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REVIEW OF GROUPING CHARACTERISTICS IN THE TEST GUIDELINES FOR PEA
(ADDENDUM)

Document prepared by an expert from France

1. This document contains results of Question 2 and Question 4 of the questionnaire survey on grouping characteristics in the Test Guidelines for Pea, circulated by means of Circular E-1266 of April 26, 2010. Circular E-1266 is reproduced in the Annex to document TWV/44/33.

RESULTS OF QUESTION 2

2. Replies were received from 8 countries. The response from each of the countries has been coded (A to H).

3. The results of the survey are summarized in Annex I.

RESULTS OF QUESTION 4

4. In the replies to the questionnaire received from France, the Netherlands and the United Kingdom, lists of varieties classified to the two Groups are provided and reproduced in Annex II (Group 1) and Annex III (Group 2). The table in each of the Annexes contains the varieties classified to the given group in the column of the country where that variety is found in the variety collection. If that same variety is not classified to the given group in another country, the number of characteristic and the state of expression which does not correspond to the definition of the group, or another reason, is provided in the column of that other country. For example, in the case below:

Group 1,

<u>France</u>		<u>NL</u>		<u>GB</u>	
	41 = 2	ADRIANA			39 = 2

In the Netherlands, 'Adriana' is classified to Group 1, whereas in France and in the United Kingdom 'Adriana' is not classified to Group 1. In the case of France characteristic 41 (Pod: shape of distal part) has state 2 (blunt), instead of state 1 (pointed).

5. Annex IV provides diagrams to explain how to subdivide Groups 1 and 2 further in France, by using four characteristics (characteristic 58.1 (Resistance to *Fusarium oxysporum* f.sp.*pisi*), characteristic 60, (Resistance to *Ascochyta pisi*, Race C), Virus 2 and characteristic 59 (Resistance to *Erysiphe pisi* Syd.).

[Annexes follow]

Annex I: Results of Question 2: use of grouping characteristics in document TG/7/10

Characteristics		A			B - Veg			B - Agri			C			D - Veg			D - Agri			E			F			G			H			Total		
GQ	NGQ	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 = 1		x			x			x			x				x			x			x			x			x			9	1			
b = 5		x				x			x			x			x				x			x			x			x			5	4	1	
c = 8		x			x			x			x			x			x			x			x			x						10		
d = 20		x				x			x			x			x			x			x			x			x			7	2	1		
e = 39		x			x				x			x			x			x			x			x			x			7	1	2		
f = 40		x			x				x				x			x			x			x			x			x			6	1	3	
= 41		x			x				x			x			x			x			x			x			x			8	1	1		
h = 43		x				x			x			x			x			x			x			x			x			8	1	1		
i = 47		x				x			x			x			x			x				x				x			4	4	2			
j = 49		x			x			x			x			x			x			x			x			x					10			
k = 52		x			x			x			x			x			x			x			x			x					10			
l = 53		x				x			x			x			x			x			x			x			x			7	1	2		
m = 54		x				x			x			x			x			x			x			x			x			7	1	2		
n = 55		x				x			x			x			x			x			x			x			x			7	1	2		
o = 58.1			x			x			x			x			x			x				x				x			3	4	3			
	3																														2			
	4																														1			
	6					x																									3			
	24			x		x																									3			
	25																														2			
	26																														1			
	37																														1			
	38																														1			
	42																														1			
	44																														1			
	45																														2			
	48																														1			
	57																														2			
	59																														3			
	60																														1			
	Seed:Dimpled																														1			
	Plant:Habit																														1			
	Pod:Type curvature																														1			
	Virus 2																														1			

A-H: countries (coded)

Veg: testing station for vegetable pea varieties

Agri.: testing station for agricultural pea varieties

GQ: Grouping characteristics included in document TG/7/10

NGQ: other characteristics included in document TG/7/10 and further characteristics used at the national level for grouping

a: characteristic used to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctnes:

b: characteristic used to organize the growing trial so that similar varieties are grouped together

c: characteristic NOT used for grouping purposes

[Annex II follows]

