```
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
-----------
      name:  <unnamed>
       log:  D:\SkintoneOutput_ver3_clean.log
  log type:  text
 opened on:   5 Dec 2017, 10:49:02

.
. /*
> Replication code and output for:
>
> Devaraj, S., Quigley, N., and Patel, P.C. The Effects of Skin Tone, Height, and
Gender on Objective Career Success. PLOS ONE.
>
> Data availability:
> NLSY 1997 data has two versions – one version that is publicly available and the
other with geocode information available through special request to the Bureau of
Labor Statis
> tics (BLS) in the US. We have used the latter version to control for location
fixed-effects. Therefore we cannot publicly post the data, however, it is available
from BLS upon
>  request. All requests related to NLSY geocode data should be directed to:
NLSYGeocode@bls.gov .
>
> Replication code:
> To facilitate replication, we have uploaded the following on Harvard Dataverse:
> (i) An end-to-end syntax file in Stata 15 for replication using NLSY 1997 data
provided by the BLS to us on October 28, 2014 by Employment Research and Program
Development Sta
> ff.
> (ii) an end-to-end raw output file from the analysis completed in Stata 15.
>
> Devaraj, Srikant; Quigley, Narda R.; Patel, Pankaj C., 2017, "Replication files
for "The Effects of Skin Tone, Height, and Gender on Earnings",
doi:10.7910/DVN/XGNHSA, Harvard
>  Dataverse,V1/2
>
> */
.
. use Finaldataset.dta
.
.
. xtset PUBID_1997 year
       panel variable:  PUBID_1997 (strongly balanced)
        time variable:  year, 1997 to 2011
                delta:  1 unit
```

```
.
. by PUBID_1997: gen race_eth = KEY_RACE_ETHNICITY_[1]

. count if race_eth ==.
  0

. gen color = skincolor
(37,620 missing values generated)

. replace color=0 if race_eth ==4
(69,345 real changes made)

.
.
. by PUBID_1997 : gen gender = KEY_SEX_[1]

. clonevar female = gender

. recode female (1=0) (2=1)
(female: 134745 changes made)

.
. gen male=female

. recode male (0=1) (1=0)
(male: 134745 changes made)

.
. gen white=.
(134,745 missing values generated)

. replace white=1 if race_eth ==4
(69,960 real changes made)

. replace white=0 if race_eth !=4 & race_eth !=.
(64,785 real changes made)

.
. gen anyblack=.
(134,745 missing values generated)

. replace anyblack=1 if race_eth==1
(35,025 real changes made)

. replace anyblack=0 if race_eth!=1 & race_eth !=.
(99,720 real changes made)

.
```

```
. gen lightblack=.
(134,745 missing values generated)

. replace lightblack=1 if race_eth ==1 & (skincolor >=1 & skincolor <=5)
(9,360 real changes made)

. replace lightblack=0 if lightblack ==. & race_eth!=.
(125,385 real changes made)

.
. gen medblack=.
(134,745 missing values generated)

. replace medblack=1 if race_eth ==1 & (skincolor >=6 & skincolor <=7)
(9,840 real changes made)

. replace medblack =0 if medblack==.  & race_eth!=.
(124,905 real changes made)

.
. gen darkblack=.
(134,745 missing values generated)

. replace darkblack=1 if race_eth ==1 & (skincolor >=8 & skincolor <=10)
(7,755 real changes made)

. replace darkblack=0 if darkblack ==.  & race_eth!=.
(126,990 real changes made)

.
. clonevar totincome = YINC_1700_

. gen lntotinc = ln(totincome+1)
(65,960 missing values generated)

.
. gen cpiadj = .
(134,745 missing values generated)

. replace cpiadj =1.40121 if year==1997
(8,983 real changes made)

. replace cpiadj =1.37987 if year==1998
(8,983 real changes made)

. replace cpiadj =1.35025 if year==1999
(8,983 real changes made)
```

```
. replace cpiadj =1.30627 if year==2000
(8,983 real changes made)

. replace cpiadj =1.27049 if year==2001
(8,983 real changes made)

. replace cpiadj =1.25054 if year==2002
(8,983 real changes made)

. replace cpiadj =1.22244 if year==2003
(8,983 real changes made)

. replace cpiadj =1.19068 if year==2004
(8,983 real changes made)

. replace cpiadj =1.15191 if year==2005
(8,983 real changes made)

. replace cpiadj =1.11595 if year==2006
(8,983 real changes made)

. replace cpiadj =1.08481 if year==2007
(8,983 real changes made)

. replace cpiadj =1.04495 if year==2008
(8,983 real changes made)

. replace cpiadj =1.04831 if year==2009
(8,983 real changes made)

. replace cpiadj =1.03143 if year==2010
(8,983 real changes made)

. replace cpiadj =1 if year==2011
(8,983 real changes made)

.
. gen totincomeadj = totincome * cpiadj

. gen lntotincadj = ln(totincomeadj +1)
(65,960 missing values generated)

.
.
. clonevar heightfta=YSAQ_000A000001
(62,881 missing values generated)

. egen heightft = rowtotal (YHEA_2050 YSAQ_000A_000001 YSAQ_000A000001), missing
```

```
(8983 missing values generated)

. recode heightft (-1=.) (-2=.) (-3=.) (-4=.) (-5=.)
(heightft: 19534 changes made)

.
. egen heightinch = rowtotal (YHEA_2100 YSAQ_000A_000002 YSAQ_000A000002), missing

. recode heightinch (-1=.) (-2=.) (-3=.) (-4=.) (-5=.)
(heightinch: 20773 changes made)

. gen height_in_inches = (heightft *12)+ heightinch
(29,667 missing values generated)

.
. egen weightpd = rowtotal(YHEA_2200 YHEA_2300 YSAQ_000B)

. recode weightpd (-5/-1=.) (999=.)
(weightpd: 20522 changes made)

.
. by PUBID_1997 : gen poverty1997 =  CV_HH_POV_RATIO_[1]

. recode poverty1997 (-1=.) (-2=.) (-3=.) (-4=.) (-5=.)
(poverty1997: 36345 changes made)

. gen lnpoverty1997 = ln(poverty1997+1)
(36,345 missing values generated)

.
.
. clonevar msa= CV_MSA_

. recode msa (1=0) (2/4=1) (5=.) (-1=.) (-2=.) (-3=.) (-4=.) (-5=.)
(msa: 134745 changes made)

. label define msa1 0 "Not in MSA" 1 "In MSA"

. label values msa msa1

.
.
. clonevar age = CV_AGE_INT_DATE_

. recode age (-5=.)
(age: 17802 changes made)

.
```

```
. by PUBID_1997 : gen resid_mothereduc= CV_HGC_RES_MOM_[1]

. recode resid_mothereduc (-4=.) (-3=.) (95=.)
(resid_mothereduc: 14685 changes made)

. gen mom_hsgrad = .
(134,745 missing values generated)

. replace mom_hsgrad=1 if resid_mothereduc >=12 & resid_mothereduc !=.
(92,895 real changes made)

. replace mom_hsgrad=0 if resid_mothereduc <12 & resid_mothereduc !=.
(27,165 real changes made)

. rename mom_hsgrad resmom_hsgrad

.
.
. by PUBID_1997 : gen resid_fathereduc= CV_HGC_RES_DAD_[1]

. recode resid_fathereduc (-4=.) (-3=.) (95=.)
(resid_fathereduc: 49185 changes made)

. gen dad_hsgrad = .
(134,745 missing values generated)

. replace dad_hsgrad=1 if resid_fathereduc >=12 & resid_fathereduc !=.
(68,085 real changes made)

. replace dad_hsgrad=0 if resid_fathereduc <12 & resid_fathereduc !=.
(17,475 real changes made)

. rename dad_hsgrad resdad_hsgrad

.
. by PUBID_1997 : gen mothereduc= CV_HGC_BIO_MOM_[1]

. recode mothereduc (-4=.) (-3=.) (95=.)
(mothereduc: 10410 changes made)

. gen mom_hsgrad = .
(134,745 missing values generated)

. replace mom_hsgrad=1 if mothereduc >=12 & mothereduc !=.
(94,980 real changes made)

. replace mom_hsgrad=0 if mothereduc <12 & mothereduc !=.
(29,355 real changes made)
```

```
.
. by PUBID_1997 : gen fathereduc= CV_HGC_BIO_DAD_[1]

. recode fathereduc (-4=.) (-3=.) (95=.)
(fathereduc: 27945 changes made)

. gen dad_hsgrad = .
(134,745 missing values generated)

. replace dad_hsgrad=1 if fathereduc >=12 & fathereduc !=.
(82,365 real changes made)

. replace dad_hsgrad=0 if fathereduc <12 & fathereduc !=.
(24,435 real changes made)

.
. gen biores_dad_hs = .
(134,745 missing values generated)

. replace biores_dad_hs = 1 if (resdad_hsgrad==1 | dad_hsgrad==1)
(88,470 real changes made)

. replace biores_dad_hs = 0 if (resdad_hsgrad==0 & dad_hsgrad==0)|(resdad_hsgrad==.
& dad_hsgrad==0)|(resdad_hsgrad==0 & dad_hsgrad==.)
(24,225 real changes made)

.
. gen biores_mom_hs = .
(134,745 missing values generated)

. replace biores_mom_hs = 1 if (resmom_hsgrad==1 | mom_hsgrad==1)
(97,875 real changes made)

. replace biores_mom_hs = 0 if (resmom_hsgrad==0 & mom_hsgrad==0)|(resmom_hsgrad==.
& mom_hsgrad==0)|(resmom_hsgrad==0 & mom_hsgrad==.)
(29,325 real changes made)

.
. merge 1:1 PUBID_1997 year using "D:\NLSY-Panel-1997-2011-v1-education.dta"
(label vlR0000100 already defined)

    Result                           # of obs.
    -----------------------------------------
    not matched                             0
    matched                           134,745  (_merge==3)
    -----------------------------------------
```

```
.
. clonevar educ_hga =  YSCH_2857_

. clonevar educ_hgc =  YSCH_3112_

. recode  educ_hga (-5=.) (-4=.) (-2=.) (-1=.) (95=.)
(educ_hga: 49913 changes made)

. recode  educ_hgc (-5=.) (-4=.) (-2=.) (-1=.) (95=.)
(educ_hgc: 40976 changes made)

. rename _merge _mergeeducation

.
.
. by PUBID_1997 : gen educ_hgc2 = educ_hgc[11] if educ_hgc==.
(107,325 missing values generated)

. egen educ_hgc3 = rowtotal (educ_hgc educ_hgc2), missing
(13556 missing values generated)

.
. gen hsgrad = .
(134,745 missing values generated)

. replace hsgrad=1 if educ_hgc3>=12 & educ_hgc3!=.
(73,577 real changes made)

. replace hsgrad=0 if educ_hgc3<12 & educ_hgc3!=.
(47,612 real changes made)

.
.
. gen avgmaleht = 69.5 if female ==0
(65,760 missing values generated)

. gen avgfemaleht = 64 if female ==1
(68,985 missing values generated)

. gen deviation_ht_male = height_in_inches - avgmaleht if female ==0
(81,824 missing values generated)

. gen deviation_ht_female = height_in_inches - avgfemaleht if female ==1
(82,588 missing values generated)

. egen deviation_ht = rowtotal (deviation_ht_male deviation_ht_female ), missing
(29667 missing values generated)
```

```
.
.
. by PUBID_1997 : gen asvab_score= ASVAB_MATH_VERBAL_SCORE_PCT_[3]

. recode asvab_score (-5=.) (-4=.) (-2=.) (-1=.)
(asvab_score: 28365 changes made)

. gen lnasvab_score = ln(asvab_score +1)
(28,365 missing values generated)


.
. gen fedminwage = .
(134,745 missing values generated)

. replace fedminwage =5.15 if year>=1997 & year<2007
(89,830 real changes made)

. replace fedminwage =5.85 if year==2007
(8,983 real changes made)

. replace fedminwage =6.55 if year==2008
(8,983 real changes made)

. replace fedminwage =7.25 if year>2008
(26,949 real changes made)

. gen fedminwageadj = fedminwage * cpiadj


.
. gen recession=.
(134,745 missing values generated)

. replace recession =1 if year==2001
(8,983 real changes made)

. replace recession =1 if year==2008
(8,983 real changes made)

. replace recession =1 if year==2009
(8,983 real changes made)

. replace recession =0 if recession !=1
(107,796 real changes made)


.
.
. merge 1:1 PUBID_1997 year using "D:\Geocode-stateofresid-1997-2011.dta"
(label vlR0000100 already defined)
```

```
    Result                           # of obs.
    -----------------------------------------
    not matched                             0
    matched                           134,745  (_merge==3)
    -----------------------------------------


. gen health = YHEA_100_

. recode health (-1=.) (-2=.) (-3=.) (-4=.) (-5=.) (1=5) (2=4) (4=2) (5=1)
(health: 103994 changes made)

.
. rename _merge _mergestateofresid

. merge 1:1 PUBID_1997 year using
"D:\NLSY-1997-2011-marital_spinc_children-panel.dta"
(label vlR0000100 already defined)
(label vlT7546900 already defined)

    Result                           # of obs.
    -----------------------------------------
    not matched                             0
    matched                           134,745  (_merge==3)
    -----------------------------------------

. rename _merge _mergemaritalspincchild

.
.
. /* Spousal income*/
. clonevar totspincome = YINC_2600_

. recode totspincome (-5=.) (-4=0) (-2=.) (-1=.)
(totspincome: 116293 changes made)

. gen totspincomeadj = totspincome * cpiadj
(23,817 missing values generated)

. gen lntotspincadj = ln(totspincomeadj +1)
(23,817 missing values generated)

.
. clonevar num_biochild=CV_BIO_CHILD_HH_

. recode num_biochild (-5=.) (-4=.) (-3=.)
(num_biochild: 102820 changes made)
```

```
.
. clonevar marital_status = YMAR_620_

. recode marital_status (-5=.) (-4=.) (-2=.) (-1=.)
(marital_status: 35300 changes made)

. tab marital_status, gen(marital)

marital_statu |
            s |      Freq.     Percent        Cum.
--------------+-----------------------------------
Never-married |     78,279       78.72       78.72
      Married |     17,612       17.71       96.43
    Separated |      1,262        1.27       97.70
     Divorced |      2,234        2.25       99.94
      Widowed |         58        0.06      100.00
--------------+-----------------------------------
        Total |     99,445      100.00

.
. clonevar occupation_code =  YEMP_OCCODE_2002_01_

. recode occupation_code (-5=.) (-4=.) (-3=.)
(occupation_code: 44199 changes made)

. recode occupation_code (10/430=1) (500/950=2) (1000/1240=3) (1300/1530=4)
(1540/1560=5) (1600/1760=6) (1800/1860=7) (1900/1960=8) (2000/2060=9)
(2100/2150=10) (2200/2340=11) (
> 2400/2550=12) (2600/2760=13) (2800/2960=14) (3000/3260=15) (3300/3650=16)
(3700/3950=17) (4000/4160=18) (4200/4250=19) (4300/4430=20) (4460=21)
(4500/4650=22) (4700/4960=23) (
> 5000/5930=24) (6000/6130=25) (6200/6940=26) (7000/7620=27) (7700/7750=28)
(7800/7850=29) (7900/8960=30) (9000/9750=31) (9800/9840=32) (9950/9990=33)
(occupation_code: 90544 changes made)

.
. merge m:1 stateofresid year using "D:\state_median_income.dta"

    Result                           # of obs.
    -----------------------------------------
    not matched                        18,442
        from master                    18,418  (_merge==1)
        from using                         24  (_merge==2)

    matched                           116,327  (_merge==3)
    -----------------------------------------
```

```
. rename _merge _merge_statehhinc

. gen deviation_hhinc = totincomeadj - statemedhhincadj
(18,442 missing values generated)

.
. merge m:1 stateofresid year using "D:\state_shareofblack.dta"

    Result                           # of obs.
    -----------------------------------------
    not matched                        18,688
        from master                    18,433  (_merge==1)
        from using                        255  (_merge==2)

    matched                           116,336  (_merge==3)
    -----------------------------------------

. rename _merge _merge_stateshareblack

.
.
.
. *S1 Table. Pairwise Correlations and descriptive statistics*
. summ lntotincadj age hsgrad health weightpd i.marital_status lnasvab_score
lntotspincadj msa   biores_dad_hs biores_mom_hs  fedminwageadj recession white
color deviation_ht fe
> male if race_eth !=2 & race_eth !=3 & lntotincadj !=. & color !=. &
deviation_ht!=. & hsgrad !=.  & health !=.  & lnasvab_score !=. & lntotspincadj !=.
& marital_status !=.  &
>  msa!=. &  stateofresid !=. & occupation_code !=.  & biores_dad_hs  !=. &
biores_mom_hs !=. & weightpd!=.

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
 lntotincadj |     31,356    9.336328    1.474473          0   11.89138
         age |     31,356      23.309    3.734333         16         32
      hsgrad |     31,356    .8313241    .3744713          0          1
      health |     31,356    3.947634    .8919637          1          5
    weightpd |     31,356     172.725    44.42111          1        450
             |
marital_st~s |
    Married  |     31,356    .2019709     .401477          0          1
  Separated  |     31,356    .0074627    .0860653          0          1
   Divorced  |     31,356    .0216864    .1456599          0          1
    Widowed  |     31,356    .0004146    .0203577          0          1
-------------+---------------------------------------------------------
             |
lnasvab_sc~e |     31,356    10.70114    .9060521          0   11.51294
```

```
                          SkintoneOutput_ver3_clean
lntotspinc~j |     31,356    2.669861    4.485222          0   12.91123
         msa |     31,356    .9034953    .2952868          0          1
biores_dad~s |     31,356    .8781413    .3271277          0          1
biores_mom~s |     31,356    .8960645    .3051817          0          1
-------------+---------------------------------------------------------
fedminwage~j |     31,356    6.659042    .5692535   5.747142   7.600248
   recession |     31,356    .2512438    .4337353          0          1
       white |     31,356    .8000383    .3999777          0          1
       color |     31,356    1.227038    2.607477          0         10
deviation_ht |     31,356    1.298986    2.948362      -33.5       26.5
-------------+---------------------------------------------------------
      female |     31,356     .484373    .4997637          0          1

. pwcorr lntotincadj age hsgrad health weightpd marital2 marital3 marital4 marital5
lnasvab_score lntotspincadj msa   biores_dad_hs biores_mom_hs  fedminwageadj
recession white
> color deviation_ht female if race_eth !=2 & race_eth !=3 & lntotincadj !=. &
color !=. & deviation_ht!=. & hsgrad !=.  & health !=.  & lnasvab_score !=. &
lntotspincadj !=. &
> marital_status !=.  & msa!=. &  stateofresid !=. & occupation_code !=.  &
biores_dad_hs  !=. & biores_mom_hs !=. & weightpd!=., sig

             | lntoti~j      age   hsgrad   health weightpd marital2 marital3
-------------+------------------------------------------------------------
 lntotincadj |   1.0000
             |
             |
         age |   0.5491   1.0000
             |   0.0000
             |
      hsgrad |   0.3052   0.3326   1.0000
             |   0.0000   0.0000
             |
      health |  -0.0033  -0.0997   0.0460   1.0000
             |   0.5533   0.0000   0.0000
             |
    weightpd |   0.1666   0.2148   0.0635  -0.1569   1.0000
             |   0.0000   0.0000   0.0000   0.0000
             |
    marital2 |   0.2557   0.3768   0.1138  -0.0100   0.1039   1.0000
             |   0.0000   0.0000   0.0000   0.0764   0.0000
             |
    marital3 |   0.0131   0.0516  -0.0243  -0.0352   0.0036  -0.0436   1.0000
             |   0.0204   0.0000   0.0000   0.0000   0.5269   0.0000
             |
    marital4 |   0.0597   0.1300   0.0121  -0.0318   0.0178  -0.0749  -0.0129
             |   0.0000   0.0000   0.0321   0.0000   0.0016   0.0000   0.0222
             |
```

