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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
 GENEVA

DRAFT

PECAN NUT
 UPOV Code: CARYA_ILL
Carya illinoiensis (Wangenh.) C. Koch

*

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

prepared by an expert from Argentina

*to be considered by the Technical Working Party for Fruit Crops at its
 thirty-seventh session, to be held in Salvador, Bahia State, Brazil,
 from August 21 to 25, 2006*

Alternative Names:^{*}

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Carya illinoiensis</i> . (Wangenh.) K. Koch	Pecan nut	Pacanier	Pekan, Pekannuß	Nogal Pacanero, Nuez pecán, Pecan

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 *Carya illinoiensis* (Wangenh.) C. Koch.

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 supplied in the form of dormant budsticks (approximately 15 cm long and 1-1.5 cm in diameter), with 3 groups of buds, to be sent at grafting time.

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

10 dormant budsticks

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*

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

3.2 *Testing Place*

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

3.3 *Conditions for Conducting the Examination*

The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination. In particular, it is essential that the trees produce a satisfactory crop of fruit in each of the two growing cycles.

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of, at least, 5 trees

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 trees or parts taken from each of 5 trees. In the case of parts of trees, the number to be taken from each of the trees should be 2.

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) Nut: length (characteristic 21)
- (b) Nut: width in ventral view (characteristic 22)
- (c) Nut: width in lateral view (characteristic 23)
- (d) Time of receptivity of stigma compared to pollen shed (characteristic 43)

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

(+) 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. (+)	Tree: vigor	Arbre: vigueur	Baum: Wuchsstärke	Árbol: vigor		
QN	weak	faible	gering	débil		3
	medium	moyenne	mittel	medio		5
	strong	forte	stark	fuerte		7
2.	Tree: density of crown	Arbre : densité de la couronne	Baum: Kronendichte	Árbol: densidad de la copa		
QN	sparse	faible	locker	laxa		3
	medium	moyenne	mittel	media		5
	dense	dense	dicht	densa		7
3. (+)	Tree: attitude of branches			Árbol: actitud de las ramas		
PQ	erect	dressé	aufrecht	erecto		1
	semi erect	demi-dressé	halbaufrecht	semierecto		2
	spreading			extendido		3
4.	One year old shoot: color			Rama de un año: color		
PQ	greenish brown			castaño verdoso		1
	brown			castaño		2
	reddish brown			castaño rojizo		3
5.	One year old shoot: intensity of color			Rama de un año: intensidad del color		
QN	light			claro		3
	medium			medio		5
	dark			oscuro		7
6.	Leaf: intensity of green color			Hoja: intensidad del color verde		
QN	light			claro		3
	medium			medio		5
	dark			oscuro		7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
7. (+)	Leaf: length of terminal leaflet			Hoja: longitud del folíolo terminal		
QN	short			corta		3
	medium			media		5
	long			larga		7
8. (+)	Leaf: width of terminal leaflet			Hoja: ancho del folíolo terminal		
QN	narrow			angosto		3
	medium			medio		5
	broad			ancho		7
9. (+)	Leaf: ratio length/width of terminal leaflet			Hoja: relación largo/ ancho del folíolo terminal		
QN	small	faible	klein	pequeña		3
	medium	moyen	mittel	media		5
	large	élevé	groß	grande		7
10. (+)	Leaf: length of petiole			Hoja: largo del pecíolo		
QN	short			corto		3
	medium			medio		5
	long			largo		7
11. (+)	Lateral leaf: curvature of longitudinal axis			Hoja lateral: curvatura del eje longitudinal		
QN	weak			débil		3
	medium			media		5
	strong			fuerte		7
12. (+)	Lateral leaflet: presence of petiole			folíolo lateral: presencia de pecíolo		
QN	absent			ausente		1
	present			presente		9

				Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
English	français	deutsch	español		
13. (+)	Lateral leaflet: asymmetry		Folíolo lateral: asimetría		
QN	absent or very weak		ausente o muy débil		1
	weak		débil		3
	medium		media		5
	strong		fuerte		7
14. (+)	<u>Only varieties with asymmetric leaflets:</u> Lateral leaflet: position of longer side of leaflet		Sólo variedades con folíolos asimétricos: Folíolo lateral: posición del lado más largo de los folíolos		
QL	towards apex of leaf		hacia el eje de la hoja		1
	towards base of leaf		hacia la base de la hoja		2
15.	Catkin: length		Amento: largo		
QN	short		corto		3
	medium		medio		5
	long		largo		7
16.	Female inflorescence: predominant number of flowers		Inflorescencia femenina: número predominante de flores		
QL	three		tres		1
	four		cuatro		2
	five		cinco		3
	six		seis		4
	seven		siete		5
17.	Stigma: type		Estigma: tipo		
QL	entire		entero		1
	bifurcate		bífido		2

