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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
 GENEVA

DRAFT



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

*to be considered by the
 Technical Working Party for Fruit Crops at its thirty-fourth session,
 to be held in Niagara Falls, Canada from September 29 to October 3, 2003*

Alternative Names:^{*}

| <i>Latin</i> | <i>English</i> | <i>French</i> | <i>German</i> | <i>Spanish</i> |
|--------------------------|----------------|---------------|-----------------|-----------------------------------|
| <i>Carya illinoensis</i> | Pecan nut | Pacanier | Pekan, Pekannuß | Nuez pecán, Pecán, Nogal pacanero |

ASSOCIATED DOCUMENTS

These guidelines should be read in conjunction with document TG/1/3, “General Introduction to the Examination of Distinctness, Uniformity and Stability and the Development of Harmonized Descriptions of New Varieties of Plants” (hereinafter referred to as 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 illinoensis*.

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 plants (one year of grafting), dormant shoots for grafting (15 cm long and 1-1.5 mm of 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 grafted plants
12 dormant shoots

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 *Duration of Tests*

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

3.2 *Testing Place*

The tests should normally be conducted at one place. If any characteristics of the variety, which are relevant for the examination of DUS, cannot be observed at that place, the variety may be tested at an additional place.

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.

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of, at least, 7 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 7 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 minimum duration of tests recommended in section 3.1 reflects, in general, the need to ensure that any differences in a characteristic are sufficiently consistent.

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 7 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 is 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)
- (b)
- (c)
- (d)

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)–(x) See Explanations on the Table of Characteristics in Chapter 8, Section 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8, Section 8.2

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

| | 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. | Shoots: attitude | Pousse: port | | Ramas: porte | | |
| QN | erect | dressé | aufrecht | erecto | | 1 |
| | semi-erect | demi-dressé | halbaufrecht | semierecto | | 3 |
| | horizontal | horizontal | waagerecht | horizontal | | 5 |
| 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: persistence of rachis | Feuille: persistance du rachis | Blatt: Anhaften der Spindel | Hoja: persistencia del raquis | | |
| QL | persistent | non persistant | nicht anhaftend | persistente | | 1 |
| | not persistent | persistant | anhaftend | no persistente | | 2 |

| | English | français | deutsch | español | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
|------------|---|----------|---------|---|---|---------------|
| 7. | 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 |
| 8. | Leaf: intensity of green color | | | Hoja: intensidad del color verde | | |
| QN | light | | | claro | | 3 |
| | medium | | | medio | | 5 |
| | dark | | | oscuro | | 7 |
| 9. | Female inflorescence: number of flowers | | | Inflorescencia femenina: número de flores | | |
| QN | few | | | pocas | | 3 |
| | medium | | | medio | | 5 |
| | many | | | muchas | | 7 |
| 10. | Husk: intensity of green color | | | Vaina: intensidad del color verde | | |
| QN | light | | | claro | | 3 |
| | medium | | | medio | | 5 |
| | dark | | | oscuro | | 7 |
| 11. | Husk: presence of ribs | | | Vaina: presencia de costillas | | |
| QN | weak | | | débil | | 3 |
| | medium | | | medio | | 5 |
| | strong | | | fuerte | | 7 |

| | English | français | deutsch | español | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
|------------|---|--|--|---|---|---------------|
| 12. | Husk: persistence on tree after nut fall | Brou: persistance sur l'arbre après la chute de la noix | Nußhülle: Anhaftend am Baum nach dem Abfallen der Nuß | Vaina: persistencia en el árbol luego de la caída de la nuez | | |
| ? | not persistent | nulle | nicht anhaftend | no persistente | | 1 |
| | partially persistent | partielle | teilweise anhaftend | parcialmente persistente | | 2 |
| | fully persistent | totale | vollständig anhaftend | completamente persistente | | 3 |
| 13. | Nut: length | | | | Nuez: largo | |
| QN | short | | | pequeño | | 3 |
| | medium | | | medio | | 5 |
| | long | | | largo | | 7 |
| 14. | Nut: height | | | | Nuez: alto | |
| QN | short | | | pequeño | | 3 |
| | medium | | | medio | | 5 |
| | long | | | alto | | 7 |
| 15. | Nut: width | | | | Nuez: ancho | |
| QN | short | | | pequeño | | 3 |
| | medium | | | medio | | 5 |
| | long | | | ancho | | 7 |