marital5	0.0059	0.0193	-0.0117	-0.0216	-0.0067	-0.0102	-0.0018
	0.2977	0.0006	0.0376	0.0001	0.2344	0.0696	0.7545
lnasvab_sc~e	0.0748	-0.0256	0.2141	0.1292	-0.0712	0.0360	-0.0327
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
lntotspinc~j	0.2687	0.3809	0.1265	-0.0409	0.0558	0.6102	0.0397
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
msa	0.1130	0.1840	0.1095	0.0100	0.0018	0.0315	0.0045
	0.0000	0.0000	0.0000	0.0768	0.7491	0.0000	0.4260
biores_dad~s	0.0376	-0.0014	0.1514	0.0852	-0.0429	0.0082	-0.0345
	0.0000	0.8053	0.0000	0.0000	0.0000	0.1469	0.0000
biores_mom~s	0.0272	-0.0041	0.1636	0.0770	-0.0330	0.0055	-0.0239
	0.0000	0.4695	0.0000	0.0000	0.0000	0.3280	0.0000
fedminwage~j	0.1224	0.4030	-0.0493	-0.0466	0.0665	0.1615	0.0269
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
recession	0.0835	0.1214	0.0143	-0.0207	0.0275	0.0498	0.0181
	0.0000	0.0000	0.0113	0.0002	0.0000	0.0000	0.0013
white	0.0598	-0.0505	0.0103	0.0666	-0.0952	0.0992	-0.0159
	0.0000	0.0000	0.0680	0.0000	0.0000	0.0000	0.0048
color	-0.0607	0.0465	-0.0198	-0.0564	0.1025	-0.0945	0.0170
	0.0000	0.0000	0.0004	0.0000	0.0000	0.0000	0.0026
deviation_ht	0.0452	0.0094	0.0451	0.0532	0.3240	0.0269	-0.0100
	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0770
female	-0.0885	0.0020	0.0767	-0.0725	-0.3590	0.0393	0.0190
	0.0000	0.7213	0.0000	0.0000	0.0000	0.0000	0.0008

	marital4	marital5	lnasva~e	lntots~j	msa	bio~d_hs	bio~m_hs
marital4	1.0000						
marital5	-0.0030	1.0000					
	0.5913						
lnasvab_sc~e	-0.0258	-0.0244	1.0000				
	0.0000	0.0000					

lntotspinc~j	0.0255	0.0092	0.0281	1.0000			
	0.0000	0.1024	0.0000				
msa	0.0064	0.0014	0.0534	0.0547	1.0000		
	0.2576	0.8110	0.0000	0.0000			
biores_dad~s	-0.0356	-0.0164	0.2244	0.0006	0.0744	1.0000	
	0.0000	0.0038	0.0000	0.9194	0.0000		
biores_mom~s	-0.0239	0.0069	0.2285	0.0075	0.0713	0.3108	1.0000
	0.0000	0.2194	0.0000	0.1835	0.0000	0.0000	
fedminwage~j	0.0744	0.0116	-0.0057	0.1476	0.0086	0.0004	-0.0051
	0.0000	0.0393	0.3116	0.0000	0.1277	0.9408	0.3669
recession	0.0147	0.0027	-0.0049	0.0658	0.0065	-0.0034	-0.0058
	0.0092	0.6388	0.3828	0.0000	0.2468	0.5506	0.3019
white	0.0306	0.0023	0.3097	0.1001	-0.0565	0.0865	0.0986
	0.0000	0.6776	0.0000	0.0000	0.0000	0.0000	0.0000
color	-0.0333	-0.0036	-0.3115	-0.0994	0.0519	-0.0969	-0.0992
	0.0000	0.5266	0.0000	0.0000	0.0000	0.0000	0.0000
deviation_ht	0.0002	-0.0050	0.0705	0.0166	0.0019	0.0524	0.0593
	0.9718	0.3771	0.0000	0.0033	0.7397	0.0000	0.0000
female	0.0257	0.0116	0.0782	0.1242	0.0399	0.0201	0.0014
	0.0000	0.0398	0.0000	0.0000	0.0000	0.0004	0.8078

	fedmin~j	recess~n	white	color	deviat~t	female
fedminwage~j	1.0000					
recession	0.3611	1.0000				
	0.0000					
white	-0.0130	-0.0101	1.0000			
	0.0212	0.0750				
color	0.0106	0.0093	-0.9413	1.0000		
	0.0593	0.1000	0.0000			
deviation_ht	-0.0073	-0.0042	0.0567	-0.0505	1.0000	
	0.1978	0.4624	0.0000	0.0000		

```
                          SkintoneOutput_ver3_clean
      female |   0.0005   0.0065  -0.0791   0.0616  -0.0676   1.0000
             |   0.9355   0.2505   0.0000   0.0000   0.0000
             |

.
. * Table 1: Pooled OLS regression results*
. * model 1
. reg  lntotincadj female white age hsgrad health weightpd i.marital_status
lnasvab_score lntotspincadj msa   biores_dad_hs biores_mom_hs  fedminwageadj
recession i.year  i.sta
> te3 i.occupation_code    if race_eth !=2 & race_eth !=3 & color!=. &
deviation_ht!=. & stateofresid!=., robust
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =     31,356
                                                F(110, 31245)     =     182.03
                                                Prob > F          =     0.0000
                                                R-squared         =     0.3784
                                                Root MSE          =     1.1646

------------------------------------------------------------------------------
                |               Robust
    lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
----------------+-------------------------------------------------------------
         female |  -.1944715   .0164815   -11.80   0.000    -.2267759   -.1621671
          white |   .1591231   .0200498     7.94   0.000     .1198247    .1984214
            age |    .167555   .0051642    32.45   0.000      .157433     .177677
         hsgrad |   .3567775   .0239006    14.93   0.000     .3099315    .4036236
         health |   .0469618   .0082798     5.67   0.000      .030733    .0631907
       weightpd |   .0010734   .0001732     6.20   0.000     .0007339     .001413
                |
 marital_status |
       Married  |   .0640219   .0218765     2.93   0.003     .0211431    .1069007
     Separated  |  -.0958391   .0898654    -1.07   0.286    -.2719789    .0803007
      Divorced  |    .005459   .0402895     0.14   0.892      -.07351    .0844279
       Widowed  |   .0736642   .1944771     0.38   0.705    -.3075186    .4548471
                |
  lnasvab_score |   .0681284   .0106743     6.38   0.000     .0472063    .0890505
  lntotspincadj |   .0181671   .0019158     9.48   0.000      .014412    .0219222
            msa |  -.0162581   .0255873    -0.64   0.525    -.0664102    .0338941
  biores_dad_hs |   .0484199   .0240267     2.02   0.044     .0013266    .0955132
  biores_mom_hs |   -.039489   .0248295    -1.59   0.112    -.0881558    .0091779
  fedminwageadj |   2.524965    .512529     4.93   0.000     1.520388    3.529542
      recession |  -.5781226   .1949921    -2.96   0.003    -.9603149   -.1959304
                |
           year |
           1999 |   .5493537   .1165826     4.71   0.000     .3208472    .7778602
```

2000	1.32016	.229191	5.76	0.000	.8709362	1.769383
2001	2.496676	.5156257	4.84	0.000	1.486029	3.507323
2002	2.238154	.3787284	5.91	0.000	1.495831	2.980476
2003	2.676573	.456674	5.86	0.000	1.781474	3.571672
2004	3.103227	.5444397	5.70	0.000	2.036103	4.17035
2005	3.684937	.6485619	5.68	0.000	2.41373	4.956144
2006	4.203673	.7468238	5.63	0.000	2.739868	5.667477
2007	2.691721	.4433321	6.07	0.000	1.822773	3.56067
2008	1.944555	.3845407	5.06	0.000	1.19084	2.69827
2009	0	(omitted)				
2010	-.4643624	.1302186	-3.57	0.000	-.719596	-.2091287
2011	0	(omitted)				
state3						
4054	-.6724133	.4118061	-1.63	0.103	-1.47957	.1347431
4145	-.6785755	.3086175	-2.20	0.028	-1.283478	-.0736729
4360	-.260978	.2724822	-0.96	0.338	-.7950539	.273098
4564	-.779576	.3762676	-2.07	0.038	-1.517075	-.0420765
4715	-.160813	.2707976	-0.59	0.553	-.691587	.3699611
5130	-.0426367	.2847588	-0.15	0.881	-.6007753	.5155018
5224	-.2430218	.4129105	-0.59	0.556	-1.052343	.5662993
6644	-.4536407	.3540216	-1.28	0.200	-1.147537	.2402557
10318	-.2332148	.2641283	-0.88	0.377	-.7509169	.2844873
18699	-.0861819	.2731995	-0.32	0.752	-.6216639	.4493001
20164	.0475831	.2728875	0.17	0.862	-.4872873	.5824535
31843	.0225122	.2686461	0.08	0.933	-.5040449	.5490693
32126	-.0714901	.2747598	-0.26	0.795	-.6100303	.46705
38083	-.3119909	.277914	-1.12	0.262	-.8567134	.2327316
38111	-.1440592	.2744068	-0.52	0.600	-.6819074	.3937891
39791	-.0117312	.2579548	-0.05	0.964	-.5173329	.4938704
44094	-.270661	.2602376	-1.04	0.298	-.7807372	.2394151
47500	-.3468979	.2633078	-1.32	0.188	-.8629917	.1691959
48050	-.221395	.2577041	-0.86	0.390	-.7265054	.2837154
49318	-.1703983	.2679955	-0.64	0.525	-.6956801	.3548835
53015	-.1052474	.258204	-0.41	0.684	-.6113376	.4008428
55268	-.1032786	.2565894	-0.40	0.687	-.6062041	.399647
63397	-.0799716	.2581548	-0.31	0.757	-.5859653	.4260221
80726	-.1081082	.2580853	-0.42	0.675	-.6139658	.3977493
87743	-.2423174	.2620449	-0.92	0.355	-.7559359	.271301
91778	-.1501453	.2578609	-0.58	0.560	-.6555629	.3552723
96610	-.2164343	.2561647	-0.84	0.398	-.7185273	.2856588
110109	-.1963318	.2550247	-0.77	0.441	-.6961903	.3035267
113427	-.4093763	.2599826	-1.57	0.115	-.9189526	.1001999
115223	-.1223557	.2565076	-0.48	0.633	-.6251208	.3804094
118714	-.0975262	.2567061	-0.38	0.704	-.6006804	.405628
119591	-.271028	.258152	-1.05	0.294	-.7770161	.2349601
134537	-.2648355	.2587254	-1.02	0.306	-.7719476	.2422766
136774	-.1699112	.2562383	-0.66	0.507	-.6721485	.332326

141312	-.2430034	.2555128	-0.95	0.342	-.7438187	.2578119
142718	-.2102301	.255704	-0.82	0.411	-.7114202	.29096
142810	-.2788789	.2607431	-1.07	0.285	-.7899457	.2321879
146530	-.2364772	.2572826	-0.92	0.358	-.7407613	.2678069
156000	-.1863674	.2548081	-0.73	0.465	-.6858014	.3130666
156614	-.2339519	.2547348	-0.92	0.358	-.7332423	.2653386
159177	.0963596	.2575097	0.37	0.708	-.4083698	.601089
220149	-.1102483	.2566244	-0.43	0.667	-.6132423	.3927457
223202	-.1511284	.2549698	-0.59	0.553	-.6508793	.3486225
233174	-.2513116	.2553463	-0.98	0.325	-.7518006	.2491774
236066	-.0820273	.254934	-0.32	0.748	-.5817082	.4176536
236546	-.2744353	.2551905	-1.08	0.282	-.7746188	.2257483
243215	-.2337989	.2544227	-0.92	0.358	-.7324776	.2648798
387054	-.1023376	.2548984	-0.40	0.688	-.6019486	.3972733
549279	-.1554424	.2544357	-0.61	0.541	-.6541467	.3432618
721196	-.1416622	.2546676	-0.56	0.578	-.6408208	.3574964
occupation_code						
2	.1597634	.0433294	3.69	0.000	.0748361	.2446907
3	.0002479	.0566155	0.00	0.997	-.1107208	.1112166
4	.1717807	.0890723	1.93	0.054	-.0028045	.346366
5	-.0217888	.0695272	-0.31	0.754	-.158065	.1144873
6	-.0493739	.0783851	-0.63	0.529	-.2030119	.104264
7	-.0774413	.0949967	-0.82	0.415	-.2636385	.108756
8	-.3289351	.0835639	-3.94	0.000	-.4927238	-.1651465
9	-.2505491	.0560344	-4.47	0.000	-.3603787	-.1407195
10	-.0401707	.0866802	-0.46	0.643	-.2100674	.129726
11	-.2782676	.0429851	-6.47	0.000	-.3625201	-.1940151
12	-.5452531	.0658123	-8.28	0.000	-.6742479	-.4162583
13	-.6118787	.0726574	-8.42	0.000	-.7542901	-.4694673
14	-.384541	.0855072	-4.50	0.000	-.5521386	-.2169434
15	.1520486	.0549564	2.77	0.006	.0443318	.2597654
16	-.1711777	.0486567	-3.52	0.000	-.2665468	-.0758086
17	-.1108642	.0495269	-2.24	0.025	-.2079388	-.0137896
18	-.3132023	.0396091	-7.91	0.000	-.3908376	-.2355669
19	-.6694792	.0599559	-11.17	0.000	-.7869952	-.5519633
20	-.5200995	.0788712	-6.59	0.000	-.6746901	-.3655089
21	.0700794	.4683982	0.15	0.881	-.8479997	.9881585
22	-.7018855	.0566407	-12.39	0.000	-.8129036	-.5908674
23	-.2919761	.0390462	-7.48	0.000	-.3685083	-.2154439
24	-.2229152	.0378597	-5.89	0.000	-.2971218	-.1487086
25	-.2805676	.0761626	-3.68	0.000	-.4298494	-.1312859
26	.0510434	.04444	1.15	0.251	-.0360608	.1381475
27	-.0144206	.0521586	-0.28	0.782	-.1166536	.0878124
28	-.06658	.072106	-0.92	0.356	-.2079107	.0747506
29	-.3622725	.1166991	-3.10	0.002	-.5910074	-.1335377
30	-.0523061	.0485982	-1.08	0.282	-.1475604	.0429482
31	-.2374938	.046134	-5.15	0.000	-.3279182	-.1470693

```
                        SkintoneOutput_ver3_clean
          32  |   .3458868   .0710455     4.87   0.000     .2066348    .4851388
          33  |  -.8144758   .2135508    -3.81   0.000    -1.233044   -.3959076
              |
       _cons  |  -14.16353   3.622124    -3.91   0.000    -21.26304   -7.064022
------------------------------------------------------------------------------

.
. * model 2
. reg  lntotincadj color  female white age hsgrad health weightpd i.marital_status
lnasvab_score lntotspincadj msa   biores_dad_hs biores_mom_hs  fedminwageadj
recession i.year
>   i.state3 i.occupation_code    if race_eth !=2 & race_eth !=3 & deviation_ht!=.
& stateofresid!=., robust
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =     31,356
                                                F(111, 31244)     =     180.40
                                                Prob > F          =     0.0000
                                                R-squared         =     0.3785
                                                Root MSE          =     1.1644

------------------------------------------------------------------------------
             |               Robust
  lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       color |  -.0215617   .0088095    -2.45   0.014    -.0388286   -.0042948
      female |  -.1951206   .0164962   -11.83   0.000    -.2274539   -.1627873
       white |   .0281179   .0546005     0.51   0.607    -.0789012    .1351369
         age |   .1678073   .0051625    32.50   0.000     .1576886    .1779261
      hsgrad |   .3558615   .0238907    14.90   0.000     .3090347    .4026882
      health |    .047514   .0082847     5.74   0.000     .0312755    .0637524
    weightpd |   .0010883    .000173     6.29   0.000     .0007492    .0014274
             |
marital_status |
     Married |   .0636644   .0218756     2.91   0.004     .0207874    .1065413
   Separated |  -.0962126   .0897524    -1.07   0.284    -.2721309    .0797057
    Divorced |   .0030916   .0403191     0.08   0.939    -.0759354    .0821187
     Widowed |   .0668068   .1960019     0.34   0.733    -.3173648    .4509784
             |
lnasvab_score |   .0670144   .0106701     6.28   0.000     .0461006    .0879281
lntotspincadj |    .018122   .0019152     9.46   0.000     .0143682    .0218758
         msa |  -.0164581   .0255831    -0.64   0.520     -.066602    .0336858
biores_dad_hs |   .0464749   .0240783     1.93   0.054    -.0007195    .0936693
biores_mom_hs |  -.0395302    .024825    -1.59   0.111    -.0881881    .0091277
fedminwageadj |   2.506872   .5125841     4.89   0.000     1.502187    3.511557
    recession |  -.5712375   .1950198    -2.93   0.003    -.9534841   -.1889909
             |
```

year						
1999	.5466516	.116601	4.69	0.000	.3181088	.7751943
2000	1.312859	.2292206	5.73	0.000	.8635777	1.762141
2001	2.479239	.51569	4.81	0.000	1.468466	3.490012
2002	2.225706	.3787703	5.88	0.000	1.483301	2.968111
2003	2.661682	.4567204	5.83	0.000	1.766492	3.556872
2004	3.084885	.5445041	5.67	0.000	2.017635	4.152135
2005	3.662656	.6486475	5.65	0.000	2.391281	4.934031
2006	4.177684	.746904	5.59	0.000	2.713722	5.641645
2007	2.676295	.4434066	6.04	0.000	1.807201	3.54539
2008	1.931049	.3845818	5.02	0.000	1.177253	2.684844
2009	0	(omitted)				
2010	-.4603461	.1302466	-3.53	0.000	-.7156348	-.2050575
2011	0	(omitted)				
state3						
4054	-.6732284	.4114659	-1.64	0.102	-1.479718	.1332611
4145	-.679551	.3081205	-2.21	0.027	-1.283479	-.0756225
4360	-.2624496	.2719756	-0.96	0.335	-.7955325	.2706334
4564	-.7798321	.3759296	-2.07	0.038	-1.516669	-.042995
4715	-.1624304	.2705355	-0.60	0.548	-.6926908	.3678299
5130	-.0431253	.28432	-0.15	0.879	-.6004038	.5141532
5224	-.2437712	.4125888	-0.59	0.555	-1.052462	.5649193
6644	-.4526561	.3537106	-1.28	0.201	-1.145943	.2406308
10318	-.2334184	.2636433	-0.89	0.376	-.7501698	.283333
18699	-.101785	.2725579	-0.37	0.709	-.6360093	.4324394
20164	.0444832	.2724142	0.16	0.870	-.4894594	.5784259
31843	.0301258	.2681441	0.11	0.911	-.4954473	.5556989
32126	-.0721384	.2742525	-0.26	0.793	-.6096842	.4654074
38083	-.3138332	.2774992	-1.13	0.258	-.8577427	.2300764
38111	-.1547176	.2739872	-0.56	0.572	-.6917435	.3823084
39791	-.0125165	.2574446	-0.05	0.961	-.5171181	.4920851
44094	-.2713707	.2597324	-1.04	0.296	-.7804566	.2377151
47500	-.3513784	.262818	-1.34	0.181	-.8665122	.1637554
48050	-.2218229	.2571938	-0.86	0.388	-.7259331	.2822872
49318	-.1765881	.2674905	-0.66	0.509	-.7008802	.3477039
53015	-.106346	.2576942	-0.41	0.680	-.6114369	.3987449
55268	-.1020412	.2560768	-0.40	0.690	-.6039619	.3998795
63397	-.0804058	.257642	-0.31	0.755	-.5853943	.4245827
80726	-.110549	.2575872	-0.43	0.668	-.6154302	.3943321
87743	-.2456592	.2615799	-0.94	0.348	-.7583663	.2670479
91778	-.1508672	.2573453	-0.59	0.558	-.6552743	.3535398
96610	-.2120512	.2556207	-0.83	0.407	-.7130781	.2889756
110109	-.1972046	.2545075	-0.77	0.438	-.6960495	.3016403
113427	-.4247808	.2595536	-1.64	0.102	-.9335162	.0839545
115223	-.1229645	.2559877	-0.48	0.631	-.6247106	.3787816
118714	-.0972445	.2561925	-0.38	0.704	-.599392	.404903
119591	-.260972	.257675	-1.01	0.311	-.7660253	.2440812

