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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

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TECHNICAL COMMITTEE

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EXCHANGE AND USE OF SOFTWARE AND EQUIPMENT

Document prepared by the Office of the Union

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1. The purpose of this document is to report on developments concerning exchange and use of software and equipment.

2. The structure of this document is as follows:

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3. The following abbreviations are used in this document:

| | |
|-------|---|
| CAJ: | Administrative and Legal Committee |
| TC: | Technical Committee |
| TWC: | Technical Working Party on Automation and Computer Programs |
| TWPs: | Technical Working Parties |

DOCUMENT UPOV/INF/16 "EXCHANGEABLE SOFTWARE"

Revision of document UPOV/INF/16

4. The Council, at its forty-eighth ordinary session, held in Geneva, on October 16, 2014, adopted the revision of document UPOV/INF/16 "Exchangeable Software (document UPOV/INF/16/4), on the basis of document UPOV/INF/16/4 Draft 1 (see document C/48/21 "Report on the Decisions", paragraph 25).

5. *The TC is invited to note that the Council, at its forty-eighth ordinary session, held in Geneva, on October 16, 2014, adopted the revision of document UPOV/INF/16 "Exchangeable Software" (document UPOV/INF/16/4).*

Software proposed for inclusion in document UPOV/INF/16 “Exchangeable software”

6. The procedure for considering software proposed for inclusion in document UPOV/INF/16 is set out in document UPOV/INF/16/4, as follows:

“2. Procedure for inclusion of software

“Software proposed for inclusion in document UPOV/INF/16 by members of the Union is, in the first instance, presented for review by the Technical Working Party on Automation and Computer Programs (TWC). On the basis of such presentations and the experience of members of the Union, the TWC makes a recommendation to the Technical Committee on whether to include that software in document UPOV/INF/16. In the case of a positive recommendation by the TC and by the Administrative and Legal Committee (CAJ), the software will be listed in a draft of document UPOV/INF/16, to be considered for adoption by the Council. Document UPOV/INF/16 is adopted by the Council.”

SISNAVA software

7. The TWC, at its thirty-first session, held in Seoul, Republic of Korea, from June 4 to 7, 2013, requested Mexico to provide further information on the SISNAVA software to clarify the method of determination for the crop specific limits of acceptance (sum of differences), including the role of the crop experts in this process, to be presented to the TWC at its thirty-second session (see document TWC/31/32 “Report”, paragraph 73).

8. The TWC, at its thirty-second session, held in Helsinki, Finland, from June 3 to 6, 2014, received a presentation from an expert from Mexico by electronic means on the SISNAVA software, as presented in Annex V to document TWC/32/7. The TWC agreed that the procedure for the calculation of differences for variety distinctness should take into account that differences in notes in PQ characteristics do not correspond to the size of the phenotypic difference. The TWC agreed that the discussions on the inclusion of the SISNAVA software in document UPOV/INF/16 should be continued subject to the conclusion on discussions on the variation of variety descriptions over years in different locations by the TWC (see document TWC/32/28 “Report”, paragraph 87).

9. The TC is invited to note that the discussions on the inclusion of the SISNAVA software in document UPOV/INF/16 will be continued in the TWC, subject to the conclusion on discussions on the variation of variety descriptions over years in different locations.

Information on use by members

10. Section 4 of document UPOV/INF/16 “Exchangeable Software” provides the following:

“4. Information on use by members of the Union

“4.1 A circular is issued to members of the Union on an annual basis, inviting them to provide information on their use of the software included in document UPOV/INF/16.

“4.2 The information on software use by members of the Union is indicated in the columns ‘Member(s) of the Union using the software’ and ‘Application by user(s)’. With regard to the indication of ‘Application by user(s)’, members of the Union can indicate, for example, crops or types of crop for which the software is used.”

11. On December 10, 2014, the Office of the Union issued Circular E-14/303 to the designated persons of the members of the Union in the TC, inviting them to provide or update information regarding the use of the software included in document UPOV/INF/16. The information received from Uruguay in response to the circular is included in Annex I to this document.