| | English | français | deutsch | español | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
|------------|---|----------|---------|--|---|---------------|
| 16. | Nut: shape in longitudinal section perpendicular to the suture (ratio length/height) | | | Nuez: forma en sección longitudinal perpendicular a la sutura (relación largo/alto) | | |
| PQ | orbicular (1 to 1.39) | | | orbicular (1 a 1.39) | | 1 |
| | ovate (1.40 to 1.59, widest at base) | | | ovado (1.40 a 1.59, más ancho en la base) | | 2 |
| | oval elliptic (1.40 to 1.59, widest in middle) | | | oval elíptico (1.40 a 1.59, más ancho en el medio) | | 3 |
| | obovate (1.40 to 1.59, widest at apex) | | | obovado (1.40 a 1.59, más ancho en el ápice) | | 4 |
| | elliptic (1.60 to 1.79) | | | elíptico (1.60 a 1.79) | | 5 |
| | oblong elliptic (1.80 to 1.99) | | | oblongo elíptico (1.80 a 1.99) | | 6 |
| | oblong (greater than 2) | | | oblongo (mayor a 2) | | 7 |
| 17. | Nut: shape in longitudinal section through suture (ratio length/width) | | | Nuez: forma en sección longitudinal a través de la sutura (relación largo/ancho) | | |
| PQ | orbicular (1 to 1.39) | | | orbicular (1 a 1.39) | | 1 |
| | ovate (1.40 to 1.59, widest at base) | | | ovado (1.40 a 1.59, más ancho en la base) | | 2 |
| | oval elliptic (1.40 to 1.59, widest in middle) | | | oval elíptico (1.40 a 1.59, más ancho en el medio) | | 3 |
| | obovate (1.40 to 1.59, widest at apex) | | | obovado (1.40 a 1.59, más ancho en el ápice) | | 4 |
| | elliptic (1.60 to 1.79) | | | elíptico (1.60 a 1.79) | | 5 |
| | oblong elliptic (1.80 to 1.99) | | | oblongo elíptico (1.80 a 1.99) | | 6 |
| | oblong (greater than 2) | | | oblongo (mayor a 2) | | 7 |

| | | | | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
|------------|--|----------|---------|---|---------------|
| | English | français | deutsch | español | |
| 18. | Nut: shape in cross section | | | Nuez: forma en sección transversal | |
| PQ | laterally compressed | | | lateralmente comprimido | 1 |
| | circular | | | circular | 2 |
| | flattened | | | aplanado | 3 |
| 19. | Nut: apex | | | Nuez: ápice | |
| PQ | acuminate | | | acuminado | 1 |
| | apiculate | | | apiculado | 2 |
| | obtuse | | | obtuso | 3 |
| | rounded | | | redondeado | 4 |
| 20. | Nut: base | | | Nuez: base | |
| PQ | caudate | | | caudada | 1 |
| | acuminate | | | acuminada | 2 |
| | apiculate | | | apiculada | 3 |
| | obtuse | | | obtusa | 4 |
| | rounded | | | redondeada | 5 |
| 21. | Nut: intensity of ground color of shell | | | Nuez: intensidad del color de base de la cáscara | |
| QN | light | | | claro | 3 |
| | medium | | | medio | 5 |
| | dark | | | oscuro | 7 |
| 22. | Nut: percentage of spotted surface | | | Nuez: porcentaje de superficie cubierta con manchas | |
| QN | low | | | baja | 3 |
| | medium | | | media | 5 |
| | high | | | alta | 7 |

| | | | | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
|-----|---|----------|---------|---|---------------|
| | English | français | deutsch | español | |
| 23. | Nut: thickness of shell | | | Nuez: grosor de la cáscara | |
| QN | very thin | | | muy delgada | 1 |
| | thin | | | delgada | 3 |
| | medium | | | media | 5 |
| | thick | | | gruesa | 7 |
| 24. | Nut: adherence of two halves of shell | | | Nuez: adherencia de las dos mitades de la cáscara | |
| QN | weak | | | débil | 3 |
| | medium | | | media | 5 |
| | strong | | | fuerte | 7 |
| 25. | Nut: thickness of central partition wall | | | Nuez: grosor del tabique central | |
| QN | thin | | | delgado | 3 |
| | medium | | | medio | 5 |
| | thick | | | grueso | 7 |
| 26. | Kernel: size | | | Semilla: tamaño | |
| QN | small | | | pequeño | 3 |
| | medium | | | medio | 5 |
| | large | | | grande | 7 |
| 27. | Nut: intensity of ground color | | | Nuez: intensidad del color de fondo | |
| QN | very light | | | muy claro | 1 |
| | light | | | claro | 3 |
| | medium | | | medio | 5 |

| | | | | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
|-----|--|----------|---------|--|---------------|
| | English | français | deutsch | español | |
| 28. | Nut: percentage of weight relative to total weight of nut | | | Semilla: porcentaje del peso en relación con el peso total de la nuez | |
| QN | low | | | bajo | 3 |
| | medium | | | medio | 5 |
| | high | | | alto | 7 |
| 29. | Kernel: ease of removal | | | Semilla: facilidad de extracción | |
| | easy | | | fácil | 3 |
| | medium | | | media | 5 |
| | difficult | | | difícil | 7 |
| 30. | Time of leaf bud burst | | | Época de brotación de las hojas | |
| QN | early | | | temprana | 3 |
| | medium | | | media | 5 |
| | late | | | tardía | 7 |
| 31. | Time of leaf fall | | | Época de defoliación | |
| QN | early | | | temprana | 3 |
| | medium | | | media | 5 |
| | late | | | tardía | 7 |
| 32. | Time of female flowering | | | Época de floración femenina | |
| QN | early | | | temprana | 3 |
| | medium | | | media | 5 |
| | late | | | tardía | 7 |
| 33. | Duration of female flowering | | | Duración de la floración femenina | |
| QN | short | | | corta | 3 |
| | medium | | | media | 5 |
| | long | | | larga | 7 |

| | | English | français | deutsch | español | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
|------------|--|---------|----------|---------|---|---|---------------|
| 34. | Time of male flowering | | | | Época de floración masculina | | |
| QN | early | | | | temprana | | 3 |
| | medium | | | | media | | 5 |
| | late | | | | tardía | | 7 |
| 35. | Duration of male flowering | | | | Duración de la floración masculina | | |
| QN | short | | | | corta | | 3 |
| | medium | | | | media | | 5 |
| | long | | | | larga | | 7 |
| 36. | Time of female flowering compared to male flowering | | | | Época de floración femenina comparada con la floración masculina | | |
| ? | before (protogyny) | | | | anterior (protoginia) | | 1 |
| | simultaneous (homogamy) | | | | simultánea (homogamia) | | 2 |
| | after (protandry) | | | | posterior (protandria) | | 3 |
| 37. | Time of begining of production | | | | Época de comienzo de la producción | | |
| QN | early | | | | temprana | | 3 |
| | medium | | | | media | | 5 |
| | late | | | | tardía | | 7 |
| 38. | Distribution of highest productions | | | | Distribución de las mayores producciones | | |
| QN | early | | | | temprana | | 3 |
| | medium | | | | media | | 5 |
| | late | | | | tardía | | 7 |

| | | | | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
|------------|---|----------|---------|---|---------------|
| | English | français | deutsch | español | |
| 39. | Time of maturity for harvest | | | Época de madurez para cosecha | |
| QN | early | | | temprana | 3 |
| | medium | | | media | 5 |
| | late | | | tardía | 7 |
| 40. | Tendency to alternancy in production | | | Tendencia a la alternancia en la producción | |
| QL | absent | | | ausente | 1 |
| | present | | | presente | 9 |

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)
- (b)
- (c)
- (d) etc.

8.2 *Explanations for individual characteristics*

Ad. x etc.

9. Literature

{xx}

10. Technical Questionnaire

| | | |
|---|-------------------|---|
| TECHNICAL QUESTIONNAIRE | Page (x) of {y} | Reference Number: |
| | | Application date: (not to be filled in by the applicant) |
| TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights | | |
| 1. Subject of the Technical Questionnaire | | |
| 1.1 Latin Name | Carya illinoensis | |
| 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) totally unknown cross []

4.1.2 Mutation []
(please state parent variety)

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

4.1.4 Other []
(please provide details)

4.2 Method of propagating the variety

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 |
|-----------------|-------------------|------|
| | | |

| | | |
|-------------------------|-----------------|-------------------|
| TECHNICAL QUESTIONNAIRE | Page (x) of {y} | Reference Number: |
|-------------------------|-----------------|-------------------|

6. Similar varieties and differences from these varieties

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

| Denomination(s) of variety(ies) similar to your candidate variety | Characteristic(s) in which your candidate variety differs from the similar variety(ies) | Describe the expression of the characteristic(s) for the similar variety(ies) | Describe the expression of the characteristic(s) for your candidate variety |
|---|---|--|--|
| <i>Example</i> | <i>Fruit: size</i> | <i>small</i> | <i>medium</i> |
| | | | |
| | | | |
| | | | |

Comments:

| | | |
|-------------------------|-----------------|-------------------|
| TECHNICAL QUESTIONNAIRE | Page (x) of {y} | Reference Number: |
|-------------------------|-----------------|-------------------|

7. Additional information which may help in the examination of the variety

7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes [] No []

(If yes, please provide details)

7.2 Special conditions for the examination of the variety

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

Yes [] No []

7.2.2 If yes, please give 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.

| | | |
|-------------------------|-----------------|-------------------|
| TECHNICAL QUESTIONNAIRE | Page (x) of {y} | Reference Number: |
|-------------------------|-----------------|-------------------|

9. Information on plant material to be examined.

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 or pesticide) Yes [] No []
(c) Tissue culture Yes [] No []
(d) Other factors Yes [] No []

Please provide details of 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]