



TWC/34/29

ORIGINAL: English

DATE: May 31, 2016

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

TECHNICAL WORKING PARTY ON AUTOMATION AND COMPUTER PROGRAMS

**Thirty-Fourth Session
Shanghai, China, June 7 to 10, 2016**

A SINGLE TOOL FOR DUS COMPUTATION

Document prepared by an expert from France

Disclaimer: this document does not represent UPOV policies or guidance

The Annex to this document contains a copy of a presentation on “A single tool for DUS computation process” that will be made at the thirty-fourth session of the Technical Working Party on Automation and Computer Programs (TWC).

Christophe Chevalier, Manager, IT Department, Groupe d'étude et de contrôle des variétés et des semences (GEVES)

[Annex follows]

A single tool for DUS computation process

Shanghai Twc 34
June 2016



Main reasons

- Use the same interface for different pupose
- Reduce time development
- Use the same data set for different computation process
- Single way to integrate data
- Show the complementarity between computation process

Light modification of import excel file

- Rename « Grouping Set » column by « Year »
- Add 2 new columns « Replicate » and « Plant »

Old version

New version

The image shows two side-by-side Excel spreadsheets. The left spreadsheet, labeled 'Old version', has columns: 'Variety Number', 'Variety Status', 'Grouping Set', and 'Total Number'. The right spreadsheet, labeled 'New version', has columns: 'Variety Number', 'Variety Status', 'Year', 'Replicate', 'Plant', 'Total Number', 'MI', and 'SI'. The 'Grouping Set' column in the old version is highlighted in red, and the 'Year' column in the new version is highlighted in green.

GEVES
Groupe d'Étude et de contrôle
des Variétés Et des Semences

New screens

- One new main menu « Coy » with 2 new submenu « CoyU » and « CoyD »

CoyD

The image shows a screenshot of the 'CoyD' screen in the NIAB/GEVES software. The screen displays a table with columns: 'Variety', 'Status', 'Year', 'Replicate', 'Plant', 'Total Number', 'MI', and 'SI'. The table contains data for various varieties and years. The 'Year' column is highlighted in blue.

New screens

- One new main menu « Coy » with 2 new submenu « CoyU » and « CoyD »

CoyU

The screenshot shows the NIAB GEVES website interface. At the top, there is a navigation bar with links: Home, Products, Services, Downloads, Contact Us, and About Us. Below the navigation bar, there is a header section with the NIAB and GEVES logos. The main content area displays two tables, both titled 'List of Chemicals - Total'. The first table has columns: 'Chemical Name', 'Source Name', 'Type', 'Date', 'New', 'Old', 'New', 'Old'. The second table has columns: 'Chemical Name', 'Source Name', 'Type', 'Date', 'New', 'Old', 'New', 'Old'. Both tables show data for 'WTO' and 'Pesticide'.

Declaration of Coy session

- First Step : Declare a session

The screenshot displays the NIAB GEVES database interface. At the top, there is a navigation bar with tabs for 'Species', 'Database', 'Reference', 'Composition', 'Data', 'Media', and 'Help'. Below this, the 'Species' tab is active, showing a list of species. The list has columns for 'Species', 'Species Name', 'V. Species', 'Species Name', 'Date', 'V. Test Date', 'V. Test Date', and 'V. Test Date'. The first row shows 'Test Copy' with a date of '10/10/2010'. Below the list, there are filters for 'Data', 'Test at level (Species/Date)', 'Test at level (Date)', and 'Test at level (Species/Date)'. A dialog box titled 'Definition of Copy records' is open in the foreground, showing a list of species with 'Test Copy' selected. The dialog has 'OK' and 'Cancel' buttons.

Declaration of Coy session

- Second Step : Define the data set

[illegible]

Launch Coy process

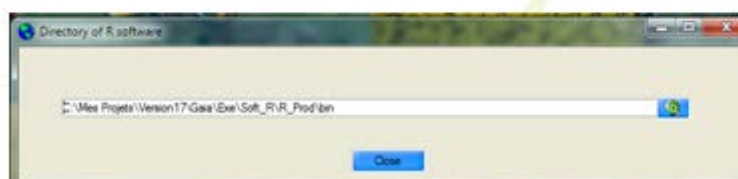
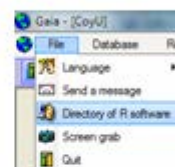
- Launch the coy process on current session