Varieties belonging to the given group found in the collection
in France (FR), the Netherlands (NL) and the United Kingdom (GB)

Groupe 1

<u>France</u>	<u>NL</u>	<u>GB</u>
41 = 2	ADRIANA	39 = 2
AR KEL	AR KEL	5 unknown
AROMUNDA	AROMUNDA	5 = 2 / 24 = 5
BALLADO	BALLADO	Not totally described
Not in FR database	BARTESA	5 = 5
Not in FR database	BICADO Old variety	Not totally described
Not in FR database	BISE	5 = 4
BOHDAN	41 = 2	39 = 2
BORNOVA	BORNOVA	5 = 2
58.1 = 1 (susceptible)	CASH	58.1 = 1 / 6 = 3
CLIOR	CLIOR	Not totally described
5 = 5	CLUB 12/13 nodes	5 = 5 / 19 = 1
58.1 = 1 (susceptible)	COBALT	58.1 = 1 / 6 = 3
Not in FR database	COMIRE Old variety	5 unknown
CORONADO	CORONADO	6 = 3
5 = 5	CREDO 12/13 nodes	5 = 5 / 6 = 3
CRISTO	CRISTO	24 = 5
Not in FR database	D 85051 New var.(Rumble)	Not in GB database
Not in FR database	D 94144 New var.(Retrovert)	Not in GB database
DECORETTE	47 = 3	5 = 2
DISCO	DISCO	24 = 5
58.1 = 1 (susceptible)	EVITA	Not totally described
Not in FR database	Not in NL database	FRIGGA
GIARESA	GIARESA	Not totally described
5 = 5	12/13 nodes	GROPON
HOLIDAY	HOLIDAY	5 = 2
IDAHO	IDAHO	5 = 2
5 = 5	12 nodes	INGA
ISOLDE	= ISOLE ?	Not in GB database
JORANE	JORANE	6 = 3
KELMERVEIL	Not in NL database	Not in GB database
Not in FR database	KELVEDON TRIUMPH	5 / 58 unknown
5 = 1	KELVIL 7 nodes	5 = 1
KOLETTE	47 = 3	5 = 2
LEVANT	LEVANT	5 unknown
LOWAREX	47 = 3	5 unknown
MASTERFON	MASTERFON	5 = 2
Not in FR database	MERKION	5 = 5
5 = 5	MINADO 12 nodes	MINADO
MINGOMARK	MINGOMARK	5 = 2

NANOK		Not describe	24 = 5
OSKAR		OSKAR	5 = 2
PALADIO		Not describe	Sugar Pea ???
PATRICIA		PATRICIA	6 = 3
PINTO		47 = 3 / 52 = 2	58 unknown
Not in FR database		PRECISE	5 = 2
PRIMELLE			5 = 2
PRIOR		PRIOR	24 = 5
PROGRESS N°9		PROGRESS N°9	47 = 1
Not in FR database		PROMAD ¹ Old variety	5 unknown
PRUNELLE		47 = 3	5 = 4
REGALIA		Not in NL database	5 unknown
Not in FR database		REGULUS Old variety	= REGALIA
REXADO		REXADO	5 = 2 / 6 = 3
Not in FR database		RUMBLE New variety	Not totally described
58.1 = 1 (susceptible)		SALOUT	58.1 = 1
5 = 5		SCIROCCC 11/12 nodes	Not totally described
Not in FR database		SERENADO	24 = 5
Not in FR database		5 = 6	SOMERSET
STAR 9		Not describe	5 = 1
TARPEIA		47 = 3	42 = 3
58.1 = 1 (susceptible)		TEZIERIDE	58.1 = 1
Not in FR database		TIMUR	Not totally described
TRITON		TRITON	42 = 3 ?
58.1 = 1 (susceptible)		TURBO	58.1 = 1 / 5 = 2
UBU			42 = 3 ?
VALMA		Not in NL database	5 / 58 unknown
Not in FR database		ZENITH	= MALORET

[Annex III follows]

