```
-------------------------------------------------------------------------------
      log:  c:\nhanes\log\hypothesis_geometric.log
  log type:  text
 opened on:   5 Aug 2008, 09:46:43

. 
. ****specify survey design variables****
. svyset [w=wtsaf4yr], psu(sdmvpsu) strata(sdmvstra) vce(linearized)
(sampling weights assumed)

      pweight: wtsaf4yr
          VCE: linearized
  Single unit: missing
     Strata 1: sdmvstra
         SU 1: sdmvpsu
        FPC 1: <zero>

. 
. gen lnlbxtr=ln(lbxtr)
(13513 missing values generated)

. 
. svy:mean lnlbxtr, subpop(if ridageyr >=20)
(running mean on estimation sample)

Survey: Mean estimation

Number of strata =      28       Number of obs    =       7491
Number of PSUs   =      57       Population size  =  254286940
                                  Subpop. no. obs  =       3982
                                  Subpop. size     =  195344394
                                  Design df        =         29

--------------------------------------------------------------
             |             Linearized
             |       Mean   Std. Err.     [95% Conf. Interval]
-------------+------------------------------------------------
     lnlbxtr |   4.803474   .0151274      4.772535    4.834413
--------------------------------------------------------------

. ereturn display, eform(geo_mean)
-------------------------------------------------------------------------------
> --
             |             Linearized
        Mean |   geo_mean   Std. Err.      t    P>|t|     [95% Conf.
Interva
> l]
-------------+-----------------------------------------------------------------
> --
```

```
     lnlbxtr |   121.9333   1.844529   317.54   0.000     118.2186
125.76
> 47
------------------------------------------------------------------
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> --

.
. svy: mean lnlbxtr, subpop(if ridageyr >=20) over(riagendr)
(running mean on estimation sample)

Survey: Mean estimation

Number of strata =      28       Number of obs    =       7491
Number of PSUs   =      57       Population size  =  254286940
                                  Subpop. no. obs  =       3982
                                  Subpop. size     =  195344394
                                  Design df        =         29

         male: riagendr = male
       female: riagendr = female

--------------------------------------------------------------
             |             Linearized
        Over |       Mean   Std. Err.     [95% Conf. Interval]
-------------+------------------------------------------------
lnlbxtr      |
        male |   4.870843   .0246836       4.82036    4.921327
      female |   4.740517   .0145077      4.710846    4.770189
--------------------------------------------------------------

. ereturn display, eform(geo_mean)
------------------------------------------------------------------
-------
> --
             |             Linearized
        Mean |   geo_mean   Std. Err.      t    P>|t|     [95% Conf.
Interva
> l]
-------------+----------------------------------------------------
-------
> --
lnlbxtr      |
        male |   130.4309   3.219503   197.33   0.000     124.0097
137.18
> 45
      female |   114.4934   1.661039   326.76   0.000     111.1461
117.94
> 15
------------------------------------------------------------------
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> --
```

```
.
. svy: mean lnlbxtr, subpop(if ridageyr >=20) over(riagendr age1)
(running mean on estimation sample)

Survey: Mean estimation

Number of strata =      28       Number of obs    =       4363
Number of PSUs   =      57       Population size  =  195344394
                                  Subpop. no. obs  =       3982
                                  Subpop. size     =  195344394
                                  Design df        =         29

          Over: riagendr age1
    _subpop_1: male 20-29
    _subpop_2: male 30-39
    _subpop_3: male 40-49
    _subpop_4: male 50-59
    _subpop_5: male 60-69
    _subpop_6: male 70+
    _subpop_7: female 20-29
    _subpop_8: female 30-39
    _subpop_9: female 40-49
   _subpop_10: female 50-59
   _subpop_11: female 60-69
   _subpop_12: female 70+

------------------------------------------------------------------
             |             Linearized
        Over |       Mean   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------------
lnlbxtr      |
   _subpop_1 |   4.638471   .0362218      4.564389    4.712553
   _subpop_2 |   4.804911   .0284482      4.746728    4.863094
   _subpop_3 |    5.02794   .0572675      4.910815    5.145065
   _subpop_4 |   4.996309   .0444864      4.905324    5.087294
   _subpop_5 |   4.946844   .0429688      4.858963    5.034725
   _subpop_6 |    4.82958   .0341224      4.759792    4.899368
   _subpop_7 |   4.578733   .0335471      4.510122    4.647345
   _subpop_8 |   4.621535   .0257475      4.568875    4.674194
   _subpop_9 |   4.640698   .0376042      4.563789    4.717607
  _subpop_10 |   4.886962   .0377052      4.809846    4.964078
  _subpop_11 |   4.966643   .0276676      4.910056    5.023229
  _subpop_12 |   4.953592   .0324425      4.887239    5.019944
------------------------------------------------------------------

. ereturn display, eform(geo_mean)
------------------------------------------------------------------------------
-------
> --
             |             Linearized
        Mean |   geo_mean   Std. Err.      t    P>|t|     [95% Conf.
```

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Interva
> l]
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> --
lnlbxtr      |
   _subpop_1 |   103.3861   3.744829   128.06   0.000     96.00392
 111.3
> 36
   _subpop_2 |   122.1086   3.473775   168.90   0.000     115.2067
 129.4
> 24
   _subpop_3 |   152.6183   8.740063    87.80   0.000       135.75
171.58
> 27
   _subpop_4 |   147.8664    6.57804   112.31   0.000     135.0066
 161.9
> 51
   _subpop_5 |   140.7302    6.04701   115.13   0.000     128.8905
153.65
> 74
   _subpop_6 |   125.1584   4.270705   141.54   0.000     116.7216
 134.2
> 05
   _subpop_7 |   97.39095   3.267183   136.49   0.000      90.9329
104.30
> 77
   _subpop_8 |   101.6499   2.617227   179.49   0.000     96.43561
107.14
> 62
   _subpop_9 |   103.6166   3.896416   123.41   0.000      95.9463
111.90
> 01
  _subpop_10 |   132.5502    4.99783   129.61   0.000     122.7127
143.17
> 64
  _subpop_11 |   143.5441   3.971528   179.51   0.000      135.647
151.90
> 11
  _subpop_12 |   141.6829   4.596553   152.69   0.000      132.587
151.40
> 28
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> --

.
. log close
      log:  c:\nhanes\log\hypothesis_geometric.log
  log type:  text
 closed on:   5 Aug 2008, 09:46:47
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