The screenshot displays the NIAB GEVES software interface. At the top, there is a menu bar with options: File, Database, Functions, Conversion, File, Utilities, Help. Below the menu is a toolbar with various icons. The main window has a header area with the NIAB logo and the text "Fédération Française". Below this is a table with columns: "List of members", "Service Name", "Date", "Year", "Year", "Year", "Year". The table contains several rows of data, including "45701", "45702", "45703", "45704", "45705", "45706", "45707", "45708", "45709", "45710", "45711", "45712", "45713", "45714", "45715", "45716", "45717", "45718", "45719", "45720", "45721", "45722", "45723", "45724", "45725", "45726", "45727", "45728", "45729", "45730", "45731", "45732", "45733", "45734", "45735", "45736", "45737", "45738", "45739", "45740", "45741", "45742", "45743", "45744", "45745", "45746", "45747", "45748", "45749", "45750", "45751", "45752", "45753", "45754", "45755", "45756", "45757", "45758", "45759", "45760", "45761", "45762", "45763", "45764", "45765", "45766", "45767", "45768", "45769", "45770", "45771", "45772", "45773", "45774", "45775", "45776", "45777", "45778", "45779", "45780", "45781", "45782", "45783", "45784", "45785", "45786", "45787", "45788", "45789", "45790", "45791", "45792", "45793", "45794", "45795", "45796", "45797", "45798", "45799", "45800". A search dialog box is open in the center, asking "You are going to search the list for the member (List 1) (List 2) (List 3) (List 4) (List 5) (List 6) (List 7) (List 8) (List 9) (List 10) (List 11) (List 12) (List 13) (List 14) (List 15) (List 16) (List 17) (List 18) (List 19) (List 20) (List 21) (List 22) (List 23) (List 24) (List 25) (List 26) (List 27) (List 28) (List 29) (List 30) (List 31) (List 32) (List 33) (List 34) (List 35) (List 36) (List 37) (List 38) (List 39) (List 40) (List 41) (List 42) (List 43) (List 44) (List 45) (List 46) (List 47) (List 48) (List 49) (List 50) (List 51) (List 52) (List 53) (List 54) (List 55) (List 56) (List 57) (List 58) (List 59) (List 60) (List 61) (List 62) (List 63) (List 64) (List 65) (List 66) (List 67) (List 68) (List 69) (List 70) (List 71) (List 72) (List 73) (List 74) (List 75) (List 76) (List 77) (List 78) (List 79) (List 80) (List 81) (List 82) (List 83) (List 84) (List 85) (List 86) (List 87) (List 88) (List 89) (List 90) (List 91) (List 92) (List 93) (List 94) (List 95) (List 96) (List 97) (List 98) (List 99) (List 100) (List 101) (List 102) (List 103) (List 104) (List 105) (List 106) (List 107) (List 108) (List 109) (List 110) (List 111) (List 112) (List 113) (List 114) (List 115) (List 116) (List 117) (List 118) (List 119) (List 120) (List 121) (List 122) (List 123) (List 124) (List 125) (List 126) (List 127) (List 128) (List 129) (List 130) (List 131) (List 132) (List 133) (List 134) (List 135) (List 136) (List 137) (List 138) (List 139) (List 140) (List 141) (List 142) (List 143) (List 144) (List 145) (List 146) (List 147) (List 148) (List 149) (List 150) (List 151) (List 152) (List 153) (List 154) (List 155) (List 156) (List 157) (List 158) (List 159) (List 160) (List 161) (List 162) (List 163) (List 164) (List 165) (List 166) (List 167) (List 168) (List 169) (List 170) (List 171) (List 172) (List 173) (List 174) (List 175) (List 176) (List 177) (List 178) (List 179) (List 180) (List 181) (List 182) (List 183) (List 184) (List 185) (List 186) (List 187) (List 188) (List 189) (List 190) (List 191) (List 192) (List 193) (List 194) (List 195) (List 196) (List 197) (List 198) (List 199) (List 200) (List 201) (List 202) (List 203) (List 204) (List 205) (List 206) (List 207) (List 208) (List 209) (List 210) (List 211) (List 212) (List 213) (List 214) (List 215) (List 216) (List 217) (List 218) (List 219) (List 220) (List 221) (List 222) (List 223) (List 224) (List 225) (List 226) (List 227) (List 228) (List 229) (List 230) (List 231) (List 232) (List 233) (List 234) (List 235) (List 236) (List 237) (List 238) (List 239) (List 240) (List 241) (List 242) (List 243) (List 244) (List 245) (List 246) (List 247) (List 248) (List 249) (List 250) (List 251) (List 252) (List 253) (List 254) (List 255) (List 256) (List 257) (List 258) (List 259) (List 260) (List 261) (List 262) (List 263) (List 264) (List 265) (List 266) (List 267) (List 268) (List 269) (List 270) (List 271) (List 272) (List 273) (List 274) (List 275) (List 276) (List 277) (List 278) (List 279) (List 280) (List 281) (List 282) (List 283) (List 284) (List 285) (List 286) (List 287) (List 288) (List 289) (List 290) (List 291) (List 292) (List 293) (List 294) (List 295) (List 296) (List 297) (List 298) (List 299) (List 300) (List 301) (List 302) (List 303) (List 304) (List 305) (List 306) (List 307) (List 308) (List 309) (List 310) (List 311) (List 312) (List 313) (List 314) (List 315) (List 316) (List 317) (List 318) (List 319) (List 320) (List 321) (List 322) (List 323) (List 324) (List 325) (List 326) (List 327) (List 328) (List 329) (List 330) (List 331) (List 332) (List 333) (List 334) (List 335) (List 336) (List 337) (List 338) (List 339) (List 340) (List 341) (List 342) (List 343) (List 344) (List 345) (List 346) (List 347) (List 348) (List 349) (List 350) (List 351) (List 352) (List 353) (List 354) (List 355) (List 356) (List 357) (List 358) (List 359) (List 360) (List 361) (List 362) (List 363) (List 364) (List 365) (List 366) (List 367) (List 368) (List 369) (List 370) (List 371) (List 372) (List 373) (List 374) (List 375) (List 376) (List 377) (List 378) (List 379) (List 380) (List 381) (List 382) (List 383) (List 384) (List 385) (List 386) (List 387) (List 388) (List 389) (List 390) (List 391) (List 392) (List 393) (List 394) (List 395) (List 396) (List 397) (List 398) (List 399) (List 400) (List 401) (List 402) (List 403) (List 404) (List 405) (List 406) (List 407) (List 408) (List 409) (List 410) (List 411) (List 412) (List 413) (List 414) (List 415) (List 416) (List 417) (List 418) (List 419) (List 420) (List 421) (List 422) (List 423) (List 424) (List 425) (List 426) (List 427) (List 428) (List 429) (List 430) (List 431) (List 432) (List 433) (List 434) (List 435) (List 436) (List 437) (List 438) (List 439) (List 440) (List 441) (List 442) (List 443) (List 444) (List 445) (List 446) (List 447) (List 448) (List 449) (List 450) (List 451) (List 452) (List 453) (List 454) (List 455) (List 456) (List 457) (List 458) (List 459) (List 460) (List 461) (List 462) (List 463) (List 464) (List 465) (List 466) (List 467) (List 468) (List 469) (List 470) (List 471) (List 472) (List 473) (List 474) (List 475) (List 476) (List 477) (List 478) (List

