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DUST FOR WINDOWS (DUSTNT)  
REPORT ON DEVELOPMENTS

*Document prepared by the experts from the United Kingdom*

## DUST for WINDOWS (DUSTNT)

## REPORT ON DEVELOPMENTS

The DUST system

The DUST system has been developed to meet the needs of DUS (Distinctness, Uniformity and Stability) testing stations for software to organise, analyse and report data from DUS field trials. It is in routine use at several UK DUS centres for the management of data from trials of grasses, legumes, vegetables and fodder crops, and incorporates many of the UPOV-recommended statistical procedures for these crops.

The DUST system handles data through the stages of collection, storage, single-year summary, and multi-year summary. It may also be used to identify most similar varieties and produce variety descriptions. Each stage comprises one or more modules that will read and process data files and either produce new data files for processing by other modules or produce analyses.

DUST is available in an MSDOS or a Windows version.

Developments

Following requests from DUSTNT users in UPOV member States, DUST for Windows has been developed during the past year as follows:-

- LSD's are now included as a part of the COYD analysis in the outputs of the modules TVRP, TSUM and TVAL.
- It is now possible to evaluate the characters used in a COYD analysis according to the number of variety differences they were able to detect. This is provided in the TSUM module which produces a file of over year means which can be analysed by the DUST module to provide the character evaluations
- The output of the COYD module, TVRP gives a table for each candidate with a row for each variety and a column for each character. The table gives the sign and significance of the difference between the candidate and the varieties for each character. It is now possible to sort the rows according to the number of characters a variety is significantly different from the candidate by at a user-specified probability level.
- The same facility to sort the variety x character tables by a user-specified probability level is now provided in the cyclic control COYD module UNEQ and the module TEST.
- DUSTNT's requirement that the full stop is used as the decimal symbol and not a comma is now written into the downloading and installation instructions.
- The module SUMM, that summarises the single plant data, has been modified so that it produces a user-specified number of the largest ranges encountered in a trial for each character.

The latest version of DUSTNT is available from <http://www.afsni.ac.uk/services>

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