



TWV/46/6 Add.
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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
Geneva

TECHNICAL WORKING PARTY FOR VEGETABLES
Forty-Sixth Session
near the city of Venlo, Netherlands, June 11 to 15, 2012

ADDENDUM


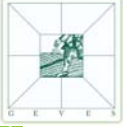
VARIETY DESCRIPTION DATABASES

Document prepared by an expert from France

The Annex to this document contains a copy of a presentation, made by an expert from France at the forty-sixth session of the Technical Working Party for Vegetables, concerning reference collections and grouping characteristics, using the example of Pea.


[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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Background	<p>Monterey (USA, 2011) :</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”
Collection & Characteristics	<p>Goals :</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>↳ = strong and discriminant characteristics</p>
Answer & Results	<p>Aim :To obtain a Common Working Data Base</p>
Conclusion	<p>Helpful to use reference varieties in DUS examination.</p>

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Reference collection

Pea theoretical collection = 3 127 varieties

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Characteristics envisaged for excluding

- Current grouping characteristics
i.e. anthocyanin coloration, number of nodes up to and including first fertile node, hilum color ...
- New potential grouping characteristics
i.e. fasciation, time of flowering, resistance...

➔ **2 excel files have sent in order to know**

Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	

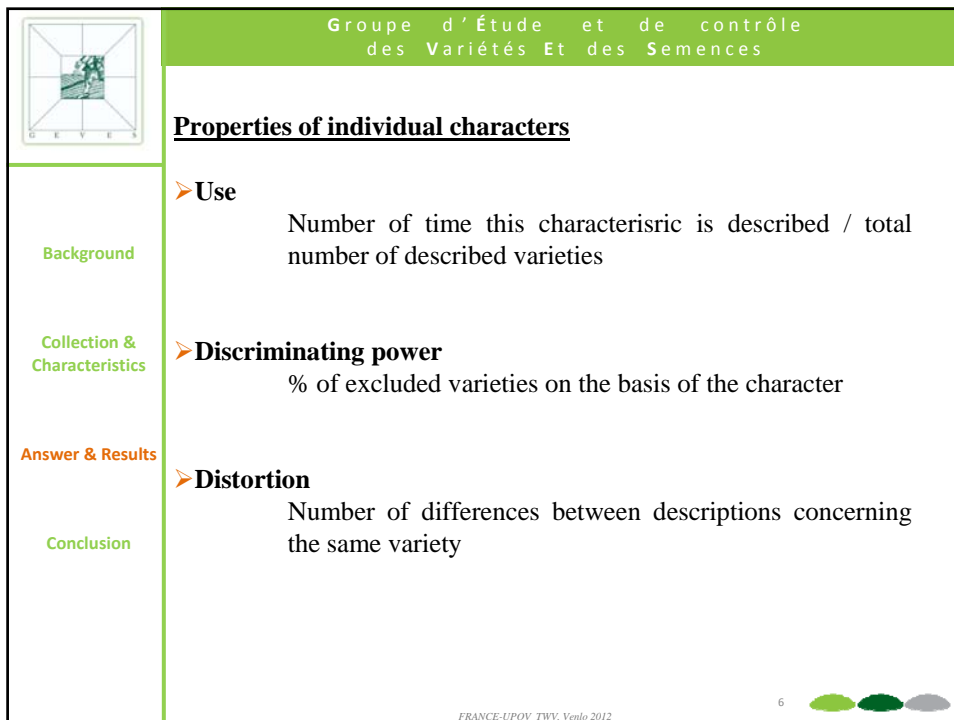
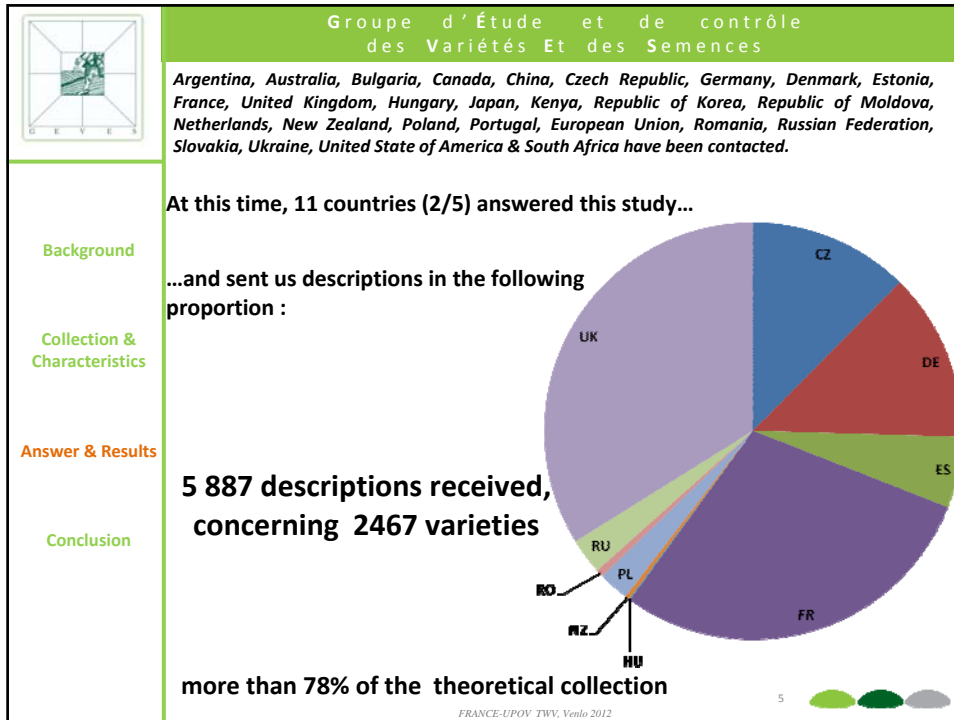
If the variety should appear in the technical collection,
If description or/and seeds are available.

