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**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF
PLANTS**

Geneva

TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS

**Forty-First Session
Angers, France, May 21 to 25, 2012**

ADDENDUM

VARIETY DESCRIPTION DATABASES

Document prepared by an expert from France

The Annex to this document contains a copy of a presentation about reference collection and grouping characteristics, based on an example of the Pea species.

[Annex follows]



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des Variétés Et des Semences

Reference Collection and grouping characteristics

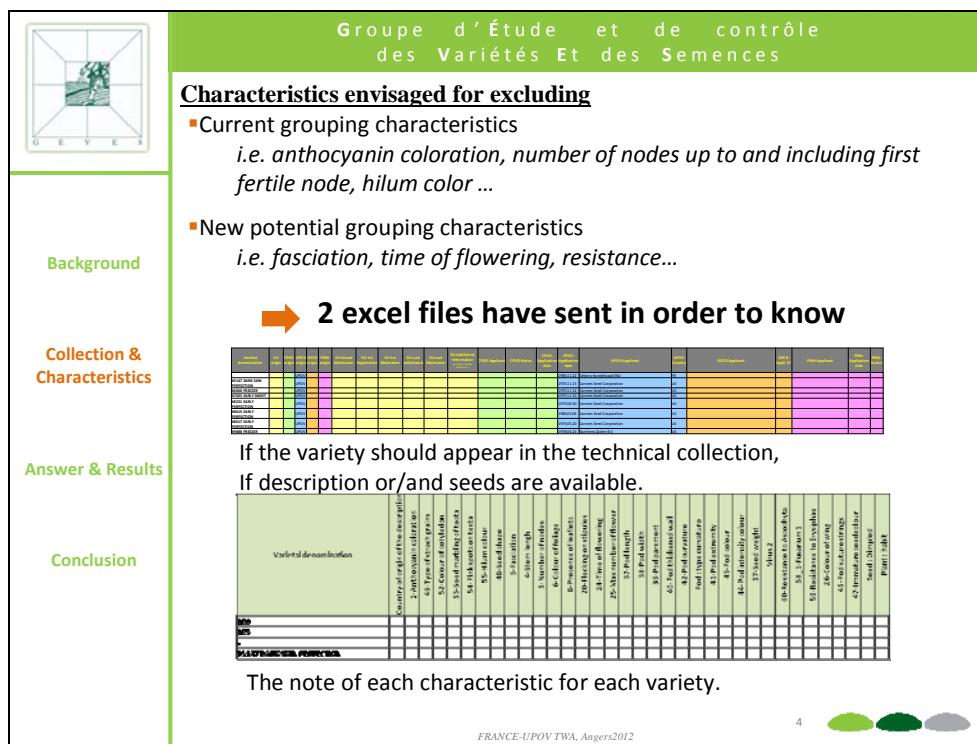
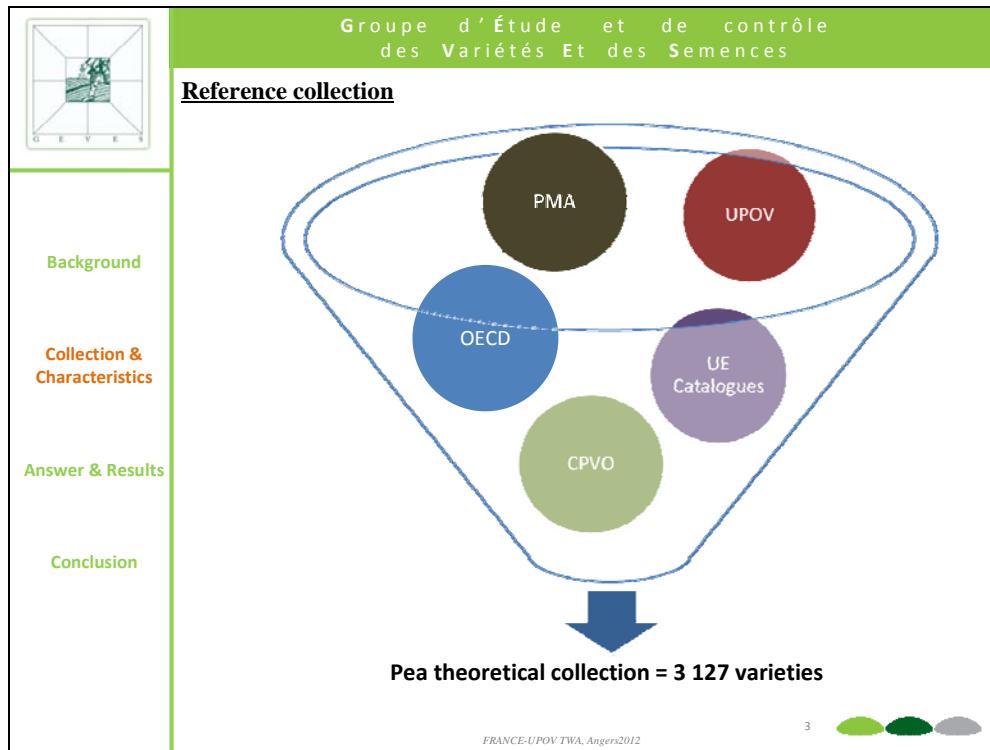
Example of the Pea species

