```
## More examples can be found in:
## help("WinkelmannBoes2009")
```

Guns *More Guns, Less Crime?*

Description

Guns is a balanced panel of data on 50 US states, plus the District of Columbia (for a total of 51 states), by year for 1977–1999.

Usage

```
data("Guns")
```

Format

A data frame containing 1,173 observations on 13 variables.

state factor indicating state.

year factor indicating year.

violent violent crime rate (incidents per 100,000 members of the population).

murder murder rate (incidents per 100,000).

robbery robbery rate (incidents per 100,000).

prisoners incarceration rate in the state in the previous year (sentenced prisoners per 100,000 residents; value for the previous year).

afam percent of state population that is African-American, ages 10 to 64.

cauc percent of state population that is Caucasian, ages 10 to 64.

male percent of state population that is male, ages 10 to 29.

population state population, in millions of people.

income real per capita personal income in the state (US dollars).

density population per square mile of land area, divided by 1,000.

law factor. Does the state have a shall carry law in effect in that year?

Details

Each observation is a given state in a given year. There are a total of 51 states times 23 years = 1,173 observations.

Source

Online complements to Stock and Watson (2007).

References

Ayres, I., and Donohue, J.J. (2003). Shooting Down the 'More Guns Less Crime' Hypothesis. *Stanford Law Review*, **55**, 1193–1312.

Stock, J.H. and Watson, M.W. (2007). *Introduction to Econometrics*, 2nd ed. Boston: Addison Wesley.

See Also

StockWatson2007

Examples

```
## data
data("Guns")

## visualization
library("lattice")
xyplot(log(violent) ~ as.numeric(as.character(year)) | state, data = Guns, type = "l")

## Stock & Watson (2007), Empirical Exercise 10.1, pp. 376--377
fm1 <- lm(log(violent) ~ law, data = Guns)
coeftest(fm1, vcov = sandwich)

fm2 <- lm(log(violent) ~ law + prisoners + density + income +
  population + afam + cauc + male, data = Guns)
coeftest(fm2, vcov = sandwich)

fm3 <- lm(log(violent) ~ law + prisoners + density + income +
  population + afam + cauc + male + state, data = Guns)
printCoefmat(coeftest(fm3, vcov = sandwich)[1:9,])

fm4 <- lm(log(violent) ~ law + prisoners + density + income +
  population + afam + cauc + male + state + year, data = Guns)
printCoefmat(coeftest(fm4, vcov = sandwich)[1:9,])
```

HealthInsurance *Medical Expenditure Panel Survey Data*

Description

Cross-section data originating from the Medical Expenditure Panel Survey survey conducted in 1996.

Usage

```
data("HealthInsurance")
```