



TC/50/22 Add.

ORIGINAL: Inglés

FECHA: 22 de abril de 2014

UNIÓN INTERNACIONAL PARA LA PROTECCIÓN DE LAS OBTENCIONES VEGETALES

Ginebra

COMITÉ TÉCNICO

**Quincuagésima sesión
Ginebra, 7 a 9 de abril de 2014**

ADENDA


REVISIÓN DEL DOCUMENTO TGP/8: PARTE II: TÉCNICAS UTILIZADAS EN EL EXAMEN DHE,
SECCIÓN 9: EL CRITERIO COMBINADO INTERANUAL DE HOMOGENEIDAD (COYU)

Documento preparado por la Oficina de la Unión

*Descargo de responsabilidad: el presente documento no constituye
un documento de política u orientación de la UPOV*

El Anexo del presente documento contiene una copia de la ponencia sobre las mejoras propuestas del método COYU (solamente en inglés).


[Sigue el Anexo]



Proposed Improvements to COYU

Adrian Roberts
United Kingdom

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COYU

Combined-Over-Year Uniformity Method

- Ref. TG/1/3, TGP/8, TGP/10

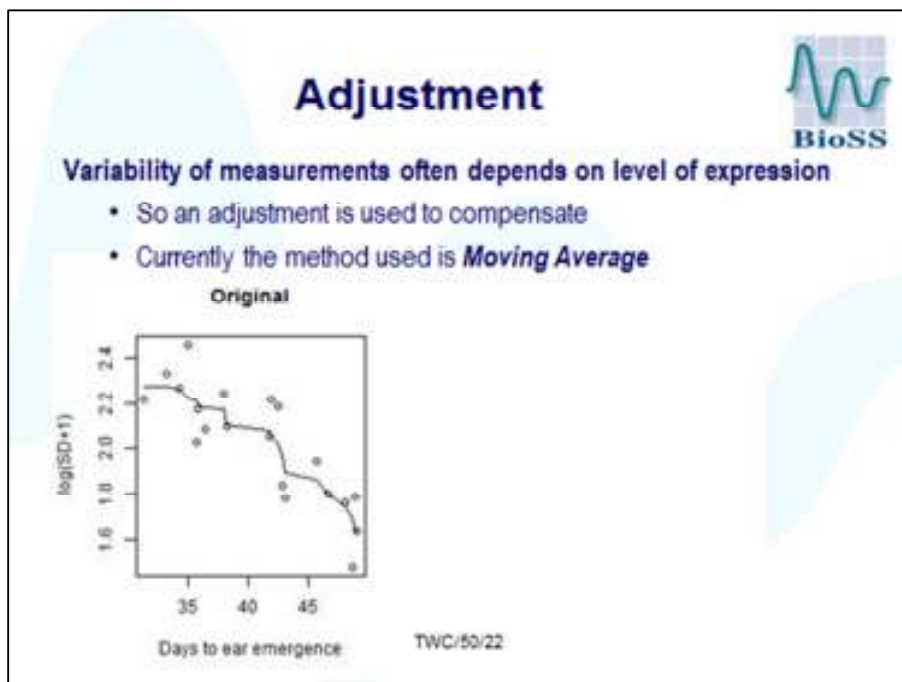
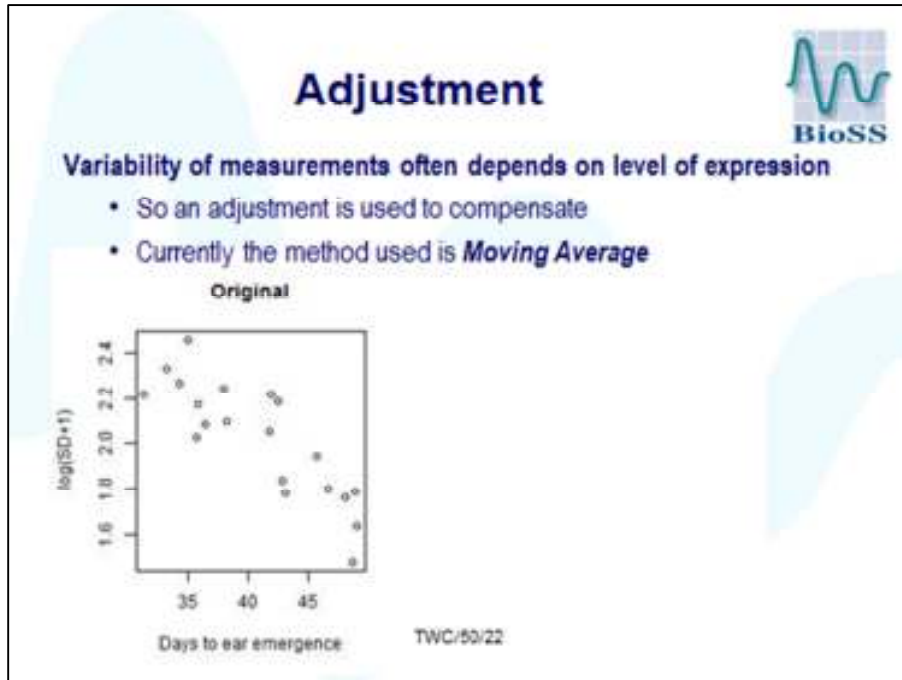
For quantitative characteristics

