



```

Over: riagendr race
_subpop_1: male NH White
_subpop_2: male NH Black
_subpop_3: male Mex American
_subpop_4: male Other race/ethn
_subpop_5: female NH White
_subpop_6: female NH Black
_subpop_7: female Mex American
_subpop_8: female Other race/ethn
    
```

Over	Linearized		
	Mean	Std. Err.	[95% Conf. Interval]
bmxbmi			
_subpop_1	27.97146	.1629487	27.63819 28.30472
_subpop_2	27.47229	.2013156	27.06055 27.88403
_subpop_3	27.70512	.2218706	27.25134 28.15889
_subpop_4	27.20158	.3128525	26.56172 27.84143
_subpop_5	27.6878	.2057362	27.26702 28.10858
_subpop_6	31.12176	.2803722	30.54833 31.69519
_subpop_7	28.74465	.3236612	28.08269 29.40661
_subpop_8	28.1202	.4408734	27.21852 29.02189

```

1 .
2 . log close
   log: c:\NHANES\log\adjmeans.log
   log type: text
   closed on: 15 Oct 2008, 12:41:42
3 .
4 .
5 .
6 .
end of do-file

7 . do "\\cdc\private\L722\evo2\My Web Sites\tutorials4\Nhanes\Download
   > s\Continuous\pop_totals.do"

8 . ****pgm: pop_totals.do*****
9 . ** down load (parmet, save)package dm65 dm65 from http://www.stata
   > .com/stb/stb49***
10 . ***the update dm65_1 http://www.stata.com/stb/stb58 does not work w

11 .
12 . use "C:\NHANES\Data\analysis_data.dta", clear

13 .
14 . ***create variable codes*****
15 . gen age=1 if ridageyr >=20 & ridageyr <40
   (17384 missing values generated)
    
```

```
16 . replace age=2 if ridageyr >=40 & ridageyr <60
    (2965 real changes made)

17 . replace age=3 if ridageyr >=60 & ridageyr <.
    (3706 real changes made)

18 .
19 . gen      race=1 if ridreth1==3
    (13031 missing values generated)

20 . replace race=2 if ridreth1==4
    (4909 real changes made)

21 . replace race=3 if ridreth1==1
    (6169 real changes made)

22 . replace race=4 if ridreth1==2 | ridreth1==5
    (1953 real changes made)

23 .
24 . *code to define mean blood pressure measures
25 .
26 . gen n_sbp= !missing(bpxsy1)+ !missing(bpxsy2)+ !missing(bpxsy3)+ !m
    > issing(bpxsy4)

27 . gen n_dbp= !missing(bpxdi1)+ !missing(bpxdi2)+ !missing(bpxdi3)+ !m
    > issing(bpxdi4)

28 .
29 . replace bpxdi1=. if bpxdi1==0
    (141 real changes made, 141 to missing)

30 . replace bpxdi2=. if bpxdi2==0
    (128 real changes made, 128 to missing)

31 . replace bpxdi3=. if bpxdi3==0
    (126 real changes made, 126 to missing)

32 . replace bpxdi4=. if bpxdi4==0
    (80 real changes made, 80 to missing)

33 .
34 . egen mean_sbp = rowmean(bpxsy1 bpxsy2 bpxsy3 bpxsy4)
    (5952 missing values generated)

35 . egen mean_dbp = rowmean(bpxdi1 bpxdi2 bpxdi3 bpxdi4)
    (6074 missing values generated)

36 .
37 . gen hbp_trt=1 if bpq050a==1
    (18752 missing values generated)

38 . replace hbp_trt=0 if hbp_trt !=1 & (bpq020==1 | bpq020==2)
```

```
39 .
40 . gen sbp140=1 if mean_sbp>=140 & mean_sbp<. & ((n_sbp >0 & n_sbp <.)
> & (n_dbp >0 & n_dbp <.)
(18930 missing values generated)

41 . replace sbp140=0 if sbp140 !=1 & ((n_sbp >0 & n_sbp <.) & (n_dbp >0
> & n_dbp <.)
(12978 real changes made)

42 .
43 . gen dbp90=1 if mean_dbp>=90 & mean_dbp<. & ((n_sbp >0 & n_sbp <.) &
> (n_dbp >0 & n_dbp <.)
(20423 missing values generated)

44 . replace dbp90=0 if dbp90 !=1 & ((n_sbp >0 & n_sbp <.) & (n_dbp >0 &
> n_dbp <.)
(14471 real changes made)

45 .
46 . gen hbp=1 if (hbp_trt==1 | sbp140==1 | dbp90==1) & ((hbp_trt>=0 & h
> bp_trt<.) & (sbp140>=0 & sbp140<.) & (dbp90>=0 & dbp90<.)
(17803 missing values generated)

47 . replace hbp=2 if hbp !=1 & ((hbp_trt>=0 & hbp_trt<.) & (sbp140>=0 &
> sbp140<.) & (dbp90>=0 & dbp90<.)
(7884 real changes made)

48 .
49 . gen hbpx=100 if hbp==1
(17803 missing values generated)

50 . replace hbpx=0 if hbp==2

51 .
52 . ****format variables*****
53 . label define agefmt 1 "20-39"

54 . label define agefmt 2 "40-59", add

55 . label define agefmt 6 "60+", add

56 .
57 . label define racefmt 1 "NH White",

58 . label define racefmt 2 "NH Black", add

59 . label define racefmt 3 "Mex American", add

60 . label define racefmt 4 "Other race/ethn", add

61 .
62 . label define sexfmt 1 "male"

63 . label define sexfmt 2 "female", add
```

```

64 .
65 . label values age agefmt
66 . label values riagendr sexfmt
67 . label values race racefmt
68 .
69 . log using "c:\NHANES\Log\pop_totals.log", replace