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
18.	Stigma: color			Estigma: color		
QL	greenish			verdoso		1
	reddish			rojizo		2
19.	Husk: intensity of green color			Vaina: intensidad del color verde		
QN	light			claro		3
	medium			medio		5
	dark			oscuro		7
20.	Husk: prominence of ribs			Vaina: prominencia de costillas		
QN	absent or very weak			ausente o muy débil		1
	weak			débil		3
	medium			medio		5
	strong			fuerte		7
21. (*) (+)	Nut: length			Nuez: largo		
QN	short			corto	Desirable, Success	3
	medium			medio	Harris Super	5
	long			largo	Mahan	7
22. (*) (+)	Nut: width in ventral view			Nuez: ancho en vista ventral		
QN	narrow			angosto	Mahan	3
	medium			medio	Stuart	5
	broad			ancho	Shoshoni	7
23. (*) (+)	Nut: width in lateral view			Nuez: ancho en vista lateral		
QN	narrow			angosto	Mahan, Kernoodle	3
	medium			medio	Stuart	5
	broad			ancho	Shoshoni	7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
24. (+)	Nut: shape in ventral view			Nuez: forma en vista ventral		
PQ	ovate			ovado		1
	elliptic			elíptico		2
	circular			circular		3
	obovate			obovado		4
	oblong			oblongo	Harris Super, Mahan	5
25. (+)	Nut: shape in lateral view			Nuez: forma en vista lateral		
PQ	ovate			ovado		1
	elliptic			elíptico		2
	circular			circular		3
	obovate			obovado		4
	oblong			oblongo	Mahan, Harris Super	5
26. (+)	Nut: shape in cross section with suture in vertical position			Nuez: forma en sección transversal con la sutura en posición vertical		
PQ	elliptic			elíptico	Kernoodle	1
	circular			circular	Desirable, Shoshoni	2
	oblite			comprimido/aplanado	Mahan	3
27. (+)	Nut: shape of apex in lateral view			Nuez: forma del ápice en vista lateral		
PQ	acute			agudo	Stuart, Desirable	1
	obtuse			obtuso	Success	2
	rounded			redondeado		3
27.a	Nut: length of apical point			Nuez: longitud del punto apical		
QN	short			corto		3
	medium			medio		5
	long			largo		7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
27.b	Nut: length of basal point				Nuez: longitud del punto basal		
QN	short				corto		3
	medium				medio		5
	long				largo		7
28.	Nut: intensity of ground color of shell				Nuez: intensidad del color de fondo de la cáscara		
QN	light				claro	Success, Mahan, Desirable	3
	medium				medio	Harris Super, Stuart	5
	dark				oscuro	Shoshoni, Kernoodle	7
29.	Nut: area covered by spots				Nuez: área cubierta con manchas		
QN	small				pequeña	Shoshoni, Harris Super	3
	medium				media	Desirable, Kernoodle, Mahan	5
	large				grande	Stuart	7
30.	Nut: thickness of shell				Nuez: grosor de la cáscara		
PQ	thin				delgado		3
	medium				medio		5
	thick				grueso		7
31.	Nut: thickness of partition of wall				Nuez: grosor del tabique central		
PQ	thin				delgado		3
	medium				medio		5
	thick				grueso		7

				Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
	English	français	deutsch	español	
32.	Kernel: adherence to shell			Semilla: adherencia a la cáscara	
QN	weak			débil	3
	medium			media	5
	strong			fuerte	7
33.	Nut: ratio weight of nut/weight of kernel			Nuez: relación peso de la nuez/peso de la semilla	
QN	small			pequeña	3
	medium			media	5
	large			grande	7
34.	Kernel: weight			Semilla: peso	
QN	light			liviano	3
	medium			medio	5
	heavy			pesado	7
35.	Kernel: intensity of color			Semilla: intensidad del color	
QN	light			claro	3
	medium			medio	5
	dark			oscuro	7
36.	Time of leaf bud burst			Época de brotación	
QN	early			temprana	3
	medium			media	5
	late			tardía	7
37.	Time of leaf fall			Época de defoliación	
QN	early			temprana	3
	medium			media	5
	late			tardía	7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
38.	Persistence of rachis on tree			Persistencia del raquis en el árbol		
QN	absent			ausente		1
	present			presente		9
39.	Time of receptivity of stigma			Época de receptividad del estigma		
QN	early			temprana	Shoshoni	3
	medium			media	Mahan, Desirable	5
	late			tardía	Caddo, Oklahoma	7
40.	Duration of receptivity of stigma			Duración de la receptividad del estigma		
QN	short			corta		3
	medium			media		5
	long			larga		7
41.	Time of anther dehiscence			Época de dehiscencia de las anteras		
QN	early			temprana		3
	medium			media		5
	late			tardía		7
42.	Duration of pollen shed			Duración de la liberación del polen		
QN	short			corta		3
	medium			media		5
	long			larga		7

