



TWV/45/24

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

TECHNICAL WORKING PARTY FOR VEGETABLES

Forty-Fifth Session
Monterey, United States of America
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PARTIAL REVISION OF THE TEST GUIDELINES FOR PEA
(DOCUMENT TG/7/10)

Document prepared by an expert from France

INTRODUCTION

1. The Technical Committee (TC), at its forty-sixth session, held in Geneva, from March 22 to 24, 2010, agreed that a partial revision of Test Guidelines for Pea (document TG/7/10) should be considered by the Technical Working Party for Vegetables (TWV) and the Technical Working Party for Agricultural Crops (TWA) at their sessions in 2010 (see document TC/46/16 "Report", paragraph 188, and Annex II of document TC/46/2).
2. The TWV, at its forty-third session, held in Beijing from April 20 to 24, 2009, agreed that Mr. François Boulineau (France) should prepare a questionnaire survey, to be issued by the Office of the Union, on characteristics used for grouping in Pea. Mr. Boulineau was requested to prepare a document summarizing the results of the survey for the forty-fourth session of the TWV as a basis for considering a partial revision of the Test Guidelines for Pea (see document TWA/43/17 "Report", paragraph 62).
3. The Chairpersons of the TWV and TWA agreed that the questionnaire should be extended to cover agricultural peas in order to ensure that the results would be relevant for all types of varieties covered by the UPOV Test Guidelines. By Circular E-1266 of April 26, 2010, the questionnaire was sent to the members of the TWV and TWA, a copy of which is provided in the Annex to document TWV/44/33.

4. On the basis that the questionnaire was instigated by the TWV and given the short time before the thirty-ninth session of the TWA (May 24 to 28, 2010), the Chairpersons of the TWV and TWA agreed that the TWV consider the results of the questionnaire at its forty-fourth session held in Veliko Tarnovo, Bulgaria, from July 5 to 9, 2010, and that a report be made to the TWA in 2011, together with any proposals for a revision of the grouping characteristics in the form of a partial revision of the Test Guidelines for Pea.

5. The TWV, at its forty-fourth session held in Veliko Tarnovo, Bulgaria, from July 5 to 9, 2010, considered documents TWV/44/33 and TWV/44/33 Add. introduced by Mr. François Boulineau (France).

6. The TWV agreed that it would be useful to seek responses to the questionnaire from a wider number of UPOV members and agreed that the questionnaire should be re-issued to the TWV with copies of documents TWV/44/33 and TWV/44/33 Add. in order to indicate the usefulness of contributing information. It also agreed that it should be clarified in the questionnaire that there would be anonymity for the contributing UPOV members. In addition, the TWV agreed that Mr. Boulineau should make a further study on characteristic 15 “Stem: number of nodes up to and including first fertile node” with particular regard to the calibration of scales between the contributors to the questionnaire.

7. In response to the observation of Mr. Boulineau that the results of the questionnaire indicated substantial potential benefits in developing a database containing pea variety descriptions from members of the Union, at least for grouping characteristics as a first step, the TWV agreed that Mr. Boulineau should make a presentation on his concept at the forty-fifth session of the TWV. The TWV agreed that Mr. Boulineau should organize an exchange of a common set of variety descriptions for grouping characteristics, and possibly a ring test, to examine if grouping characteristics were sufficiently reliable for such an approach. It noted that it would be important to involve the TWA experts in that work (see document TWV/44/34 “Report”, paragraphs 79 to 81).

8. The TC, at its forty-seventh session, held in Geneva, from April 4 to 6, 2011, agreed that a partial revision of the Test Guidelines for Pea (document TG/7/10) should be considered by the TWA and TWV during their sessions in 2011 (see document TC/47/26 “Report on the Conclusions”, paragraph 105 and Annex III of document TC/47/2).

