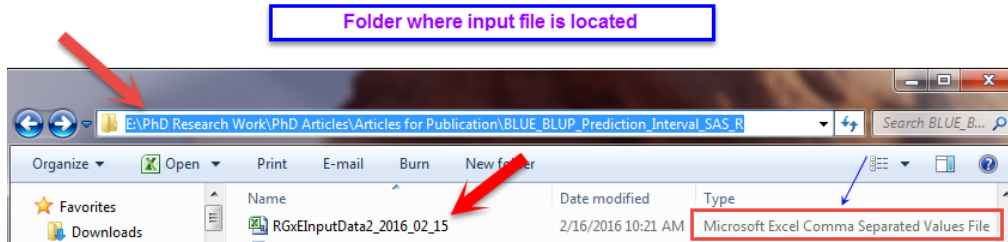


Instructions

RGxE: Program for analysis of genotype stability and location value

1. Define input file information.



```
56 #set current directory
57 ###user NEED to replace input data file path###
58
59 setwd("E:/PhD Research Work/PhD Articles/Articles for Publication/BLUE_BLUP_Prediction_Interval_SAS_R")
60
```

- a. For Windows user
 - I. Option 1

```
65- #####
66- #####          For windows user          #####
67- #####
68-
69- #####
70- ##### Option 1 #####
71- #####
72-
73 #import input data
74 ###user NEED to replace input data file name###
75
76 tempa <-read.csv("RGxEInputData2_2016_02_15.csv", header = TRUE)
```

name of input file

- II. Option 2

```
78- #####
79- ##### Option 2 #####
80- #####
81-
82 #opens pop up window to select file
83 file.name <- file.choose()
84
85 #read csv file
86 tempa <-read.csv(file.name)
```

This function will pop up folder where current directory is set.

User can choose .csv file

- b. For Ois or Mac user

This function open folder through which user can navigate to folder of interest where input data is placed

```

89- #####
90- #####          For Mac user          #####
91- #####
92
93 file.name <- file.choose()
94 file.name
95
96 #copy path from console and paste here
97 file.name <- "/Users/toddwehner/Desktop/RCodeCurrent/GxeR14Data4.csv"
98
99 #create object path for where the data will go at the end
100 # I append the file name with "_out" so I know its data coming out of R
101 out.file <- "/Users/toddwehner/Desktop/RCodeCurrent/GxeR14Out4.csv"
102 tempa <- read.csv(file.name)

```

Input file name

2. Define trait name that needs to be analyzed.

```

102- #####
103- #####          Define trait that need to be analyzed          #####
104- #####
105
106 #user need to define trait name for analysis
107 #example: MKMGHA = Marketable mega-gran per hectare
108
109 tempa <- tempa %>% rename(Trait = MKMGHA) %>%
110   select(YR, LC, RP, CLT, Trait)

```

	A	B	C	D	E
1	YR	LC	RP	CLT	MKMGHA
2	2009	KN		1 Early Canada	56.236
3	2009	KN		1 Calhoun Gray	74.167
4	2009	KN		1 Starbrite F1	32.601
5	2009	KN		1 Crimson Sweet	74.167
6	2009	KN		1 Georgia Rattlesnake	64.794
7	2009	KN		1 Fiesta F1	70.907
8	2009	KN		1 Mickylee	57.051
9	2009	KN		1 Sugar Baby	28.118

Snapshot of input file

3. Define output file information.

```

1655- #####
1656- ###          Export output in .CSV or .TXT          ###
1657- ###          Print final output in console          ###
1658- #####
1659
1660 #user can turn on and off .csv or .txt file by commenting/uncommenting
1661 #codes in below 2 lines
1662
1663 #sink(file="RGxEOutput.csv", append=FALSE, split=TRUE)
1664 sink(file="RGxEOutput.txt", append=FALSE, split=TRUE)
1665 ""

```

.csv

.txt

Output file name and type

User can uncomment or comment out code according to required output