134537	-.266247	.258231	-1.03	0.303	-.77239	.239896
136774	-.1743229	.2557342	-0.68	0.495	-.6755721	.3269264
141312	-.2437459	.2549977	-0.96	0.339	-.7435517	.2560598
142718	-.2130904	.2552012	-0.83	0.404	-.7132949	.2871142
142810	-.2751117	.2601686	-1.06	0.290	-.7850526	.2348292
146530	-.2359271	.2567727	-0.92	0.358	-.7392118	.2673576
156000	-.1854329	.2542904	-0.73	0.466	-.6838522	.3129865
156614	-.2396364	.2542236	-0.94	0.346	-.7379248	.258652
159177	.0952003	.2570042	0.37	0.711	-.4085383	.5989388
220149	-.1114727	.2561144	-0.44	0.663	-.6134671	.3905218
223202	-.1522257	.254453	-0.60	0.550	-.6509637	.3465123
233174	-.2614614	.2549025	-1.03	0.305	-.7610804	.2381576
236066	-.0795627	.2544198	-0.31	0.754	-.5782356	.4191101
236546	-.2692274	.2546688	-1.06	0.290	-.7683885	.2299337
243215	-.2337906	.2539019	-0.92	0.357	-.7314484	.2638672
387054	-.1038674	.2543886	-0.41	0.683	-.6024792	.3947443
549279	-.15379	.2539129	-0.61	0.545	-.6514694	.3438894
721196	-.1438647	.2541537	-0.57	0.571	-.6420162	.3542868
occupation_code						
2	.1615622	.043363	3.73	0.000	.076569	.2465554
3	.000499	.056608	0.01	0.993	-.110455	.111453
4	.174356	.0890108	1.96	0.050	-.0001087	.3488207
5	-.0198936	.0696134	-0.29	0.775	-.1563385	.1165514
6	-.0500801	.0783089	-0.64	0.522	-.2035687	.1034086
7	-.0786752	.0949948	-0.83	0.408	-.2648687	.1075184
8	-.3278752	.0836658	-3.92	0.000	-.4918635	-.163887
9	-.2470709	.0561681	-4.40	0.000	-.3571626	-.1369793
10	-.0443418	.0863882	-0.51	0.608	-.2136661	.1249825
11	-.2785238	.0429375	-6.49	0.000	-.362683	-.1943646
12	-.5465164	.0657422	-8.31	0.000	-.6753738	-.417659
13	-.6124129	.0726725	-8.43	0.000	-.7548539	-.4699718
14	-.3850035	.08545	-4.51	0.000	-.552489	-.2175181
15	.1532865	.0549395	2.79	0.005	.0456029	.2609701
16	-.1694678	.04866	-3.48	0.000	-.2648433	-.0740923
17	-.1112548	.049432	-2.25	0.024	-.2081434	-.0143661
18	-.3127102	.0395856	-7.90	0.000	-.3902996	-.2351208
19	-.6698309	.0599387	-11.18	0.000	-.7873132	-.5523486
20	-.521753	.0788175	-6.62	0.000	-.6762384	-.3672675
21	.0658318	.4703889	0.14	0.889	-.8561492	.9878128
22	-.7009969	.0566744	-12.37	0.000	-.812081	-.5899128
23	-.2923378	.0389971	-7.50	0.000	-.3687737	-.2159019
24	-.2237284	.0378028	-5.92	0.000	-.2978235	-.1496334
25	-.2807561	.0761292	-3.69	0.000	-.4299723	-.1315399
26	.0497888	.044398	1.12	0.262	-.037233	.1368107
27	-.0136959	.0521576	-0.26	0.793	-.1159269	.088535
28	-.0642132	.0720567	-0.89	0.373	-.2054472	.0770209
29	-.3560932	.1169504	-3.04	0.002	-.5853207	-.1268657

```
                        SkintoneOutput_ver3_clean
          30  |  -.0521294    .048586    -1.07   0.283    -.1473598    .0431011
          31  |  -.2363618    .046103    -5.13   0.000    -.3267256    -.145998
          32  |   .3506817   .0713048     4.92   0.000     .2109214     .490442
          33  |  -.8168822   .2133286    -3.83   0.000    -1.235015   -.3987496
              |
       _cons  |  -13.89713    3.62393    -3.83   0.000    -21.00018   -6.794086
------------------------------------------------------------------------------


.
. * model 3
. reg  lntotincadj color  deviation_ht  female white age hsgrad health weightpd
i.marital_status  lnasvab_score lntotspincadj msa   biores_dad_hs biores_mom_hs
fedminwageadj re
> cession i.year  i.state3 i.occupation_code    if race_eth !=2 & race_eth !=3 &
stateofresid!=., robust
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =     31,356
                                                F(112, 31243)     =     178.81
                                                Prob > F          =     0.0000
                                                R-squared         =     0.3787
                                                Root MSE          =     1.1643

------------------------------------------------------------------------------
             |               Robust
  lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
         color |  -.0215336    .008816    -2.44   0.015    -.0388133   -.0042538
   deviation_ht |   .0057574   .0024733     2.33   0.020     .0009097    .0106051
        female |  -.1982748   .0165054   -12.01   0.000     -.230626   -.1659236
         white |   .0253156   .0546135     0.46   0.643    -.0817289    .1323602
           age |   .1678426   .0051618    32.52   0.000     .1577252      .17796
        hsgrad |    .355188   .0239029    14.86   0.000     .3083374    .4020386
        health |   .0456797   .0083276     5.49   0.000     .0293572    .0620021
      weightpd |   .0009368   .0001838     5.10   0.000     .0005765    .0012971
               |
 marital_status |
       Married  |   .0641117   .0218715     2.93   0.003     .0212428    .1069807
     Separated  |  -.0956506   .0896799    -1.07   0.286    -.2714268    .0801255
      Divorced  |   .0030907   .0402998     0.08   0.939    -.0758986      .08208
       Widowed  |   .0652207   .1971848     0.33   0.741    -.3212693    .4517107
               |
  lnasvab_score |   .0662938   .0106688     6.21   0.000     .0453825    .0872052
  lntotspincadj |   .0181062    .001915     9.45   0.000     .0143527    .0218597
            msa |  -.0170166   .0255851    -0.67   0.506    -.0671644    .0331312
  biores_dad_hs |   .0449216   .0240988     1.86   0.062    -.0023131    .0921562
  biores_mom_hs |  -.0414725   .0248591    -1.67   0.095    -.0901974    .0072523
```

SkintoneOutput_ver3_clean

fedminwageadj	2.527484	.512549	4.93	0.000	1.522868	3.532101
recession	-.5783044	.1950147	-2.97	0.003	-.960541	-.1960678
year						
1999	.5498195	.1165695	4.72	0.000	.3213385	.7783005
2000	1.320405	.2291958	5.76	0.000	.8711725	1.769638
2001	2.49797	.5156646	4.84	0.000	1.487247	3.508693
2002	2.240345	.3787342	5.92	0.000	1.49801	2.982679
2003	2.67937	.4566758	5.87	0.000	1.784268	3.574473
2004	3.106425	.5444675	5.71	0.000	2.039247	4.173604
2005	3.688403	.6485913	5.69	0.000	2.417138	4.959668
2006	4.207932	.7468426	5.63	0.000	2.744091	5.671774
2007	2.694483	.4433629	6.08	0.000	1.825474	3.563492
2008	1.946485	.3845506	5.06	0.000	1.19275	2.700219
2009	0	(omitted)				
2010	-.4649498	.1302353	-3.57	0.000	-.7202161	-.2096835
2011	0	(omitted)				
state3						
4054	-.6605805	.4111762	-1.61	0.108	-1.466502	.1453412
4145	-.6622226	.308575	-2.15	0.032	-1.267042	-.0574032
4360	-.2555746	.2711954	-0.94	0.346	-.7871284	.2759792
4564	-.7846461	.3756374	-2.09	0.037	-1.52091	-.0483819
4715	-.1587817	.2699143	-0.59	0.556	-.6878245	.3702612
5130	-.0336748	.2838284	-0.12	0.906	-.5899899	.5226402
5224	-.2308425	.4124213	-0.56	0.576	-1.039205	.5775197
6644	-.4491822	.3537828	-1.27	0.204	-1.14261	.2442461
10318	-.2236385	.2631855	-0.85	0.395	-.7394926	.2922156
18699	-.0942547	.2721109	-0.35	0.729	-.627603	.4390937
20164	.0521581	.2718235	0.19	0.848	-.4806268	.584943
31843	.0403435	.2675573	0.15	0.880	-.4840795	.5647665
32126	-.057844	.2736223	-0.21	0.833	-.5941547	.4784667
38083	-.3053588	.2770825	-1.10	0.270	-.8484515	.237734
38111	-.1490152	.2734631	-0.54	0.586	-.6850138	.3869835
39791	-.0056935	.2568548	-0.02	0.982	-.5091391	.4977521
44094	-.2584457	.2592694	-1.00	0.319	-.7666241	.2497327
47500	-.341932	.262275	-1.30	0.192	-.8560014	.1721374
48050	-.2073688	.2566425	-0.81	0.419	-.7103983	.2956608
49318	-.1649785	.2669122	-0.62	0.537	-.688137	.35818
53015	-.0958219	.2571827	-0.37	0.709	-.5999103	.4082664
55268	-.0947185	.2555014	-0.37	0.711	-.5955114	.4060744
63397	-.0659805	.2572307	-0.26	0.798	-.5701629	.4382018
80726	-.0984433	.2570835	-0.38	0.702	-.6023372	.4054507
87743	-.2310076	.261114	-0.88	0.376	-.7428015	.2807863
91778	-.1418139	.2567926	-0.55	0.581	-.6451375	.3615098
96610	-.2005709	.255132	-0.79	0.432	-.7006398	.299498
110109	-.1883044	.2539788	-0.74	0.458	-.686113	.3095043
113427	-.4124799	.2590649	-1.59	0.111	-.9202576	.0952977

SkintoneOutput_ver3_clean

115223	-.1120762	.2554402	-0.44	0.661	-.6127492	.3885967
118714	-.0879748	.2556191	-0.34	0.731	-.5889985	.4130489
119591	-.2485518	.2572122	-0.97	0.334	-.752698	.2555945
134537	-.2562626	.2577332	-0.99	0.320	-.76143	.2489048
136774	-.1628178	.2552371	-0.64	0.524	-.6630927	.3374571
141312	-.2368855	.2544244	-0.93	0.352	-.7355674	.2617964
142718	-.2003615	.2546971	-0.79	0.431	-.699578	.2988549
142810	-.26579	.2596382	-1.02	0.306	-.7746913	.2431112
146530	-.2239382	.2562812	-0.87	0.382	-.7262597	.2783832
156000	-.1759929	.2537517	-0.69	0.488	-.6733564	.3213705
156614	-.2280983	.2537353	-0.90	0.369	-.7254297	.2692331
159177	.1065478	.2565546	0.42	0.678	-.3963095	.6094051
220149	-.1020694	.2556259	-0.40	0.690	-.6031064	.3989676
223202	-.1404151	.2539723	-0.55	0.580	-.638211	.3573809
233174	-.2515424	.2543913	-0.99	0.323	-.7501594	.2470747
236066	-.0697611	.2538802	-0.27	0.783	-.5673765	.4278543
236546	-.2575877	.2541577	-1.01	0.311	-.7557471	.2405716
243215	-.2245337	.2533573	-0.89	0.375	-.7211242	.2720568
387054	-.0914111	.2539271	-0.36	0.719	-.5891183	.4062961
549279	-.1425965	.2534208	-0.56	0.574	-.6393113	.3541183
721196	-.1320515	.2536276	-0.52	0.603	-.6291718	.3650688
occupation_code						
2	.1610922	.0433629	3.71	0.000	.0760992	.2460851
3	.001657	.0565665	0.03	0.977	-.1092156	.1125296
4	.1787715	.0890698	2.01	0.045	.0041912	.3533518
5	-.0160476	.0695856	-0.23	0.818	-.1524383	.120343
6	-.0563984	.0783706	-0.72	0.472	-.2100079	.0972112
7	-.07877	.0947917	-0.83	0.406	-.2645655	.1070255
8	-.3290615	.0837063	-3.93	0.000	-.4931292	-.1649938
9	-.2476825	.0561658	-4.41	0.000	-.3577696	-.1375953
10	-.0404808	.086215	-0.47	0.639	-.2094657	.128504
11	-.2781107	.0429413	-6.48	0.000	-.3622774	-.193944
12	-.5438759	.0657676	-8.27	0.000	-.6727831	-.4149687
13	-.6132236	.0726579	-8.44	0.000	-.7556359	-.4708113
14	-.3839435	.0853502	-4.50	0.000	-.5512334	-.2166537
15	.1530684	.0549883	2.78	0.005	.0452892	.2608476
16	-.1683301	.0486562	-3.46	0.001	-.2636982	-.0729621
17	-.1100718	.0494784	-2.22	0.026	-.2070514	-.0130921
18	-.3123384	.0395967	-7.89	0.000	-.3899494	-.2347274
19	-.6696698	.0599383	-11.17	0.000	-.7871513	-.5521883
20	-.5203263	.0789381	-6.59	0.000	-.6750481	-.3656045
21	.08514	.4709457	0.18	0.857	-.8379324	1.008212
22	-.6998771	.0566315	-12.36	0.000	-.8108772	-.588877
23	-.2912706	.0390005	-7.47	0.000	-.367713	-.2148281
24	-.2224397	.0378008	-5.88	0.000	-.2965308	-.1483485
25	-.2801066	.0762206	-3.67	0.000	-.4295019	-.1307112
26	.0480734	.0444213	1.08	0.279	-.0389941	.1351409

```
                        SkintoneOutput_ver3_clean
          27  |  -.0123602   .0521705    -0.24   0.813    -.1146165     .089896
          28  |  -.0612756   .0720504    -0.85   0.395    -.2024973    .0799461
          29  |  -.3557749   .1166771    -3.05   0.002    -.5844666   -.1270831
          30  |   -.052705    .048589    -1.08   0.278    -.1479414    .0425314
          31  |  -.2360602   .0461029    -5.12   0.000    -.3264237   -.1456967
          32  |   .3507332   .0714348     4.91   0.000     .2107182    .4907481
          33  |  -.8170796   .2134975    -3.83   0.000    -1.235543   -.3986159
              |
       _cons  |  -14.01603   3.623591    -3.87   0.000    -21.11841   -6.913645
------------------------------------------------------------------------------


.
. * model 4
. reg  lntotincadj c.color##c.deviation_ht female white age hsgrad health weightpd
i.marital_status  lnasvab_score lntotspincadj msa   biores_dad_hs biores_mom_hs
fedminwageadj
>  recession i.year  i.state3 i.occupation_code    if race_eth !=2 & race_eth !=3 &
stateofresid!=., robust
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =     31,356
                                                F(113, 31242)     =     177.92
                                                Prob > F          =     0.0000
                                                R-squared         =     0.3789
                                                Root MSE          =     1.1641

------------------------------------------------------------------------------
             |               Robust
  lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       color |  -.0183382   .0087891    -2.09   0.037    -.0355653   -.0011112
  deviation_ht |   .0096902   .0025953     3.73   0.000     .0046033    .0147771
               |
c.color#c.deviation_ht |  -.0029838   .0010471    -2.85   0.004    -.0050362   -.0009315
               |
        female |  -.2000905   .0165148   -12.12   0.000    -.2324601   -.1677209
         white |   .0253123   .0545727     0.46   0.643    -.0816525    .132277
           age |   .1677713   .0051606    32.51   0.000     .1576563    .1778862
```

```
              hsgrad |   .3574373   .0239123    14.95   0.000     .3105681
.4043064
              health |   .0446087   .0083401     5.35   0.000     .0282617
.0609557
            weightpd |   .0009256   .0001838     5.04   0.000     .0005653
.0012859
                     |
      marital_status |
             Married |   .0630475   .0218732     2.88   0.004     .0201751
.1059199
           Separated |  -.0964782   .0896009    -1.08   0.282    -.2720995
.079143
            Divorced |   .0030801   .0402753     0.08   0.939    -.0758611
.0820213
             Widowed |   .0722901   .1960502     0.37   0.712    -.3119762
.4565564
                     |
       lnasvab_score |   .0665164   .0106656     6.24   0.000     .0456113
.0874214
       lntotspincadj |   .0181827   .0019153     9.49   0.000     .0144286
.0219368
                 msa |  -.0174514   .0255877    -0.68   0.495    -.0676043
.0327015
       biores_dad_hs |   .0441928   .0241101     1.83   0.067     -.003064
.0914496
       biores_mom_hs |   -.043473   .0248297    -1.75   0.080    -.0921403
.0051943
       fedminwageadj |   2.533238   .5123652     4.94   0.000     1.528982
3.537494
           recession |  -.5812729   .1949534    -2.98   0.003    -.9633894
-.1991564
                     |
                year |
                1999 |   .5496541   .1165113     4.72   0.000     .3212874
.7780209
                2000 |    1.32171   .2290921     5.77   0.000     .8726803
1.770739
                2001 |   2.503199   .5154752     4.86   0.000     1.492847
3.513551
                2002 |   2.243215   .3785818     5.93   0.000      1.50118
2.985251
                2003 |    2.68286   .4565067     5.88   0.000     1.788089
3.577631
                2004 |   3.111107   .5442627     5.72   0.000      2.04433
4.177884
                2005 |   3.694519   .6483427     5.70   0.000     2.423741
4.965296
                2006 |   4.215674   .7465741     5.65   0.000     2.752359
```

```
5.678989
             2007  |   2.698096   .4431918     6.09   0.000     1.829422
3.566769
             2008  |   1.950427   .3844188     5.07   0.000     1.196951
2.703904
             2009  |          0  (omitted)
             2010  |  -.4666638   .1301834    -3.58   0.000    -.7218285
-.2114991
             2011  |          0  (omitted)
                   |
          state3   |
             4054  |   -.663166   .4091818    -1.62   0.105    -1.465179
.1388466
             4145  |  -.6616183   .3064606    -2.16   0.031    -1.262293
-.0609433
             4360  |   -.262995   .2682158    -0.98   0.327    -.7887085
.2627186
             4564  |  -.8004325   .3737959    -2.14   0.032    -1.533087
-.0677776
             4715  |  -.1655048   .2670948    -0.62   0.535    -.6890213
.3580116
             5130  |  -.0385832   .2813109    -0.14   0.891    -.5899637
.5127974
             5224  |  -.2338986   .4107295    -0.57   0.569    -1.038945
.5711476
             6644  |  -.4539258   .3520374    -1.29   0.197    -1.143933
.2360816
            10318  |  -.2282143   .2603541    -0.88   0.381    -.7385188
.2820902
            18699  |  -.1051586   .2694532    -0.39   0.696    -.6332977
.4229805
            20164  |   .0456203   .2691977     0.17   0.865    -.4820179
.5732585
            31843  |   .0342643   .2646656     0.13   0.897    -.4844909
.5530195
            32126  |  -.0627979   .2709107    -0.23   0.817    -.5937938
.4681979
            38083  |  -.3010796   .2743452    -1.10   0.272    -.8388071
.236648
            38111  |  -.1391805   .2707199    -0.51   0.607    -.6698023
.3914413
            39791  |  -.0125283   .2538778    -0.05   0.961    -.5101391
.4850824
            44094  |  -.2616086   .2563339    -1.02   0.307    -.7640332
.240816
            47500  |  -.3440411   .2593572    -1.33   0.185    -.8523915
.1643093
            48050  |  -.2089532   .2536534    -0.82   0.410     -.706124
```

