Genetic Metrics Software Testing for Build 20160611

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| Num | Tab | Use Case | Result |
| 1 | Pedigree Browser | Open Example Pedigree | Pass |
| 2 | Pedigree Browser | Update Breeding Colony | Pass |
| 3 | Pedigree Browser | Trim Pedigree | Pass |
| 4 | Pedigree Browser | Export Pedigree | Pass |
| 5 | Pedigree Browser | Sort Pedigree in Browser by Column Heading | Pass |
| 6 | Pedigree Browser | Search Pedigree in Browser | Pass |
| 7 | Pedigree Browser | Change Number of Records displayed in browser | Pass |
| 8 | Pedigree Browser | Upload a tab separated variable file | Pass |
| 9 | Pedigree Browser | Upload a tab separated variable file with only Ego ID, Dam ID, Sire ID, Sex, Age | Pass |
| 10 | Pedigree Browser | Error Case: Upload a file with incorrectly formatted dates | Error Handled: Pass |
| 11 | Pedigree Browser | Error Case: Upload a tab separated variable file with the csv option checked. | Error Handled: Pass |
| 12 | Genetic Value Analysis | Genetic Value Analysis: # of simulations = 1001; Genome Uniqueness Threshold = 1 | Pass |
| 13 | Genetic Value Analysis | “Enter IDs of specific Animals to be Viewed”  1112  846  1025  1038  1042  1031  1067  1079  And “Filter View” | Fail: Error: could not find function "filterReport" |
| 14 | Genetic Value Analysis | “Export All” for Genetic Value Analysis | Pass |
| 15 | Genetic Value Analysis | “Export Current Subset” | If view is unfiltered, it generates “GVA\_full.csv;  If view is filtered; error shown: “could not find function “filterReport.” |
| 16 | Summary Statistics | Charts and Graphs: Did not test the calculations. Only tested whether the graphs appear. | Pass |
| 17 | Breeding Group Formation | Groups desired: 2  Kinship ignored below: .015625  Age ignored below: 1  Number of simulations: 10  “Make Groups” | Pass |
| 18 | Breeding Group Formation | Same settings as above.  Enter IDs of candidate group members:  1112  846  1025  1038  1042  “Make Groups” | Fail:  Browser Crash |
| 19 | Breeding Group Formation | Save settings as above.  Enter IDs of animals currently in the group:  1112  846  1025  1038  1042 | Pass |
| 20 | Sorting | The sortable tables in the Pedigree Browser and Genetic Value Analysis tabs sort numbers as if they are text.  For example, 1.9 is followed by 10 instead of 2.  If you sort in descending order by Age, the oldest animal in the pedigree ends up somewhere in the middle of the stack.  I’m not 100% sure which columns are truly numeric.  On the Pedigree Browser tab, I think the values of “Age” and “Pedigree #” should be sorted as numbers.  On the Genetic Value Analysis tab, I think the values of “Age,” “Individual Mean Kinship,” “Z-score Mean Kinship,” “Genome Uniqueness,” “Total Offspring,” “Living Offspring,” and “Rank” should all be sorted as numbers. |  |

Animal IDs used to trim Pedigree:

1112

846

1025

1038

1042

1031

1067

1079

1098

1100

1153

1159

1245

1295

1298

1304

1309

1344

1499

856

942

991

1083

1089

1102

1109

1118

1143

1227

1242

1257

1260

1275

1285

1291

1299

1311

1332

1334

1335

1339

1351

1365

1366

1395

1397

1400

1402

1415

1437

1446

1454

1456

1460

1469

1475

1492

1503

1506

1511

1513

1555

1610

1647

1653

1775

1845

1108

1232

1243

1293

1302

1361

1367

1398

1399

1416

1419

1443

1472

1500

1349