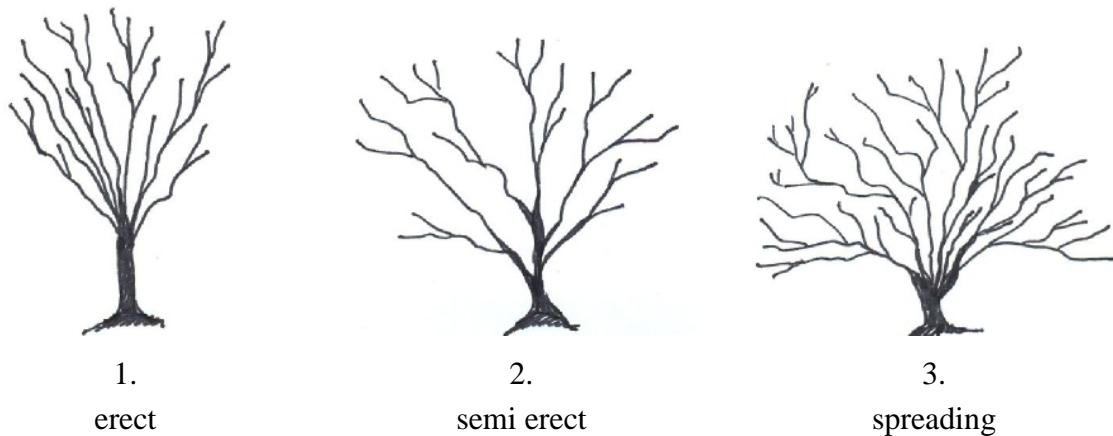
	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
43. (*)	Time of receptivity of stigma compared to pollen shed			Época de floración femenina comparada con la floración masculina		
QL	before (protogyny)			anterior (protoginia)	Mahan, Shoshoni, Mahan Stuart, Kernoodle	1
	simultaneous			simultánea	Cheyenne, Starking, Harris Super	2
	after (protandry)			posterior (protandria)	Caddo, Oconee, Oklahoma	3
44.	Time of maturity for harvest			Época de madurez para cosecha		
QN	early			temprana		3
	medium			media		5
	late			tardía		7
45.	Tree: persistence of husk after nut fall	Arbre: persistance du brou après la chute de la noix			Árbol: persistencia de la vaina luego de la caída de la nuez	
QL	not persistent	non persistant	nicht anhaftend	no persistente		1
	partially persistent	partiellement persistant	teilweise anhaftend	parcialmente persistente		2
	fully persistent	totalement persistant	vollständig anhaftend	completamente persistente		3