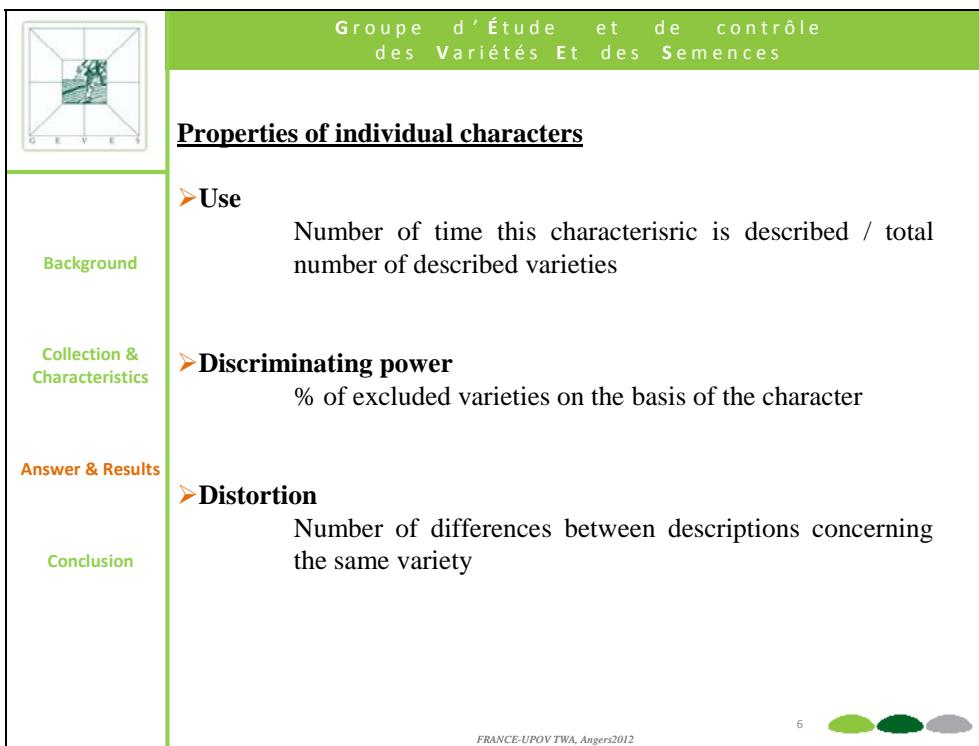
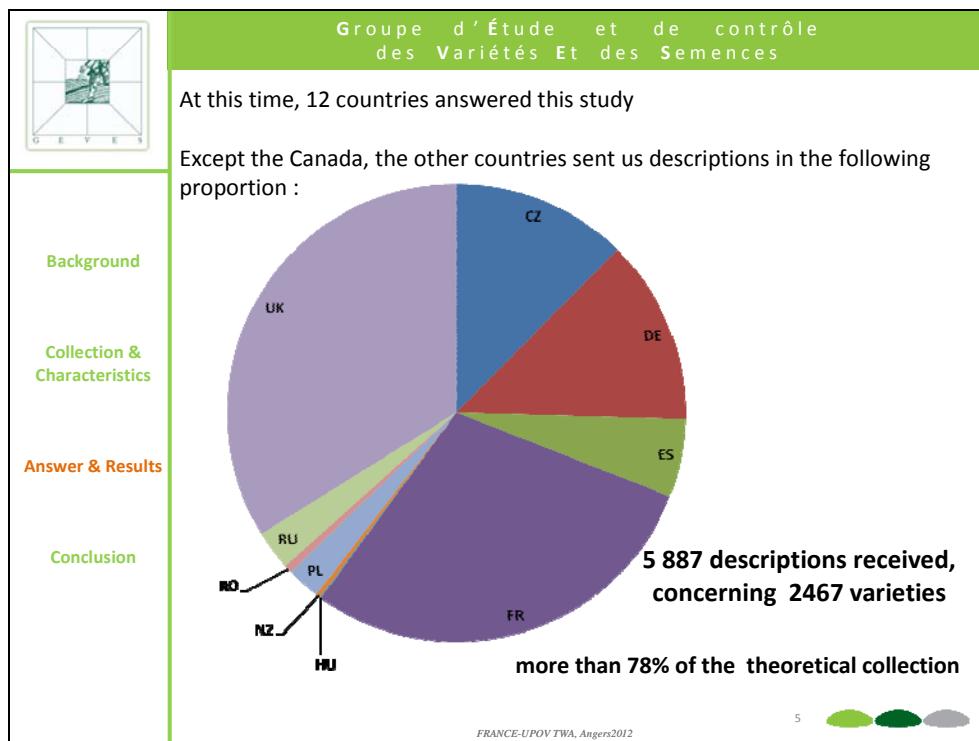
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