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DRAFT
(Revision)

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SOFTWARE AND EQUIPMENT USED BY MEMBERS OF THE UNION

Document prepared by the Office of the Union

to be considered by

the Technical Committee, the Administrative and Legal Committee, and the Council in 2022

Disclaimer: this document does not represent UPOV policies or guidance

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Note for Draft version

~~Strikethrough~~ (highlighted in grey) indicates deletion from the text of document UPOV/INF/22/8.

<u>Underlined</u> (highlighted in grey) indicates insertion to the text of document UPOV/INF/22/8.

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1.   Requirements

1.1   Members of the Union are invited to provide information on software/equipment for inclusion on the basis that it has been used for the purposes of plant variety protection.

1.2   Information on the following should be provided by any member of the Union proposing software/equipment for inclusion in this document:

  Title of software/equipment
  Function (brief summary)
  Source and contact details
  Category(ies) of use (see section 3, below)

2.   Procedure for inclusion of software/equipment

2.1   Software/equipment proposed for inclusion in this document by members of the Union is, in the first instance, presented to the Technical Committee (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. the Administrative and Legal Committee (CAJ) and the Technical Working Parties (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.

3.   Categories of software/equipment

To assist users, information on software/equipment is provided in the following categories:

  Administration of applications
  On-line application systems
  Variety denomination checking
  DUS trial design and data analysis
  Data recording and transfer
  Image analysis
  Biochemical and molecular data

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/equipment included in this document.

4.2   The information on software/equipment use by members of the Union is indicated in the columns "Member(s) of the Union using the software/equipment" 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/equipment is used.

5.   Disclaimer

This document is intended to provide information on the use of software and equipment by members of the Union. Neither UPOV nor the contributing Authority are responsible for the performance of the software or equipment.

SOFTWARE AND EQUIPMENT USED BY MEMBERS OF THE UNION

(a) Administration of applications

Date added	Title of software/equipment	Function (brief summary)	Source & contact details	UPOV member(s) using the software	Application by user(s)
October 29, 2015	Administrative data	Database for administrative data on plant varieties	Federal Plant Variety Office E-mail: thomas.brodek@bundessortenamt.de	DE	All species
October 29, 2015	MS Office Professional Plus 2010	Applications management and database	Plant Breeders' Rights Unit E-mail: benzionz@moag.gov.il	IL	All species
October 25, 2020	Si.Inase	Database management	Instituto Nacional de semillas E-mail: fboschi@inase.uy	UY	All species
October 28, 2016	Sword Ptolemy	Intellectual property case management system supporting: - PVR assessing and examining applications, and administrative tasks relating to applications and granting rights; - Management of all records relating to these activities, including correspondence, documentation and transaction histories. Also see (b) below.	http://intellect.sword-group.com/Home/Ptolemy	NZ	All species
November 2, 2018	Oracle	Database management	CCAFRA-Institute for Seed and Seedlings E-mail: marina.zoric@hcphs.hr	HR	All species
November 2, 2018	Microsoft Office Excel	Database for monitoring the registration of plant varieties [Base de datos del seguimiento del trámite de registro de variedades vegetales]	Servicio Nacional de Derechos Intelectuales - SENADI www.propiedadintelectual.gob.ec	EC	All species
November 1, 2019	Próton	Database for administrative data on plant varieties	National Plant Variety Protection Service (SNPC) E-mail: snpc@agricultura.gov.br	BR	All species
November 1, 2019	Electronic program AVETIS	Database for administrative data on plant varieties	The State Plant Service under the Ministry of Agriculture of the Republic of Lithuania E-mail: info@vatzum.lt	LT	All species
	Administrative data	Database for administrative data on plant varieties	Research Centre for Cultivar Testing E-mail: m.rebarz@coboru.gov.pl	PL	All species
	Navision Business Central	Database for administrative and technical data on plant varieties for listing and/or plant breeders rights	The Board for plant varieties E-mail: teamsupport@rasraad.nl	NL	All concerned species

