

CGIL Summer Course - 2007

1. Pedigrees

1. Retrieve two (2) data sets (Fun1.d and Fun2.d)
2. Using Fun1.d
 - (a) Order the animals chronologically, i.e. Parents before Progeny.
 - (b) Calculate the inbreeding coefficients and d_i values.
 - (c) Identify the oldest animal, the youngest animal, and the animal with the highest inbreeding coefficient.
3. Using Fun2.d
 - (a) Determine the total number of animals, sires, and dams in the pedigrees.
 - (b) Calculate the inbreeding coefficients and d_i values.
 - (c) Calculate average inbreeding coefficient and number of inbred animals by year of birth.
 - (d) Plot average inbreeding coefficient by year of birth.
 - (e) Plot number of inbred animals by year of birth.