.2882176					
49318	-.1719096	.2640492	-0.65	0.515	-.6894567
.3456374					
53015	-.0995749	.2542158	-0.39	0.695	-.5978481
.3986983					
55268	-.1010639	.2525346	-0.40	0.689	-.5960419
.3939141					
63397	-.0692542	.2542565	-0.27	0.785	-.5676071
.4290987					
80726	-.0996137	.2541041	-0.39	0.695	-.597668
.3984405					
87743	-.2343313	.2582316	-0.91	0.364	-.7404755
.2718129					
91778	-.1476049	.2538157	-0.58	0.561	-.6450937
.349884					
96610	-.2007828	.2521366	-0.80	0.426	-.6949806
.293415					
110109	-.1933035	.2509684	-0.77	0.441	-.6852115
.2986046					
113427	-.422143	.2560904	-1.65	0.099	-.9240903
.0798044					
115223	-.1154251	.252447	-0.46	0.648	-.6102313
.3793812					
118714	-.096224	.2526244	-0.38	0.703	-.591378
.39893					
119591	-.2522485	.2542329	-0.99	0.321	-.7505552
.2460582					
134537	-.2557022	.254754	-1.00	0.316	-.7550303
.2436258					
136774	-.1716831	.2522584	-0.68	0.496	-.6661196
.3227535					
141312	-.242708	.2514182	-0.97	0.334	-.7354978
.2500817					
142718	-.2025699	.2516949	-0.80	0.421	-.695902
.2907621					
142810	-.2692487	.2566675	-1.05	0.294	-.7723271
.2338298					
146530	-.2277744	.2532994	-0.90	0.369	-.7242513
.2687026					
156000	-.1809558	.2507421	-0.72	0.470	-.6724203
.3105088					
156614	-.2309758	.2507261	-0.92	0.357	-.7224088
.2604573					
159177	.1117643	.2535761	0.44	0.659	-.3852549
.6087835					
220149	-.1109332	.2526288	-0.44	0.661	-.6060958
.3842294					
223202	-.1443209	.2509606	-0.58	0.565	-.6362137

```
.3475718
             233174  |  -.2563856   .2513898    -1.02   0.308    -.7491196
.2363485
             236066  |  -.0726562   .2508683    -0.29   0.772    -.5643681
.4190556
             236546  |  -.2612346   .2511403    -1.04   0.298    -.7534796
.2310104
             243215  |  -.2283322     .25034    -0.91   0.362    -.7190085
.2623442
             387054  |  -.0953072   .2509149    -0.38   0.704    -.5871104
.3964959
             549279  |  -.1477397   .2504049    -0.59   0.555    -.6385433
.3430639
             721196  |  -.1353741   .2506147    -0.54   0.589    -.6265889
.3558407
                     |
      occupation_code |
                   2  |   .1619907   .0433448     3.74   0.000     .0770331
.2469483
                   3  |   .0011793   .0565338     0.02   0.983    -.1096293
.1119879
                   4  |   .1792149   .0889166     2.02   0.044     .0049349
.353495
                   5  |   -.013882   .0696131    -0.20   0.842    -.1503264
.1225624
                   6  |  -.0581629    .078519    -0.74   0.459    -.2120634
.0957375
                   7  |  -.0819782   .0946586    -0.87   0.386    -.2675128
.1035564
                   8  |  -.3296564   .0837935    -3.93   0.000    -.4938949
-.1654178
                   9  |  -.2472252   .0560658    -4.41   0.000    -.3571165
-.137334
                  10  |  -.0381639   .0862966    -0.44   0.658    -.2073086
.1309808
                  11  |  -.2766976   .0428897    -6.45   0.000    -.3607633
-.192632
                  12  |  -.5431104   .0657922    -8.25   0.000    -.6720657
-.4141551
                  13  |  -.6116578   .0726846    -8.42   0.000    -.7541226
-.4691929
                  14  |  -.3824136   .0852126    -4.49   0.000    -.5494336
-.2153936
                  15  |   .1529891   .0550248     2.78   0.005     .0451382
.26084
                  16  |  -.1676002   .0486272    -3.45   0.001    -.2629115
-.0722889
                  17  |  -.1080288   .0493564    -2.19   0.029    -.2047694
```

```
-.0112883
                  18  |  -.3095372   .0395613    -7.82   0.000     -.387079
-.2319955
                  19  |  -.6679749   .0599089   -11.15   0.000    -.7853987
-.5505512
                  20  |  -.5184668   .0788065    -6.58   0.000    -.6729307
-.3640029
                  21  |   .1019776   .4723053     0.22   0.829    -.8237597
1.027715
                  22  |  -.6960618   .0566325   -12.29   0.000    -.8070638
-.5850598
                  23  |  -.2904944     .03897    -7.45   0.000    -.3668771
-.2141117
                  24  |  -.2208484   .0377795    -5.85   0.000    -.2948977
-.1467992
                  25  |   -.279653   .0762388    -3.67   0.000    -.4290842
-.1302219
                  26  |   .0489517   .0443921     1.10   0.270    -.0380586
.135962
                  27  |  -.0106022   .0521328    -0.20   0.839    -.1127846
.0915802
                  28  |  -.0630162   .0720284    -0.87   0.382    -.2041948
.0781624
                  29  |  -.3575478    .117108    -3.05   0.002    -.5870842
-.1280115
                  30  |  -.0516405   .0485524    -1.06   0.288    -.1468051
.0435241
                  31  |  -.2333628   .0460279    -5.07   0.000    -.3235792
-.1431463
                  32  |   .3472297   .0713785     4.86   0.000      .207325
.4871344
                  33  |  -.8212726   .2134862    -3.85   0.000    -1.239714
-.402831
                      |
               _cons  |  -14.05186   3.622061    -3.88   0.000    -21.15125
-6.952478
------------------------------------------------------------------------------
-----

.
. * model 5
. reg  lntotincadj c.color##c.deviation_ht##female white age hsgrad health weightpd
i.marital_status  lnasvab_score lntotspincadj msa   biores_dad_hs biores_mom_hs
fedminwagead
> j recession i.year  i.state3 i.occupation_code    if race_eth !=2 & race_eth !=3
& stateofresid!=., robust
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity
```

```
Linear regression                               Number of obs     =     31,356
                                                F(116, 31239)     =     174.88
                                                Prob > F          =     0.0000
                                                R-squared         =     0.3792
                                                Root MSE          =     1.1639

------------------------------------------------------------------------------
             |               Robust
  lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       color |  -.0175237   .0090626    -1.93   0.053    -.0352868    .0002393
deviation_ht |    .015247   .0034811     4.38   0.000      .008424     .02207
             |
c.color#c.deviation_ht |  -.0055308   .0014233    -3.89   0.000    -.0083204  -.0027411
             |
    1.female |  -.1936531   .0187436   -10.33   0.000    -.2303912  -.1569149
             |
female#c.color |
           1 |   .0011573   .0062694     0.18   0.854    -.0111309    .0134455
             |
female#c.deviation_ht |
           1 |  -.0127258   .0048949    -2.60   0.009      -.02232  -.0031316
             |
female#c.color#c.deviation_ht |
           1 |   .0056766   .0020978     2.71   0.007     .0015649    .0097883
             |
       white |   .0324134   .0548742     0.59   0.555    -.0751421     .139969
         age |   .1685456    .005154    32.70   0.000     .1584435    .1786476
      hsgrad |   .3583649   .0239168    14.98   0.000      .311487    .4052428
      health |   .0442217   .0083458     5.30   0.000     .0278636    .0605798
    weightpd |   .0008939   .0001841     4.86   0.000     .0005331    .0012546
             |
```

```
marital_status |
      Married  |   .0624396   .0218677     2.86   0.004      .019578
.1053013
    Separated  |  -.1021711   .0894668    -1.14   0.253    -.2775295
.0731874
     Divorced  |   .0026862   .0402096     0.07   0.947    -.0761263
.0814987
      Widowed  |   .0692902   .1926368     0.36   0.719    -.3082857
.4468661
               |
 lnasvab_score |   .0662268   .0106304     6.23   0.000     .0453908
.0870628
 lntotspincadj |   .0183257   .0019149     9.57   0.000     .0145724
 .022079
           msa |  -.0193988   .0255925    -0.76   0.448    -.0695611
.0307635
 biores_dad_hs |   .0443365   .0241131     1.84   0.066    -.0029262
.0915992
 biores_mom_hs |  -.0420325   .0248388    -1.69   0.091    -.0907176
.0066525
 fedminwageadj |   2.468264   .5122353     4.82   0.000     1.464262
3.472266
     recession |  -.5567979   .1949133    -2.86   0.004    -.9388358
 -.17476
               |
          year |
          1999 |   .5387611   .1165412     4.62   0.000     .3103357
.7671865
          2000 |   1.294981   .2290301     5.65   0.000     .8460732
1.743889
          2001 |   2.439202    .515361     4.73   0.000     1.429074
 3.44933
          2002 |   2.196442   .3785261     5.80   0.000     1.454516
2.938368
          2003 |    2.62638   .4563854     5.75   0.000     1.731847
3.520914
          2004 |   3.042942   .5441791     5.59   0.000     1.976329
4.109555
          2005 |   3.612881   .6482026     5.57   0.000     2.342378
4.883384
          2006 |   4.120984   .7464205     5.52   0.000      2.65797
5.583998
          2007 |   2.642376   .4430873     5.96   0.000     1.773907
3.510845
          2008 |   1.901848   .3843234     4.95   0.000     1.148559
2.655137
          2009 |          0  (omitted)
          2010 |  -.4510914   .1301352    -3.47   0.001    -.7061616
```

-.1960213					
2011	0	(omitted)			
state3					
4054	-.6523219	.4114886	-1.59	0.113	-1.458856
.1542122					
4145	-.6449976	.3094901	-2.08	0.037	-1.25161
-.0383847					
4360	-.2505831	.2718195	-0.92	0.357	-.7833603
.282194					
4564	-.7881098	.3748718	-2.10	0.036	-1.522873
-.0533461					
4715	-.1491481	.2708795	-0.55	0.582	-.6800826
.3817865					
5130	-.0194712	.2846731	-0.07	0.945	-.5774418
.5384994					
5224	-.2274147	.4132342	-0.55	0.582	-1.03737
.5825408					
6644	-.4205243	.3539377	-1.19	0.235	-1.114256
.2732077					
10318	-.2209854	.2641046	-0.84	0.403	-.7386411
.2966702					
18699	-.0941112	.2732403	-0.34	0.731	-.6296731
.4414508					
20164	.0521668	.2727406	0.19	0.848	-.4824157
.5867493					
31843	.0408425	.2683344	0.15	0.879	-.4851037
.5667886					
32126	-.046418	.2742683	-0.17	0.866	-.5839949
.4911589					
38083	-.2905095	.2776385	-1.05	0.295	-.834692
.2536731					
38111	-.1085079	.2743751	-0.40	0.692	-.6462941
.4292783					
39791	-.0003236	.2577075	-0.00	0.999	-.5054406
.5047935					
44094	-.2472809	.2600878	-0.95	0.342	-.7570634
.2625016					
47500	-.3270499	.2631009	-1.24	0.214	-.8427382
.1886384					
48050	-.1893798	.2573731	-0.74	0.462	-.6938414
.3150818					
49318	-.1565194	.2676681	-0.58	0.559	-.6811596
.3681208					
53015	-.0853722	.2579768	-0.33	0.741	-.5910171
.4202726					
55268	-.087131	.2564143	-0.34	0.734	-.5897133
.4154514					

63397	-.0548285	.258066	-0.21	0.832	-.5606481 .4509911
80726	-.084629	.2578877	-0.33	0.743	-.5900992 .4208413
87743	-.2188129	.2620678	-0.83	0.404	-.7324763 .2948505
91778	-.1313467	.2576224	-0.51	0.610	-.6362969 .3736034
96610	-.1908434	.2559205	-0.75	0.456	-.6924578 .3107711
110109	-.1843385	.2548068	-0.72	0.469	-.68377 .3150929
113427	-.4095009	.2599013	-1.58	0.115	-.9189178 .099916
115223	-.1024872	.2563321	-0.40	0.689	-.6049083 .399934
118714	-.0796835	.2564926	-0.31	0.756	-.5824192 .4230521
119591	-.23849	.2579615	-0.92	0.355	-.7441048 .2671247
134537	-.2366706	.2585346	-0.92	0.360	-.7434086 .2700675
136774	-.1585509	.256124	-0.62	0.536	-.6605641 .3434623
141312	-.2235224	.2552364	-0.88	0.381	-.723796 .2767512
142718	-.1881477	.2555641	-0.74	0.462	-.6890635 .3127681
142810	-.2556654	.2604897	-0.98	0.326	-.7662357 .2549049
146530	-.213849	.2571233	-0.83	0.406	-.7178209 .2901229
156000	-.1710111	.2545548	-0.67	0.502	-.6699486 .3279264
156614	-.2144541	.254592	-0.84	0.400	-.7134646 .2845563
159177	.1182841	.2573878	0.46	0.646	-.3862064 .6227745
220149	-.0966571	.2564298	-0.38	0.706	-.5992697 .4059556
223202	-.1310583	.254856	-0.51	0.607	-.6305863 .3684697
233174	-.2419605	.2552016	-0.95	0.343	-.7421658 .2582448
236066	-.0561026	.254667	-0.22	0.826	-.5552601 .443055
236546	-.2499122	.2550076	-0.98	0.327	-.7497372 .2499128

```
                    SkintoneOutput_ver3_clean
              243215  |   -.213114   .2542374    -0.84   0.402    -.7114295
 .2852015
              387054  |  -.0820869   .2547352    -0.32   0.747    -.5813781
 .4172044
              549279  |  -.1340904   .2543102    -0.53   0.598    -.6325486
 .3643678
              721196  |  -.1220029   .2544501    -0.48   0.632    -.6207352
 .3767293
                      |
       occupation_code |
                    2 |     .16301   .0433513     3.76   0.000     .0780397
 .2479803
                    3 |   .0003662   .0565818     0.01   0.995    -.1105364
 .1112689
                    4 |   .1773978   .0889024     2.00   0.046     .0031456
 .3516501
                    5 |  -.0077991   .0700011    -0.11   0.911    -.1450041
 .1294059
                    6 |  -.0577073   .0783669    -0.74   0.462    -.2113096
  .095895
                    7 |   -.081793   .0948681    -0.86   0.389    -.2677382
 .1041522
                    8 |  -.3308497   .0838889    -3.94   0.000    -.4952753
-.1664242
                    9 |  -.2440051   .0559835    -4.36   0.000    -.3537349
-.1342753
                   10 |  -.0379565   .0862558    -0.44   0.660    -.2070214
 .1311083
                   11 |  -.2758819    .042944    -6.42   0.000    -.3600539
-.1917099
                   12 |  -.5416211   .0656372    -8.25   0.000    -.6702726
-.4129697
                   13 |  -.6083285   .0726741    -8.37   0.000    -.7507727
-.4658844
                   14 |  -.3758252   .0852825    -4.41   0.000    -.5429824
-.2086681
                   15 |   .1561092   .0549699     2.84   0.005     .0483661
 .2638524
                   16 |  -.1653415   .0488244    -3.39   0.001    -.2610391
-.0696438
                   17 |  -.1037592   .0492617    -2.11   0.035    -.2003141
-.0072044
                   18 |  -.3059915   .0395261    -7.74   0.000    -.3834642
-.2285188
                   19 |  -.6651363   .0599219   -11.10   0.000    -.7825857
 -.547687
                   20 |  -.5183391   .0791231    -6.55   0.000    -.6734236
-.3632546
```

```
                          SkintoneOutput_ver3_clean
                      21  |   .0950756    .460799     0.21   0.837    -.8081087
     .99826
                      22  |   -.696144   .0566231   -12.29   0.000    -.8071276
  -.5851605
                      23  |   -.288491   .0390614    -7.39   0.000    -.3650529
  -.2119291
                      24  |   -.217745   .0378157    -5.76   0.000    -.2918652
  -.1436248
                      25  |  -.2769281   .0764718    -3.62   0.000    -.4268159
  -.1270403
                      26  |   .0483677   .0445332     1.09   0.277    -.0389193
   .1356546
                      27  |  -.0095657   .0522283    -0.18   0.855    -.1119354
   .0928039
                      28  |  -.0626999   .0718337    -0.87   0.383    -.2034968
   .0780969
                      29  |  -.3633234   .1170891    -3.10   0.002    -.5928227
  -.1338242
                      30  |   -.051098     .04856    -1.05   0.293    -.1462776
   .0440816
                      31  |  -.2304613   .0459559    -5.01   0.000    -.3205366
  -.1403859
                      32  |   .3399857   .0714748     4.76   0.000     .1998922
   .4800792
                      33  |  -.8217921   .2138675    -3.84   0.000    -1.240981
  -.4026033
                          |
                   _cons  |  -13.61957   3.621584    -3.76   0.000    -20.71802
  -6.521122
------------------------------------------------------------------------------
------------

.
.
. * Table 2: Robustness Tests*
. * deviation from state median household income as dependent variable
. reg  deviation_hhinc  c.color##c.deviation_ht##female white age hsgrad health
weightpd i.marital_status  lnasvab_score lntotspincadj msa   biores_dad_hs
biores_mom_hs  fedminw
> ageadj recession i.year  i.state3 i.occupation_code    if race_eth !=2 & race_eth
!=3 & lntotincadj !=.& stateofresid!=., robust
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =     31,356
                                                F(116, 31239)     =     288.04
                                                Prob > F          =     0.0000
                                                R-squared         =     0.4704
```

SkintoneOutput_ver3_clean

Root MSE = 16150

deviation_hhinc	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
color	-148.4991	98.04969	-1.51	0.130	-340.6805	43.68217
deviation_ht	329.6582	53.70874	6.14	0.000	224.387	434.9295
c.color#c.deviation_ht	-76.79442	14.49579	-5.30	0.000	-105.2067	-48.3821
1.female	-3836.617	255.0801	-15.04	0.000	-4336.584	-3336.649
female#c.color						
1	247.3493	65.36916	3.78	0.000	119.2232	375.4755
female#c.deviation_ht						
1	-316.8526	71.01691	-4.46	0.000	-456.0486	-177.6566
female#c.color#c.deviation_ht						
1	84.10386	20.14248	4.18	0.000	44.62379	123.5839
white	1928.772	628.1539	3.07	0.002	697.5651	3159.978
age	2547.599	76.25881	33.41	0.000	2398.129	2697.07
hsgrad	1612.524	228.4634	7.06	0.000	1164.726	2060.321
health	1203.849	106.7398	11.28	0.000	994.6345	1413.063
weightpd	4.257351	2.428287	1.75	0.080	-.5021882	9.01689
marital_status						
Married	4566.367	375.6773	12.16	0.000	3830.024	5302.709
Separated	-545.6498	1045.49	-0.52	0.602	-2594.851	1503.552

```
            Divorced |  -927.6902   655.2963    -1.42   0.157    -2212.097
356.7167
             Widowed |   -6842.43   3442.373    -1.99   0.047    -13589.62
-95.24085
                     |
        lnasvab_score |   870.8262   105.3451     8.27   0.000     664.3456
1077.307
        lntotspincadj |    120.029   32.35313     3.71   0.000     56.61555
183.4424
                  msa |   -388.182   273.2372    -1.42   0.155    -923.7378
147.3738
        biores_dad_hs |   1090.267   269.1281     4.05   0.000     562.7651
1617.769
        biores_mom_hs |   496.5702   298.0946     1.67   0.096    -87.70724
1080.848
        fedminwageadj |   12408.98   6391.607     1.94   0.052    -118.8226
24936.79
            recession |  -3555.325   2656.188    -1.34   0.181    -8761.561
 1650.91
                     |
                 year |
                 1999 |   757.0782   1068.369     0.71   0.479    -1336.968
2851.124
                 2000 |   2730.956   2526.155     1.08   0.280    -2220.409
7682.321
                 2001 |    9575.14   6340.884     1.51   0.131    -2853.247
22003.53
                 2002 |   7570.687   4430.591     1.71   0.088    -1113.449
16254.82
                 2003 |   8945.631   5408.958     1.65   0.098    -1656.143
19547.41
                 2004 |   11498.33   6511.207     1.77   0.077    -1263.895
24260.56
                 2005 |    14193.1   7855.329     1.81   0.071    -1203.659
29589.86
                 2006 |   16417.39   9089.582     1.81   0.071    -1398.557
34233.33
                 2007 |   9570.723   5317.763     1.80   0.072    -852.3035
19993.75
                 2008 |   6678.136   4813.468     1.39   0.165    -2756.452
16112.73
                 2009 |           0  (omitted)
                 2010 |  -2302.734   1853.435    -1.24   0.214     -5935.54
1330.072
                 2011 |           0  (omitted)
                      |
                state3 |
                 4054 |  -11771.83   4077.988    -2.89   0.004    -19764.85
```

