# One Sample T –Test

1. The CO2.csv dataset has 84 rows and 5 columns of data from an experiment on the cold tolerance of the grass species Echinochloa crus-galli.

**plant:** an ordered factor with levels Qn1 < Qn2 < Qn3 < ... < Mc1 giving a unique identifier for each plant.

**type:** a factor with levels Quebec Mississippi giving the origin of the plant

**treatment:** a factor with levels nonchilled chilled

**conc:** a numeric vector of ambient carbon dioxide concentrations (mL/L).

**uptake:** a numeric vector of carbon dioxide uptake rates (*umol/m^2* sec).

Test whether the population mean uptake is less than 30 or not with 5% level of significance

1. The Indometh.csv data frame has 66 rows and 3 columns of data on the pharmacokinetics of indometacin (or, older spelling, ‘indomethacin’).

**Subject**

an ordered factor with containing the subject codes. The ordering is according to increasing maximum response.

**time**

a numeric vector of times at which blood samples were drawn (hr).

**conc**

a numeric vector of plasma concentrations of indometacin (mcg/ml).

Test whether the population mean for Plasma Concentration is greater than 0.30 at 5% level of significance