

UPOV/INF/22/11

Original: English

Date: October 25, 2024

SOFTWARE AND EQUIPMENT USED BY MEMBERS OF THE UNION

Document adopted by the Council
at its fifty-eighth ordinary session
on October 25, 2024

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.

MEMBERS OF THE UNION AND ISO CODES / MEMBRES DE L'UNION ET CODES ISO /
VEBANDSMITGLIEDER UND ISO-CODES / MIEMBROS DE LA UNIÓN Y CÓDIGOS ISO

ISO	English	français	deutsch	Español
AL	Albania	Albanie	Albanien	Albania
AM*	Armenia	Arménie	Armenien	Armenia
AR	Argentina	Argentine	Argentinien	Argentina
AT	Austria	Autriche	Österreich	Austria
AU	Australia	Australie	Australien	Australia
AZ	Azerbaijan	Azerbaïdjan	Aserbaidtschan	Azerbaïyán
BA	Bosnia and Herzegovina	Bosnie-Herzégovine	Bosnien-Herzegowina	Bosnia y Herzegovina
BE	Belgium	Belgique	Belgien	Bélgica
BG	Bulgaria	Bulgarie	Bulgarien	Bulgaria
BO	Bolivia (Plurinational State of)	Bolivie (État plurinational de)	Bolivien (Plurinationaler Staat)	Bolivia (Estado Plurinacional de)
BR	Brazil	Brésil	Brasilien	Brasil
BY	Belarus	Bélarus	Belarus	Belarús
CA	Canada	Canada	Kanada	Canadá
CH	Switzerland	Suisse	Schweiz	Suiza
CL	Chile	Chili	Chile	Chile
CN	China	Chine	China	China
CO	Colombia	Colombie	Kolumbien	Colombia
CR	Costa Rica	Costa Rica	Costa Rica	Costa Rica
CZ	Czechia	Tchéquie	Tschechien	Chequia
DE	Germany	Allemagne	Deutschland	Alemania
DK	Denmark	Danemark	Dänemark	Dinamarca
DO	Dominican Republic	République dominicaine	Dominikanische Republik	República Dominicana
EC	Ecuador	Équateur	Ecuador	Ecuador
EE	Estonia	Estonie	Estland	Estonia
EG	Egypt	Égypte	Ägypten	Egipto
ES	Spain	Espagne	Spanien	España
FI	Finland	Finlande	Finnland	Finlandia
FR	France	France	Frankreich	Francia
GB	United Kingdom	Royaume-Uni	Vereinigtes Königreich	Reino Unido
GE	Georgia	Géorgie	Georgien	Georgia
GH	Ghana	Ghana	Ghana	Ghana
HR	Croatia	Croatie	Kroatien	Croacia
HU	Hungary	Hongrie	Ungarn	Hungría
IE	Ireland	Irlande	Irland	Irlanda
IL	Israel	Israël	Israel	Israel
IS	Iceland	Islande	Island	Islandia
IT	Italy	Italie	Italien	Italia
JO	Jordan	Jordanie	Jordanien	Jordania
JP	Japan	Japon	Japan	Japón
KE	Kenya	Kenya	Kenia	Kenya
KG	Kyrgyzstan	Kirghizistan	Kirgisistan	Kirguistán
KR	Republic of Korea	République de Corée	Republik Korea	República de Corea
LT	Lithuania	Lituanie	Litauen	Lituania
LV	Latvia	Lettonie	Lettland	Letonia
MA	Morocco	Maroc	Marokko	Marruecos
MD	Republic of Moldova	République de Moldova	Republik Moldau	República de Moldova
ME	Montenegro	Monténégro	Montenegro	Montenegro
MK	North Macedonia	Macédoine du Nord	Nordmazedonien	Macedonia del Norte
MX	México	Mexique	Mexiko	México

* EN: New member as of March 2, 2024

FR: Nouveau membre depuis le 2 mars 2024

DE: Neues Mitglied seit 2. März 2024

ES: Nuevo miembro desde el 2 de marzo de 2024.