4145	-18335.59	3635.672	-5.04	0.000	-25461.66
					-11209.53
4360	-27563.76	4016.082	-6.86	0.000	-35435.44
					-19692.08
4564	-20758.67	5261.033	-3.95	0.000	-31070.51
					-10446.84
4715	-32874.54	3822.747	-8.60	0.000	-40367.28
					-25381.81
5130	-4955.486	6855.649	-0.72	0.470	-18392.83
					8481.86
5224	-12155.1	5257.417	-2.31	0.021	-22459.85
					-1850.353
6644	-11036.72	4074.491	-2.71	0.007	-19022.89
					-3050.557
10318	-21433.77	3942.185	-5.44	0.000	-29160.61
					-13706.93
18699	-17138.73	3932.425	-4.36	0.000	-24846.44
					-9431.022
20164	-13721.58	4227.634	-3.25	0.001	-22007.91
					-5435.244
31843	-19483.67	3490.774	-5.58	0.000	-26325.73
					-12641.62
32126	-22873.96	3448.891	-6.63	0.000	-29633.93
					-16114
38083	-3354.934	3418.093	-0.98	0.326	-10054.53
					3344.665
38111	-5601.216	3715.049	-1.51	0.132	-12882.86
					1680.428
39791	-9615.695	3326.742	-2.89	0.004	-16136.24
					-3095.148
44094	-3678.239	3519.239	-1.05	0.296	-10576.09
					3219.61
47500	-8673.063	3319.567	-2.61	0.009	-15179.55
					-2166.58
48050	-9486.131	3379.982	-2.81	0.005	-16111.03
					-2861.231
49318	-8775.564	3477.65	-2.52	0.012	-15591.9
					-1959.23
53015	-13454.31	3360.101	-4.00	0.000	-20040.24
					-6868.375
55268	-13784.79	3321.103	-4.15	0.000	-20294.29
					-7275.298
63397	-28972.46	3366.931	-8.61	0.000	-35571.78
					-22373.14
80726	-25238.63	3365.389	-7.50	0.000	-31834.93
					-18642.33
87743	-5038.839	3362.091	-1.50	0.134	-11628.67

1550.993						
	91778	-20531.41	3326.567	-6.17	0.000	-27051.61
-14011.2						
	96610	-6966.769	3303.39	-2.11	0.035	-13441.55
-491.9916						
	110109	-18347.76	3295.284	-5.57	0.000	-24806.65
-11888.87						
	113427	-4152.436	3333.419	-1.25	0.213	-10686.07
2381.199						
	115223	-18244.31	3322.957	-5.49	0.000	-24757.44
-11731.18						
	118714	-27936.79	3320.25	-8.41	0.000	-34444.62
-21428.97						
	119591	-8422.303	3324.152	-2.53	0.011	-14937.77
-1906.832						
	134537	-4854.298	3339.225	-1.45	0.146	-11399.31
1690.716						
	136774	-7807.193	3301.139	-2.36	0.018	-14277.56
-1336.828						
	141312	-20436.24	3322.885	-6.15	0.000	-26949.22
-13923.25						
	142718	-12552.67	3307.065	-3.80	0.000	-19034.65
-6070.69						
	142810	-12841.88	3338.459	-3.85	0.000	-19385.39
-6298.365						
	146530	-14844.54	3312.533	-4.48	0.000	-21337.24
-8351.848						
	156000	-10994.55	3295.859	-3.34	0.001	-17454.56
-4534.531						
	156614	-13824.02	3292.347	-4.20	0.000	-20277.15
-7370.887						
	159177	-24546.39	3371.526	-7.28	0.000	-31154.72
-17938.06						
	220149	-7390.42	3330.308	-2.22	0.026	-13917.96
-862.883						
	223202	-13145.32	3290.954	-3.99	0.000	-19595.73
-6694.925						
	233174	-16690.52	3317.56	-5.03	0.000	-23193.07
-10187.97						
	236066	-21128.01	3300.386	-6.40	0.000	-27596.9
-14659.12						
	236546	-9963.524	3287.715	-3.03	0.002	-16407.58
-3519.472						
	243215	-15644.77	3286.903	-4.76	0.000	-22087.23
-9202.311						
	387054	-13144.31	3302.549	-3.98	0.000	-19617.44
-6671.186						
	549279	-10425.23	3303.497	-3.16	0.002	-16900.21

```
-3950.242
                  721196  |  -18898.48   3301.865    -5.72   0.000    -25370.27
-12426.69
                          |
            occupation_code |
                       2  |   2823.313   1054.186     2.68   0.007     757.0655
 4889.561
                       3  |   1501.558   1187.412     1.26   0.206    -825.8172
 3828.934
                       4  |   10209.15   1724.195     5.92   0.000     6829.656
 13588.64
                       5  |   -7549.26   1223.557    -6.17   0.000    -9947.481
-5151.039
                       6  |  -6063.914   1735.146    -3.49   0.000    -9464.868
-2662.959
                       7  |  -5688.948   2549.069    -2.23   0.026    -10685.22
-692.6713
                       8  |  -11033.39    1457.36    -7.57   0.000    -13889.88
-8176.909
                       9  |  -10957.82   881.5764   -12.43   0.000    -12685.75
-9229.896
                      10  |  -132.9714   2581.242    -0.05   0.959    -5192.309
 4926.366
                      11  |  -10171.33   769.8015   -13.21   0.000    -11680.17
-8662.491
                      12  |  -14834.68   929.6646   -15.96   0.000    -16656.85
 -13012.5
                      13  |   -10847.3   1069.133   -10.15   0.000    -12942.84
-8751.754
                      14  |  -9104.686   1387.702    -6.56   0.000    -11824.64
-6384.734
                      15  |   4198.118   1351.202     3.11   0.002     1549.709
 6846.527
                      16  |  -9820.735   771.6089   -12.73   0.000    -11333.12
-8308.351
                      17  |  -6610.293   943.1877    -7.01   0.000    -8458.978
-4761.607
                      18  |  -11357.03   703.3341   -16.15   0.000    -12735.59
-9978.467
                      19  |  -13753.71   805.7221   -17.07   0.000    -15332.95
-12174.46
                      20  |  -12601.42   1004.448   -12.55   0.000    -14570.18
-10632.66
                      21  |  -17021.89   5143.578    -3.31   0.001    -27103.51
-6940.268
                      22  |  -14057.72   762.4349   -18.44   0.000    -15552.12
-12563.31
                      23  |  -8499.555   727.3127   -11.69   0.000    -9925.117
```

```
  -7073.993
                      24  |  -9937.333   701.8016   -14.16   0.000    -11312.89
  -8561.774
                      25  |  -10424.72   983.1654   -10.60   0.000    -12351.77
  -8497.679
                      26  |  -4316.415   822.6689    -5.25   0.000    -5928.879
  -2703.951
                      27  |  -5293.166   905.9702    -5.84   0.000    -7068.904
  -3517.428
                      28  |  -7978.912   1075.097    -7.42   0.000    -10086.15
  -5871.679
                      29  |  -13558.07   1439.914    -9.42   0.000    -16380.36
  -10735.78
                      30  |  -7118.237   831.3884    -8.56   0.000    -8747.791
  -5488.682
                      31  |  -9374.681   780.0651   -12.02   0.000    -10903.64
  -7845.722
                      32  |  -807.3516   1308.713    -0.62   0.537    -3372.481
   1757.778
                      33  |  -12144.32   1808.643    -6.71   0.000    -15689.33
  -8599.304
                          |
                   _cons  |    -175847   44633.18    -3.94   0.000    -263329.9
  -88364.23
------------------------------------------------------------------------------
------------

.
. * mixed effects model
. mixed  lntotincadj c.color##c.deviation_ht##female age hsgrad health weightpd
i.marital_status  lnasvab_score lntotspincadj msa   biores_dad_hs biores_mom_hs
fedminwageadj re
> cession i.year  i.state3 i.occupation_code    if race_eth !=2 & race_eth !=3 &
stateofresid!=. || race_eth:  || color:
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0:   log likelihood = -49193.769
Iteration 1:   log likelihood = -49193.712
Iteration 2:   log likelihood = -49193.704
Iteration 3:   log likelihood = -49193.704

Computing standard errors:
```

SkintoneOutput_ver3_clean

```
Mixed-effects ML regression                     Number of obs     =     31,356

------------------------------------------------------------------
                |     No. of       Observations per Group
 Group Variable |     Groups    Minimum    Average    Maximum
----------------+-------------------------------------------------
       race_eth |          2      6,270   15,678.0     25,086
          color |         11         46    2,850.5     25,086
------------------------------------------------------------------

                                                Wald chi2(115)    =   19006.07
Log likelihood = -49193.704                     Prob > chi2       =     0.0000

------------------------------------------------------------------------------
             lntotincadj |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------------------+----------------------------------------------------------------
                   color |  -.0211469   .0062026    -3.41   0.001    -.0333037   -.0089901
            deviation_ht |   .0152805    .003486     4.38   0.000      .008448    .022113
                         |
 c.color#c.deviation_ht |  -.0055858   .0011986    -4.66   0.000    -.0079349   -.0032367
                         |
               1.female |  -.1938824   .0189026   -10.26   0.000    -.2309309   -.156834
                         |
          female#c.color |
                      1  |   .0006164   .0055104     0.11   0.911    -.0101839   .0114167
                         |
       female#c.deviation_ht |
                      1  |  -.0127019   .0050719    -2.50   0.012    -.0226426   -.0027611
                         |
female#c.color#c.deviation_ht |
                      1  |   .0057099   .0017299     3.30   0.001     .0023195   .0091004
                         |
                     age |   .1687541    .005088    33.17   0.000     .1587817   .1787264
                  hsgrad |   .3574221   .0208634    17.13   0.000     .3165305   .3983137
                  health |   .0442339    .007762     5.70   0.000     .0290206   .0594471
```

```
                weightpd |    .000891    .000181     4.92   0.000     .0005362
.0012458
                         |
           marital_status |
                 Married  |   .0624045   .0217638     2.87   0.004     .0197483
.1050608
               Separated  |  -.1021035    .077131    -1.32   0.186    -.2532775
.0490704
                Divorced  |   .0017759   .0464498     0.04   0.970    -.0892641
.0928159
                 Widowed  |   .0656544   .3234898     0.20   0.839     -.568374
.6996828
                         |
            lnasvab_score |   .0663094   .0085143     7.79   0.000     .0496216
.0829971
           lntotspincadj |   .0183718   .0019349     9.50   0.000     .0145796
 .022164
                     msa |  -.0192554   .0252242    -0.76   0.445    -.0686938
.0301831
           biores_dad_hs |   .0447581   .0217751     2.06   0.040     .0020797
.0874366
           biores_mom_hs |  -.0427797   .0234846    -1.82   0.069    -.0888086
.0032493
           fedminwageadj |   2.453609   .4906706     5.00   0.000     1.491912
3.415305
               recession |   -.551262   .1891054    -2.92   0.004    -.9219017
-.1806223
                         |
                    year |
                    1999  |   .5365425   .1064797     5.04   0.000     .3278461
 .745239
                    2000  |   1.289229   .2143408     6.01   0.000     .8691288
1.709329
                    2001  |   2.425325    .491329     4.94   0.000     1.462337
3.388312
                    2002  |   2.186262   .3588864     6.09   0.000     1.482857
2.889666
                    2003  |    2.61416   .4329734     6.04   0.000     1.765548
3.462773
                    2004  |   3.028036   .5169154     5.86   0.000     2.014901
4.041172
                    2005  |   3.594866   .6182034     5.82   0.000      2.38321
4.806523
                    2006  |   4.099748   .7124845     5.75   0.000     2.703304
5.496192
                    2007  |   2.629908   .4224895     6.22   0.000     1.801844
3.457972
                    2008  |   1.891125   .3687471     5.13   0.000     1.168394
```

```
 2.613856
                2009  |          0  (omitted)
                2010  |  -.4476648   .1264507    -3.54   0.000    -.6955037
-.1998259
                2011  |          0  (omitted)
                      |
              state3  |
                4054  |  -.6557835   .3395237    -1.93   0.053    -1.321238
 .0096707
                4145  |  -.6480507   .3612254    -1.79   0.073     -1.35604
 .0599382
                4360  |  -.2540172   .3185562    -0.80   0.425    -.8783758
 .3703414
                4564  |  -.7917355   .3334971    -2.37   0.018    -1.445378
-.1380932
                4715  |  -.1547059   .3654008    -0.42   0.672    -.8708783
 .5614664
                5130  |  -.0233931   .3545123    -0.07   0.947    -.7182245
 .6714382
                5224  |  -.2312431   .3352437    -0.69   0.490    -.8883086
 .4258225
                6644  |  -.4213831   .3247949    -1.30   0.194    -1.057969
 .2152031
               10318  |  -.2247913   .2926748    -0.77   0.442    -.7984234
 .3488408
               18699  |  -.0999263   .2948477    -0.34   0.735     -.677817
 .4779645
               20164  |   .0471082    .300642     0.16   0.875    -.5421393
 .6363557
               31843  |   .0388344   .2877919     0.13   0.893    -.5252273
 .6028962
               32126  |  -.0483787   .2798908    -0.17   0.863    -.5969546
 .5001973
               38083  |  -.2974865   .2834157    -1.05   0.294    -.8529709
  .257998
               38111  |   -.110975   .3027384    -0.37   0.714    -.7043314
 .4823814
               39791  |  -.0040454   .2751686    -0.01   0.988     -.543366
 .5352751
               44094  |   -.250479    .275767    -0.91   0.364    -.7909724
 .2900144
               47500  |  -.3317745   .2757753    -1.20   0.229     -.872284
 .2087351
               48050  |  -.1932623   .2742454    -0.70   0.481    -.7307734
 .3442488
               49318  |  -.1635105   .2756455    -0.59   0.553    -.7037658
 .3767448
               53015  |  -.0888285   .2736813    -0.32   0.746    -.6252341
```

55268	-.0879706	.2737922	-0.32	0.748	-.6245935
63397	-.0589619	.2730049	-0.22	0.829	-.5940417
80726	-.0891631	.2729263	-0.33	0.744	-.6240888
87743	-.2232054	.2757523	-0.81	0.418	-.76367
91778	-.1354545	.2708556	-0.50	0.617	-.6663217
96610	-.1944063	.2708916	-0.72	0.473	-.7253441
110109	-.1868067	.2700966	-0.69	0.489	-.7161863
113427	-.4175637	.2733482	-1.53	0.127	-.9533164
115223	-.1061901	.2704968	-0.39	0.695	-.636354
118714	-.0849722	.270304	-0.31	0.753	-.6147582
119591	-.240201	.2717471	-0.88	0.377	-.7728155
134537	-.2376577	.2718709	-0.87	0.382	-.7705148
136774	-.1614967	.2703774	-0.60	0.550	-.6914268
141312	-.2273027	.2701001	-0.84	0.400	-.7566891
142718	-.1925435	.269889	-0.71	0.476	-.7215163
142810	-.263049	.2716332	-0.97	0.333	-.7954403
146530	-.2173884	.2707824	-0.80	0.422	-.7481121
156000	-.1742516	.2694151	-0.65	0.518	-.7022955
156614	-.2179748	.2694153	-0.81	0.418	-.7460191
159177	.1151297	.2718462	0.42	0.672	-.4176791
220149	-.101626	.2701793	-0.38	0.707	-.6311678
223202	-.1349493	.2690443	-0.50	0.616	-.6622664
233174	-.247154	.2693742	-0.92	0.359	-.7751177
236066	-.0610517	.2692169	-0.23	0.821	-.5887071

236546	-.2541187	.269112	-0.94	0.345	-.7815685 .2733311
243215	-.2158439	.2686746	-0.80	0.422	-.7424364 .3107485
387054	-.0871293	.268805	-0.32	0.746	-.6139774 .4397189
549279	-.1370346	.2687582	-0.51	0.610	-.6637911 .3897218
721196	-.1270927	.2687424	-0.47	0.636	-.653818 .3996327
occupation_code					
2	.1630179	.0496258	3.28	0.001	.065753 .2602828
3	.0004616	.055575	0.01	0.993	-.1084633 .1093865
4	.178211	.0746003	2.39	0.017	.0319972 .3244248
5	-.0071743	.1034171	-0.07	0.945	-.209868 .1955195
6	-.058368	.1166247	-0.50	0.617	-.2869483 .1702122
7	-.0832273	.1513347	-0.55	0.582	-.3798378 .2133831
8	-.3314872	.1209798	-2.74	0.006	-.5686032 -.0943712
9	-.2439233	.0618566	-3.94	0.000	-.3651599 -.1226866
10	-.0381068	.0960525	-0.40	0.692	-.2263662 .1501527
11	-.2766046	.0438912	-6.30	0.000	-.3626297 -.1905795
12	-.5445301	.0773853	-7.04	0.000	-.6962026 -.3928576
13	-.6085664	.0591692	-10.29	0.000	-.7245359 -.4925968
14	-.376183	.0742631	-5.07	0.000	-.521736 -.2306299
15	.1546636	.0624812	2.48	0.013	.0322027 .2771246
16	-.1650255	.0460761	-3.58	0.000	-.255333 -.074718
17	-.1054784	.056451	-1.87	0.062	-.2161204 .0051636
18	-.3061373	.0381667	-8.02	0.000	-.3809428 -.2313319
19	-.6648933	.0500196	-13.29	0.000	-.7629299

```
  -.5668567
                        20  |  -.5192806   .0776182    -6.69   0.000    -.6714094
  -.3671518
                        21  |   .0941439   .6730609     0.14   0.889    -1.225031
   1.413319
                        22  |  -.6972266   .0472773   -14.75   0.000    -.7898885
  -.6045648
                        23  |  -.2885852   .0365845    -7.89   0.000    -.3602895
  -.2168809
                        24  |  -.2184251   .0363512    -6.01   0.000    -.2896722
  -.1471779
                        25  |   -.277701   .0752913    -3.69   0.000    -.4252692
  -.1301327
                        26  |   .0480235   .0428753     1.12   0.263    -.0360106
   .1320577
                        27  |  -.0097842   .0500367    -0.20   0.845    -.1078542
   .0882859
                        28  |  -.0615336   .0748021    -0.82   0.411    -.2081431
   .0850758
                        29  |  -.3617236   .1221281    -2.96   0.003    -.6010903
  -.1223569
                        30  |  -.0513447   .0480417    -1.07   0.285    -.1455047
   .0428152
                        31  |  -.2310716   .0426895    -5.41   0.000    -.3147414
  -.1474018
                        32  |    .339094   .0880525     3.85   0.000     .1665144
   .5116736
                        33  |   -.822878   .1428388    -5.76   0.000    -1.102837
  -.5429192
                            |
                     _cons  |   -13.4906   3.458456    -3.90   0.000    -20.26905
  -6.712149
------------------------------------------------------------------------------
------------

------------------------------------------------------------------------------
  Random-effects Parameters  |   Estimate   Std. Err.     [95% Conf. Interval]
-----------------------------+------------------------------------------------
race_eth: Identity           |
                  var(_cons) |   1.89e-11   4.02e-09      1.1e-192    3.1e+170
-----------------------------+------------------------------------------------
color: Identity              |
                  var(_cons) |   .0010825   .0016937      .0000504    .0232422
-----------------------------+------------------------------------------------
               var(Residual) |   1.349396   .0107802      1.328432    1.370691
------------------------------------------------------------------------------
LR test vs. linear model: chi2(2) = 0.00                  Prob > chi2 = 1.0000
```

```
Note: LR test is conservative and provided only for reference.

.
. * addition of share of Black population as additional control
. reg  lntotincadj c.color##c.deviation_ht##female white age hsgrad health weightpd
i.marital_status  lnasvab_score lntotspincadj msa   biores_dad_hs biores_mom_hs
fedminwagead
> j recession shareofblack i.year  i.state3 i.occupation_code    if race_eth !=2 &
race_eth !=3 & stateofresid!=., robust
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =     31,356
                                                F(117, 31238)     =     174.29
                                                Prob > F          =     0.0000
                                                R-squared         =     0.3802
                                                Root MSE          =      1.163

------------------------------------------------------------------------------
             |               Robust
  lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       color |  -.0177096   .0090604    -1.95   0.051    -.0354684    .0000491
deviation_ht |   .0152717   .0034812     4.39   0.000     .0084483    .0220951
             |
c.color#c.deviation_ht |  -.0056378   .0014243    -3.96   0.000    -.0084295   -.0028462
             |
      1.female |  -.1939275   .0187261   -10.36   0.000    -.2306315   -.1572236
             |
  female#c.color |
             1  |   .0011668   .0062707     0.19   0.852    -.0111241    .0134576
             |
female#c.deviation_ht |
             1  |  -.0128647   .0048913    -2.63   0.009    -.0224518   -.0032776
             |
female#c.color#c.deviation_ht |
             1  |   .0057599   .0020994     2.74   0.006     .0016451    .0098747
             |
```