```

```

      log:    c:\NHANES\Log\pop_totals.log
     log type:  text
    opened on: 15 Oct 2008, 12:50:54

```

```

70 .
71 . *****
72 . ****specify survey design variables****
73 .
74 . svyset sdmvpsu [pweight=wtmec4yr], strata(sdmvstra) vce(linearized)

```

```

      pweight:  wtmec4yr
             VCE:  linearized
    Single unit:  missing
      Strata 1:  sdmvstra
         SU 1:  sdmvpsu
         FPC 1:  <zero>

```

```

75 .
76 . quietly svy, subpop(if ridageyr >=20 & ridageyr <.): mean hbpx
77 . estat size

```

		Linearized		Obs	Siz
		Mean	Std. Err.		
> e					
> -	hbpx	29.163	.9816776	8960	189834911.82
> 4					

```

> -

```

```

78 . parmest, saving("c:\NHANES\Data\popmean1", replace)
79 .
80 . quietly svy, subpop(if ridageyr >=20 & ridageyr <.): mean hbpx, ove
    > r(riagendr)
81 . estat size

```

```

      male: riagendr =  male
                    female

```

```
> -
```

	Over	Mean	Linearized Std. Err.	Obs	Siz
> e					
> -					
hbpx					
	male	27.27205	1.221283	4228	91137459.141
> 9					
	female	30.9091	1.068973	4732	98697452.682
> 5					

```
> -
```

82 . parmetst, saving("c:\NHANES\Data\popmean2", replace)

83 .

84 . quietly svy, subpop(if ridageyr >=20 & ridageyr <.): mean hbpx, ove
> r(race)

85 . estat size

```
_subpop_1: race = NH White
_subpop_2: race = NH Black
_subpop_3: race = Mex American
_subpop_4: race = Other race/ethn
```

```
> -
```

	Over	Mean	Linearized Std. Err.	Obs	Siz
> e					
> -					
hbpx					
	_subpop_1	29.6593	1.155505	4439	136710699.19
> 8					
	_subpop_2	36.95625	1.51299	1677	19690524.97
> 6					
	_subpop_3	17.14118	1.218031	2087	12730562.64
> 6					
	_subpop_4	25.86597	2.295632	757	20703125.004
> 7					

```
> -
```

86 . parmetst, saving("c:\NHANES\Data\popmean3", replace)

87 .

88 . quietly svy, subpop(if ridageyr >=20 & ridageyr <.): mean hbpx, ove
> r(riagendr race)

89 . estat size

```
Over: riagendr race
_subpop_1: male NH White
_subpop_2: male NH Black
_subpop_3: male Mex American
_subpop_4: male Other race/ethn
_subpop_5: female NH White
_subpop_6: female NH Black
_subpop_7: female Mex American
          female Other race/ethn
```

	Over	Mean	Linearized Std. Err.	Obs	Siz
<hr/>					
> e					
<hr/>					
> -					
hbpx					
> 8	_subpop_1	27.75207	1.298662	2143	66459195.113
> 9	_subpop_2	35.3589	1.543478	800	8909670.000
> 1	_subpop_3	17.2746	1.692196	957	6496691.2329
> 1	_subpop_4	23.06553	2.843264	328	9271902.7943
> 4	_subpop_5	31.46358	1.343947	2296	70251504.08
> 1	_subpop_6	38.27635	2.136529	877	10780854.975
> 6	_subpop_7	17.00213	1.507995	1130	6233871.4130
> 3	_subpop_8	28.13741	3.1949	429	11431222.210