12. The comments of the TC, at its fifty-first session, concerning the use of software by members of the Union, will be reported to the CAJ at its seventy-first session, to be held in Geneva on March 26, 2015.

13. Subject to agreement by the TC at its fifty-first session, and the CAJ at its seventy-first session, a draft of document UPOV/INF/16/5 “Exchangeable Software” will be presented for adoption by the Council, at its forty-ninth ordinary session, to be held in Geneva on October 29, 2015.

14. *The TC is invited to:*

(a) consider the proposed revision of document UPOV/INF/16/4 concerning the inclusion of information on the use of software by members of the Union, as set out in Annex I to this document; and

(b) note that the comments of the TC, at its fifty-first session, concerning the use of software by members of the Union, will be reported to the CAJ at its seventy-first session, to be held in Geneva on March 26, 2015, and if agreed by the CAJ, a draft document UPOV/INF/16/5 will be presented for adoption by the Council at its forty-ninth ordinary session, to be held on October 29, 2015.

DOCUMENT UPOV/INF/22 “SOFTWARE AND EQUIPMENT USED BY MEMBERS OF THE UNION”

Adoption of document UPOV/INF/22/1

15. The TC, at its fiftieth session, held in Geneva, from April 7 to 9, 2014, and the CAJ, at its sixty-ninth session, held in Geneva, on April 10, 2014, agreed to propose document UPOV/INF/22 “Software and equipment used by members of the Union” for adoption by the Council at its forty-eighth ordinary session, to be held in Geneva on October 16, 2014 (see documents TC/50/36 “Report on the Conclusions”, paragraph 110 and CAJ/69/13 “Report of the Conclusions”, paragraph 41).

16. The Council, at its forty-eighth ordinary session, held in Geneva, on October 16, 2014, adopted document UPOV/INF/22/1 “Software and Equipment Used by Members of the Union”, on the basis of document UPOV/INF/22/1 Draft 1, and noted the plan to issue a circular to the designated persons of the members of the Union in the TC, inviting them to provide information regarding non-customized software and equipment used by members of the Union (see document C/48/21 “Report on the Decisions”, paragraph 26).

17. The TC is invited to note that the Council, at its forty-eighth ordinary session, held in Geneva, on October 16, 2014, adopted document UPOV/INF/22/1 “Software and equipment used by members of the Union”.

Software/Equipment proposed for inclusion in document UPOV/INF/22

18. The procedure for considering software and equipment proposed for inclusion in document UPOV/INF/22 is set out in document UPOV/INF/22/1, as follows:

“2.1 Software/equipment proposed for inclusion in this document by members of the Union is, in the first instance, presented to the TC.

“2.2 The TC will decide whether to:

- a) propose to include the information in the document;
- b) request further guidance from other relevant bodies (e.g. CAJ and TWPs); or
- c) propose not to include the information in the document.

“2.3 In the case of a positive recommendation by the TC and, subsequently by the CAJ, the software/equipment will be listed in a draft of the document, to be considered for adoption by the Council.”

19. On December 10, 2014, the Office of the Union issued Circular E-14/303 to the designated persons of the members of the Union in the TC, inviting them to provide information for document UPOV/INF/22. The information received from Croatia, Germany, Israel, Republic of Korea and Uruguay in response to the circular is included in Annex II to this document.

20. The comments of the TC, at its fifty-first session, concerning the use of software by members of the Union, will be reported to the CAJ at its seventy-first session, to be held in Geneva on March 26, 2015, and if agreed by the CAJ, a draft of document UPOV/INF/22/2 will be presented for adoption by the Council at its forty-ninth ordinary session, to be held on October 29, 2015.