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white	.0300548	.0548395	0.55	0.584	-.0774327	.1375424
age	.1687206	.0051524	32.75	0.000	.1586216	.1788196
hsgrad	.3587712	.0238928	15.02	0.000	.3119404	.4056021
health	.0441111	.0083394	5.29	0.000	.0277655	.0604568
weightpd	.0008934	.000184	4.85	0.000	.0005327	.0012541
marital_status						
Married	.0642291	.0218347	2.94	0.003	.0214322	.1070261
Separated	-.1065807	.0893894	-1.19	0.233	-.2817876	.0686261
Divorced	.0068204	.0402121	0.17	0.865	-.0719969	.0856377
Widowed	.057979	.1896988	0.31	0.760	-.3138382	.4297961
lnasvab_score	.0648762	.010657	6.09	0.000	.043988	.0857644
lntotspincadj	.0185335	.0019146	9.68	0.000	.0147808	.0222862
msa	-.0090203	.0255481	-0.35	0.724	-.0590956	.041055
biores_dad_hs	.0449801	.0241039	1.87	0.062	-.0022645	.0922247
biores_mom_hs	-.0420716	.0248425	-1.69	0.090	-.090764	.0066207
fedminwageadj	2.65621	.5120227	5.19	0.000	1.652625	3.659795
recession	-.6326892	.1948482	-3.25	0.001	-1.0146	-.2507789
shareofblack	-14.71717	2.081508	-7.07	0.000	-18.79701	-10.63733
year						
1999	.5765512	.1164597	4.95	0.000	.3482855	.804817
2000	1.338671	.2286974	5.85	0.000	.8904152	1.786927
2001	2.59993	.5149369	5.05	0.000	1.590633	3.609227
2002	2.306516	.3781627	6.10	0.000	1.565302	3.04773
2003	2.766752	.4560643	6.07	0.000	1.872848	

```
 3.660656
                2004  |   3.217572   .5438214     5.92   0.000      2.15166
 4.283483
                2005  |    3.82894   .6478045     5.91   0.000     2.559217
 5.098662
                2006  |   4.379472   .7460479     5.87   0.000     2.917188
 5.841755
                2007  |   2.792565   .4428279     6.31   0.000     1.924605
 3.660525
                2008  |   2.038177    .384145     5.31   0.000     1.285238
 2.791117
                2009  |          0  (omitted)
                2010  |  -.4985829   .1300732    -3.83   0.000    -.7535316
-.2436342
                2011  |          0  (omitted)
                      |
              state3  |
                4054  |  -.9888545   .4149144    -2.38   0.017    -1.802103
-.1756057
                4145  |  -.4748722   .3113816    -1.53   0.127    -1.085193
 .1354481
                4360  |  -.5769172    .276164    -2.09   0.037     -1.11821
-.0356248
                4564  |  -1.143508   .3786688    -3.02   0.003    -1.885714
-.4013024
                4715  |  -.3930518   .2737707    -1.44   0.151    -.9296533
 .1435497
                5130  |  -.1013173   .2856764    -0.35   0.723    -.6612544
 .4586199
                5224  |   .2700599   .4178051     0.65   0.518    -.5488547
 1.088975
                6644  |  -.8179467   .3586813    -2.28   0.023    -1.520976
-.1149171
               10318  |   -.550859   .2684997    -2.05   0.040    -1.077129
-.0245888
               18699  |   7.521247   1.113464     6.75   0.000     5.338814
  9.70368
               20164  |   .7706865   .2903016     2.65   0.008     .2016837
 1.339689
               31843  |   2.624591   .4525669     5.80   0.000     1.737542
  3.51164
               32126  |   .0042094     .27454     0.02   0.988       -.5339
 .5423188
               38083  |   1.522335   .3765824     4.04   0.000     .7842189
 2.260452
               38111  |  -.2614437   .2756035    -0.95   0.343    -.8016376
 .2787501
               39791  |   -.346162   .2628443    -1.32   0.188    -.8613472
```

44094	-.6692873	.2674608	-2.50	0.012	-1.193521
47500	.3171131	.2777379	1.14	0.254	-.2272643
48050	-.53118	.2623126	-2.02	0.043	-1.045323
49318	-.3701601	.2697372	-1.37	0.170	-.8988558
53015	-.4530764	.2635829	-1.72	0.086	-.9697095
55268	.3490841	.2636215	1.32	0.185	-.1676246
63397	.987941	.296459	3.33	0.001	.4068696
80726	.4791736	.2712943	1.77	0.077	-.0525742
87743	4.049294	.6553639	6.18	0.000	2.764755
91778	.0630821	.2587724	0.24	0.807	-.4441221
96610	.446729	.270825	1.65	0.099	-.0840989
110109	.2336827	.2616429	0.89	0.372	-.2791479
113427	4.519789	.7439861	6.08	0.000	3.061546
115223	-.0590894	.256653	-0.23	0.818	-.5621395
118714	3.749954	.599073	6.26	0.000	2.575747
119591	3.523129	.5853995	6.02	0.000	2.375723
134537	3.137645	.5406596	5.80	0.000	2.07793
136774	1.817362	.3783592	4.80	0.000	1.075762
141312	-.0991714	.2560463	-0.39	0.699	-.6010323
142718	1.098277	.3135726	3.50	0.000	.483662
142810	3.688855	.6144386	6.00	0.000	2.484531
146530	-.133388	.2576161	-0.52	0.605	-.6383259
156000	1.044861	.3067543	3.41	0.001	.4436106
156614	.6105831	.2801821	2.18	0.029	.0614149

```
1.159751
                159177  |   1.767227   .3467841     5.10   0.000     1.087516
2.446938
                220149  |   1.752454   .3654127     4.80   0.000     1.036231
2.468678
                223202  |    .970011   .2985458     3.25   0.001     .3848494
1.555173
                233174  |   1.483593   .3514623     4.22   0.000     .7947127
2.172473
                236066  |   2.372432   .4258969     5.57   0.000     1.537657
3.207207
                236546  |   2.476706   .4607968     5.37   0.000     1.573526
3.379886
                243215  |    1.41691   .3431029     4.13   0.000     .7444143
2.089405
                387054  |   2.007977   .3892761     5.16   0.000      1.24498
2.770973
                549279  |   1.145492   .3122135     3.67   0.000      .533541
1.757443
                721196  |   .3941435   .2645006     1.49   0.136    -.1242882
.9125753
                        |
          occupation_code |
                     2  |   .1627635   .0432587     3.76   0.000     .0779748
.2475522
                     3  |  -.0026408   .0565021    -0.05   0.963    -.1133873
.1081056
                     4  |   .1784336   .0887996     2.01   0.045     .0043828
.3524845
                     5  |  -.0113474   .0695341    -0.16   0.870    -.1476369
.1249421
                     6  |   -.067507   .0781541    -0.86   0.388    -.2206922
.0856782
                     7  |   -.074395    .093136    -0.80   0.424    -.2569454
.1081553
                     8  |  -.3204938   .0833959    -3.84   0.000    -.4839532
-.1570345
                     9  |  -.2421466   .0559003    -4.33   0.000    -.3517134
-.1325797
                    10  |  -.0529071   .0857324    -0.62   0.537    -.2209461
 .1151318
                    11  |  -.2731309   .0429657    -6.36   0.000    -.3573454
-.1889164
                    12  |   -.540846    .065654    -8.24   0.000    -.6695306
-.4121615
                    13  |  -.6100153   .0727643    -8.38   0.000    -.7526363
-.4673944
                    14  |  -.3786507   .0848752    -4.46   0.000    -.5450095
```

```
  -.212292
                      15  |   .1585582   .0550448     2.88   0.004     .0506682
   .2664483
                      16  |  -.1648294    .048804    -3.38   0.001    -.2604872
  -.0691715
                      17  |  -.1057536   .0491054    -2.15   0.031    -.2020022
   -.009505
                      18  |  -.3043822   .0394965    -7.71   0.000    -.3817969
  -.2269675
                      19  |  -.6630565   .0598328   -11.08   0.000    -.7803311
  -.5457819
                      20  |  -.5128981   .0789286    -6.50   0.000    -.6676014
  -.3581949
                      21  |   .1625108   .4378393     0.37   0.711    -.6956716
   1.020693
                      22  |  -.6935297   .0565668   -12.26   0.000    -.8044029
  -.5826566
                      23  |  -.2857499   .0390316    -7.32   0.000    -.3622535
  -.2092463
                      24  |  -.2165504   .0377768    -5.73   0.000    -.2905945
  -.1425064
                      25  |  -.2736769   .0763047    -3.59   0.000    -.4232372
  -.1241166
                      26  |   .0498074   .0444761     1.12   0.263    -.0373676
   .1369823
                      27  |  -.0092909   .0521916    -0.18   0.859    -.1115885
   .0930068
                      28  |  -.0629672   .0717315    -0.88   0.380    -.2035638
   .0776293
                      29  |  -.3609987   .1176791    -3.07   0.002    -.5916545
   -.130343
                      30  |  -.0481968   .0484672    -0.99   0.320    -.1431945
   .0468009
                      31  |  -.2294782   .0459122    -5.00   0.000    -.3194679
  -.1394884
                      32  |   .3380557   .0719403     4.70   0.000     .1970497
   .4790617
                      33  |  -.8026201   .2147311    -3.74   0.000    -1.223502
  -.3817385
                          |
                   _cons  |  -14.46805   3.617223    -4.00   0.000    -21.55795
  -7.378149
------------------------------------------------------------------------------
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.
.
.
```

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. * Table 3: Additional test with “blurred” categorical color line - Pooled OLS
regression results*
. * model 1
. reg  lntotincadj lightblack medblack darkblack deviation_ht female age hsgrad
health weightpd i.marital_status  lnasvab_score lntotspincadj msa   biores_dad_hs
biores_mom_hs
> fedminwageadj recession i.year  i.state3 i.occupation_code    if race_eth !=2 &
race_eth !=3 & color!=.& stateofresid!=., robust
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =     31,356
                                                F(113, 31242)     =     177.26
                                                Prob > F          =     0.0000
                                                R-squared         =     0.3787
                                                Root MSE          =     1.1643

------------------------------------------------------------------------------
             |               Robust
  lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   lightblack |  -.0942914   .0277847    -3.39   0.001    -.1487506   -.0398322
     medblack |  -.2059294   .0314832    -6.54   0.000    -.2676377   -.1442211
    darkblack |  -.1790706   .0360348    -4.97   0.000    -.2497002    -.108441
 deviation_ht |   .0057267   .0024742     2.31   0.021     .0008772    .0105761
       female |  -.1982218   .0164943   -12.02   0.000    -.2305513   -.1658923
          age |   .1680033   .0051681    32.51   0.000     .1578736    .1781329
       hsgrad |   .3546526   .0239194    14.83   0.000     .3077696    .4015356
       health |   .0458934   .0083373     5.50   0.000     .0295519    .0622349
     weightpd |   .0009292   .0001841     5.05   0.000     .0005684      .00129
              |
 marital_status |
      Married  |   .0639088   .0218818     2.92   0.003     .0210197    .1067979
    Separated  |   -.092972    .089637    -1.04   0.300    -.2686642    .0827202
     Divorced  |   .0023409   .0403108     0.06   0.954    -.0766698    .0813516
      Widowed  |   .0588374   .2002301     0.29   0.769    -.3336217    .4512965
              |
  lnasvab_score |   .0663919   .0106722     6.22   0.000      .045474    .0873098
  lntotspincadj |   .0181101   .0019163     9.45   0.000     .0143541    .0218661
           msa |  -.0167822   .0255753    -0.66   0.512    -.0669108    .0333463
  biores_dad_hs |   .0453204   .0240876     1.88   0.060    -.0018923    .0925331
  biores_mom_hs |  -.0418159   .0248453    -1.68   0.092    -.0905136    .0068818
  fedminwageadj |    2.52301   .5126619     4.92   0.000     1.518172    3.527848
      recession |  -.5766983   .1950501    -2.96   0.003    -.9590042   -.1943924
              |
          year |
          1999  |   .5495162   .1165563     4.71   0.000     .3210611    .7779713
          2000  |    1.31896   .2291948     5.75   0.000     .8697285    1.768191
```

SkintoneOutput_ver3_clean

2001	2.494113	.5157725	4.84	0.000	1.483179	3.505048
2002	2.237425	.3788	5.91	0.000	1.494962	2.979888
2003	2.675632	.4567851	5.86	0.000	1.780315	3.570949
2004	3.102044	.5445742	5.70	0.000	2.034657	4.169431
2005	3.683012	.6486918	5.68	0.000	2.41155	4.954474
2006	4.201529	.7469919	5.62	0.000	2.737395	5.665663
2007	2.690765	.4434249	6.07	0.000	1.821634	3.559895
2008	1.943344	.3846454	5.05	0.000	1.189423	2.697264
2009	0	(omitted)				
2010	-.4638463	.1302384	-3.56	0.000	-.7191188	-.2085739
2011	0	(omitted)				
state3						
4054	-.6635873	.4107845	-1.62	0.106	-1.468741	.1415667
4145	-.6648154	.308018	-2.16	0.031	-1.268543	-.0610878
4360	-.2582271	.2705559	-0.95	0.340	-.7885274	.2720733
4564	-.7875195	.3751954	-2.10	0.036	-1.522917	-.0521216
4715	-.1632094	.2693063	-0.61	0.544	-.6910605	.3646417
5130	-.0369894	.283211	-0.13	0.896	-.5920942	.5181154
5224	-.2340315	.4120132	-0.57	0.570	-1.041594	.5735307
6644	-.449346	.3533634	-1.27	0.204	-1.141952	.2432604
10318	-.2267623	.2625284	-0.86	0.388	-.7413285	.2878039
18699	-.093419	.2712673	-0.34	0.731	-.6251136	.4382757
20164	.0545688	.2712528	0.20	0.841	-.4770975	.5862351
31843	.0427996	.2670393	0.16	0.873	-.480608	.5662072
32126	-.0600445	.2729817	-0.22	0.826	-.5950995	.4750105
38083	-.3083241	.2763842	-1.12	0.265	-.850048	.2333999
38111	-.1444945	.2727864	-0.53	0.596	-.6791667	.3901777
39791	-.0086965	.2561833	-0.03	0.973	-.5108259	.493433
44094	-.2609456	.2586052	-1.01	0.313	-.7678222	.2459309
47500	-.3467097	.261648	-1.33	0.185	-.8595502	.1661307
48050	-.2104052	.2559749	-0.82	0.411	-.7121263	.2913159
49318	-.1696485	.2662738	-0.64	0.524	-.6915557	.3522587
53015	-.0986339	.2565147	-0.38	0.701	-.6014129	.4041451
55268	-.0939707	.2548189	-0.37	0.712	-.5934259	.4054844
63397	-.0678924	.2565601	-0.26	0.791	-.5707604	.4349756
80726	-.102413	.2564265	-0.40	0.690	-.6050192	.4001931
87743	-.2349059	.260439	-0.90	0.367	-.7453768	.275565
91778	-.1449532	.2561264	-0.57	0.571	-.6469712	.3570648
96610	-.2052604	.2544275	-0.81	0.420	-.7039485	.2934277
110109	-.1894463	.2533013	-0.75	0.455	-.685927	.3070343
113427	-.4122702	.2584298	-1.60	0.111	-.918803	.0942626
115223	-.115692	.254774	-0.45	0.650	-.6150592	.3836751
118714	-.091986	.2549496	-0.36	0.718	-.5916973	.4077254
119591	-.2529114	.2565395	-0.99	0.324	-.7557389	.2499162
134537	-.2576545	.2570571	-1.00	0.316	-.7614967	.2461877
136774	-.1637016	.2545578	-0.64	0.520	-.662645	.3352418
141312	-.2399772	.2537488	-0.95	0.344	-.737335	.2573806

SkintoneOutput_ver3_clean

142718	-.2032568	.2540177	-0.80	0.424	-.7011415	.2946279
142810	-.2753933	.258987	-1.06	0.288	-.7830182	.2322316
146530	-.2277895	.255614	-0.89	0.373	-.7288032	.2732242
156000	-.1774548	.253062	-0.70	0.483	-.6734665	.3185569
156614	-.2294728	.2530557	-0.91	0.365	-.725472	.2665265
159177	.1043018	.2558745	0.41	0.684	-.3972225	.6058261
220149	-.104323	.2549563	-0.41	0.682	-.6040475	.3954016
223202	-.1440122	.2532984	-0.57	0.570	-.6404871	.3524627
233174	-.2540335	.2536811	-1.00	0.317	-.7512587	.2431916
236066	-.0734012	.2532025	-0.29	0.772	-.5696883	.422886
236546	-.2659957	.2535158	-1.05	0.294	-.7628969	.2309054
243215	-.2255156	.2526722	-0.89	0.372	-.7207631	.269732
387054	-.0942581	.2532259	-0.37	0.710	-.5905909	.4020748
549279	-.142311	.2527333	-0.56	0.573	-.6376784	.3530564
721196	-.1371767	.2529682	-0.54	0.588	-.6330045	.358651
occupation_code						
2	.1603072	.0433629	3.70	0.000	.0753142	.2453003
3	.0024303	.0565809	0.04	0.966	-.1084706	.1133312
4	.1792768	.0889941	2.01	0.044	.0048448	.3537087
5	-.0165799	.0695338	-0.24	0.812	-.152869	.1197092
6	-.0574601	.0783471	-0.73	0.463	-.2110236	.0961034
7	-.0783187	.0949717	-0.82	0.410	-.2644671	.1078297
8	-.3293638	.0837014	-3.93	0.000	-.4934218	-.1653059
9	-.2484288	.0561263	-4.43	0.000	-.3584386	-.138419
10	-.0374472	.0864174	-0.43	0.665	-.2068286	.1319343
11	-.2790279	.0429753	-6.49	0.000	-.3632613	-.1947945
12	-.5462439	.0658139	-8.30	0.000	-.6752419	-.417246
13	-.6128639	.0726533	-8.44	0.000	-.7552672	-.4704605
14	-.3817345	.0853954	-4.47	0.000	-.5491128	-.2143562
15	.1515328	.0550869	2.75	0.006	.0435604	.2595052
16	-.168145	.0486907	-3.45	0.001	-.2635808	-.0727092
17	-.1129457	.0495014	-2.28	0.023	-.2099705	-.0159209
18	-.3120795	.0396277	-7.88	0.000	-.3897512	-.2344077
19	-.6696698	.0599689	-11.17	0.000	-.7872112	-.5521284
20	-.520484	.0789426	-6.59	0.000	-.6752146	-.3657534
21	.0813824	.4717627	0.17	0.863	-.8432914	1.006056
22	-.7000959	.0566408	-12.36	0.000	-.8111142	-.5890777
23	-.2910957	.0390253	-7.46	0.000	-.3675867	-.2146046
24	-.2230913	.0378578	-5.89	0.000	-.297294	-.1488885
25	-.2806271	.076267	-3.68	0.000	-.4301135	-.1311407
26	.0472907	.0444524	1.06	0.287	-.0398377	.1344191
27	-.0121637	.0521786	-0.23	0.816	-.1144358	.0901084
28	-.0586361	.0720126	-0.81	0.416	-.1997836	.0825115
29	-.3563024	.1163478	-3.06	0.002	-.5843486	-.1282561
30	-.0534783	.0486278	-1.10	0.271	-.1487906	.0418341
31	-.2371831	.0461465	-5.14	0.000	-.327632	-.1467342
32	.3501306	.0714452	4.90	0.000	.2100951	.4901661

```
                           SkintoneOutput_ver3_clean
          33  |  -.8157741   .2134655    -3.82   0.000    -1.234175   -.3973732
              |
       _cons  |  -13.95967   3.623926    -3.85   0.000    -21.06271   -6.856633
------------------------------------------------------------------------------

