

TWV/47/18

**ORIGINAL:** English **DATE:** May 2, 2013

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

Geneva

#### **TECHNICAL WORKING PARTY FOR VEGETABLES**

#### Forty-Seventh Session Nagasaki, Japan, May 20 to 24, 2013

REVISION OF DOCUMENT TGP/8: PART II:
NEW SECTION: DATA PROCESSING FOR THE ASSESSMENT OF DISTINCTNESS AND FOR
PRODUCING VARIETY DESCRIPTIONS

Document prepared by the Office of the Union

- 1. The purpose of this document is to present the developments concerning a possible new section for document TGP/8: "Data Processing for the Assessment of Distinctness and for Producing Variety Descriptions".
- 2. The following abbreviations are used in this document:

CAJ: Administrative and Legal Committee

TC: Technical Committee

TC-EDC: Enlarged Editorial Committee

TWA: Technical Working Party for Agricultural Crops

TWC: Technical Working Party on Automation and Computer Programs

TWF: Technical Working Party for Fruit Crops

TWO: Technical Working Party for Ornamental Plants and Forest Trees

TWV: Technical Working Party for Vegetables

TWPs: Technical Working Parties

3. The structure of this document is as follows:

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SUMMARY OF DIFFERENT APPROACHES PRESENTED AT THE TECHNICAL WORKING

PARTIES IN 2012

#### **BACKGROUND**

The Technical Committee (TC), at its forty-eighth session, held in Geneva from March 26 to 28, 2012, considered Annex III: "TGP/8 PART I: DUS Trial Design and data analysis, New Section 6 - Data processing for the assessment of distinctness and for producing variety Descriptions" in conjunction with Annex VIII: "TGP/8 PART II: Techniques used in DUS Examination, New Section 13 - Methods for data processing for the assessment of distinctness and for producing variety descriptions" of document TC/48/19 Rev. It agreed that the information provided in Annex VIII of document TC/48/19 Rev. and at the UPOV DUS Seminar, held in Geneva in March 2010, together with the method provided by Japan and the method used in France for producing variety descriptions for herbage crops, as presented at the TWC at its twenty-sixth session (see document TWC/26/15, TWC/26/15 Add. and TWC/26/24), provided a very important first step in developing common guidance on data processing for the assessment of distinctness and for producing variety descriptions, but concluded that the information as presented in Annex VIII of document TC/48/19 Rev. would not be appropriate for inclusion in document TGP/8. It agreed that the Office of the Union should summarize the different approaches set out in Annex VIII of document TC/48/19 Rev. with regard to aspects in common and aspects where there was divergence. As a next step, on the basis of that summary, consideration could be given to developing general guidance. The TC agreed that the section should include examples to cover the range of variation of characteristics. It further agreed that the detailed information on the methods should be made available via the UPOV website, with references in document TGP/8 (see document TC/48/22 "Report on the Conclusions" paragraph 52).

#### **DEVELOPMENTS IN 2012**

#### **Technical Working Parties**

- 5. At their sessions in 2012, the TWA, TWV, TWC, TWF and TWO, considered documents TWA/41/30, TWV/46/30, TWC/30/30, TWF/43/30 and TWO/45/30 respectively, which contained a presentation on "Summary of different approaches of transformation of measurements into notes for Variety Description", as reproduced in the Annex to this document.
- 6. The TWPs, at their sessions in 2012, made the following comments:

General	The TWA noted the information that a summary of different approaches used for data processing for the assessment of distinctness and for producing variety	TWA
	descriptions would be developed by the Office of the Union (see document TWA/41/34 "Report", paragraph 44).	
	The TWV considered document TWV/46/30 and received a presentation made by the Office containing a summary of different approaches for transforming means into notes for variety descriptions. The TWV was informed that the summary would be presented to the TWC at its thirtieth session and that it would be further developed (see document TWV/46/41 "Report", paragraphs 43 and 44).	TWV
	The TWC noted information provided in documents TWC/30/30 and TWC/30/30 Add. and agreed that the experts from Finland, Italy and the United Kingdom would support the Office of the Union to summarize the different approaches for further developing common guidance on data processing for the assessment of distinctness and for producing variety descriptions (see document TWC/30/41 "Report", paragraph 42).	TWC
	The TWC agreed that experts from the United Kingdom in cooperation with experts from France and Germany should conduct a practical exercise. The exercise would be to process a common data set to produce variety descriptions in order to determine the aspects in common and where there was divergence among the methods (see document TWC/30/41 "Report", paragraph 43).	
	The TWF considered documents TWF/43/30 and TWF/43/30 Add. and received a presentation made by the Office containing a summary of different approaches for transforming means into notes for variety descriptions.	TWF
	The TWF expressed concern that a specific country may have difficulty in	

describing the full range of states of expression of a characteristic because some varieties might not be available. A universal set of example varieties, the use of historical data and experience of the experts could be a way to address this issue.  The TWF recommended that consideration be given to the construction of a	
meaningful range of expression in the case of a limited range of available varieties. (see document TWF/43/38 "Report", paragraphs 29 to 31)	
The TWO agreed with the recommendations of the TWF that consideration be given to the construction of a meaningful scale of expression in the case of a limited range of available example varieties (see document TWO/45/37 "Report", paragraph 32).	TWO

7. In accordance with the proposal of the TWC, the Office of the Union invited experts from the United Kingdom, France and Germany to make a proposal for a practical exercise.