> -

```

90 . parmest, saving("c:\NHANES\Data\popmean4", replace)

91 .
92 . *****
93 . ***create race and gender variables from output datasets so that es
94 . timates can be merged to control totals output dataset*
95 . *****
96 . use "c:\NHANES\Data\popmean1", clear

97 . gen riagendr=0

98 . gen race=0

99 . drop parm

100 . save "c:\NHANES\Data\popmean1", replace
    file c:\NHANES\Data\popmean1.dta saved

101 .
102 . use "c:\NHANES\Data\popmean2", clear

103 . gen riagendr=1 if parm=="male"
    (1 missing value generated)

104 . replace riagendr=2 if parm=="female"

```

```
105 . gen race=0
106 . drop parm
107 . save "c:\NHANES\Data\popmean2", replace
    file c:\NHANES\Data\popmean2.dta saved
108 .
109 . use "c:\NHANES\Data\popmean3", clear
110 . gen riagendr=0
111 . gen race=1 if parm=="_subpop_1"
    (3 missing values generated)
112 . replace race=2 if parm=="_subpop_2"
    (1 real change made)
113 . replace race=3 if parm=="_subpop_3"
    (1 real change made)
114 . replace race=4 if parm=="_subpop_4"
    (1 real change made)
115 . drop parm
116 . save "c:\NHANES\Data\popmean3", replace
    file c:\NHANES\Data\popmean3.dta saved
117 .
118 . use "c:\NHANES\Data\popmean4", clear
119 . gen riagendr=1 if parm=="_subpop_1" | parm== "_subpop_2" | parm== "
    > _subpop_3" | parm== "_subpop_4"
    (4 missing values generated)
120 . replace riagendr=2 if parm=="_subpop_5" | parm== "_subpop_6" | parm
    > == "_subpop_7" | parm== "_subpop_8"
    (4 real changes made)
121 . gen race=1 if parm=="_subpop_1" | parm== "_subpop_5"
    (6 missing values generated)
122 . replace race=2 if parm=="_subpop_2" | parm== "_subpop_6"
    (2 real changes made)
123 . replace race=3 if parm=="_subpop_3" | parm== "_subpop_7"
    (2 real changes made)
124 . replace race=4 if parm=="_subpop_4" | parm== "_subpop_8"
    (2 real changes made)
125 . save "c:\NHANES\Data\popmean4", replace
```

```
126 .
127 . *****combine into one dataset *****
128 . use "c:\NHANES\Data\popmean1", clear

129 . append using "C:\NHANES\Data\popmean2"

130 . append using "C:\NHANES\Data\popmean3"

131 . append using "C:\NHANES\Data\popmean4"

132 . sort riagendr race

133 . save "c:\NHANES\Data\popmeans", replace
file c:\NHANES\Data\popmeans.dta saved

134 .
135 . *****
> *****
136 . ****Combine population control totals by gender and race ethnic gro
> ups from provided CPS dataset (cpstot9902)*****
137 . *****
> *****
138 .
139 . use "C:\NHANES\Data\cpstot9902.dta", clear

140 . collapse (sum) ctutpopt if ctutage >=20,

141 . save "C:\NHANES\Data\tot9902a", replace
file C:\NHANES\Data\tot9902a.dta saved

142 .
143 . use "C:\NHANES\Data\cpstot9902.dta", clear

144 . collapse (sum) ctutpopt if ctutage >=20, by(ctutgndr)

145 . save "C:\NHANES\Data\tot9902b", replace
file C:\NHANES\Data\tot9902b.dta saved

146 .
147 . use "C:\NHANES\Data\cpstot9902.dta", clear

148 . collapse (sum) ctutpopt if ctutage >=20, by(ctutrace)

149 . save "C:\NHANES\Data\tot9902c", replace
file C:\NHANES\Data\tot9902c.dta saved

150 .
151 . use "C:\NHANES\Data\cpstot9902.dta", clear

152 . collapse (sum) ctutpopt if ctutage >=20, by(ctutgndr ctutrace)

153 . save "C:\NHANES\Data\tot9902d", replace

154 .
```



```
155 . ***combine into one dataset***
156 . use "C:\NHANES\Data\tot9902a", clear

157 . append using "C:\NHANES\Data\tot9902b"

158 . append using "C:\NHANES\Data\tot9902c"

159 . append using "C:\NHANES\Data\tot9902d"

160 .
161 . rename ctutgndr riagendr

162 . rename ctutrace race

163 .
164 . replace riagendr=0 if riagendr==.
    (5 real changes made)

165 . replace race=0 if race==.

166 .
167 . sort riagendr race

168 . save "C:\NHANES\Data\poptot9902", replace
    file C:\NHANES\Data\poptot9902.dta saved

169 .
170 . *****
    > *****
171 . ***merge population estimates and population control totals
172 . *****
    > *****
173 .
174 . use "C:\NHANES\Data\popmeans", clear

175 . merge riagendr race using "C:\NHANES\Data\poptot9902.dta"

176 .
177 . gen est=round(estimate,.01)

178 . gen se=round(stderr,.01)

179 . gen ll=round(min95,.01)

180 . gen ul=round(max95,.01)

181 .
182 . gen popmean=(est/100)*ctutpopt

183 . gen popl=(ll/100)*ctutpopt

184 . gen popu=(ul/100)*ctutpopt

185 .
```

```

186 . gen popmeanr=round(popmean,1000)
187 . gen poplr=round(popl,1000)
188 . gen popur=round(popu,1000)
189 . gen poptot_r =round(ctutpopt,1000)
190 .
191 . label values riagendr sexfmt
192 . label values race racefmt
193 .
194 . save "C:\NHANES\Data\popmeans", replace
    file C:\NHANES\Data\popmeans.dta saved
195 . label define racefmt 0 "Total",
196 . label define racefmt 1 "NH White", add
197 . label define racefmt 2 "NH Black", add
198 . label define racefmt 3 "Mex American", add
199 . label define racefmt 4 "Other race/ethn", add
200 .
201 . label define sexfmt 0 "Total"
202 . label define sexfmt 1 "male", add
203 . label define sexfmt 2 "female", add
204 .
205 . label values riagendr sexfmt
206 . label values race racefmt
207 .
208 . format est se ll ul poptot_r popmeanr poplr popur %5.2f
209 .
210 . list riagendr race est se ll ul poptot_r popmeanr poplr popur, clea
    > n