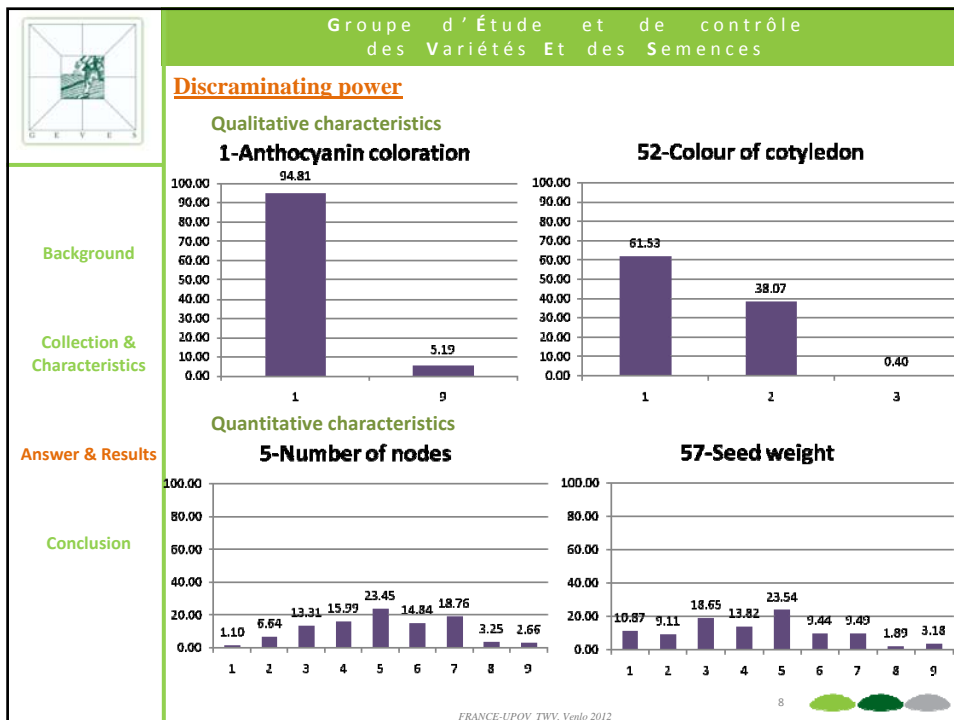
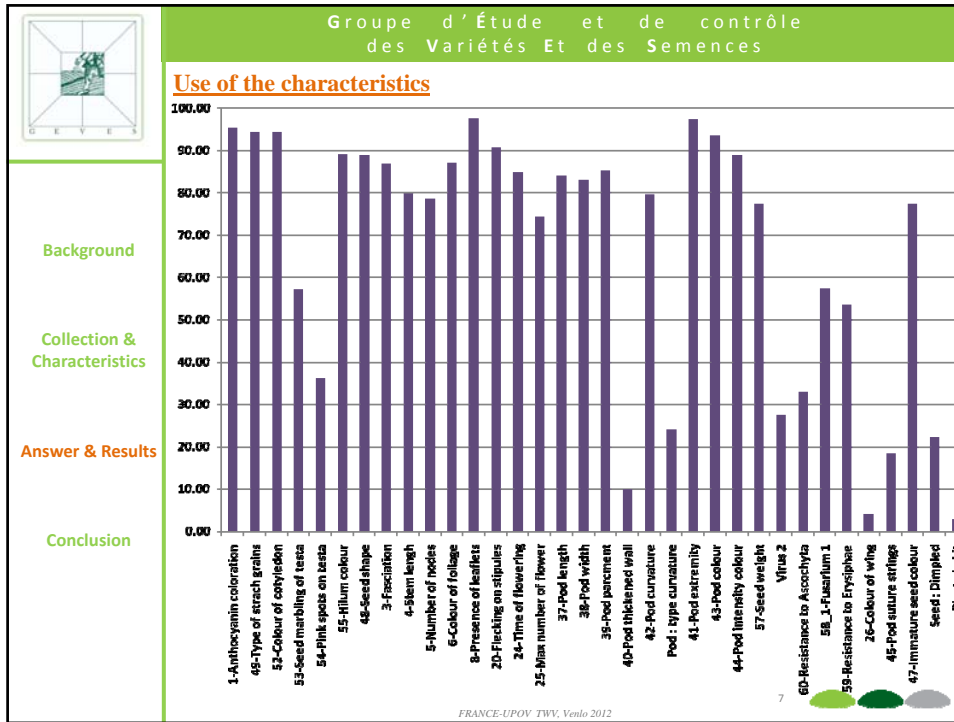
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The note of each characteristic for each variety.