#### **DEVELOPMENTS IN 2013**

#### Technical Committee

- 8. The Technical Committee (TC), at its forty-ninth session held in Geneva from March 18 to 20, 2013, considered document TC/49/29 "Revision of document TGP/8: Part II: Techniques Used in DUS Examination, New Section: Data Processing for the Assessment of Distinctness and for Producing Variety Descriptions".
- 9. The TC requested the Office of the Union to request experts from the United Kingdom, France and Germany, or other members of the Union, to provide a common data set of self-pollinated and/or vegetatively propagated varieties, because the COY method was already well established for cross-pollinated varieties, for performing a practical exercise. (see document TC/49/41 "Report on the Conclusions", paragraph 66).

#### Practical exercise with a common data set

- 10. Following the request from the TC at its forty-ninth session, experts from the United Kingdom, France and Germany have been asked to provide a common data set of self-pollinated and/or vegetatively propagated varieties for performing a practical exercise. In response to some of the experts expressing difficulties in providing the data requested by the TC, the other members of the Union that have contributed to the information provided in the Annex of this document (Netherlands, Finland, Republic of Korea and Japan), have been invited to contribute to the practical exercise by providing a common data set of self-pollinated and/or vegetatively propagated varieties.
- 11. A report on developments with regard to the practical exercise will be made to the TWV at its forty-seventh session.
  - 13. The TWV is invited to consider developments on a practical exercise with a common data set to produce variety descriptions of self-pollinated and/or vegetatively propagated varieties, in order to determine the aspects in common and divergence between methods, with a view to developing general guidance.

[Annex follows]

#### **ANNEX**

#### Technical Working Party on Automation and Computer Programs

Thirtieth Session

# TRANSFORMATION OF MEASUREMENTS INTO NOTES FOR VARIETY DESCRIPTIONS

SUMMARY OF DIFFERENT APPROACHES

Chisinau, Republic of Moldova June 26 to 29, 2012

1

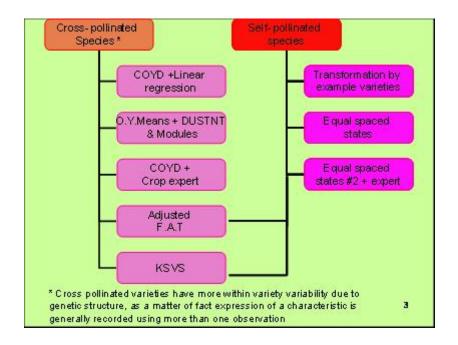
#### **OVERVIEW! CONTEXT! BACKGROUND**

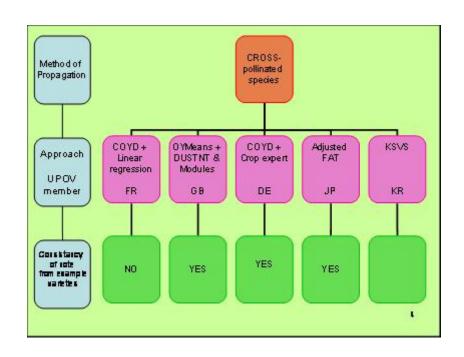
 In order to produce a summary of <u>different</u> approaches on data processing

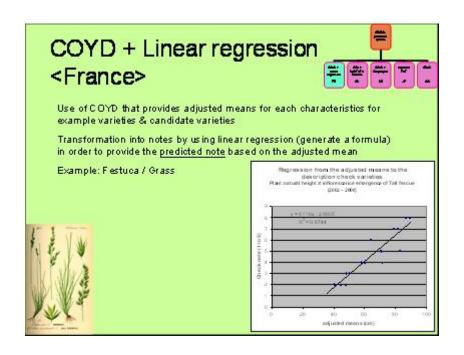
(see document TC/48/22 "Report on conclusions", paragraph 52)

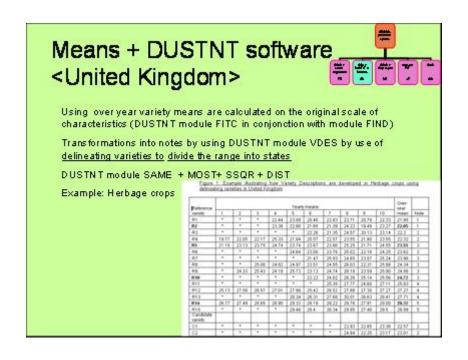
- For transforming means into notes
- For Quantitative (QN) characteristics recorded by measurements (M)
- In order to <u>develop a common guidance</u> and harmonized processes

