

Title

bradmean — Computes multiple independent means in a single table

Syntax

bradmean [varlist] [if] [in] [, *options*]

| <i>options</i> | Description |
|----------------------------------|---|
| Weight | |
| svy | statistics will be survey weighted |
| subpop (<i>varname</i>) | subpopulation estimation by <i>varname</i> ; <i>varname</i> must be 0/1 |
| Over | |
| over (<i>varlist</i>) | estimation over groups defined by <i>varlist</i> |
| overopt (<i>string</i>) | options for over variables |
| test (<i>string</i>) | options for significance testing |
| Output | |
| display (<i>string</i>) | general display options |
| title (<i>string</i>) | optional custom title or "none" to display no title |
| sort (<i>string</i>) | sorting results within a series |
| stats (<i>string</i>) | select which statistics to be displayed |
| format (<i>string</i>) | formatting options for displayed statistics |
| excel (<i>string</i>) | Excel output options |

weights are allowed; see svyset.

Description

bradmean computes multiple independent means of varlist. Estimations can be run by groups and can include significance testing.

Options

Weight

svy specifies that statistics will be survey weighted.

subpop(*varname*) specifies that estimates be computed using subpopulation varname. varname must be 0/1.

Over

over(*varlist*) specifies that estimates be computed for multiple groups, which are identified by the different values of the variable(s) varlist.

overopt(*string*) has the following options:

| | |
|-----------------|--|
| nolabels | do not display over labels |
| nolegend | do not display legend for over groups |
| nomiss | do not display groups with no non-missing values |
| total | display overall statistics |
| group | display each group size below name (wide only) |

test(*string*) has the following options:

| | |
|--|---|
| <u>chi2</u> | display Chi2 p-values for categorical variables. When data is <u>svyset</u> , an adjusted Wald F-test is used instead |
| <u>ttest</u> (<u>string</u>) | display t-test p-values for overall comparisons (only applies when there are 2 groups), individual comparisons, or all for both overall and individual |
| <u>ftest</u> (<u>string</u>) | display adjusted Wald F-test p-values for overall comparisons, individual comparisons, or all for both overall and individual. <u>mtest</u> (<u>string</u>) allows adjustments for multiple comparisons using bonferroni , holm , or sidak |
| <u>stars</u> (<u>numlist</u>) | creates up to 3 significance stars for overall p-values less than <u>numlist</u> containing 0-3 values. Leaving <u>numlist</u> empty defaults to $p < 0.05$ and $p < 0.01$ |
| <u>scripts</u> (<u>numlist</u>) | creates up to 18 significance scripts for individual p-values less than <u>numlist</u> containing 0-1 values. Leaving <u>numlist</u> empty defaults to $p < 0.05$ |
| <u>stat</u> | display test statistics with p-values |
| <u>force</u> | display p-values even with stars or scripts enabled |
| <u>nofooter</u> | do not display footer explaining significance stars and scripts |

Output

display(string) has the following options:

| | |
|---------------------------------------|--|
| <u>xi</u> | enable both xi value and xi variable labels |
| <u>xivals</u> | enable xi value labels (default is ON) |
| <u>xivars</u> | enable xi variable labels (default is OFF) |
| <u>series</u> | enable both series value and series variable labels |
| <u>seriesvals</u> | enable series value labels (default is OFF) |
| <u>seriesvars</u> | enable series variable labels (default is OFF) |
| <u>wide</u> | print table in a wide format |
| <u>align</u> (<u>string</u>) | choose left , center , or right alignment of statistics |
| <u>nostat</u> | do not display statistic names (wide only & single statistic only) |
| <u>noprint</u> | do not display table (can be used with Excel output) |

title(string) specifies an optional custom title or **"none"** to display no title.

sort(string) allows sorting within series by choosing direction (+ for ascending, - for descending) and statistic (obs nyes mean se sd var min max).

stats(string) allows users to choose from the following statistics:

| | |
|--------------------|---|
| <u>obs</u> | observations |
| <u>nyes</u> | number of "yes" answers (only for binary variables) |
| <u>mean</u> | mean |
| <u>se</u> | standard error |
| <u>sd</u> | standard deviation |
| <u>var</u> | variance |
| <u>ci</u> | confidence interval |
| <u>min</u> | minimum |
| <u>max</u> | maximum |
| <u>all</u> | all of the above |

format(string) sets the formatting for statistics. Individual statistics can be formatted using **stat**(string) where **stat** can be obs, nyes, mean, se, sd, var, ci, min, max, count (obs/nyes), error (se/sd/var), or minmax (min/max). The following options are allowed:

| | |
|--------------------------------|---|
| <code>round(#)</code> | round for both binary and continuous variables. Default is 7 |
| <code>roundi(#)</code> | round for binary variables. Default is 7 |
| <code>roundc(#)</code> | round for continuous variables. Default is 7 |
| <code>pct</code> | format binary variables as a percentage |
| <code>percent</code> | format binary variables as a percentage |
| <code>nosymbol</code> | do not display % after percentage |
| <code>notation(string)</code> | choose to surround statistic with parentheses or brackets |
| <code>stars</code> | display significance stars on this statistic. Default is mean |
| <code>scripts</code> | display significance scripts on this statistic. Default is ci |
| <code>lvl(#)</code> | (ci only) choose level for confidence interval |
| <code>level(#)</code> | (ci only) choose level for confidence interval |
| <code>proportion</code> | (ci only) logit transform the confidence interval (similar to proportion) |
| <code>combined</code> | (ci only) put lower CI and upper CI in 1 column |
| <code>separator(string)</code> | (ci only) use "-" or "," to separate a combined CI |
| <code>nocomma</code> | (count only) do not display thousands separators |

`excel(string)` has the following options:

| | |
|----------------------------|---|
| <code>file(string)</code> | location of output file. Default is a file named bradmean_output.xlsx in the current working directory |
| <code>sheet(string)</code> | name of sheet to be used. Default is the first file in the sheet or Sheet1 in a new workbook |
| <code>replace</code> | replace the workbook |
| <code>sheetreplace</code> | replace the sheet |
| <code>modify</code> | append table to the end of the sheet |
| <code>font(string)</code> | choose the font face from Arial , Calibri , Garamond , Helvetica , TNR (Times New Roman), or Verdana . Default is Calibri |
| <code>size(#)</code> | choose the font size between 9 and 12. Default is 11 |
| <code>color(string)</code> | choose the color styles from bradmean , monochrome , rti , material_red , material_purple , material_indigo , material_blue , material_green , and material_orange |