|  |  |  |  |
| --- | --- | --- | --- |
| **File Header in GUI** | File Header in .csv | Data Type | Range of values |
| XY Filename | xyfilename | File | NA |
| Age Distribution Filename | agedistribution | File | NA |
| Mate CD Matrix  Filename | matecdmat | File | NA |
| Dispersal CD Matrix Filename | dispcdmat | File | NA |
| Monte Carlo Replicates | mcruns | Integer | 1 – 100000 |
| Generation/Time | Looptime | Integer | 1 – 100000 |
| Generations of Saved Genotypes Choice | nthfile\_choice | Drop-down | Sequence, list |
| List of Generations Saved | nthfile\_list | Bars | 0 – looptime |
| Sequence of Generations Saved | nthfile\_seq | Integer | 1 – looptime |
| Mating  Movement  Function | matemoveno | Drop-down | 1, 2, 3, 4, 5, 6 |
| Mating  Movement Parameter A | matemoveparA | Float | 0. – 100000. |
| Mating Movement  Parameter B | matemoveparB | Float | 0. – 100000. |
| Mating Movement  Threshold | matemovethresh | Float or enter max | 1. – 1000000000. Or 1max – max |
| Female Replacement | Freplace | Drop-down | Y,N |
| Male  Replacement | Mreplace | Drop-down | Y,N |
| Multiple Paternity Answer | multiple\_paternity | Drop-down | Y,N |
| Selfing  Answer | Selfans | Drop-down | Y,N |
| Reproduction  Answer | sexans | Drop-down | Y,N |
| Reproduction  Age | reproage | Integer | 0 – 100000 |
| Female  Dispersal  Movement  Choice | Fdispmoveno | Drop-down | 1, 2, 3, 4, 5, 6 |
| Female  Dispersal  Movement Parameter A | FdispmoveparA | Float | 0. – 100000. |
| Female  Dispersal  Movement Parameter B | FdispmoveparB | Float | 0. – 100000. |
| Female  Dispersal  Movement  Threshold | Fdispmovethresh | Float or enter max | 1. – 1000000000. Or 1max – max |
| Male  Dispersal  Movement  Choice | Mdispmoveno | Drop-down | 1, 2, 3, 4, 5, 6 |
| Male  Dispersal  Movement Parameter A | MdispmoveparA | Float | 0. – 100000. |
| Male  Dispersal  Movement Parameter B | MdispmoveparB | Float | 0. – 100000. |
| Male  Dispersal  Movement Threshold | Mdispmoveno | Float or enter max | 1. – 1000000000. Or 1max – max |
| Female Philopatry | Philopatry | Drop-down | Y,N |
| Offspring  Choice | Offno | Drop-down | 1,2,3,4 |
| Lambda | Lmbda | Integer | 1 – 100000 |
| Female offspring | Femalepercent | Integer | 0 – 100 |
| Equal Sex  Ratio for Offspring | EqualsexratioBirth | Drop-down | N, WrigthFisher, AtBirth |
| Birth  Mortality | birthmortperc | Integer | 0 – 100 |
| Age Structure Mortality | agemortperc | Bar | 0 - 100 |
| Subpopulation Mortality | Subpopmortperc | Bar | 0 – 100 |
| Mutation  Rate | muterate | Float | 1. – 1. |
| Mutation Model | mutationtype | Drop-down | random,forward,backward,forwardbackward,forwardAbackwardBrandomN |
| Loci | loci | Integer | 2 – 100000 |
| Initialize Genotypes | intgenesans | Drop-down | random,file,known |
| Allele Frequency File | Allefreqfilename | File | Use ‘N’ for no file used |
| Alleles | alleles | Integer | 2 – 100000 |
| mtDNA | Mtdna | Drop-down | Y,N |
| CDEVOLVE  Answer | cdevolveans | Drop-Down | 0,1,2 |
|  | | | |
| Fitness  AA | Fitness\_AA | File |  |
| Fitness  Aa | Fitness\_Aa | File |  |
| Fitness  aa | Fitness\_aa | File |  |
|  | | | |
| Fitness  AABB | Fitness\_AABB | File |  |
| Fitness  AaBB | Fitness\_AaBB | File |  |
| Fitness  aaBB | Fitness\_aaBB | File |  |
| Fitness  AABb | Fitness\_AABb | File |  |
| Fitness  AaBb | Fitness\_AaBb | File |  |
| Fitness  aaBb | Fitness\_aaBb | File |  |
| Fitness  AAbb | Fitness\_AAbb | File |  |
| Fitness  Aabb | Fitness\_Aabb | File |  |
| Fitness  aabb | Fitness\_aabb | File |  |
| CDINFECT | cdinfect | Drop-down | Y,N |
| Transmission Probability | Transmissionprob | Float | 1. – 1. |
| CDCLIMATE | cdclimate | Drop-dwon | Y,N |
| CDCLIMATE  Generation | Cdclimgentime | Bar | 0 – looptime |
| Future  Mating  CD Matrix | Futuredispcmat | File |  |
| Future  Dispersal  CD Matrix | Futuredispcdmat | File |  |
| ED Matrix | Edmatans | Drop-down | Y,N |
| GD Matrix | Gendmatans | Drop-down | N,Dps,braycurtis,Da |
| Genotype Output Format | gridformat | Drop-down | Cdpop,general,genalex,structure,genepop |