.
. * model 2
. reg  lntotincadj lightblack##c.deviation_ht medblack##c.deviation_ht
darkblack##c.deviation_ht female age hsgrad health weightpd i.marital_status
lnasvab_score lntotspincadj
> msa   biores_dad_hs biores_mom_hs  fedminwageadj recession i.year  i.state3
i.occupation_code    if race_eth !=2 & race_eth !=3  & color!=. & stateofresid!=.,
robust
note: deviation_ht omitted because of collinearity
note: deviation_ht omitted because of collinearity
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =     31,356
                                                F(116, 31239)     =     173.49
                                                Prob > F          =     0.0000
                                                R-squared         =     0.3790
                                                Root MSE          =     1.1641

------------------------------------------------------------------------------
             |               Robust
        lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95% Conf.
Interval]
-------------------------+----------------------------------------------------
        1.lightblack |  -.0789012   .0294878    -2.68   0.007    -.1366984
-.0211039
        deviation_ht |   .0096514   .0026164     3.69   0.000     .0045231
.0147797
                     |
lightblack#c.deviation_ht |
                   1  |  -.0147295   .0090996    -1.62   0.106    -.0325651
.0031061
                     |
          1.medblack |  -.1953229   .0330008    -5.92   0.000    -.2600057
-.1306401
        deviation_ht |          0  (omitted)
                     |
  medblack#c.deviation_ht |
                   1  |  -.0099833   .0113092    -0.88   0.377    -.0321498
.0121832
                     |
```

1.darkblack	-.1427906	.0369052	-3.87	0.000	-.2151262 -.070455
deviation_ht	0	(omitted)			
darkblack#c.deviation_ht					
1	-.0327466	.0118024	-2.77	0.006	-.0558798 -.0096134
female	-.2004453	.0165076	-12.14	0.000	-.2328009 -.1680897
age	.1680487	.0051784	32.45	0.000	.1578988 .1781986
hsgrad	.3561585	.0239754	14.86	0.000	.3091658 .4031512
health	.0449752	.008349	5.39	0.000	.0286109 .0613395
weightpd	.0009131	.0001839	4.96	0.000	.0005526 .0012736
marital_status					
Married	.0623946	.021898	2.85	0.004	.0194736 .1053156
Separated	-.0961712	.0895778	-1.07	0.283	-.2717473 .0794048
Divorced	.0011478	.0402568	0.03	0.977	-.0777571 .0800528
Widowed	.064657	.1991694	0.32	0.745	-.325723 .455037
lnasvab_score	.0665341	.0106389	6.25	0.000	.0456815 .0873867
lntotspincadj	.0182269	.0019174	9.51	0.000	.0144687 .0219851
msa	-.016899	.0255789	-0.66	0.509	-.0670347 .0332366
biores_dad_hs	.0438371	.0241248	1.82	0.069	-.0034486 .0911227
biores_mom_hs	-.0444115	.0248099	-1.79	0.073	-.09304 .0042169
fedminwageadj	2.521696	.513114	4.91	0.000	1.515972 3.52742
recession	-.5769638	.1952565	-2.95	0.003	-.9596744 -.1942532
year					
1999	.5485411	.1165444	4.71	0.000	.3201094 .7769728
2000	1.317668	.2292774	5.75	0.000	.8682754

```
1.767061
                2001  |   2.492576   .5161624     4.83   0.000     1.480877
3.504275
                2002  |   2.235122   .3790512     5.90   0.000     1.492167
2.978078
                2003  |   2.673164   .4571155     5.85   0.000     1.777199
3.569129
                2004  |   3.099254   .5449938     5.69   0.000     2.031045
4.167464
                2005  |   3.680159   .6491962     5.67   0.000     2.407709
4.95261
                2006  |   4.199401   .7475989     5.62   0.000     2.734077
5.664724
                2007  |   2.688483     .44378     6.06   0.000     1.818657
3.55831
                2008  |   1.942133    .384983     5.04   0.000      1.18755
2.696715
                2009  |          0  (omitted)
                2010  |  -.4637746    .130347    -3.56   0.000    -.7192598
-.2082894
                2011  |          0  (omitted)
                      |
               state3 |
                4054  |  -.6608177   .4095384    -1.61   0.107    -1.463529
.141894
                4145  |  -.6584253    .306924    -2.15   0.032    -1.260009
-.0568419
                4360  |  -.2597829   .2687594    -0.97   0.334    -.7865619
.2669962
                4564  |  -.7973597   .3742135    -2.13   0.033    -1.530833
-.0638863
                4715  |  -.1651528     .26773    -0.62   0.537    -.6899142
.3596086
                5130  |  -.0363393   .2817913    -0.13   0.897    -.5886615
.5159828
                5224  |  -.2317314   .4111031    -0.56   0.573     -1.03751
.574047
                6644  |  -.4508691   .3524569    -1.28   0.201    -1.141699
.2399605
               10318  |  -.2255714   .2609197    -0.86   0.387    -.7369844
.2858417
               18699  |  -.0998224   .2697737    -0.37   0.711    -.6285897
.4289449
               20164  |   .0547693   .2697411     0.20   0.839    -.4739341
.5834727
               31843  |   .0436369   .2653445     0.16   0.869    -.4764489
.5637228
               32126  |  -.0576101   .2711519    -0.21   0.832    -.5890788
```

.4738585					
38083	-.3025539	.2749181	-1.10	0.271	-.8414044
.2362966					
38111	-.1358558	.2713642	-0.50	0.617	-.6677403
.3960288					
39791	-.0098665	.2544351	-0.04	0.969	-.5085693
.4888364					
44094	-.2583231	.2568933	-1.01	0.315	-.7618443
.2451981					
47500	-.3442273	.2599633	-1.32	0.185	-.8537658
.1653112					
48050	-.2061198	.2542346	-0.81	0.418	-.7044297
.2921902					
49318	-.1718703	.2645753	-0.65	0.516	-.6904485
.3467078					
53015	-.0968073	.2547883	-0.38	0.704	-.5962026
.402588					
55268	-.0948955	.2530875	-0.37	0.708	-.5909571
.4011662					
63397	-.0654417	.2548388	-0.26	0.797	-.5649358
.4340525					
80726	-.09802	.2546993	-0.38	0.700	-.5972409
.4012008					
87743	-.2303264	.2588648	-0.89	0.374	-.7377118
.277059					
91778	-.1455471	.254381	-0.57	0.567	-.644144
.3530499					
96610	-.1988326	.2526787	-0.79	0.431	-.694093
.2964277					
110109	-.1890643	.2515282	-0.75	0.452	-.6820696
.303941					
113427	-.4128575	.2566477	-1.61	0.108	-.9158973
.0901823					
115223	-.1140716	.2530185	-0.45	0.652	-.6099979
.3818547					
118714	-.0957603	.2532042	-0.38	0.705	-.5920507
.4005301					
119591	-.2487425	.2549175	-0.98	0.329	-.748391
.2509061					
134537	-.2539777	.2553436	-0.99	0.320	-.7544614
.2465059					
136774	-.1648687	.2528066	-0.65	0.514	-.6603798
.3306424					
141312	-.2404628	.251993	-0.95	0.340	-.734379
.2534535					
142718	-.2000293	.2522768	-0.79	0.428	-.6945019
.2944432					
142810	-.2748601	.2572442	-1.07	0.285	-.7790689

```
.2293487
              146530  |  -.2262263   .2538792    -0.89   0.373    -.7238397
.2713871
              156000  |  -.1758186   .2513156    -0.70   0.484    -.6684073
 .31677
              156614  |  -.2267172   .2513015    -0.90   0.367    -.7192781
.2658437
              159177  |   .1150587    .254134     0.45   0.651    -.3830541
.6131715
              220149  |  -.1067838   .2532131    -0.42   0.673    -.6030915
.389524
              223202  |  -.1421082   .2515692    -0.56   0.572    -.6351939
.3509775
              233174  |  -.2531792   .2519189    -1.01   0.315    -.7469503
.2405919
              236066  |  -.0696941   .2514849    -0.28   0.782    -.5626145
.4232263
              236546  |  -.2641705   .2517801    -1.05   0.294    -.7576695
.2293284
              243215  |  -.2246139   .2508966    -0.90   0.371    -.7163812
.2671534
              387054  |  -.0927431   .2514585    -0.37   0.712    -.5856117
.4001256
              549279  |  -.1423744   .2509862    -0.57   0.571    -.6343172
.3495685
              721196  |  -.1352292   .2512149    -0.54   0.590    -.6276205
.3571621
                      |
       occupation_code |
                    2  |   .1611786   .0433583     3.72   0.000     .0761947
.2461626
                    3  |   .0027287   .0565549     0.05   0.962    -.1081211
.1135786
                    4  |   .1809148   .0886628     2.04   0.041     .0071322
.3546975
                    5  |  -.0138515   .0695497    -0.20   0.842    -.1501717
.1224687
                    6  |  -.0584946   .0784899    -0.75   0.456     -.212338
.0953487
                    7  |  -.0811991   .0949768    -0.85   0.393    -.2673574
.1049592
                    8  |  -.3298164   .0838219    -3.93   0.000    -.4941106
-.1655222
                    9  |  -.2471936   .0560408    -4.41   0.000    -.3570358
-.1373514
                   10  |  -.0345333   .0865036    -0.40   0.690    -.2040838
.1350173
                   11  |  -.2763499   .0429421    -6.44   0.000    -.3605181
```

12	-.5451652	.0658201	-8.28	0.000	-.6741753 -.4161552
13	-.6107292	.0727025	-8.40	0.000	-.753229 -.4682294
14	-.3797821	.0852608	-4.45	0.000	-.5468967 -.2126675
15	.1513202	.0551229	2.75	0.006	.0432772 .2593632
16	-.1663613	.0486665	-3.42	0.001	-.2617496 -.070973
17	-.1086984	.0494327	-2.20	0.028	-.2055886 -.0118082
18	-.3095991	.0396044	-7.82	0.000	-.3872253 -.2319728
19	-.6678608	.0599403	-11.14	0.000	-.7853462 -.5503753
20	-.5182225	.0788941	-6.57	0.000	-.6728581 -.3635869
21	.0978581	.4733802	0.21	0.836	-.8299861 1.025702
22	-.695555	.0566338	-12.28	0.000	-.8065594 -.5845505
23	-.2899723	.0389999	-7.44	0.000	-.3664137 -.213531
24	-.2210624	.0378419	-5.84	0.000	-.2952341 -.1468906
25	-.2802048	.0762836	-3.67	0.000	-.4297238 -.1306858
26	.048778	.0444444	1.10	0.272	-.0383348 .1358908
27	-.0107032	.0521459	-0.21	0.837	-.1129112 .0915047
28	-.0593893	.0720636	-0.82	0.410	-.2006369 .0818583
29	-.35717	.1165818	-3.06	0.002	-.5856751 -.128665
30	-.0524995	.0486092	-1.08	0.280	-.1477755 .0427765
31	-.2336978	.0461123	-5.07	0.000	-.3240797 -.1433158
32	.3493681	.0714607	4.89	0.000	.2093022 .4894339
33	-.8194517	.2134599	-3.84	0.000	-1.237842 -.4010618
_cons	-13.95065	3.626625	-3.85	0.000	-21.05898 -6.842316

```
--------------------------------------------------------------------------------
--------

.
. * model 3
. reg  lntotincadj lightblack##c.deviation_ht##female
medblack##c.deviation_ht##female darkblack##c.deviation_ht##female age hsgrad
health weightpd i.marital_status  lnasvab_sco
> re lntotspincadj msa   biores_dad_hs biores_mom_hs  fedminwageadj recession
i.year  i.state3 i.occupation_code    if race_eth !=2 & race_eth !=3  & color!=. &
stateofresid!=.,
>  robust
note: deviation_ht omitted because of collinearity
note: deviation_ht omitted because of collinearity
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =     31,356
                                                F(123, 31232)     =     165.60
                                                Prob > F          =     0.0000
                                                R-squared         =     0.3794
                                                Root MSE          =     1.1639

------------------------------------------------------------------------------
---------------
                             |               Robust
                 lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95%
Conf. Interval]
-----------------------------+------------------------------------------------
---------------
                1.lightblack |  -.0820674   .0524233    -1.57   0.117
-.1848192    .0206845
                deviation_ht |   .0156013   .0035042     4.45   0.000
.008733    .0224696
                             |
       lightblack#c.deviation_ht |
                           1  |  -.0387813   .0151295    -2.56   0.010
-.0684358   -.0091267
                             |
                    1.female |  -.1968999   .0189329   -10.40   0.000
-.2340092   -.1597905
                             |
            lightblack#female |
                         1 1 |   .0130928   .0617993     0.21   0.832
-.1080363    .1342219
                             |
           female#c.deviation_ht |
                           1  |  -.0135173   .0049396    -2.74   0.006
```

```
-.0231992   -.0038355
                                |
lightblack#female#c.deviation_ht |
                           1 1  |   .0485933   .0184164     2.64   0.008
.0124964    .0846903
                                |
                     1.medblack |  -.2185189    .047628    -4.59   0.000
-.3118717   -.1251661
                   deviation_ht |          0  (omitted)
                                |
         medblack#c.deviation_ht |
                             1  |  -.0272577   .0143126    -1.90   0.057
-.055311    .0007956
                                |
                 medblack#female |
                           1 1  |   .0428454   .0644686     0.66   0.506
-.0835157    .1692065
                                |
  medblack#female#c.deviation_ht |
                           1 1  |   .0421201   .0229827     1.83   0.067
-.0029269    .0871671
                                |
                    1.darkblack |  -.1399237   .0539281    -2.59   0.009
-.2456249   -.0342224
                   deviation_ht |          0  (omitted)
                                |
        darkblack#c.deviation_ht |
                             1  |  -.0436732   .0169156    -2.58   0.010
-.0768284    -.010518
                                |
                darkblack#female |
                           1 1  |  -.0001874   .0722618    -0.00   0.998
-.1418234    .1414486
                                |
 darkblack#female#c.deviation_ht |
                           1 1  |   .0237013   .0239323     0.99   0.322
-.023207    .0706096
                                |
                            age |   .1687258   .0051736    32.61   0.000
.1585853    .1788664
                         hsgrad |   .3570647   .0239801    14.89   0.000
.3100628    .4040666
                         health |   .0443091   .0083715     5.29   0.000
.0279008    .0607175
                       weightpd |   .0008701   .0001843     4.72   0.000
.000509    .0012313
                                |
                  marital_status |
```

```
                  Married  |   .0618271   .0219293     2.82   0.005
.0188448    .1048093
                Separated  |  -.1004132   .0894816    -1.12   0.262
-.2758008    .0749744
                 Divorced  |   .0000762   .0401054     0.00   0.998
-.0785319    .0786844
                  Widowed  |   .0667982   .1936889     0.34   0.730
-.3128399    .4464362
                           |
                lnasvab_score |   .0662586   .0106244     6.24   0.000
.0454344    .0870828
                lntotspincadj |   .0184536   .0019196     9.61   0.000
.014691    .0222161
                       msa |  -.0189311   .0255533    -0.74   0.459
-.0690165    .0311544
                biores_dad_hs |   .0434036   .0242608     1.79   0.074
-.0041485    .0909556
                biores_mom_hs |  -.0429889   .0247728    -1.74   0.083
-.0915446    .0055669
                fedminwageadj |   2.470725   .5133239     4.81   0.000
1.46459    3.476861
                    recession |  -.5577631   .1953315    -2.86   0.004
-.9406206   -.1749057
                           |
                         year |
                         1999  |   .5407702   .1166179     4.64   0.000
.3121945     .769346
                         2000  |   1.297104   .2293152     5.66   0.000
.8476374    1.746571
                         2001  |   2.442659   .5163952     4.73   0.000
1.430504    3.454814
                         2002  |   2.198756   .3792709     5.80   0.000
1.45537    2.942142
                         2003  |   2.629024   .4572683     5.75   0.000
1.73276    3.525289
                         2004  |   3.046194   .5452662     5.59   0.000
1.977451    4.114938
                         2005  |   3.616234   .6495273     5.57   0.000
2.343135    4.889334
                         2006  |   4.125112   .7479567     5.52   0.000
2.659087    5.591137
                         2007  |   2.644886   .4439812     5.96   0.000
1.774665    3.515107
                         2008  |   1.904004   .3852007     4.94   0.000
1.148995    2.659013
                         2009  |          0  (omitted)
                         2010  |  -.4513738   .1303275    -3.46   0.001
-.7068209   -.1959267
```

```
                      SkintoneOutput_ver3_clean
                2011  |          0  (omitted)
                      |
             state3   |
                4054  |  -.6471172   .4122826    -1.57   0.117
-1.455208    .1609731
                4145  |  -.6372963   .3105104    -2.05   0.040
-1.245909   -.0286836
                4360  |  -.2438011   .2730758    -0.89   0.372
-.7790405    .2914383
                4564  |   -.781676   .3756605    -2.08   0.037
-1.517986   -.0453665
                4715  |  -.1466714   .2722802    -0.54   0.590
-.6803515    .3870087
                5130  |  -.0134767   .2858547    -0.05   0.962
-.5737634      .54681
                5224  |  -.2225643   .4141146    -0.54   0.591
-1.034245    .5891169
                6644  |  -.4114492   .3549612    -1.16   0.246
-1.107187    .2842889
               10318  |  -.2148087   .2654466    -0.81   0.418
-.7350947    .3054773
               18699  |  -.0777278   .2743645    -0.28   0.777
-.6154932    .4600377
               20164  |   .0625994    .273945     0.23   0.819
-.4743438    .5995425
               31843  |    .049359   .2697381     0.18   0.855
-.4793385    .5780565
               32126  |  -.0370247   .2749794    -0.13   0.893
-.5759954    .5019459
               38083  |   -.285353   .2790287    -1.02   0.306
-.8322603    .2615544
               38111  |  -.0938127   .2760049    -0.34   0.734
-.6347934    .4471681
               39791  |   .0060912   .2590309     0.02   0.981
-.5016197     .513802
               44094  |  -.2398682   .2614063    -0.92   0.359
-.7522351    .2724987
               47500  |  -.3207741   .2644477    -1.21   0.225
-.8391021    .1975539
               48050  |   -.182836   .2587055    -0.71   0.480
-.6899092    .3242372
               49318  |  -.1530557   .2689332    -0.57   0.569
-.6801755    .3740641
               53015  |  -.0790943   .2593009    -0.31   0.760
-.5873344    .4291459
               55268  |  -.0771989   .2577661    -0.30   0.765
-.5824306    .4280329
               63397  |  -.0471541   .2594286    -0.18   0.856
```

80726	-.0779103	.2592216	-0.30	0.764
87743	-.2166442	.263531	-0.82	0.411
91778	-.124955	.2589675	-0.48	0.629
96610	-.1816522	.2572	-0.71	0.480
110109	-.177201	.2561051	-0.69	0.489
113427	-.398406	.2612324	-1.53	0.127
115223	-.0983767	.2576501	-0.38	0.703
118714	-.0767669	.2578924	-0.30	0.766
119591	-.232046	.2593803	-0.89	0.371
134537	-.2307169	.2598932	-0.89	0.375
136774	-.1461319	.2574149	-0.57	0.570
141312	-.2179929	.2565855	-0.85	0.396
142718	-.1840389	.2568993	-0.72	0.474
142810	-.2568741	.2616547	-0.98	0.326
146530	-.2087551	.2584514	-0.81	0.419
156000	-.1609111	.2559113	-0.63	0.529
156614	-.2047531	.2559227	-0.80	0.424
159177	.1294436	.2587725	0.50	0.617
220149	-.0880644	.2577902	-0.34	0.733
223202	-.1241399	.2562492	-0.48	0.628
233174	-.2357093	.2565521	-0.92	0.358
236066	-.0494985	.256049	-0.19	0.847
236546	-.2483942	.2564165	-0.97	0.333
243215	-.2052337	.255521	-0.80	0.422