(b)   <u>On-line application systems</u>

Date added	Title of software/equipment	Function (brief summary)	Source & contact details	UPOV member(s) using the software	Application by user(s)
October 29, 2015	E- Application	Electronic application for the protection of plant varieties and approval including qualified electronic signature	Federal Plant Variety Office E-mail: thomas.brodek@bundessortenamt.de	DE	All species
October 29, 2015	PDF	Application for the protection of plant varieties	Instituto Nacional de Semillas E-mail: fboschi@inase.uy	UY	All species
October 28, 2016	Office (Word) and PDF	E-application for the protection of plant varieties and approval including qualified electronic signature	Oficina Nacional de Semillas. Registro de Variedades Vegetales. galizaga@ofinase.go.cr	CR	All species
October 28, 2016	eAkte	Electronic system for processing and filing variety files	Federal Plant Variety Office E-mail: thomas.brodek@bundessortenamt.de	DE	All species
October 28, 2016	Sword Ptolemy	Intellectual property case management system supporting: - PVR assessing and examining applications, and administrative tasks relating to applications and granting rights; - Management of all records relating to these activities, including correspondence, documentation and transaction histories. Also see (a) above.	http://intellect.sword-group.com/Home/Ptolemy	NZ	All species
November 1, 2019	CultivarWeb	- Electronic application system for the protection of plant varieties - Management of applications - Electronic signature - Fee administration	National Plant Variety Protection Service (SNPC) E-mail: snpc@agricultura.gov.br	BR	All species
October 25, 2020	VATIS	Electronic applications for Plant Variety Rights and for the National listing. Language(s): Lithuanian and English	The State Plant Service under the Ministry of Agriculture of the Republic of Lithuania: info@vatzum.lt	LT	All species

(c)   <u>Variety denomination checking</u>

Date added	Title of software/equipment	Function (brief summary)	Source & contact details	UPOV member(s) using the software	Application by user(s)
October 29, 2015	Variety denomination similarity	Checking of variety denominations in national procedures according to phonetic rules	Federal Plant Variety Office E-mail: thomas.brodek@bundessortenamt.de	DE	All species

Date added	Title of software/equipment	Function (brief summary)	Source & contact details	UPOV member(s) using the software	Application by user(s)
October 28, 2016	Sword Acsepto	Trade mark and design search tool supporting the searching for prior use of proposed denominations.	http://intellect.sword-group.com/Home/Acsepto	NZ	All species
October 26, 2017	Variety denomination similarity	Checking of variety denominations in national procedures according to phonetic rules as a supplement to testing	State Commission of the Russian Federation for Selection Achievements Test and Protection E-mail: gsk@gossortrf.ru	RU	All species
September 21, 2021	SI.INASE	Database to control denominations that have been commercialized in Uruguay	Instituto Nacional de Semillas E-mail: fboschi@inase.uy	UY	All species
	Variety denomination similarity	Checking of variety denominations in national procedures	Research Centre for Cultivar Testing E-mail: m.rebarz@coboru.gov.pl	PL	All species

(d)   DUS trial design and data analysis

Date added	Title of software/equipment	Function (brief summary)	Source & contact details	UPOV member(s) using the software	Application by user(s)
October 29, 2015	Register (DUS)	Cultivation design, data capture, compilation of lists, distinctness program, COYD and COYU, description of variety	Federal Plant Variety Office E-mail: thomas.brodek@bundessortenamt.de	DE	All species
October 29, 2015	INFOSTAST, R and GAIA	Study of varietal differentiation and analysis of results	Instituto Nacional de Semillas E-mail: fboschi@inase.uy	UY	All species
October 28, 2016	SAS and R	Design and analysis		KE	All species
October 26, 2017	Register (DUS)	Cultivation design, data capture, compilation of lists, COYD and COYU, description of variety	Agricultural Research Centre E-mail : sordi@pmk.agri.ee	EE	All species
November 2, 2018	Microsoft Access, and Excel	Trial design, statistical analysis. Making reports and variety descriptions.	Microsoft	SE	Sugar beet hybrids and hybrid components
November 2, 2018	SPSS	Statistical analysis (not COYD)	IBM	SE	Sugar beet hybrids and hybrid components

