



TWV/49/31 Add.
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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
Geneva

TECHNICAL WORKING PARTY FOR VEGETABLES

Forty-Ninth Session
Angers, France, June 15 to 19, 2015

ADDENDUM TO

USE OF DISEASE RESISTANCE CHARACTERISTICS IN DUS EXAMINATION


Document prepared by an expert from the European Union

Disclaimer: this document does not represent UPOV policies or guidance

1. The Annex to this document contains a presentation on the use of disease resistance characteristics in DUS examination made at the forty-ninth session of the Technical Working Party for Vegetables (TWV).

[Annex follows]

ANNEX



CPVO
Community Plant Variety Office


TWW/49 Session

Item 14: Use of disease resistance characteristics in DUS examination

Angers, 18 June 2015

Introduction

- Subject discussed initially at TWW/48
- TWW/48 agreed on the use and value of disease resistance characteristics in UPOV vegetable guidelines
- TGP/7 should be reviewed in this subject area. Further work was required, particularly in following areas:
 - **Delay in introduction of asterisk to disease resistance characteristics**
 - **Guidance on uniformity standards for susceptible varieties**




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Practical difficulties in relation to disease resistance characteristics

Consequences for **examination authorities**:

- a) Investment required: financial, facilities, staff.
 - **Benefits need to outweigh costs!**
- b) Reliable methodologies required.
 - **Harmonisation work necessary (see CPVO R&D projects: Harmores 1 & 2,3?)**
- c) Levels of expertise amongst examination authorities can differ greatly
 - **Bilateral agreements**




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Practical difficulties in relation to disease resistance characteristics

Consequences for **breeders**:

- a) Varying levels of importance given on the matter
- b) Methodologies developed in-house v. UPOV prescribed methodologies. Can lead to different results in DUS test compared to declaration in TQ! Implications:
 - **No impact on DUS test**
 - **Impact on DUS test, but application allowed to proceed**
 - **Impact on DUS test, application rejected**
- c) Requirements on uniformity need to be fulfilled, **even for susceptible varieties**




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Strategy for introduction of asterisk to disease resistance characteristics

- CPVO intends to introduce later in 2015 a running-in phase of 5 years for new (*)
- Consensus required by all parties
- Allows breeders and examination authorities to adapt to the future situation
- Not possible at UPOV level!
 - **Should TWV recommended a modification to TGP/7 to allow such a possibility?**




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Development of guidance on uniformity standards for susceptible varieties

- Disease resistance characteristic useful for Distinctness, but also need to fulfill Uniformity criterion
- However, is this really pertinent for susceptible varieties?
- Genetics of disease/variety interact may mean some off-types should be regarded as « escapes »
 - **Should TWV set up sub-group to investigate matter further and propose recommendations?**



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Greater collaboration with other groups
working on disease resistance

- Further efforts required to harmonise terminology
- ISF working group – to act as focal point on matter?
- Double work in some parts of the world
- Periodic review in order to keep up with appearance of new races
- Uptake of new techniques
 - **Molecular assisted markers...**

**THANK YOU
FOR YOUR ATTENTION**



[End of Annex and of document]