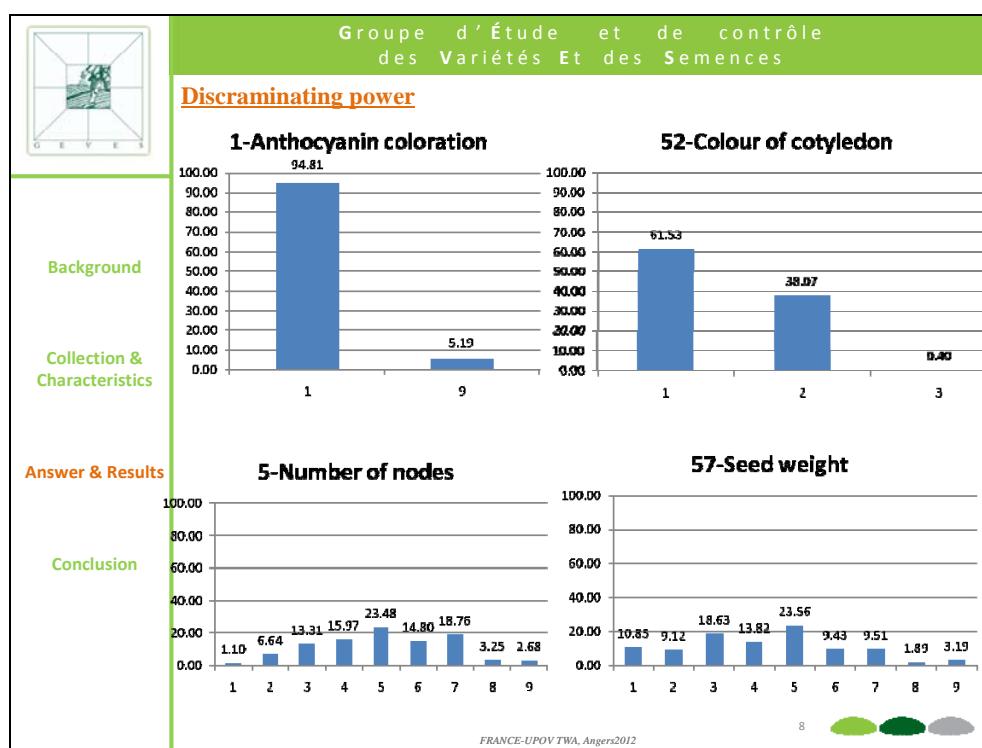
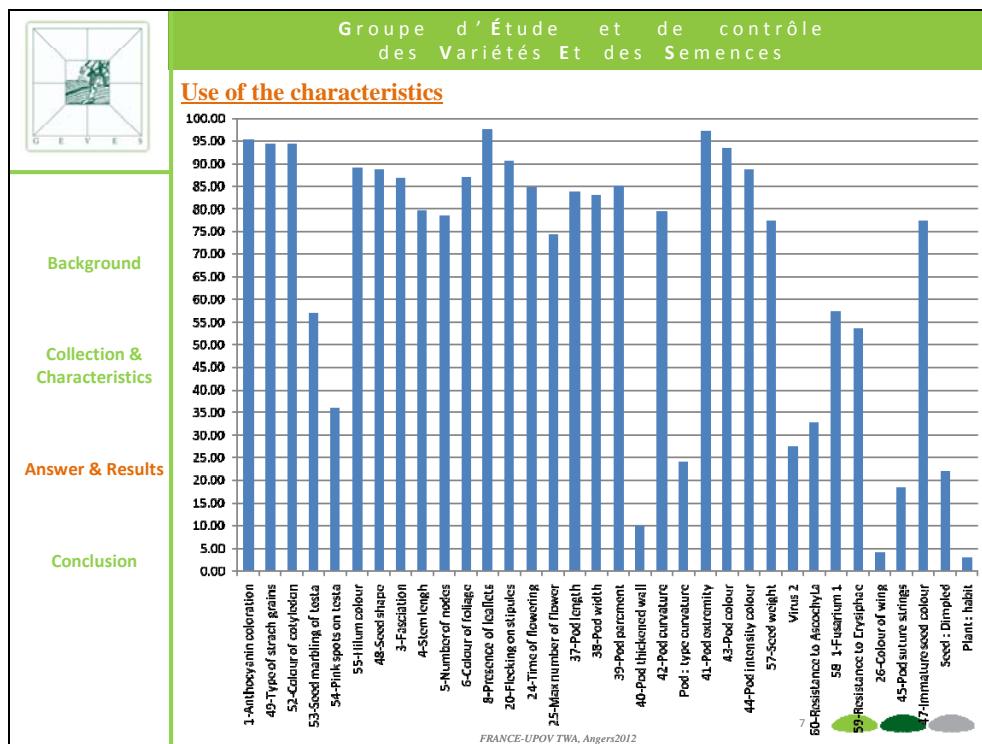