Varieties belonging to the given group found in the collection
in France (FR), the Netherlands (NL) and the United Kingdom (GB)

Groupe 2

France	NL	GB
58.1 = 9 (Resistant)	ALGARVE	58.1 unknown
ALHAMBRA		Not totally describe
ALLURE		Not totally describe
ANNO		Not totally describe
Not in FR database	APOLLO	
ARIANE		Not in NL database
ARIZONA	ARIZONA	
ARROW		Not totally describe
58.1 = 9 (Resistant)	ARTHUR	
AXE		Not totally describe
BETTY		Missed ???
12 = 9	BIRDIE	
BONANZA		Not totally describe
58.1 = 9 (Resistant)	CADDY	
CALLISTO	CALLISTO	
5 = 9	CANIS	
5 = 9	CARNEVAL	
Not in FR database	CEBECO 4119	
CLASSIC	CLASSIC	
5 = 9	CHEYENNE	5 = 9
		CHEYENNE
COUNTESS		Not totally describe
DECOR		Not totally describe
DIAMAN	DIAMAN	
DRUJBA		Not in NL database
DUEL	DUEL	
EDEN	EDEN	
EIFFEL	EIFFEL	
FANFARE		Not totally describe
58.1 = 9 (Resistant)	GRAFILA	
GRANADA	GRANADA	
HARMONY		Not totally describe
ICEBERG	ICEBERG	
IGLOO		Not in NL database
IMPALA	IMPALA	
JACKPOT	JACKPOT	
JULIA		Missed ???
KLEOPATRA		Not totally describe
		58.1 = 9 / 5 = 5
		Not totally described
		5 = 5
		5 = 5
		5 = 6
		5 = 4
		Not totally described
		5 = 4
		58.1 = 9 / 5 = 5
		5 = 5 / 45 = 6
		5 = 5
		1 = 9
		5 = 5
		5 = 5
		5 = 6
		5 = 6
		Not in GB database
		Marrowflat / 5 = 5
		Marrowflat / 5 = 5
		5 = 5
		5 = 5
		5 = 6
		5 = 4
		5 = 5
		5 = 5
		5 = 5
		5801 = 9 / 5 = 5
		5 = 5
		5 = 5
		5 = 6
		8 = 9
		5 = 5
		5 = 5
		5 = 5

MADORA		Not in NL database	Not totally described
MADRIA		Not totaly describe	5 = 5
MAGISTRAL		Not in NL database	Not totally described
	Not in FR database	MANDY	Not in GB database
MERAN		Not totaly describe	5 = 5
	58.1 = 9 (Resistant)	MIAMI	58.1 = 9 / 5 = 6
NIVA		Not totaly describe	5 = 5
ODIN		Not totaly describe	5 = 5
OPUS		Not in NL database	5 = 6
PERTTU		PERTTU	5 = 5
	5 = 9	PHONIX	5 = 6
PRIMERA		Not totaly describe	5 = 5
QUADRIL		Not in NL database	Not totally described
RAMROD		RAMROD	5 = 5
RIGEL		Not totaly describe	5 = 6
ROCKET		Not totaly describe	5 = 6
SIMONA		Not in NL database	5 = 5
SKYLINE		Not totaly describe	5 = 5
SOPRANO		Not totaly describe	5 = 6
SOVEREIGN		Not totaly describe	5 = 5
	58.1 = 9 (Resistant)	SUNNA	58.1 = 9 / 5 = 3
SW CELINE		47 = 5	5 = 5 / 56 mix.1/9
	5 = 9	SW CLARA	5 = 6
SW UNIVERSAL		SW UNIVERSAL	56 = 9 / 5 = 5
TENOR		Not totaly describe	5 = 5
TOSKANA		TOSKANA	5 = 6
	58.1 = 9 (Resistant)	VISION	58.1 = 9 / 5 = 4

[Annex IV follows]

Grouping characteristics for Pea :

On the base of the French database, number of varieties to put in the field :

Number of varieties using only physiological characteristics :
(01 -02 - 03 - 12 - 15 - 26 - 50)