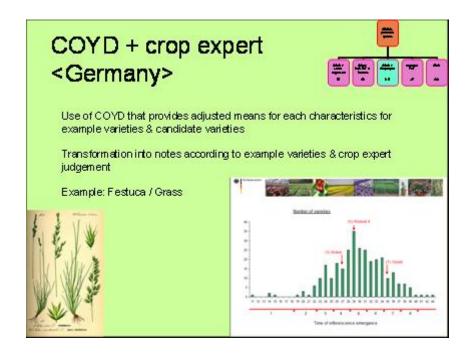
2

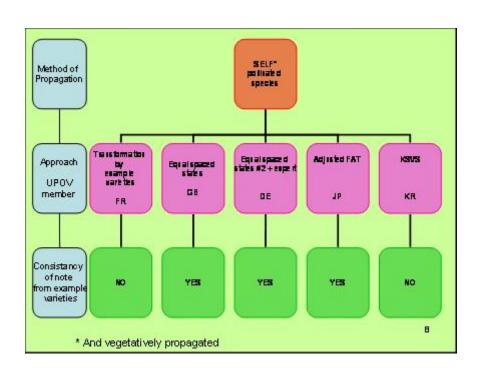


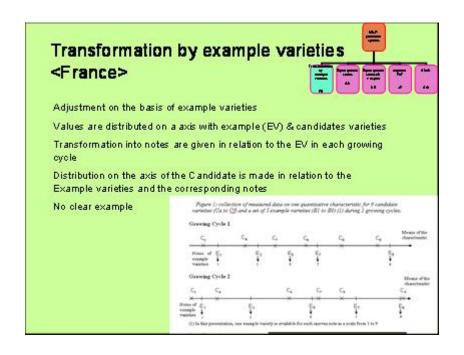


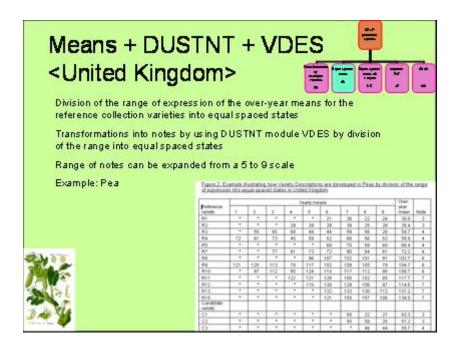


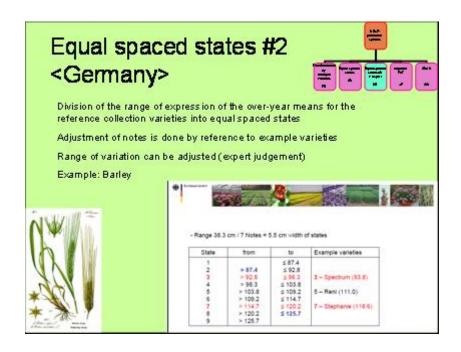






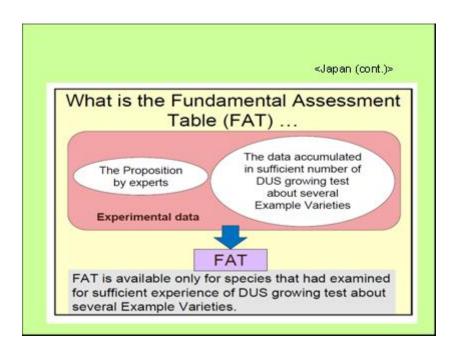






# Adjusted Full Assesement Table (FAT) <Japan>

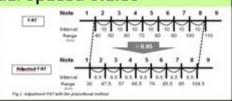
- FAT is a table to evaluate the notes from the datas of QN characteristics
- The notes are based on example variety's data from ONE growing trial + historical datas
- · (Mainly use for ornamental & veg. crops)
- Same method for self and cross,
- The adjustable range changes according to dispersion of Historical data of the Example variety



# FAT proportional method

<Japan (cont.)>

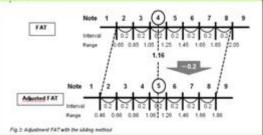
- Range & interval of notes are adjusted once
- Calculate by the proportion of the measured data to Mean of the historical data about Example Varieties.
- The interval of notes is adjusted accordingly in equal spaced states

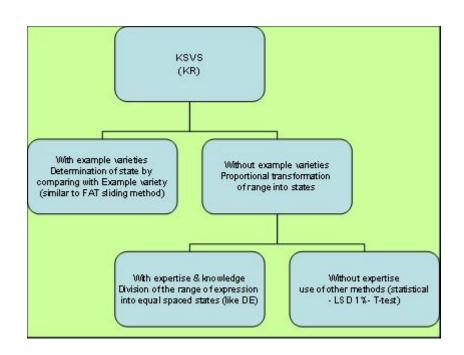


## FAT Sliding method

<Japan (cont.)>

- Range is adjusted- interval is not changed
- Calculate by the subtraction of Mean of the historical data from the measured data about Example Varieties (EV).
- Adjustment based on the least variable EV





### **NEXT STEPS**

- Check if summary is correct
- Check how the stability of descriptions of reference varieties is representative and stable over years

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[End of Annex and of document]