UPOV EXCHANGEABLE SOFTWARE

(extract from document [UPOV/INF/16/13](https://www.upov.int/edocs/infdocs/en/upov_inf_16.pdf))

***Please provide information on the customized software that you are using for the purposes of plant variety protection by completing tables (a) to (g) where relevant.***

|  |  |
| --- | --- |
| ***AUTHORITY SUBMITTING INFORMATION:*** | ***[please complete]*** |

(a) Administration of applications

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Date added | Program name | Programming language | Function (brief summary) | Source & contact details | Condition for supply | UPOV member(s) 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: [gsk@gossortrf.ru](mailto:gsk@gossortrf.ru) | Only available in Russian | RU | all crops |
| ***[please complete*** | ***…]*** |
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|  | ***[please*** | ***complete…*** | ***…*** | ***…*** | ***…*** | ***…*** | ***…]*** |

(b) On-line application systems

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Date added | Program name | Programming language | Function (brief summary) | Source & contact details | Condition for supply | UPOV member(s) using the software | Application by user(s) |
|  | ***[please*** | ***complete…*** | ***…*** | ***…*** | ***…*** | ***…*** | ***…]*** |

(c) Variety denomination checking

| Date added | Program name | Programming language | Function (brief summary) | Source & contact details | Condition for supply | UPOV member(s) using the software | Application by user(s) |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | ***[please*** | ***complete…*** | ***…*** | ***…*** | ***…*** | ***…*** | ***…]*** |

(d) DUS trial design and data analysis

| Date added | Program name | Programming language | Function (brief summary) | Source & contact details | Condition for supply | UPOV member(s) 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:  Ms. Trudyann Kelly  e-mail: [info@afbini.gov.uk](mailto:info@afbini.gov.uk) |  | EE | Grasses and Legumes |
| FI | Grasses, Red Clover, White Clover, Turnip Rape, Rye |
| GB | Herbage, Pea (Field & Veg), Parsnip, Swede, Onion, Brussels Sprout, Carrot and other vegetable species, Winter Oilseed Rape, Sugar Beet, Faba Beans, Spring Oilseed Rape, Kale, Linseed |
| KE | Maize |
| NZ | Grasses, Brassicas, Wheat, Barley, Garden Peas |
| PL | Oilseed Rape, Grasses |
| SK | Grasses, clovers, oilseed rape |
| VN | Maize, Flowers, Rice, Tomato, Potato, Soybean, Vegetables, and other species |
| ***[please complete*** | ***…]*** |
|  |  |
| October 21, 2010 | GAIA | Windev | Computes comparisons of varieties for management of reference collections | France: e-mail: [christelle.lavaud@geves.fr](mailto:christelle.lavaud@geves.fr) |  | AR | Soybean, Grapevine, Anise, Hazelnut, Safflower, Paulownia, Hop, Hemp, Rice, Cotton |
| BR | Soybean, Wheat |
| CZ | Maize, Wheat, Barley, Oats, and Pea |
| FR | Sorghum, Sugar Beet, Maize, Wheat, Barley, Oats, Rapeseed, Sunflower, Triticale, Pea |
| HR | Barley, Maize, Soybean, Wheat |
| UY | All species |
| ***[please complete*** | ***…]*** |
|  |  |
| October 25, 2020 | Off-type Calculator | Microsoft Excel | Calculates maximum allowable numbers of off-types for one- and two-cycle tests, along with associated statistical risks | United Kingdom: Mr. Adrian Roberts  e-mail: [a.roberts@bioss.ac.uk](mailto:a.roberts@bioss.ac.uk)  and [www.upov.int/edocs/mdocs/upov/en/twc\_37/twc\_37\_5\_annex\_ii.xlsx](http://www.upov.int/edocs/mdocs/upov/en/twc_37/twc_37_5_annex_ii.xlsx) |  | GB | All species |
| PL | All species |
| ***[please complete*** | ***…]*** |
|  |  |
| October 28, 2022 | PATHOSTAT | Microsoft Excel | Decision support tool to integrate statistics for the analysis of pest resistance test results for vegetable species | France: Ms. Sophie Perrot e-mail: [sophie.perrot@geves.fr](mailto:sophie.perrot@geves.fr) and [PATHOSTAT | (geves.fr)](https://www.geves.fr/tools/pathostat/) | Available as a web service / not for download | FR | Vegetable species |
| ***[please complete*** | ***…]*** |
|  |  |
| October 25, 2024 | DUSCEL | EXCEL+VBA+UI | 1. Trial Design 2. Checking abnormal data by validation, boxplot and standard deviation methods 3. Analysis of uniformity by off‑type, relative variance, COYU 4. Converting original data to note by standard varieties 5. Analysis of stability by COYS 6. Analysis of distinctness by notes, measured data and images 7. Methods for verification of characteristics and trial by correlation coefficient, frequency distribution by notes or measured data 8. Estimation of optimal sample size 9. Image checking, processing and analysis | China: Mr. Kun Yang e-mail: [yangkun@caas.cn](mailto:yangkun@caas.cn) | DUSCEL3.0 and 3.5 are offered free of charge. DUSCEL4.0 is offered at a fee. Please contact for information. | CN | All species |
| ***[please complete*** | ***…]*** |
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(e) Data recording and transfer

| Date added | Program name | Programming language | Function (brief summary) | Source & contact details | Condition for supply | UPOV member(s) using the software | Application by user(s) |
| --- | --- | --- | --- | --- | --- | --- | --- |
| October 21, 2010 | SIRIUS | Windev | Hand-Held Data Capture Software | France: e-mail: [christelle.lavaud@geves.fr](mailto:christelle.lavaud@geves.fr) |  | FR | Sorghum, Sugar Beet, Maize, Wheat, Barley, Oats, Rapeseed, Sunflower, Triticale, Pea, Herbage |
| ***[please complete*** | ***…]*** |
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|  | ***[please*** | ***complete…*** | ***…*** | ***..*** | ***…*** | ***…*** | ***…]*** |

(f) Image analysis

| Date added | Program name | Programming language | Function (brief summary) | Source & contact details | Condition for supply | UPOV member(s) using the software | Application by user(s) |
| --- | --- | --- | --- | --- | --- | --- | --- |
| October 24, 2013 | AIM | Windows | Image processing software | France: e-mail: [christelle.lavaud@geves.fr](mailto:christelle.lavaud@geves.fr) |  | FR | Rapeseed, Sunflower, Hydrangea, Flax, Peas, Carrot, Maize, Winter wheat, Orchids |
| ***[please complete*** | ***…]*** |
|  |  |
|  | ***[please*** | ***complete…*** | ***…*** | ***..*** | ***…*** | ***…*** | ***…]*** |

(g) Biochemical and molecular data

| Date added | Program name | Programming language | Function (brief summary) | Source & contact details | Condition for supply | UPOV member(s) using the software | Application by user(s) |
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