers, Valor	10[ ]
dark blue	Čačanska lepotica Čačanska najbolja	11[ ]
<b>5.4 (51) Fruit: color of flesh</b>		
whitish		1[ ]
green	Ersinger Frühzwetsche, Reine Claude verte	2[ ]
yellowish green	Anna Späth, Reine Claude d'Oullins, Ruth Gerstetter	3[ ]
yellow	Ariel, Graf Brühl, Monsieur Jaune	4[ ]
orange	Early Transparent, Gräfin Cosel, Hanita	5[ ]
red	Bountiful	6[ ]
<b>5.5 (54) Fruit: degree of adherence of stone to flesh</b>		
non-adherent	Hauszwetsche, Kirke's	1[ ]
semi-adherent	Drap d'Or d'Espéren, Elena	2[ ]
adherent	Ersinger Frühzwetsche, Jefferson	3[ ]

Characteristics		Example Varieties	Note
<b>5.6</b>	<b>Time of beginning of flowering</b>		
(61)			
	very early	Graf Brühl, Lützelsachser Frühzwetsche	1[ ]
	early	Ruth Gerstetter, Utility	3[ ]
	medium	d'Ente, Hanita, Reine Claude verte	5[ ]
	late	Elena, Hauszwetsche	7[ ]
	very late	Hauszwetsche Typ Schüfer, Quetsche Blanche de Cétricourt	9[ ]
<b>5.7</b>	<b>Time of beginning of fruit ripening</b>		
(62)			
	very early	Ruth Gerstetter	1[ ]
	early	Bonne de Bry, Ersinger Frühzwetsche	3[ ]
	medium	Graf Brühl, Reine Claude verte	5[ ]
	late	Čačanska rodna, d'Ente	7[ ]
	very late	Elena, President, Reine Claude de Bavay	9[ ]

## 6. Similar varieties and differences from these varieties

Denomination of similar variety	Characteristic in which the similar variety is different <sup>o)</sup>	State of expression of similar variety	State of expression of candidate variety

<sup>o)</sup> In the case of identical states of expressions of both varieties, please indicate the size of the difference.

7. Additional information which may help to distinguish the variety

7.1 Resistance to pests and diseases

7.2 Special conditions for the examination of the variety

7.3 Other information

A representative color photo of the variety should be added in the Technical Questionnaire.

8. Authorisation for release:

- (a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human or animal health?

Yes      [ ]      No      [ ]

- (b) Has such authorization been obtained?

Yes      [ ]      No      [ ]

If the answer to that question is yes, please attach a copy of such an authorization.