Partial Revision of the Test Guidelines for Pea (Document TG/7/10)

9. It is proposed to revise the current grouping characteristics of the Test Guidelines for Pea (document TG/7/10):

- (a) Plant: anthocyanin coloration (characteristic 1)
- (b) Stem: number of nodes up to and including first fertile node (characteristic 5)
- (c) Leaf: leaflets (characteristic 8)
- (d) Stipule: flecking (characteristic 20)
- (e) Pod: parchment (characteristic 39)
- (f) Excluding varieties with pod parchment: entire: Pod: thickened wall (characteristic 40)
- (g) Only varieties with Pod: thickened wall: absent: Pod: shape of distal part (characteristic 41)

- (h) Pod: color (characteristic 43)
- (i) Immature seed: intensity of green color (characteristic 47)
- (j) Seed: type of starch grains (characteristic 49)
- (k) Seed: color of cotyledon (characteristic 52)
- (l) Only varieties with plant anthocyanin coloration present: Seed: marbling of testa (characteristic 53)
- (m) Only varieties with plant anthocyanin coloration present: Seed: violet or pink spots on testa (characteristic 54)
- (n) Seed: hilum color (characteristic 55)
- (o) Resistance to *Fusarium oxysporum* f. sp. *lisi* (characteristic 58.1)

10. The annex to this document contains a set of possible new grouping characteristics for the Test Guidelines for Pea to be discussed at the forty-fifth session of the TWV.

[Annex follows]

TWV 45 - Monterey, (California)

Discussion paper for grouping characteristics used for Pea

	CZ			DE -Veg			DE - Agri			FR			KO			HU - Veg			HU - Agri			NL			NZ			UK			Total								
	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c						
1/Anthocyanin coloration	x			x			x			x			x				x		x			x			x			x			x			9	1				
5/Number of nodes	x				x			x			x				x		x			x			x			x			x			x		5	4	1			
8/Presence of leaflets	x			x			x			x			x			x			x			x			x			x			x			10					
19/Flecking on stipules	x				x			x			x			x			x			x			x			x			x			x		7	2	1			
39/Pod parcmnt	x			x				x		x			x				x			x			x			x			x			x		7	1	2			
40/Pod Thickened wall	x			x				x			x		x				x			x			x			x			x			x		6	1	3			
41/Pod extremity	x			x				x		x			x			x			x			x			x			x			x			8	1	1			
43/Pod colour	x				x			x		x			x			x			x			x			x			x			x			8	1	1			
47/Immature seed colour	x				x			x			x			x			x			x			x			x			x			x		4	4	2			
49/Type of strach grains	x			x			x			x			x			x			x			x			x			x			x			10					
52/Colour of cotyledon	x			x			x			x			x			x			x			x			x			x			x			10					
53/Seed marbling of testa	x				x			x			x		x				x			x			x			x			x			x		7	1	2			
54/Pink spots on testa	x				x			x			x		x				x			x			x			x			x			x		7	1	2			
55/Hilum colour	x				x			x			x		x				x			x			x			x			x			x		7	1	2			
58.1/Fusarium 1		x			x			x			x			x			x			x			x			x			x			x		3	4	3			
3/Fasciation																																					2		
4/Stem length																																					1		
6/Colour of foliage					x																																3		
24/Time of flowering		x			x																					x								3					
25/Max.number of flowers																																		2					
26/Colour of wing																													x					1					
37/Pod length																																		1					
38/Pod width																																		1					
42/Pod curvature																																		1					
44/Pos intensity of colour																																		1					
45/Pod suture strings																																		2					
48/Seed shape																																		1					
57/Seed weight																																		2					
59/Resistance to Erysiphe																																		3					
60/Resistance to Ascochyta																																		1					
Seed:Dimpled																																		1					
Plant:Habit																																		1					
Pod:Type curvature																																		1					
Virus 2																																		1					

■ : UPOV grouping characteristics
■ : Other UPOV characteristics
■ : Non UPOV characteristics

a : Used for excluding varieties
 b : Used for grouping in the field
 c : Not used for grouping

All this charcteristics will be discussed during the TWV meeting before revision of the Pea guide line.