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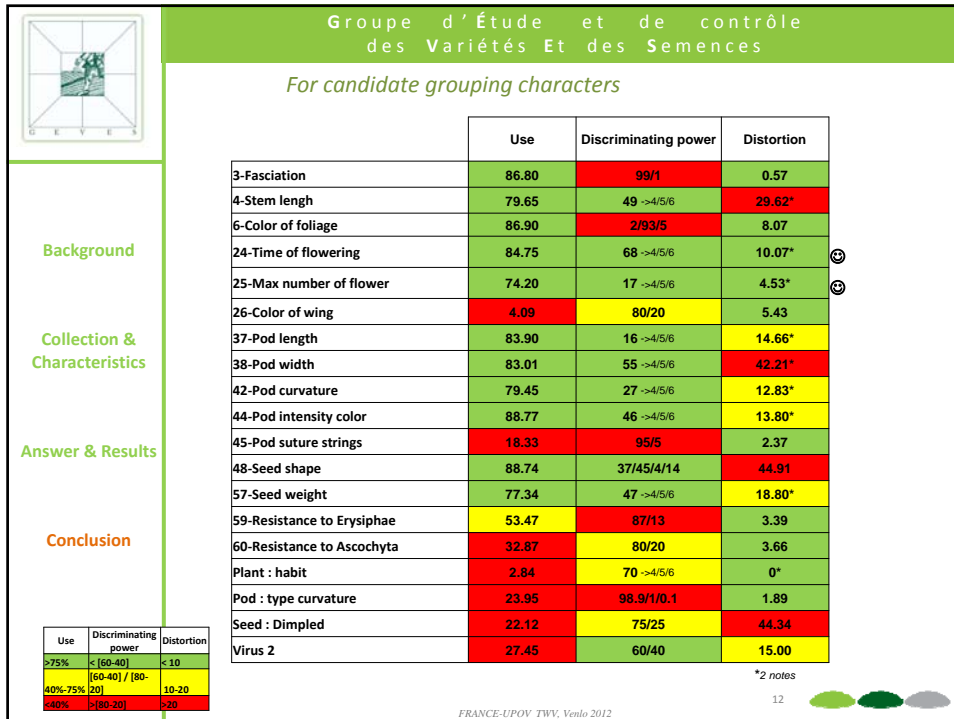
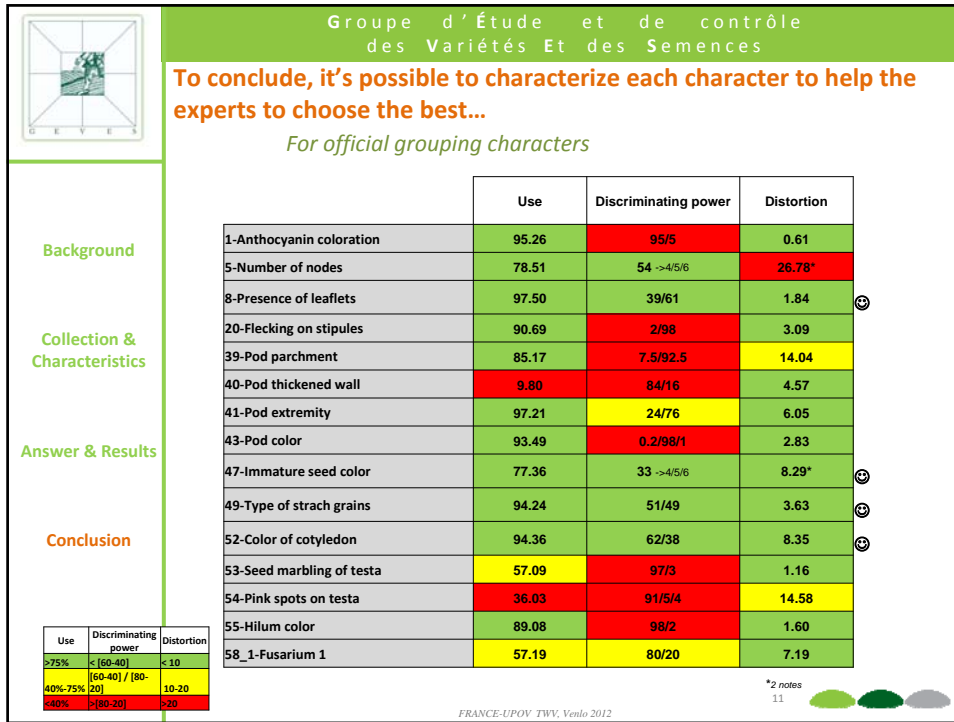
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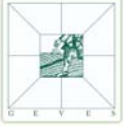