ISO	English	français	deutsch	Español
NI	Nicaragua	Nicaragua	Nicaragua	Nicaragua
NL	Netherlands (Kingdom of the)	Pays-Bas (Royaume des)	Niederlande (Königreich der)	Países Bajos (Reino de los)
NO	Norway	Norvège	Norwegen	Noruega
NZ	New Zealand	Nouvelle-Zélande	Neuseeland	Nueva Zelandia
OA	African Intellectual Property Organization (OAPI)	Organisation Africaine de la Propriété Intellectuelle (OAPI)	Afrikanische Organisation für geistiges Eigentum (OAPI)	Organización Africana de la Propiedad Intelectual (OAPI)
OM	Oman	Oman	Oman	Omán
PA	Panama	Panama	Panama	Panamá
PE	Peru	Pérou	Peru	Perú
PL	Poland	Pologne	Polen	Polonia
PT	Portugal	Portugal	Portugal	Portugal
PY	Paraguay	Paraguay	Paraguay	Paraguay
QZ	European Union	Union européenne	Europäische Union	Unión Europea
RO	Romania	Roumanie	Rumänien	Rumania
RS	Serbia	Serbie	Serbien	Serbia
RU	Russian Federation	Fédération de Russie	Russische Föderation	Federación de Rusia
SE	Sweden	Suède	Schweden	Suecia
SG	Singapore	Singapour	Singapur	Singapur
SI	Slovenia	Slovénie	Slowenien	Eslovenia
SK	Slovakia	Slovaquie	Slowakei	Eslovaquia
TN	Tunisia	Tunisie	Tunesien	Túnez
TR	Türkiye	Türkiye	Türkiye	Türkiye
TT	Trinidad and Tobago	Trinité-et-Tobago	Trinidad und Tobago	Trinidad y Tobago
TZ	United Republic of Tanzania	République-Unie de Tanzanie	Vereinigte Republik Tansania	República Unida de Tanzania
UA	Ukraine	Ukraine	Ukraine	Ucrania
US	United States of America	États-Unis d'Amérique	Vereinigte Staaten von Amerika	Estados Unidos de América
UY	Uruguay	Uruguay	Uruguay	Uruguay
UZ	Uzbekistan	Ouzbékistan	Usbekistan	Uzbekistán
VC	Saint Vincent and the Grenadines	Saint-Vincent-et-les Grenadines	St. Vincent und die Grenadinen	San Vicente y las Granadinas
VN	Viet Nam	Viet Nam	Vietnam	Viet Nam
ZA	South Africa	Afrique du Sud	Südafrika	Sudáfrica

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 28, 2022	Administrative data	Database for administrative data on plant varieties	Research Centre for Cultivar Testing E-mail: m.rebarz@coboru.gov.pl	PL	All species
October 27, 2023	Administrative data	Database for administrative data on plant varieties	Ukrainian Institute for Plant Variety Examination E-mail: sops@i.ua	UA	All species
October 25, 2024	Administrative data	Database for administrative and technical data on plant varieties for national listing and/or plant breeder's rights	CCAF - Center for Seed and Seedlings E-mail: marina.zoric@hapih.hr	HR	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	National Seed Institute (INASE) - Uruguay 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	Microsoft Office Excel	Database for monitoring the registration of plant varieties	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

Date added	Title of software/equipment	Function (brief summary)	Source & contact details	UPOV member(s) using the software	Application by user(s)
October 28, 2022	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
October 27, 2023	National Automated Information System for Testing and Registration of varieties (NAIS)	Database with administrative and technical data of applications for protection and for national listing, including information on VCU and DUS testing	State Inspection for Testing and Protection of Plant Varieties E-mail: belsort@mail.ru	BY	All species
October 27, 2023	Management system DRV	Database management system for the Variety Registration Office	National Seed Institute (INASE) - Argentina E-mail: mmangieri@inase.gob.ar	AR	All species
October 25, 2024	Java	Database for administrative data on plant varieties and public online register	Swedish Board of Agriculture E-mail: vaxtsort@jordbruksverket.se	SE	All species
October 25, 2024	Entry Desk System Integrated Seed System (SISEM)	Database for monitoring the registration of plant varieties Database for recording information on applications for variety registration	National Service for Plant and Seed Quality and Health – SENAVE E-mail: dpuv.dise@senave.gov.py	PY	All species

(b) On-line application systems

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 25, 2024	E-application	Electronic application for the protection of plant varieties	Swedish Board of Agriculture E-mail: vaxtsort@jordbruksverket.se	SE	All species
October 29, 2015	PDF	Application for the protection of plant varieties	National Seed Institute (INASE) - Uruguay 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

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 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
October 27, 2023	Remote Procedures Platform (TAD)	Applications for plant variety protection and national listing	National Seed Institute (INASE) - Argentina E-mail: mmangieri@inase.gob.ar	AR	All species

(c) Variety denomination checking

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
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@gosortrf.ru	RU	All species
October 28, 2022	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
October 27, 2023	Variety denomination similarity	Checking of variety denominations in national procedures	Ukrainian Institute for Plant Variety Examination E-mail: sops@i.ua	UA	All species
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