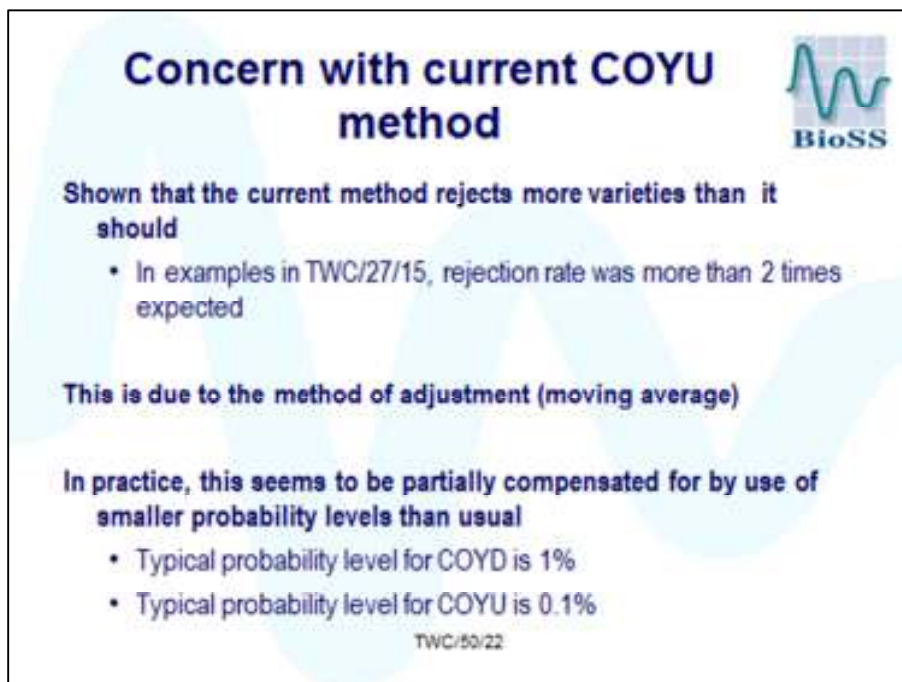
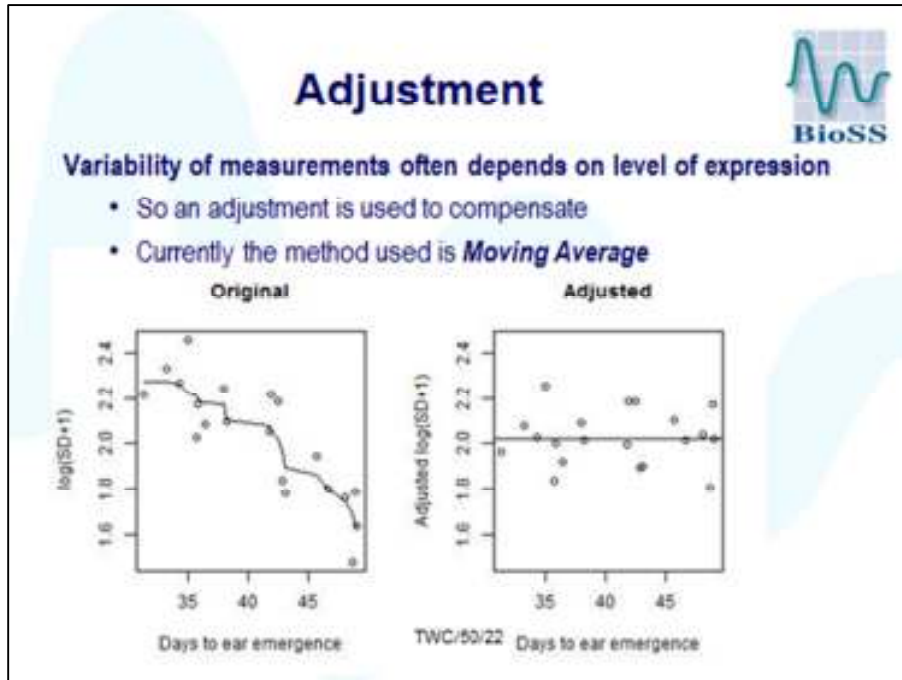
- Mainly for cross-pollinated crops

Uniformity of candidate compared with comparable varieties

- Based on standard deviations calculated from individual plant observations
- Takes into account variation between years
- Uses analysis of variance with a moving average adjustment

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TWC work on improving COYU



Considered various alternative methods of adjustment

- Needs to fit relationships between variation and level of expression well
- No bias problem

Method called "cubic smoothing spline" was found to be suitable

- Flexibility constrained to 4 effective degrees of freedom

This was demonstrated at TWC last year

- *R* software

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Issues arising




Key issues to deal with:

- **Choice of probability levels**
 - Optimise to match decisions with current approach?
- **When a new variety has a level of expression outside that seen in comparable varieties**
 - Also an issue for the current COYU
- **Minimum number of varieties required for COYU**
 - Easier than with moving average

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Current work



Developing a demonstration module in DUST

- Plan to demonstrate at TWC in June 2014

Ask TWC members to try on their own data

- Compare with current method

Survey of use of COYU and software

- See Annex III
- 7 members from 11 responding use COYU
- Software: DUST, SAS and GenStat
- Useful information for future guidance

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Suggested next steps



- **Support from TC in 2014?**
- **Further consideration by TWC in 2014 and 2015**
 - Practical experience
 - Software (DUST and alternatives)
 - Technical issues
 - Consideration of implementation
- **Wider consideration by UPOV (TC etc.)**
 - Agree to replace current COYU with proposal?
 - How to do so?

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