

Descriptive Statistics and Graphs in Stata

Ben Shepherd

Principal, Developing Trade Consultants

Descriptive statistics

- } Stata's summarize command produces basic descriptive statistics
 - } *Summarize var1 var2 var3 ...*
- } Stata's tabulate command gives information on categories within categorical variables
 - } *Tabulate var1*
- } Stata's correlate command produces a correlation matrix for the listed variables
 - } *Correlate var1 var2 var3 ...*

Basic graphs

- } Use the histogram command to produce a histogram of the listed variable
 - } *Histogram var1*

- } Stata's kdensity command can be used to produce a kernel density plot of the listed variable
 - } *Kdensity var1*

- } The twoway command can be used to produce combinations of graphs of various types
 - } *Twoway (kdesnity var1) (kdensity var2)*
 - } *Twoway (scatter var1 var2) (lfit var1 var2)*

The if command

- } Descriptive statistics and graphs can both be made more interesting by using the if command to limit the sample:
 - } *Summarize var1 if dummy1==1*
 - } *Summarize var1 if dummy1~=1*
 - } *Twoway (kdensity var1 if dummy1==1) (kdensity var1 if dummy1==0)*

- } The regression commands examined in subsequent sessions can also be applied to limited samples using if.