Date added	Title of software/equipment	Function (brief summary)	Source & contact details	UPOV member(s) using the software	Application by user(s)
September 21, 2021	SI.INASE	Database to control denominations that have been commercialized in Uruguay	National Seed Institute (INASE) - Uruguay E-mail: fboschi@inase.uy	UY	All species
October 27, 2023	COMPARA	Allows comparison of a proposed denomination with the database of varieties registered and in process of being registered in Argentina	National Seed Institute (INASE) - Argentina E-mail: mmangieri@inase.gob.ar	AR	All species
October 25, 2024	National Automated Information System for Testing and Registration of varieties (NAIS)	Checking of variety denominations in national procedures according to phonetic rules	State Inspection for Testing and Protection of Plant Varieties of Belarus E-mail: belsort@mail.ru	BY	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 26, 2017	Register (DUS)	Cultivation design, data capture, compilation of lists, COYD and COYU, description of variety	Centre of Estonian Rural Research and Knowledge (METK) E-mail: sordi@metk.agri.ee	EE	All species
October 29, 2015	INFOSTAST, R and GAIA	Study of varietal differentiation and analysis of results	National Seed Institute (INASE) - Uruguay E-mail: fboschi@inase.uy	UY	All species
October 28, 2016	SAS and R	Design and analysis		KE	All species
October 28, 2022	STATSIMG	Statistical analysis (COYU and COYD)	National Plant Variety Office E-mail: martin.tlaskal@ukzuz.cz	CZ	Oilseed rape, grasses and lucerne
October 28, 2022	Microsoft Excel	Trial design	Naktuinbouw E-mail: teamsupport@rasraad.nl	NL	All concerned species
October 25, 2024	Microsoft Excel	Trial design, Making reports and variety descriptions, Study of varietal differentiation and analysis of results complete	CAAF - Center for Seed and Seedlings E-mail: ivan.varnica@hapih.hr	HR	Barley, Maize, Soybean, Wheat
October 25, 2024	Microsoft Excel	Design of the distribution of DUS field tests in accordance with the UPOV Test guidelines for the species under test	National Service for Plant and Seed Quality and Health – SENAVE E-mail: dpuv.dise@senave.gov.py	PY	Soybean and Wheat
October 25, 2024	Database for variety description (Microsoft Excel)	Grouping of varieties and database for variety descriptions	Mr. Ramón Martínez García E-mail: ramon.martinez8@carm.es	ES	Grapevine

Date added	Title of software/equipment	Function (brief summary)	Source & contact details	UPOV member(s) using the software	Application by user(s)
October 28, 2022	GenStat	Statistical analysis (COYU and COYD)	Naktuinbouw E-mail: teamsupport@rasraad.nl	NL	All concerned species
October 27, 2023	Web application for DUS and VCU tests / R scripts and Shiny	Field trials design, data capture, reference varieties selection for DUS, description of variety / Statistical analysis	Ukrainian Institute for Plant Variety Examination E-mail: sops@i.ua	UA	All 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	CAAF - Center for Seed and Seedlings E-mail: ivan.varnica@hapih.hr	HR	Barley, Maize, Soybean, Wheat
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
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, 2022	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
October 28, 2022	Handheld	Data recording and transfer of data to Navision Business Central	Naktuinbouw E-mail: teamsupport@rasraad.nl	NL	All concerned species
October 27, 2023	Handheld	Data recording, transfer to the central database	Ukrainian Institute for Plant Variety Examination E-mail: sops@i.ua	UA	All species
October 27, 2023	National Automated Information System for Testing and Registration of varieties (NAIS)	Data recording at testing units and transfer data to the central database of Inspection	State Inspection for Testing and Protection of Plant Varieties of Belarus E-mail: belsort@mail.ru	BY	All 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
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
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	CZ	Oilseed rape, pea
October 28, 2022	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	National Seed Institute (INASE) - Uruguay E-mail: fboschi@inase.uy ; mmenoni@inase.uy	UY	Identify different cultivars molecularly with allelic variants by means of SNP in soybeans
October 27, 2023	R scripts	Genetic distances calculation	Ukrainian Institute for Plant Variety Examination E-mail: sops@i.ua	UA	All species
October 27, 2023	Molecular database	Platform that allows the creation of molecular databases by species and calculations of genetic distances by pairs of varieties	National Seed Institute (INASE) - Argentina E-mail: eloponto@inase.gob.ar ; mmangieri@inase.gob.ar	AR	The genetic distances calculated with this platform are uploaded to the GAIA software for comparisons that combine morphological and molecular distances. It is currently used on soybeans, rice and cotton.

[End of document]