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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA

TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS

Thirty-Fourth Session Christchurch, New Zealand, October 31 to November 4, 2005

ADDENDUM TO DOCUMENT TWA/34/2

REPORT ON AN INTERNATIONAL SEED FEDERATION SPONSORED STUDY ASSESSING POSSIBLE ESSENTIAL DERIVATION RELATIONSHIPS BETWEEN RYEGRASS VARIETIES

Document prepared by the Office of the Union

At the thirty-fourth session of the Technical Working Party for Agricultural Crops held in Christchurch, New Zealand, from October 31 to November 4, 2005, under the agenda item concerning molecular techniques, Mr. Michael Camlin (United Kingdom) made a presentation on an International Seed Federation sponsored study assessing possible essential derivation relationships between ryegrass varieties. A copy of that presentation is provided as an Annex to this document.

[Annex follows]







| <u>Group</u> | Description | Accession code name |
|------------------------|--|---|
| | | Seed Common Tillers |
| М | IV EDV Selection (not EDV) | Madrid/S Madrid/T Madrid2/T Málaga/S Málaga/T Málaga2/T Mallorca/S Mallorca/T |
| B | IV EDV | Barcelona/S Barcelona/T Burgos/S Burgos/T |
| С | IV EDV | Córdoba/S Córdoba/T Cádiz/S Cádiz/T |
| Р | Polycross 11 (Extreme EDV 7 examples) 6 | Palencia/S Palencia/T Palma/S Palma/T Pamplona/S Pamplona/T |
| Τ | Common Background | Tarragona/S Tarragona/T Teruel/S Teruel/T |
| '/T' = sa '/S' = se | nme tillers of 60 seedlin cond sample from seed | gs used for Morphology and AFLP tests. |







| 1999-2002 and | ASSINSEL herbage members' opinions surveyed on using the EDV study Code of conduct adopted during the ISF Congress in Chicago. | |
|------------------|--|--|
| with | Ring test proposed to check technical details of protocol European breeders gave positive response but US breeders had concerns both technical & legal aspects | |
| Feb 2005 in O | B. Le Buanec, the research team and US breeders held discussions regon, USA and a validation study was proposed | |
| Oct 2005 | Protocol for validation study finalised by EU/US Working Group | |
| | Molecular: SSR markers (30-50) | |
| | Material: 50 accessions to include some original accessions | |
| | plus putative EDV pairs from US genepools | |
| | Phase 1: Compare genetic distances of 15 varieties (30 | |
| | plants/variety) with bulks of 10, 20 & 30 plants | |
| | Phase 2: Use buiks (if validated) to assess distances between all 50 | |
| | cooordinate in a multi-lab ring test. | |
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