

 Bundessortenamt

Development and use of variety descriptions

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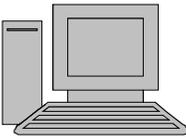
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Data for distinctness and description



Growing trial



Database

- assessed annual data
- annual transformation into notes

Stored annual data are used in a different way for:

1. Assessment of D in the same growing trial
2. Establishment of official variety description
3. Selection of similar varieties for new applications
4. Verification of plant material

Year 1: CAND →

Year 2: CAND →

Year 3: REF →

Year 4: REF →

Year 5: REF →

Year 6: REF →

... →

Year X: REF →

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How annual data from the database are used?

1. **Assessment of distinctness in the same growing trial**
 - (a) Side by side comparison
 - (b) Comparison of actual measurements/visual observations for each year (and location) or application of COY
2. **Establishment of official variety description**
 - Transformation of annual measurements into notes (notes stored in DB together with measured values)
 - In case of more than one growing cycle calculation of mean of notes over cycles
3. **Selection of similar varieties for new applications**
 - Comparison across different growing tests always based on notes
 - For each REF mean descriptions over several years are considered
4. **Verification of plant material**
 - (a) Side by side comparison = best way (provided standard sample is available)
 - (b) No standard sample: Same data as for selection of similar varieties

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Different levels to look at a characteristic

(TGP/8/2: Part I, Sect. 2.4)

Process level	Description of the process level	Remark
1	Characteristics as expressed in the trial	- Type of expression (QL, PQ, QN)
2	Data for evaluation of characteristics	- Data recorded in the trial - Visual observations or measurements (VG, VS, MG, MS) - Assessment of D based on data from same growing trial
3	Variety description	- Transformation of measured data into notes - If appropriate, final note across growing cycles - Management of reference collection = assessment of D based on data from different growing trials

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How annual data from the database are used?

1. Assessment of **distinctness** in the same growing trial >>> **Process Level 2**
 - (a) Side by side comparison
 - (b) Comparison of actual measurements/visual observations for each year (and location) or application of COY

2. Establishment of official variety **description** >>> **Process Level 3**
 - Transformation of annual measurements into notes (notes stored in DB together with measured values)
 - In case of more than one growing cycle calculation of mean of notes over cycles

3. Selection of **similar varieties** for new applications >>> **Process Level 3**
 - Comparison across different growing tests always based on notes
 - For each REF mean descriptions over several years are considered

4. **Verification** of plant material >>> **Process Level 3**
 - (a) Side by side comparison = best way (provided standard sample is available)
 - (b) No standard sample: Same data as for selection of similar varieties

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Meaningful notes

TG/1/3, TGP/7 GN 20: Notes must be meaningful for the assessment of DUS

- Appropriate description of the **range of variation in the species**
- Appropriate **reflection of clear differences and similarities** between varieties
- Consideration of environment: **stable descriptions** across growing cycles

How to get „meaningful notes“?

1. Do the varieties in the trial represent the whole variation of the known varieties or only part of it?
2. What is the smallest clear (and consistent) difference between two varieties?
3. How many notes are reasonable to describe the range of variation in the trial and in the whole collection?
4. Are the example varieties in the Test Guidelines appropriate for my conditions?

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