



TWV/44/33

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

TECHNICAL WORKING PARTY FOR VEGETABLES

Forty-Fourth Session

Veliko Tarnovo, Bulgaria, July 5 to 9, 2010

REVIEW OF GROUPING CHARACTERISTICS IN THE TEST GUIDELINES FOR PEA

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 paragraph 101 of document TC/46/15 "Report on the Conclusions" 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 paragraph 62 of document TWV/43/17 "Report")
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 this document.

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 to be 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.

SUMMARY OF THE RESULTS OF THE SURVEY

5. Replies to the survey were received from 8 countries. The response from each of the countries has been coded.

6. The results of the survey are summarized below:

Country	A	B	C	D	E	F	G	H
Type of varieties	Veg+Agric	Veg/Agric	Veg+Agric	Veg/Agric	Agri	Veg+Agric	Veg+Agric	Veg+Agric
Question 1 : number of varieties	509	?	1996	182/180	7	3000	57	3250
Question 3 : other characteristics	Yes 24	Yes/No 6, 24	Yes (1)	Yes 4, 24	No	Yes (2)	Yes 24, 57	Yes (3)
Question 4 : number of varieties group 1	?	?	33	32	?	47	?	5 (280)
number of varieties group 2	?	?	49	0	?	31	?	1 (112)

(1) – characteristics: 59, 60 and virus 2

(2) – characteristics: 3, 4, 6, 25, 37, 38, 42, 45, 57 and 59

(3) – characteristics: 3, 6, 25, 26, 44, 45, 48 and 59

7. Further information will be provided at the forty-fourth session of the TWV.

[Annex follows]

ANNEX

(Reproduced from Circular E-1266)

Questionnaire for review of grouping characteristics in the Test Guidelines for Pea

To be returned to Mr. François Boulineau (e-mail: francois.boulineau@geves.fr) with a copy to the Office of the Union (e-mail: upov.mail@upov.int) by May 10, 2010.

Country/Organization:	
Person completing the form	
Name:	
E-mail:	
Tel. No.:	

Please indicate by \surd whether the reply corresponds to:

Agricultural/Field Pea
Vegetable Pea

The Test Guidelines for Pea (document TG/7/10)¹ contain the following characteristics as grouping characteristics (Chapter 5.3):

- (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. *pisi* (characteristic 58.1)

¹ http://www.upov.int/en/publications/tg-rom/tg007/tg_7_10.pdf
http://www.upov.int/fr/publications/tg-rom/tg007/tg_7_10.pdf
http://www.upov.int/de/publications/tg-rom/tg007/tg_7_10.pdf
http://www.upov.int/es/publications/tg-rom/tg007/tg_7_10.pdf

Question 1:

How many varieties are included in your reference collection?

_____ varieties

Question 2:

Please, indicate, by placing \checkmark as appropriate in one of the column under “Use of characteristic”, whether:

- A. you use the characteristic to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness
- B. you use the characteristic to organize the growing trial so that similar varieties are grouped together
- C. you do NOT use the characteristic for A or B.

If you have chosen C, please, explain why you do not use the characteristic in the column “Remark.

<u>Characteristics</u>	<u>Use of characteristic</u>			<u>Remark</u>
	<u>A</u>	<u>B</u>	<u>C</u>	
a)				
b)				
c)				
d)				
e)				
f)				
g)				
h)				
i)				
j)				
k)				
l)				
m)				
n)				
o)				

Question 3:

Do you use grouping characteristics other than those listed in Chapter 5.3 of the Test Guidelines for Pea (document TG/7/10) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness or to organize the growing trial so that similar varieties are grouped together?

YES NO

If YES, please, indicate the number(s) of characteristic in the Table of Characteristics according to document TG/7/10.

(a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness:

(b) to organize the growing trial so that similar varieties are grouped together?

Question 4 (if possible):

How many varieties in your collection would be classified to the following groups, using all grouping characteristics under Chapter 5.3 (with the exception of Chapter 5.3(f) and 5.3(m) with the indicated states of expression? Please insert the number of varieties included in Groups 1 and 2 at the bottom of the table below and attach a list of varieties.

	<u>Characteristics</u>	Group 1 (state of expression)	Group 2 (state of expression)
a)	Plant: anthocyanin coloration (characteristic 1)	1	1
b)	Stem: number of nodes up to and including first fertile node (characteristic 5)	3	7
c)	Leaf: leaflets (characteristic 8)	9	1
d)	Stipule: flecking (characteristic 20)	9	9
e)	Pod: parchment (characteristic 39) Excluding varieties with pod parchment: entire:	2	2
g)	Only varieties with Pod: thickened wall: absent: Pod: shape of distal part (characteristic 41)	1	2
h)	Pod: color (characteristic 43)	2	2
i)	Immature seed: intensity of green color (characteristic 47)	7	3
j)	Seed: type of starch grains (characteristic 49)	2	1
k)	Seed: color of cotyledon (characteristic 52)	1	2
l)	<u>Only varieties with plant anthocyanin coloration present:</u> Seed: marbling of testa (characteristic 53)	1	1
n)	Seed: hilum color (characteristic 55)	1	1
o)	Resistance to <i>Fusarium oxysporum</i> f. sp. <i>pisi</i> (characteristic 58.1)	9	1
Number of varieties			

Question 5:

Other comments:

[End of Annex and of document]