Date added	Title of software/equipment	Function (brief summary)	Source & contact details	UPOV member(s) using the software	Application by user(s)
	DUSCEL (EXCEL+VBA+UI)	1.Checking abnormal data by validation, boxplot and standard deviation methods. 2.Analysis of uniformity by off-type, relative variance, COYU. 3.Converting original data to note by a fixed scale and changed standard varieties' actual value. 4.Analysis of stability by COYS and pictures. 5.Analysis of distinctness by note level, data level and photo level. 6. Methods for verification of Characteristics and trial by CorrelCh, QLFrDis, QNFrDis, EstDat and EstRat.	China: Mr. Kun Yang E-mail: yangkun@caas.cn	CN	Maize, tomato, cucumber, squash, French bean, asparagus, chrysanthemum, cabbage, Chinese cabbage, pepper, petunia, lycoris, yam, carrot, onion
	STATSIMG	Statistical analysis (COYU and COYD)	National Plant Variety Office E-mail: martin.tlaskal@ukzuz.cz	CZ	Oilseed rape, grasses and lucerne
	Excel	Trial design	Naktuinbouw E-mail: teamsupport@rasraad.nl	NL	All concerned species
	GenStat	Statistical analysis (COYU and COYD)	Naktuinbouw E-mail: teamsupport@rasraad.nl	NL	All concerned species

(e) Data recording and transfer

Date added	Title of software/equipment	Function (brief summary)	Source & contact details	UPOV member(s) using the software	Application by user(s)
October 29, 2015	Reg.mobile	Mobile data capture with transmission of layout plan and data transfer to PC	Federal Plant Variety Office E-mail: thomas.brodek@bundessortenamt.de	DE	All species
October 29, 2015	PANASONIC CF-U1 TOUGHBOOK	Data recording	Croatia E-mail: bojan.markovic@hcphs.hr	HR	Maize
October 29, 2015	Motorola MC55A0 PDA	Field DUS tests data acquisition	Plant Breeders' Rights Unit E-mail: benzionz@moag.gov.il	IL	All species
October 28, 2016	PANASONIC CF-U1 TOUGHBOOK	Data recording	Finnish Food Safety Authority E-mail: Kaarina.paavilainen@evira.fi	FI	Mainly cross pollinated plants
October 26, 2017	PANASONIC FZ-G1 TOUGHPAD	Data recording	SASA E-mail: lesley.mccarthy@sasa.gov.scot	GB	All species
	Mobile Field Register	Data recording, the trial definition transmission from the central database	Research Centre for Cultivar Testing E-mail: m.rebarz@coboru.gov.pl	PL	All species

Date added	Title of software/equipment	Function (brief summary)	Source & contact details	UPOV member(s) using the software	Application by user(s)
	Handheld	Data recording and transfer of data to Navision Business Central	Naktuinbouw E-mail: teamsupport@rasraad.nl	NL	All concerned species

(f)   Image analysis

Date added	Title of software/equipment	Function (brief summary)	Source & contact details	UPOV member(s) using the software	Application by user(s)
October 29, 2015	Image analysis	Automatic measurement of leaf characteristics in various plant species	Federal Plant Variety Office E-mail: thomas.brodek@bundessortenamt.de	DE	Employees of Federal Plant Variety Office
October 26, 2017	IMAGIN	Automatic measurement of leaf characteristics in various plant species	Biomathematics and Statistics Scotland E-mail: a.roberts@bioss.ac.uk	GB	Pea, parsnip, carrot, brassicas
November 1, 2019	STATSIMG	Automatic measurement of leaf characteristics	National Plant Variety Office E-mail: martin.tlaskal@ukzuz.cz; david.hampel@ukzuz.cz	CZ	Oilseed rape, pea
September 21, 2021	Image analysis	Automatic measurement of leaf and flower petals characteristics	Variety Testing Department E-mail: lubomir.basta@uksup.sk	SK	Oilseed rape
	GenStat	Statistic and image analysis for concerned species	Naktuinbouw E-mail: teamsupport@rasraad.nl	NL	All concerned species

(g)   Biochemical and molecular data

Date added	Title of software/equipment	Function (brief summary)	Source & contact details	UPOV member(s) using the software	Application by user(s)
October 29, 2015	NTSYSpc (version 2.21m)	Multivariate data analysis program	Applied Biostatistics, Inc.	KR	Clustering analysis for DNA marker development
September 21, 2021	Applied Biosystems/ Excel	Designation of allelic variants of each SNP of a predefined set for the identification of soybean varieties	Instituto Nacional de Semillas E-mail: fboschi@inase.uy; mmenoni@inase.uy	UY	Identify different cultivars molecularly with allelic variants by means of SNP in soybeans

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