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

8.2 *Explanations for individual characteristics*

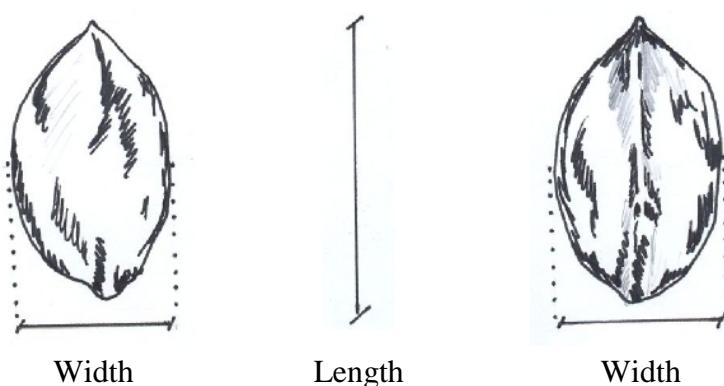
Ad. 3: Tree: attitude of branches



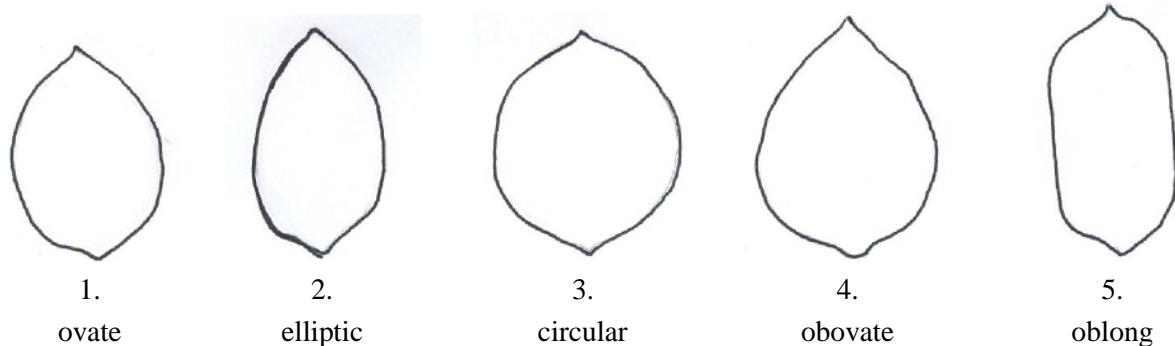
Ad. 7-14: Leaf, leaflet

To observe on fully developed leaves on the middle third of branches

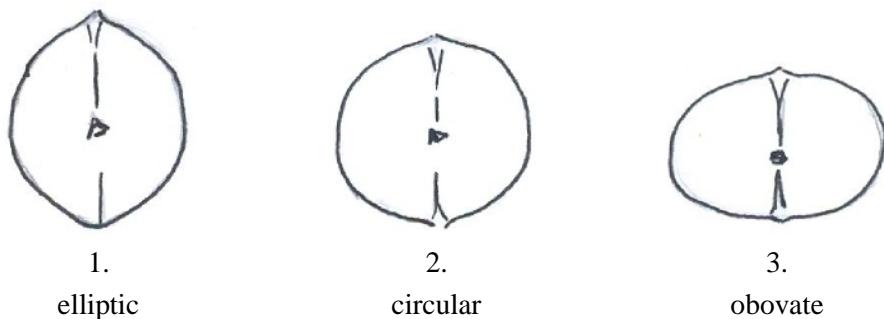
Ad. 21: Nut: length and width



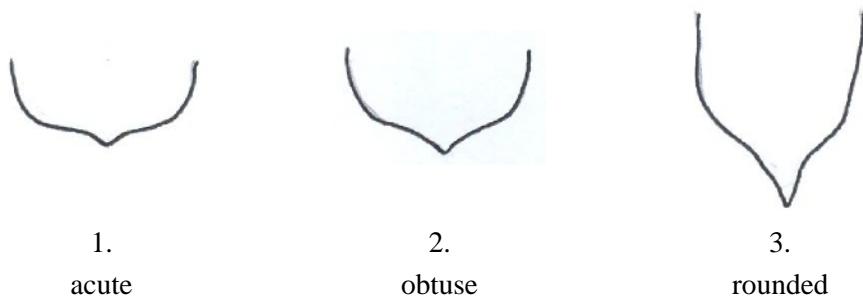
Ad. 24: Nut: shape in ventral view



Ad. 26: Nut: shape in cross section with suture in vertical position



Ad. 27: Nut: shape of apex in lateral view



9. Literature

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10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
<p style="text-align:center">TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights</p>		
1. Subject of the Technical Questionnaire		
1.1 Botanical name	<i>Carya illinoiensis</i> (Wangenh.) C. Koch	
1.2 Common name	PECAN NUT	
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)	[]	
<div style="border: 1px solid black; height: 40px;"></div>		
4.2 Method of propagating the variety		
4.2.1 Vegetative propagation		
(a) cuttings	[]	
(b) <i>in vitro</i> 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 Nut: length (21)		
short	Desirable, Success	3[]
medium	Harris Super	5[]
long	Mahan	7[]
5.2 Nut: width in ventral view (22)		
narrow	Mahan	3[]
medium	Stuart	5[]
broad	Shoshoni	7[]
5.3 Nut: width in lateral view (23)		
narrow	Mahan, Kernoodle	3[]
medium	Stuart	5[]
broad	Shoshoni	7[]
5.4 Time of receptivity of stigma compared to pollen shed (43)		
before (protogyny)	Mahan, Shoshoni, Mahan Stuart, Kernoodle	1[]
simultaneous	Cheyenne, Starking, Harris Super	2[]
after (protandry)	Caddo, Oconee, Oklahoma	3[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
6. Similar varieties and differences from these varieties			
<p><i>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.</i></p>			
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
<i>Example</i>			
Comments:			

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
<p>#7. Additional information which may help in the examination of the variety</p> <p>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?</p> <p>Yes [] No []</p> <p>(If yes, please provide details)</p> <p>7.2 Are there any special conditions for growing the variety or conducting the examination?</p> <p>Yes [] No []</p> <p>(If yes, please provide details)</p> <p>7.3 Other information</p> <p>A representative color photograph of the variety should accompany the Technical Questionnaire.</p>		
<p>8. Authorization for release</p> <p>(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?</p> <p>Yes [] No []</p> <p>(b) Has such authorization been obtained?</p> <p>Yes [] No []</p> <p>If the answer to (b) is yes, please attach a copy of the authorization.</p>		

* 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:
<p>9. Information on plant material to be examined or submitted for examination.</p> <p>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.</p> <p>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:</p> <p>(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 []</p>		
<p>Please provide details for where you have indicated “yes”.</p> <p>.....</p>		
<p>10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:</p> <p>Applicant's name <input type="text"/></p> <p>Signature <input type="text"/> Date <input type="text"/></p>		

[End of document]