21. *The TC is invited to:*

(a) *consider the information in Annex II to this document for inclusion in document UPOV/INF/22 and/or request further guidance from other relevant bodies; and*

(b) *note that, subject to agreement by the TC at its fifty-first session, the comments of the TC concerning the use of software by members of the Union will be reported to the CAJ at its seventy-first session, and if agreed by the CAJ, a draft of document UPOV/INF/22/2 will be presented for adoption by the Council at its forty-ninth ordinary session, to be held on October 29, 2015.*

[Annexes follow]

PROPOSED REVISION TO DOCUMENT UPOV/INF/16 "EXCHANGEABLE SOFTWARE"
(Information regarding the use of the software provided by Uruguay in reply to Circular E-14/303: appears highlighted)

(a) Administration of applications

| Date added | Program name | Programming language | Function (brief summary) | Source & contact details | Condition for supply | Member(s) of the Union using the software | Application by user(s) |
|------------------|--------------|--|--|--|--|---|------------------------|
| October 24, 2013 | ZAJVKA | SQL Windows | Information on applications (name and address of applicants, proposed denomination, date of application etc) and registration (denomination, date of registration) | Russian Federation: State Commission of the Russian Federation for Selection Achievements Test and Protection, Valentin Sherbina, Chief of IT Department E-mail: gossort@gossort.com | Only available in Russian | RU | all crops |
| October 16, 2014 | SIVAVE | Database: Mysql 5.1 PHP Version 2.5.9 Ajax. Javascript. Routines are integrated with Java Applets and several Java Archives (JARS). Complements: Zend Optimizer 3.3 Compilers: Zend Studio ScriptCase | Allows for the real-time dissemination of the status of proceedings concerning applications for breeders' rights in Mexico. | Mexico: E-mail: enriqueta.molina@snics.gob.mx / eduardo.padilla@snics.gob.mx | Written application and justification of need for use. | MX | all crops |

(b) On-line application systems(c) Variety denomination checking

(d) DUS trial design and data analysis

| Date added | Program name | Programming language | Function (brief summary) | Source & contact details | Condition for supply | Member(s) of the Union using the software | Application by user(s) |
|------------------|--------------|----------------------|---|--|----------------------|---|---|
| October 21, 2010 | DUSTNT | FORTRAN 90 | General program for analysis of data from DUS trials. Includes facilities for COY analysis and a wide range of multivariate analysis techniques | United Kingdom: Dr. Sally Watson Email: sally.watson@afbini.gov.uk | | GB | Herbage, Pea (Field & Veg), Parsnip, Swede, Onion, Brussels Sprout, Winter Oilseed Rape, Sugar Beet, Faba Beans, Spring Oilseed Rape, Kale, Linseed |
| | | | | | | CZ | Oilseed Rape, Grasses and Luzerne |
| | | | | | | EE | Grasses and Legumes |
| | | | | | | KE | Maize |
| | | | | | | VN | Maize, Flowers, Rice, Tomato, Potato, Soybean, Vegetables, and other species |
| October 21, 2010 | GAIA | Windev | Computes comparisons of varieties for management of reference collections | France: Email: christophe.chevalier@geves.fr | | FR | Sorghum, Sugar Beet, Maize, Wheat, Barley, Oats, Rapeseed, Sunflower, Triticale, Pea |
| | | | | | | CZ | Maize, Wheat, Barley, Oats, and Pea |
| | | | | | | HR | Barley, Maize, Soybean, Wheat |
| | | | | | | UY | Sorghum, Sugar Beet, Maize, Wheat, Barley, Oats, Rapeseed, Sunflower, Triticale, Pea |

(e) Data recording and transfer

| Date added | Program name | Programming language | Function (brief summary) | Source & contact details | Condition for supply | Member(s) of the Union using the software | Application by user(s) |
|------------------|--------------|----------------------|---------------------------------|---|----------------------|---|---|
| October 21, 2010 | SIRIUS | Windev | Hand-Held Data Capture Software | France: Email: christophe.chevalier@geves.fr | | FR | Sorghum, Sugar Beet, Maize, Wheat, Barley, Oats, Rapeseed, Sunflower, Triticale, Pea, Herbage |

(f) Image analysis

| Date added | Program name | Programming language | Function (brief summary) | Source & contact details | Condition for supply | Member(s) of the Union using the software | Application by user(s) |
|------------------|--------------|----------------------|---------------------------|--|----------------------|---|--|
| October 24, 2013 | AIM | Windows | Image processing software | France: E-mail: christophe.chevalier@geves.fr | | FR | Rapeseed, Sunflower, Hydrangea, Flax, Peas, Carrot, Maize, Winter wheat, Orchids |