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Distortion (1/2) <i>Analysis performed only on varieties for which we received more than one description.</i>				
Background Collection & Characteristics Answer & Results Conclusion	Qualitative characteristic	Number of varieties with # notes	Total number of varieties	Percentage of distortion
	1-Anthocyanin coloration	11	1798	0.61
	52-Color of cotyledon	149	1784	8.35
	8-Presence of leaflets	33	1796	1.84
	41-Pod extremity	108	1784	6.05
	58.1-Fusarium 1	81	1126	7.19
	60-Resistance to Ascochyta	12	328	3.66
Obviously, some differences are due to errors in notes transcriptions, using wrong guidelines or observations of wrong variety. Contact will be made to clarify some issues				
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Groupe d'Étude et de contrôle des Variétés Et des Semences							
Distortion (2/2)							
Background Collection & Characteristics Answer & Results Conclusion	Quantitative characteristic	Number of varieties with # notes	Total number of varieties	Percentage of distortion	Difference between varieties		
					1 note	2 notes	3 notes
	5-Number of Nodes	1271	1378	92.24	900 65.31	369 26.78	93 6.75
	4-Stem length	1206	1381	87.34	805 58.29	409 29.62	174 12.60
	42-Pod curvature	1110	1351	82.16	511 37.82	174 12.88	44 3.26
	57-Seed weight	1135	1383	82.07	660 47.72	260 18.80	92 6.65
	47-Immature seed color	830	1255	66.14	473 37.69	104 8.29	50 3.98
	25-Number max of flower	457	1325	34.49	164 12.38	60 4.53	31 2.34
For these continuous characteristics, special attention must be paid in term of distances between varieties							
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Among 3127 varieties present in the theoretical collection, 667 ones are without description after this study :

- **103 from the EU catalogues including 48 non-withdrawn ones**
 ↳ *countries in charge of the admission should be contacted*
- **13 from CPVO**
- **415 from UPOV (PLUTO database)**
- **108 from OECD**
- **21 are EU Provisional Market Authorization**


Background

Collection & Characteristics


Answer & Results

Conclusion

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How to go on...

What is it possible to do ?

Relation for number of nodes between UK and FR on 875 varieties ...

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
0	2.63
1	0.11
2	0.11

) 80 %
)
)

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

Background

Collection & Characteristics

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Conclusion

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