

TravelMode

# Travel Mode Choice Data

## Description

Data on travel mode choice for travel between Sydney and Melbourne, Australia.

## Usage

```
data("TravelMode")
```

## Format

A data frame containing 840 observations on 4 modes for 210 individuals.

individual

Factor indicating individual with levels 1 to 200.

mode

Factor indicating travel mode with levels "car", "air", "train", or "bus".

choice

Factor indicating choice with levels "no" and "yes".

wait

Terminal waiting time, 0 for car.

vcost

Vehicle cost component.

travel

Travel time in the vehicle.

gcost

Generalized cost measure.

income

Household income.

size

Party size.

## Source

Online complements to Greene (2003).

<http://pages.stern.nyu.edu/~wgreene/Text/tables/tablelist5.htm>

## References

Greene, W.H. (2003). *Econometric Analysis*, 5th edition. Upper Saddle River, NJ: Prentice Hall.

## See Also

Greene2003

## Examples

```
data("TravelMode")

## overall proportions for chosen mode
with(TravelMode, prop.table(table(mode[choice == "yes"])))

## travel vs. waiting time for different travel modes
library("lattice")
xyplot(travel ~ wait | mode, data = TravelMode)

## Greene (2003), Table 21.11, conditional logit model
if(require("mlogit")) {
  TravelMode$incair <- with(TravelMode, income * (mode == "air"))
  tm_cl <- mlogit(choice ~ gcost + wait + incair, data = TravelMode,
    shape = "long", alt.var = "mode", reflevel = "car")
  summary(tm_cl)
}
```