Launch the calculation

Launch Coy process

- Coy process is run under R software.
- Runtime R is include with Gaia installation
- Possibility to use your own R runtime → Menu File/Directory of R software



Storage of statistical data

- All statistical data returned by COY process are stored into GAIA database for 3 different level :
 - Characteristic
 - Variety
 - Characteristic/Variety
- Use data for other purpose
- Traceability
- Run different type of report

Characteristic	Variety	Characteristic/Variety	Long Name	Short Name	Value
height at anthesis			height at anthesis		1.5017
height at anthesis			height at anthesis		1.5018
height at anthesis			height at anthesis		1.5019
height at anthesis			height at anthesis		1.5020
height at anthesis			height at anthesis		1.5021
height at anthesis			height at anthesis		1.5022
height at anthesis			height at anthesis		1.5023
height at anthesis			height at anthesis		1.5024
height at anthesis			height at anthesis		1.5025
height at anthesis			height at anthesis		1.5026
height at anthesis			height at anthesis		1.5027
height at anthesis			height at anthesis		1.5028
height at anthesis			height at anthesis		1.5029
height at anthesis			height at anthesis		1.5030
height at anthesis			height at anthesis		1.5031
height at anthesis			height at anthesis		1.5032
height at anthesis			height at anthesis		1.5033
height at anthesis			height at anthesis		1.5034
height at anthesis			height at anthesis		1.5035
height at anthesis			height at anthesis		1.5036
height at anthesis			height at anthesis		1.5037
height at anthesis			height at anthesis		1.5038
height at anthesis			height at anthesis		1.5039
height at anthesis			height at anthesis		1.5040
height at anthesis			height at anthesis		1.5041
height at anthesis			height at anthesis		1.5042
height at anthesis			height at anthesis		1.5043
height at anthesis			height at anthesis		1.5044
height at anthesis			height at anthesis		1.5045
height at anthesis			height at anthesis		1.5046
height at anthesis			height at anthesis		1.5047
height at anthesis			height at anthesis		1.5048
height at anthesis			height at anthesis		1.5049
height at anthesis			height at anthesis		1.5050

Final report

[illegible]

[End of Annex and of document]