(g) Biochemical and molecular data

[Annex II follows]

PROPOSED REVISION TO DOCUMENT UPOV/INF/22/1 "SOFTWARE AND EQUIPMENT USED BY MEMBERS OF THE UNION
(Information provided by Croatia, Germany, Israel, Republic of Korea and Uruguay in reply to Circular E-14/303)

(a) Administration of applications

| Date added | Title of software/equipment | Function (brief summary) | Source & contact details | Member(s) of the Union using the software/equipment | Application by user(s) |
|------------|----------------------------------|---|---|---|--|
| | Procedural data | Database for administrative data on plant varieties | Federal Plant Variety Office E-mail: uwe.meyer@bundessortenamt.de | DE | Employees of Federal Plant Variety Office and applicants |
| | MS Office Professional Plus 2010 | Applications management and database | | IL | |
| | Access | | | UY | |

(b) On-line application systems

| Date added | Title of software/equipment | Function (brief summary) | Source & contact details | Member(s) of the Union using the software/equipment | Application by user(s) |
|------------|-----------------------------|--|---|---|------------------------|
| | E- Application | Electronic application for the protection of plant varieties and approval including qualified electronic signature | Federal Plant Variety Office E-mail: uwe.meyer@bundessortenamt.de | DE | Applicants |
| | PDF | | | UY | |

(c) Variety denomination checking

| Date added | Title of software/equipment | Function (brief summary) | Source & contact details | Member(s) of the Union using the software/equipment | Application by user(s) |
|------------|-----------------------------------|---|---|---|---|
| | Checking of variety denominations | Checking of variety denominations in national procedures according to phonetic rules as a supplement to testing | Federal Plant Variety Office E-mail: uwe.meyer@bundessortenamt.de | DE | Employees of Federal Plant Variety Office |

(d) DUS trial design and data analysis

| Date added | Title of software/equipment | Function (brief summary) | Source & contact details | Member(s) of the Union using the software/equipment | Application by user(s) |
|------------|-----------------------------|---|--|---|---|
| | Catalogue | Cultivation design, data capture, compilation of lists, distinctness program, COYD and COYU, description of variety | Federal Plant Variety Office E-mail: uwe.meyer@bundessortenamt.de | DE | Employees of Federal Plant Variety Office |
| | GAIA; INFOSTAST | Study and analysis of results | | UY | |

(e) Data recording and transfer

| Date added | Title of software/equipment | Function (brief summary) | Source & contact details | Member(s) of the Union using the software/equipment | Application by user(s) |
|------------|-----------------------------|--|--|---|---|
| | Mobida | Mobile data capture with transmission of layout plan and data transfer to PC | Federal Plant Variety Office E-mail: uwe.meyer@bundessortenamt.de | DE | Employees of Federal Plant Variety Office t |
| | PANASONIC CF-U1 TOUGHBOOK | Data recording | Croatia E-mail: bojan.markovic@hcphs.hr | HR | Maize |
| | Motorola MC55A0 PDA | Field DUS tests data acquisition | | IL | |

(f) Image analysis

| Date added | Title of software/equipment | Function (brief summary) | Source & contact details | Member(s) of the Union using the software/equipment | Application by user(s) |
|------------|-----------------------------|--|--|---|---|
| | Image analysis | Automatic measurement of leaf characteristics in various plant species | Federal Plant Variety Office E-mail: uwe.meyer@bundessortenamt.de | DE | Employees of Federal Plant Variety Office |

(g) Biochemical and molecular data

| Date added | Title of software/equipment | Function (brief summary) | Source & contact details | Member(s) of the Union using the software/equipment | Application by user(s) |
|------------|-----------------------------|------------------------------------|-----------------------------|---|--|
| | NTSYSpc(version 2.21m) | Multivariate data analysis program | Applied Biostatistics, Inc. | KR | Clustering analysis for DNA marker development |

[End of Annex II and of document]