

\* Stata Analysis Examples Replication for ASDA 3rd Edition  
\* Berglund Fall 2024

\*\*\* CHAPTER 6

\* Example 6.1, Table 6.1

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\nhanes1112.dta", clear
gen age18p = 1 if age >= 18 & age != .
replace age18p = 0 if age < 18
gen irregular = .
replace irregular = 1 if bpxpuls == 2
replace irregular = 0 if bpxpuls == 1
```

```
svyset sdmvpsu [pweight = WTMEC2YR], strata(sdmvstra)
svy, subpop(age18p): tab irregular, se ci col deff
svy, subpop(age18p): proportion irregular
svy, subpop(age18p): mean irregular
estat effects
```

\* Example 6.2, Table 6.2 (Part 1)

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\nhanes1112.dta", clear
gen age18p = 1 if age >= 18 & age != .
replace age18p = 0 if age < 18
svyset sdmvpsu [pweight = WTMEC2YR], strata(sdmvstra)
svy, subpop(age18p): prop RIDRETH1
estat effects
```

\* Example 6.3, Table 6.3

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\nhanes1112.dta", clear
gen age18p = 1 if age >= 18 & age != .
replace age18p = 0 if age < 18
svyset sdmvpsu [pweight = WTMEC2YR], strata(sdmvstra)
svy, subpop(age18p): tab bp_cat, obs se ci
svy, subpop(age18p): tab bp_cat, deff
```

\* Example 6.4, Table 6.4

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\ess6_russia.dta", clear
svyset psu [pweight = pspwght], strata(stratify)
svy: tab marcat, obs se ci
svy: tab marcat, deff
recode marcat (1=.5) (2=.25) (3=.25), generate (pi)
* ssc install moremata if needed
mgof marcat = pi, svy
```

\* Example 6.5, Figures 6.3 and 6.4

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\ess6_russia.dta", clear
svyset psu [pweight = pspwght], strata(stratify)
tabulate marcat, generate(marcat)
label var marcat1 "Married"
label var marcat2 "Previously Married"
label var marcat3 "Never Married"
```

\* Pie Chart (one long command)

```
graph pie marcat1 marcat2 marcat3 ///
[pweight=pspwght], plabel(_all percent, ///
format(%9.1f)) scheme(s2mono) legend ///
(label(1 "Married") label(2 "Previously Married") ///
label(3 "Never Married"))
```

\* Vertical Bar Chart (one long command)

```
graph bar (mean) marcat1 marcat2 marcat3 ///
[pweight=pspwght], percentages ///
bar(1,color(gs12)) bar(2,color(gs4)) ///
bar(3,color(gs8)) blabel(bar, format(%5.1f)) ///
```

```

bargap(7) scheme(s2mono) ///
legend (label(1 "Married") ///
label(2 "Previously Married") label(3 "Never Married")) ///
ytittle ("Percentage")

```

\* Example 6.6, Table 6.5

```

use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\ncsr.dta", clear
svyset seclustr [pweight = ncsrwtsh], strata(sestrat)
svy: tab sex mde, se ci deff
svy: tab sex mde, row se ci deff

```

\* Example 6.7

```

use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\ncsr.dta", clear
svyset seclustr [pweight=ncsrwtsh], strata(sestrat)
svy: proportion mde, over(sex)
lincom 1.mde@1.sex - 1.mde@2.sex

```

\* Example 6.8, Table 6.7

```

use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\ncsr.dta", clear
svyset seclustr [pweight=ncsrwtsh], strata(sestrat)
svy: tab sex mde, se ci deff

```

\* Example 6.9, Table 6.8

```

use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\ncsr.dta", clear
svyset seclustr [pweight=ncsrwtlg], strata(sestrat)
svy, subpop(if 18 <= age & age < 29): tab ED4CAT ald, ///
row se ci deff

```

\* Example 6.10

```

use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\ncsr.dta", clear
svyset seclustr [pweight = ncsrwtsh], strata(sestrat)
svy: logistic mde sexm

```

\* Figure 6.8

```

use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\ess6_russia.dta", clear
svyset psu [pweight = pspwght], strata(stratify)
tabulate marcat, generate(marcat)
label var marcat1 "Married"
label var marcat2 "Previously Married"
label var marcat3 "Never Married"

```

```

label define gndr 1 "Men" 2 "Women"
label values gndr gndr

```

```

graph bar (mean) marcat1 marcat2 marcat3 ///
[pweight=pspwght], percentages ///
bar(1,color(gs12)) bar(2,color(gs4)) ///
bar(3,color(gs8)) blabel(bar, format(%5.1f)) bargap(7) ///
scheme(s2mono) over(gndr) ///
legend (label(1 "Married") ///
label(2 "Previously Married") ///
label(3 "Never Married")) ytittle("Percentage")

```