

* Stata Analysis Examples Replication for ASDA 3rd Edition
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*** CHAPTER 5

* Figure 5.1

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\hrs12.dta", clear  
twoway (scatter nwgthh H11ATOTA)
```

* Example 5.1

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\nhanes1112.dta"  
gen age18p = 1 if age >= 18 & age != .  
replace age18p = 0 if age < 18  
generate int_wtmec2yr = int(WTMEC2YR)  
histogram lbxtc if age18p [fweight = int_wtmec2yr]
```

* Example 5.2 (assumes the same NHANES data set for Example 5.1 is open)

```
gen female = (riagendr == 2)  
graph box lbxtc [pweight = WTMEC2YR] if age18p==1, by(female)
```

* Example 5.3

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\ncsr.dta", clear  
gen ncsrwtsh_pop = ncsrwtsh * (209128094 / 9282)  
svyset seclustr [pweight = ncsrwtsh_pop], strata(sestrat)  
svy: total mde  
mat list r(table)  
estat effects  
svy: total mde, over(MAR3CAT)  
mat list r(table)  
estat effects  
estat size
```

* Example 5.4

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\hrs12.dta", clear  
gen finr = 1  
replace finr = 0 if nfinr != 1  
svyset secu [pweight = nwgthh], strata(stratum)  
svy, subpop(finr): total H11ATOTA
```

* Example 5.5

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\hrs12.dta", clear  
svyset secu [pweight=nwgthh], strata(stratum)  
gen finr = 1  
replace finr = 0 if nfinr != 1  
svy, subpop(finr): mean H11ITOT
```

* Example 5.6

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\nhanes1112.dta", clear  
svyset sdmvpsu [pweight = WTMEC2YR], strata(sdmvstra)  
gen age18p = 1 if age >= 18 & age != .  
replace age18p = 0 if age < 18  
svy, subpop(age18p): mean BPXSY1  
estat effects
```

* Example 5.7

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\hrs12.dta", clear  
svyset secu [pweight=nwgthh], strata(stratum)  
gen finr = 1  
replace finr = 0 if nfinr != 1  
svy, subpop(finr): mean H11ATOTA  
estat effects
```

* Example 5.8

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\hrs12.dta", clear
summarize H11ATOTA [aweight = nwgthh]
```

* Example 5.9

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\hrs12.dta", clear
svyset secu [pweight = nwgthh], strata(stratum)
* note may need to download eptile from Stata Now
eptile H11ATOTA, percentiles(25 50 75) subpop(if nfinr==1) svy
```

* Example 5.10

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\hrs12.dta", clear
* install svylorenz if not present *ssc install svylorenz
svyset secu [pweight = nwgthh], strata(stratum)
gen posh11atota = H11ATOTA
replace posh11atota = 0 if H11ATOTA < 0
gen finr = 1
replace finr = 0 if nfinr != 1
svylorenz posh11atota, ngp(10) subpop(finr)
```

* Figure 5.5

```
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
twoway (scatter lbdhdd lbxtc if age18p==1) ///
(lfit lbdhdd lbxtc if age18p==1 [pweight=WTMEC2YR])
```

* Example 5.11

```
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
sum lbdhdd lbxtc [aweight = WTMEC2YR] if age18p == 1
correlate lbdhdd lbxtc [aweight = WTMEC2YR] if age18p == 1
gen stdlbxtc = (lbxtc - 194.4355) / 41.05184
gen stdlbdhdd = (lbdhdd - 52.83826) / 14.93157
sum stdlbdhdd stdlbxtc [aweight = WTMEC2YR] if age18p == 1
svyset sdmvpsu [pweight = WTMEC2YR], strata(sdmvstra)
svy, subpop(age18p): regress stdlbdhdd stdlbxtc
```

* Example 5.12

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

* Example 5.13

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\hrs12.dta", clear
svyset secu [pweight = nwgtr], strata(stratum)
svy, subpop(if age >= 70): mean diabetes, over(gender)
```

* Example 5.14

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\nhanes1112.dta", clear
svyset sdmvpsu [pweight = WTMEC2YR], strata(sdmvstra)
svy, subpop(if age > 45): mean BPXSY1, over(riagendr)
estat effects
estat size
```

* Example 5.15

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\hrs12.dta", clear
gen finr = 1
replace finr = 0 if nfinr != 1
svyset secu [pweight = nwgthh], strata(stratum)
svy, subpop(finr): mean H11ATOTA, over(edcat)
lincom H11ATOTA@1.edcat - H11ATOTA@4.edcat
```

* Example 5.16

```
use "P:\ASDA3\Data Sets for Analysis Examples and Stata R Code\hrs_2010_2012_both.dta", clear
des
rename *, lower

gen hhweight = mwgthh
replace hhweight = nwgthh if year == 2012
gen totwealth = h10atota
replace totwealth = h11atota if year == 2012
gen finr2010 = 0
replace finr2010 = 1 if (year == 2010 & mfinr == 1)
gen finr2012 = 0
replace finr2012 = 1 if (year == 2012 & nfinr == 1)
gen finr2010_2012 = 0
replace finr2010_2012 = 1 if finr2010 == 1 | finr2012 == 1
svyset secu [pweight = hhweight], strata(stratum)
svy, subpop(finr2010_2012): mean totwealth, over(year)
lincom c.totwealth@2010.year - c.totwealth@2012.year
```