```

	riagendr	race	est	se	ll	ul	po
> ptot_r	popmeanr	poplr	popur				
1.	Total	Total	29.16	0.98	27.16	31.17	2
> .0e+08	5.8e+07	5.4e+07	6.2e+07				
2.	Total	NH White	29.66	1.16	27.30	32.02	1
> .4e+08	4.3e+07	3.9e+07	4.6e+07				
3.	Total	NH Black	36.96	1.51	33.86	40.05	2
> .2e+07	8.1e+06	7.4e+06	8.8e+06				
4.	Total	Mex American	17.14	1.22	14.65	19.63	1
> .4e+07	2.4e+06	2.1e+06	2.8e+06				
5.	Total	Other race/ethn	25.87	2.30	21.17	30.56	1
> .9e+07	4.8e+06	3.9e+06	5.7e+06				
6.	male	Total	27.27	1.22	24.77	29.77	9
> .5e+07	2.6e+07	2.3e+07	2.8e+07				
7.	male	NH White	27.75	1.30	25.10	30.41	6
> .9e+07	1.9e+07	1.7e+07	2.1e+07				
8.	male	NH Black	35.36	1.54	32.20	38.52	9
> .6e+06	3.4e+06	3.1e+06	3.7e+06				
9.	male	Mex American	17.27	1.69	13.81	20.74	7
> .4e+06	1.3e+06	1.0e+06	1.5e+06				
10.	male	Other race/ethn	23.07	2.84	17.25	28.88	8

> .9e+06	2.0e+06	1.5e+06	2.6e+06					
11.	female	Total	30.91	1.07	28.72	33.10	1	
> .0e+08	3.2e+07	3.0e+07	3.4e+07					
12.	female	NH White	31.46	1.34	28.71	34.21	7	
> .5e+07	2.4e+07	2.2e+07	2.6e+07					
13.	female	NH Black	38.28	2.14	33.91	42.65	1	
> .2e+07	4.7e+06	4.2e+06	5.3e+06					
14.	female	Mex American	17.00	1.51	13.92	20.09	6	
> .7e+06	1.1e+06	9.3e+05	1.3e+06					
15.	female	Other race/ethn	28.14	3.19	21.60	34.67	9	
> .7e+06	2.7e+06	2.1e+06	3.4e+06					

```
211 . log close
      log: c:\NHANES\Log\pop_totals.log
      log type: text
           15 Oct 2008, 12:51:05
```

```
212 .
      end of do-file
```

```
213 .
```