

This file describes the make-up of the files on this CD-ROM.

Descriptions are arranged in alphabetical order of filenames.

Although they are arranged in folders depending on their purpose.

Filename: environments1.xls

Notes: Details of 123 trials from Onion Trials Programme including: Latitude, altitude, country, site, year, mean and variance of yield

Filename: environments1.xls

Notes: Details of 123 trials from Onion Trials Programme including: Indicator variables for membership of Onion Data 1 and 2 and the proxy covariates created for the clustering of environments into mega-environments in Chapter 7.

File Name: flores1.xls

Source: Flores et al. (1998)

GxE matrix Size: 15 genotypes and 12 environments

Replicates: 1 per GxE combination

Extra notes: Displayed in list form, not as a GxE matrix.

File Name: flores2.xls

Source: Flores et al. (1998)

GxE matrix Size: 11 genotypes and 16 environments

Replicates: 1 per GxE combination

Extra notes: Displayed in list form, not as a GxE matrix.

File Name: foxrath81mat.xls

Source: Fox and Rathgen (1981)

GxE matrix Size: 22 genotypes and 14 environments

Replicates: 1 per GxE combination

Extra notes: displayed in GxE matrix form

File Name: G_by_E.ssc

notes: SPlus programs written to complete some GxE analyses that were not already available

File Name: gauch.means.xls

Source:Gauch (1992)

GxE matrix Size: 10 genotypes and 7 environments

Replicates: 1 per GxE combination

Extra notes: Displayed in list form, not as a GxE matrix.

File Name: gauch.xls

Source:Gauch (1992)

GxE matrix Size: 10 genotypes and 7 environments

Replicates: 4 per GxE combination

Extra notes: Displayed in list form, not as a GxE matrix.

File Name: Godfrey.ssc

notes: SPlus programs for techniques developed by Jonathan Godfrey

File Name: Godfrey_thesis.zip

notes: A post-script copy of the manuscript zipped for convenience.

File Name: mungomery.xls

Source: Basford and Tukey 1998)

GxE matrix Size: 58 genotypes and 8 environments

Replicates: Originally two per GxE combination, but the cell means appears in this file.

Extra notes: This file includes all six response variables measured for the 464 GxE combinations, as well as the within-environment standardized yields used for simulation testing and examples.

File Name: ramey83.xls

Source: Ramey and Rosielle (1983)

GxE matrix Size: 9 genotypes and 15 environments

Replicates: 1 per GxE combination

Extra notes: Displayed in list form, not as a GxE matrix.

Filename: sparse_OD2_matrix.xls

Notes: The data for Onion Data 2 as created in Chapter 3, provide as an example of the extent of the sparsity of the data.

Filename: thesis.ps

A post script version of the final thesis submitted after emendations.

Filename: unused_genotype_names.xls

Notes: The names of 296 onion genotypes that were used in the Onion Trials Programme data but did not get included in either Onion Data 1 or 2. The number of trials in which was tested has also been included.