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Background Collection & Characteristics Answer & Results Conclusion	<p><u>Monterey (USA, 2011) :</u></p> <ul style="list-style-type: none"> ▪ TWV/45/24 “Partial Revision of the Test Guidelines for Pea (TG/7/10)”, ▪ TWV/45/6 “Variety Descriptions Databases” ▪ TWV/45/13 “Concept of a Database Containing Pea Variety Descriptions” <p><u>Goals :</u></p> <ul style="list-style-type: none"> ▪ to define the theoretical collection of varieties of common knowledge ▪ to collect a maximum of descriptions of these varieties ▪ to define reliable characteristics for use as excluding characteristics <p style="text-align: center;">↳ = strong and discriminant characteristics</p> <p><u>Aim : To obtain a Common Working Data Base</u></p> <p>Helpful to choose reference varieties in DUS examination.</p> <p style="text-align: center;">2 </p>
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		Number of varieties with # notes	Total number of varieties with distortion more than 1 note	Percentage of varieties with distortion more than 1 note
<u>Qualitative characteristics :</u>				
Background	Collection & Characteristics	1 : Anthocyanin coloration	11	1798 0.61
		52 : Color of cotyledon	149	1784 8.35
Answer & Results		8 : Presence of leaflets	33	1796 1.84
	Conclusion	41 : Pod extremity	216	1784 12.11
		58-1 : Fusarium 1	81	1126 7.19
		60 : Resistance to Ascochyta	12	328 3.66
				% in red.
Obviously, some differences are due to errors in notes transcriptions, using of wrong guidelines or observation of not true variety. Contact will be made to clarify some issues.				
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		Number of varieties with # notes	Total number of varieties with distortion more than 1 note	Percentage of varieties with distortion more than 1 note		
<u>Quantitative characteristics :</u>						
Background	Collection & Characteristics				Differences between varieties	
					1 note	2 notes
					3 notes	
Answer & Results		5 : Number of nodes	1271	1404 90.53	371	531
					64.10	26.28
						6.62
		4 : Stem length	1206	1413 85.35	401	396
					56.97	28.95
						12.31
		57 : Seed weight	1135	1387 81.83	475	400
					47.58	18.75
						6.63
Conclusion					% in red.	
For these continuous characteristics, special attention must be paid in term of distances between varieties.						
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 Background Collection & Characteristics Answer & Results Conclusion	<p>To conclude, it's possible to characterize each grouping character to help the experts to choose the best...</p>			
		Using	Discrimination	Distortion
	1 : Anthocyanin coloration	95.26	95/5	0.61
	52 : Color of cotyledon	94.36	60/40	8.35
	8 : Presence of leaflets	97.49	60/40	1.84
	41 : Pod extremity	97.20	75/25	12.11
	58 : Resistance to Fusarium	57.19	75/25	7.19
	60 : Resistance to ascochyta	32.87	80/20	3.66
	5 : Number of nodes	78.49	64 -> 4/5/6	26.28
	4 : Stem length	79.65	47 -> 4/5/6	28.95
57 : Seed weight	77.31	40 -> 4/5/6	18.75	

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 Background Collection & Characteristics Answer & Results Conclusion	<p>What is it possible to do ? Relation for number of nodes between UK and FR on 875 varieties ...</p>			
		Number of nodes (Difference UK/FR)	Percentage of varieties	
	-6	0.11		
	-5	0.11		
	-4	1.03		
	-3	16.46		
	-2	49.83)	
	-1	29.60) 80 %	
	0	2.63)	
	1	0.11		
2	0.11			

Except for some errors, (to be clarified), more than 80 % of the varieties have one or two nodes less in UK than in FR.

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[End of Annex and of document]