```
-.7060652    .2955977
                        387054  |   -.077226   .2560361    -0.30   0.763
-.5790669    .4246149
                        549279  |  -.1248967   .2557178    -0.49   0.625
-.6261138    .3763205
                        721196  |  -.1188176   .2558202    -0.46   0.642
-.6202355    .3826003
                                |
                occupation_code |
                             2  |   .1626096   .0433845     3.75   0.000
.0775742    .2476451
                             3  |   .0025611   .0566048     0.05   0.964
-.1083866    .1135087
                             4  |   .1808468   .0885695     2.04   0.041
.0072471    .3544466
                             5  |  -.0073021   .0699344    -0.10   0.917
-.1443762    .1297721
                             6  |  -.0591751   .0782497    -0.76   0.450
-.2125476    .0941974
                             7  |  -.0784114   .0951522    -0.82   0.410
-.2649134    .1080907
                             8  |  -.3300763   .0838616    -3.94   0.000
-.4944484   -.1657041
                             9  |   -.243562   .0559939    -4.35   0.000
-.3533123   -.1338117
                            10  |  -.0337554   .0865652    -0.39   0.697
-.2034265    .1359158
                            11  |  -.2761763   .0430011    -6.42   0.000
-.3604601   -.1918924
                            12  |  -.5435874   .0656803    -8.28   0.000
-.6723234   -.4148514
                            13  |  -.6070146   .0727032    -8.35   0.000
-.7495157   -.4645135
                            14  |  -.3706307   .0854396    -4.34   0.000
-.5380958   -.2031657
                            15  |   .1565247   .0551352     2.84   0.005
.0484575    .2645919
                            16  |    -.16253   .0489086    -3.32   0.001
-.2583928   -.0666672
                            17  |  -.1022634   .0493837    -2.07   0.038
-.1990574   -.0054694
                            18  |  -.3052816   .0395781    -7.71   0.000
-.3828563    -.227707
                            19  |  -.6645373   .0599476   -11.09   0.000
-.7820371   -.5470376
                            20  |  -.5170928   .0790897    -6.54   0.000
-.6721117   -.3620739
                            21  |   .0929492   .4606104     0.20   0.840
```

```
                            SkintoneOutput_ver3_clean
-.8098656     .995764
                         22 |  -.6937502    .056668   -12.24   0.000
-.8048217   -.5826787
                         23 |   -.287184   .0390836    -7.35   0.000
-.3637895   -.2105785
                         24 |  -.2171492   .0378824    -5.73   0.000
-.2914003   -.1428981
                         25 |  -.2774869   .0765428    -3.63   0.000
-.4275139   -.1274599
                         26 |   .0478368   .0445105     1.07   0.283
-.0394055    .1350791
                         27 |  -.0090789   .0522713    -0.17   0.862
-.1115328    .0933749
                         28 |   -.056615   .0718797    -0.79   0.431
-.197502    .0842721
                         29 |  -.3582881   .1168432    -3.07   0.002
-.5873055   -.1292708
                         30 |  -.0520296    .048585    -1.07   0.284
-.1472581    .0431989
                         31 |  -.2292017   .0460173    -4.98   0.000
-.3193974    -.139006
                         32 |   .3440232   .0717138     4.80   0.000
.2034612    .4845852
                         33 |  -.8198666   .2139973    -3.83   0.000
-1.23931   -.4004234
                            |
                      _cons |  -13.60995   3.628451    -3.75   0.000
-20.72186   -6.498044
------------------------------------------------------------------------------
---------------

.
.
. * Table 4: Sub-group analysis by education, ability, and income*
. * not a high school grad
. reg  lntotincadj c.color##c.deviation_ht##female white age health weightpd
i.marital_status  lnasvab_score lntotspincadj msa   biores_dad_hs biores_mom_hs
fedminwageadj reces
> sion i.year  i.state3 i.occupation_code    if hsgrad==0 & race_eth !=2 & race_eth
!=3 & stateofresid!=., robust
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =      5,289
                                                F(109, 5175)      =          .
                                                Prob > F          =          .
                                                R-squared         =     0.3682
                                                Root MSE          =     1.3752
```

```
------------------------------------------------------------------------------
------------
                             |               Robust
                  lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95%
Conf. Interval]
-----------------------------+------------------------------------------------
------------
                       color |  -.0218918   .0294953    -0.74   0.458    -.0797151
   .0359315
               deviation_ht |   .0076804   .0092055     0.83   0.404    -.0103662
    .025727
                             |
      c.color#c.deviation_ht |  -.0053021   .0031653    -1.68   0.094    -.0115074
   .0009032
                             |
                    1.female |  -.2675743   .0531804    -5.03   0.000    -.3718303
  -.1633182
                             |
             female#c.color |
                          1  |   -.018967   .0176358    -1.08   0.282    -.0535405
   .0156065
                             |
       female#c.deviation_ht |
                          1  |   .0029667   .0133347     0.22   0.824     -.023175
   .0291084
                             |
female#c.color#c.deviation_ht |
                          1  |   .0081938   .0058493     1.40   0.161    -.0032733
    .019661
                             |
                       white |   .1565725   .1903602     0.82   0.411     -.216614
   .5297589
                         age |   .2307438   .0176264    13.09   0.000     .1961887
   .2652989
                      health |   .0152645   .0218984     0.70   0.486    -.0276656
   .0581946
                    weightpd |   .0017886    .000573     3.12   0.002     .0006653
   .0029119
                             |
             marital_status |
                     Married |   .2868933   .0816432     3.51   0.000     .1268381
   .4469485
                   Separated |  -.1120574   .2144665    -0.52   0.601    -.5325023
   .3083875
                    Divorced |  -.0806163    .166142    -0.49   0.628    -.4063249
   .2450922
                     Widowed |   .2750281     .16793     1.64   0.102    -.0541857
```

```
 .6042419
                          |
            lnasvab_score |   .1038567   .0250831     4.14   0.000     .0546833
 .1530302
            lntotspincadj |   .0317121   .0071899     4.41   0.000     .0176168
 .0458074
                      msa |  -.0290685   .0580555    -0.50   0.617    -.1428817
 .0847448
            biores_dad_hs |   .0016181   .0522588     0.03   0.975    -.1008313
 .1040675
            biores_mom_hs |  -.0742106   .0528623    -1.40   0.160    -.1778431
 .0294219
            fedminwageadj |  -3.723737   1.592285    -2.34   0.019    -6.845289
-.6021858
                recession |   1.800405   .6379505     2.82   0.005     .5497528
 3.051058
                          |
                     year |
                    1999  |  -.4633359   .2652459    -1.75   0.081    -.9833299
 .0566582
                    2000  |  -1.171921   .6276631    -1.87   0.062    -2.402406
 .0585642
                    2001  |  -3.509202   1.551589    -2.26   0.024    -6.550972
-.4674325
                    2002  |   -1.92031   1.104425    -1.74   0.082    -4.085449
 .2448298
                    2003  |  -2.398903   1.363006    -1.76   0.078     -5.07097
 .2731646
                    2004  |  -3.191188   1.639575    -1.95   0.052    -6.405448
 .0230707
                    2005  |  -3.889783   1.959753    -1.98   0.047    -7.731727
-.0478396
                    2006  |   -4.63551   2.273047    -2.04   0.041    -9.091642
 -.179377
                    2007  |  -2.478989   1.325911    -1.87   0.062    -5.078335
 .1203566
                    2008  |  -2.653315   1.186056    -2.24   0.025    -4.978487
-.3281436
                    2009  |          0  (omitted)
                    2010  |    1.06077   .4453474     2.38   0.017     .1877007
 1.933839
                    2011  |          0  (omitted)
                          |
                  state3 |
                    4054  |  -.1658822   .7322533    -0.23   0.821    -1.601408
 1.269644
                    4360  |  -.6779857   .7075817    -0.96   0.338    -2.065145
 .7091735
```

4564	-.02344	.2950333	-0.08	0.937	-.6018299 .55495
5130	1.258822	.2898222	4.34	0.000	.6906482 1.826996
5224	-2.385363	.3212532	-7.43	0.000	-3.015155 -1.755571
6644	.0763324	.3175413	0.24	0.810	-.5461826 .6988474
10318	-.9317144	.3648028	-2.55	0.011	-1.646882 -.2165467
18699	-.5090975	.5525059	-0.92	0.357	-1.592242 .5740475
20164	.5854868	.3532576	1.66	0.098	-.1070474 1.278021
31843	-.2942642	.4130462	-0.71	0.476	-1.104009 .5154808
32126	-.1104872	.3117688	-0.35	0.723	-.7216857 .5007113
38083	-.8123312	.4257333	-1.91	0.056	-1.646948 .022286
38111	-.2073059	.4061218	-0.51	0.610	-1.003476 .5888644
39791	.0342214	.2792599	0.12	0.902	-.5132461 .5816888
44094	-.6350692	.2880254	-2.20	0.028	-1.199721 -.0704177
47500	-.7823294	.3357359	-2.33	0.020	-1.440514 -.1241452
48050	-.4776713	.3084058	-1.55	0.121	-1.082277 .1269343
49318	-.4329556	.3212804	-1.35	0.178	-1.062801 .1968897
53015	-.3585346	.3014585	-1.19	0.234	-.9495206 .2324514
55268	-.2648849	.2849248	-0.93	0.353	-.823458 .2936881
63397	-.309887	.2957135	-1.05	0.295	-.8896104 .2698364
80726	-.5516233	.3338574	-1.65	0.099	-1.206125 .1028782
87743	-.2222469	.2989412	-0.74	0.457	-.8082979 .3638041
91778	-.0963924	.2759257	-0.35	0.727	-.6373233 .4445386
96610	-.3746638	.2915804	-1.28	0.199	-.9462846 .1969571
110109	-.3827987	.2758692	-1.39	0.165	-.9236189 .1580215

```
                       SkintoneOutput_ver3_clean
                113427  |  -.4497656   .3097966    -1.45   0.147    -1.057098
 .1575666
                115223  |  -.3037728   .2829319    -1.07   0.283     -.858439
 .2508933
                118714  |  -.3571002   .2994931    -1.19   0.233    -.9442333
 .2300328
                119591  |  -.3195695   .2997965    -1.07   0.286    -.9072973
 .2681582
                134537  |  -.3963091   .3535277    -1.12   0.262    -1.089373
 .2967546
                136774  |  -.2922292   .2823685    -1.03   0.301    -.8457907
 .2613323
                141312  |  -.5501856   .2806333    -1.96   0.050    -1.100346
-.0000257
                142718  |  -.3719243   .2776276    -1.34   0.180    -.9161917
 .1723431
                142810  |  -.7215683   .2967034    -2.43   0.015    -1.303232
-.1399042
                146530  |     -.4214   .2914437    -1.45   0.148    -.9927527
 .1499528
                156000  |  -.3423814   .2737852    -1.25   0.211    -.8791161
 .1943533
                156614  |  -.5162359   .2721079    -1.90   0.058    -1.049682
 .0172106
                159177  |  -.1195662   .3309794    -0.36   0.718    -.7684258
 .5292933
                220149  |  -.4218576   .2899535    -1.45   0.146    -.9902891
 .1465739
                223202  |  -.3083036   .2767416    -1.11   0.265    -.8508341
 .2342269
                233174  |  -.4812794   .2879622    -1.67   0.095    -1.045807
 .0832482
                236066  |  -.2942579   .2743906    -1.07   0.284    -.8321794
 .2436636
                236546  |   -.661304   .2887562    -2.29   0.022    -1.227388
-.0952199
                243215  |  -.5833742   .2763453    -2.11   0.035    -1.125128
-.0416206
                387054  |  -.5094418    .277273    -1.84   0.066    -1.053014
 .0341303
                549279  |  -.5522997   .2782545    -1.98   0.047    -1.097796
-.0068033
                721196  |  -.8437996   .3032599    -2.78   0.005    -1.438317
 -.249282
                        |
          occupation_code |
                     2  |   .0834214   .6450243     0.13   0.897    -1.181099
 1.347942
```

3	-.528919	.5356603	-0.99	0.323	-1.579039 .5212015
4	.0658309	.2816981	0.23	0.815	-.4864165 .6180782
5	-.4294062	.3608482	-1.19	0.234	-1.136821 .2780086
6	1.610439	.2908992	5.54	0.000	1.040154 2.180724
7	.4385002	.4861531	0.90	0.367	-.5145653 1.391566
8	1.095229	.2883772	3.80	0.000	.5298876 1.66057
9	-.1706799	.383853	-0.44	0.657	-.9231939 .581834
10	.8718603	.2992421	2.91	0.004	.2852194 1.458501
11	.0245524	.2896189	0.08	0.932	-.543223 .5923278
12	-.3227033	.3311378	-0.97	0.330	-.9718732 .3264667
13	-.4699955	.2943173	-1.60	0.110	-1.046982 .1069907
14	-.4187317	.4134282	-1.01	0.311	-1.229226 .3917623
15	.6938245	.2929716	2.37	0.018	.1194764 1.268173
16	.2469362	.2674934	0.92	0.356	-.2774638 .7713362
17	.0298317	.2749813	0.11	0.914	-.5092479 .5689112
18	.0512733	.2348557	0.22	0.827	-.4091431 .5116897
19	-.2244476	.2478119	-0.91	0.365	-.7102636 .2613684
20	-.2051333	.2643156	-0.78	0.438	-.7233036 .3130369
21	1.4508	.2800718	5.18	0.000	.9017407 1.999859
22	-.4601938	.2752693	-1.67	0.095	-.999838 .0794503
23	.07483	.2376223	0.31	0.753	-.39101 .5406701
24	.1245871	.2391955	0.52	0.602	-.3443372 .5935115
25	.1592651	.2566864	0.62	0.535	-.3439488 .6624789
26	.4863657	.2411104	2.02	0.044	.0136875 .9590439

```
                           SkintoneOutput_ver3_clean
                        27  |   .2000626   .2703705     0.74   0.459    -.3299778
    .730103
                        28  |   .2480935   .2933017     0.85   0.398    -.3269018
   .8230888
                        29  |  -.0910393     .34082    -0.27   0.789    -.7591905
   .5771119
                        30  |   .2725844   .2439346     1.12   0.264    -.2056304
   .7507992
                        31  |   .0337942   .2419744     0.14   0.889    -.4405779
   .5081663
                        32  |   1.168986   .4547683     2.57   0.010     .2774481
   2.060524
                        33  |   .2172253   .5290357     0.41   0.681    -.8199082
   1.254359
                            |
                     _cons  |   28.81814   11.10753     2.59   0.010     7.042683
    50.5936
------------------------------------------------------------------------------
------------

.
. * high school grad
. reg  lntotincadj c.color##c.deviation_ht##female white age health weightpd
i.marital_status  lnasvab_score lntotspincadj msa   biores_dad_hs biores_mom_hs
fedminwageadj reces
> sion i.year  i.state3 i.occupation_code    if hsgrad==1 & race_eth !=2 & race_eth
!=3 & stateofresid!=., robust
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =     26,067
                                                F(115, 25951)     =     115.17
                                                Prob > F          =     0.0000
                                                R-squared         =     0.3090
                                                Root MSE          =     1.1106

------------------------------------------------------------------------------
------------
                            |               Robust
                 lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95%
Conf. Interval]
----------------------------+-------------------------------------------------
------------
                      color |  -.0155547   .0093592    -1.66   0.097    -.0338992
   .0027898
                deviation_ht |   .0157293   .0037593     4.18   0.000     .0083609
   .0230976
                            |
```

c.color#c.deviation_ht	-.0057513	.0015846	-3.63	0.000	-.0088572 -.0026454
1.female	-.1763735	.01987	-8.88	0.000	-.2153197 -.1374273
female#c.color					
1	.0036393	.006628	0.55	0.583	-.0093519 .0166306
female#c.deviation_ht					
1	-.0143108	.0052797	-2.71	0.007	-.0246593 -.0039623
female#c.color#c.deviation_ht					
1	.0049925	.0022547	2.21	0.027	.0005731 .0094119
white	.0073149	.0563163	0.13	0.897	-.1030681 .1176979
age	.1553217	.0053913	28.81	0.000	.1447544 .165889
health	.0563249	.0089105	6.32	0.000	.0388599 .0737899
weightpd	.0008007	.0001929	4.15	0.000	.0004226 .0011787
marital_status					
Married	.0481222	.0223557	2.15	0.031	.0043039 .0919406
Separated	-.0951988	.095575	-1.00	0.319	-.282531 .0921334
Divorced	.0162872	.0390102	0.42	0.676	-.0601749 .0927493
Widowed	.0841276	.3108707	0.27	0.787	-.5251961 .6934514
lnasvab_score	.0534949	.011468	4.66	0.000	.031017 .0759727
lntotspincadj	.0175208	.0019447	9.01	0.000	.0137092 .0213325
msa	.0075001	.0286815	0.26	0.794	-.0487173 .0637175
biores_dad_hs	.0723211	.0272208	2.66	0.008	.0189668 .1256753
biores_mom_hs	-.0180664	.0273771	-0.66	0.509	-.0717271 .0355942
fedminwageadj	3.009786	.6931677	4.34	0.000	1.651138

```
 4.368433
                recession |  -.7793027   .2547189    -3.06   0.002    -1.278566
-.2800395
                          |
                     year |
                     1999 |   .6249392   .1848093     3.38   0.001     .2627026
 .9871758
                     2000 |    1.51178   .3346088     4.52   0.000     .8559284
 2.167632
                     2001 |   2.957011   .7135551     4.14   0.000     1.558403
 4.355618
                     2002 |    2.48437   .5340459     4.65   0.000      1.43761
 3.531129
                     2003 |   2.999114   .6366224     4.71   0.000     1.751299
 4.246929
                     2004 |   3.530696   .7530091     4.69   0.000     2.054756
 5.006635
                     2005 |    4.22057    .893016     4.73   0.000     2.470209
 5.970931
                     2006 |   4.845965   1.023845     4.73   0.000     2.839172
 6.852759
                     2007 |   3.056912   .6117069     5.00   0.000     1.857932
 4.255891
                     2008 |     2.2911   .5218112     4.39   0.000     1.268321
 3.313879
                     2009 |          0  (omitted)
                     2010 |  -.5916514   .1681477    -3.52   0.000    -.9212302
-.2620725
                     2011 |          0  (omitted)
                          |
                   state3 |
                     4054 |  -.5852548   .4776149    -1.23   0.220    -1.521407
  .350897
                     4145 |  -.5401442   .3774187    -1.43   0.152    -1.279906
 .1996174
                     4360 |  -.1443168   .3450736    -0.42   0.676    -.8206802
 .5320466
                     4564 |  -.7506456   .4388855    -1.71   0.087    -1.610885
 .1095942
                     4715 |  -.0412691    .345084    -0.12   0.905    -.7176529
 .6351148
                     5130 |   .0288494   .3509059     0.08   0.934    -.6589456
 .7166444
                     5224 |    -.07871   .4680841    -0.17   0.866    -.9961807
 .8387607
                     6644 |  -.3377942   .4158639    -0.81   0.417    -1.152911
 .4773221
                    10318 |  -.1179344   .3398409    -0.35   0.729    -.7840415
```

.5481726					
18699	-.0009593	.3465602	-0.00	0.998	-.6802365
.6783178					
20164	.0188687	.3466041	0.05	0.957	-.6604944
.6982319					
31843	.1404674	.3424798	0.41	0.682	-.5308121
.8117469					
32126	-.0280344	.3584926	-0.08	0.938	-.7306998
.674631					
38083	-.1604428	.3517794	-0.46	0.648	-.8499499
.5290643					
38111	-.0533201	.3502724	-0.15	0.879	-.7398734
.6332333					
39791	-.0685164	.3360227	-0.20	0.838	-.7271395
.5901068					
44094	-.1150825	.3383929	-0.34	0.734	-.7783514
.5481864					
47500	-.1843968	.3399882	-0.54	0.588	-.8507926
.481999					
48050	-.0737993	.3346463	-0.22	0.825	-.7297247
.5821261					
49318	-.068041	.3458197	-0.20	0.844	-.7458668
.6097848					
53015	.0115746	.3352344	0.03	0.972	-.6455034
.6686527					
55268	-.0091879	.3343236	-0.03	0.978	-.6644806
.6461048					
63397	.0393619	.335727	0.12	0.907	-.6186816
.6974054					
80726	.0333095	.3341268	0.10	0.921	-.6215974
.6882165					
87743	-.222778	.3404011	-0.65	0.513	-.8899829
.444427					
91778	-.0784323	.3355837	-0.23	0.815	-.736195
.5793305					
96610	-.1148944	.333468	-0.34	0.730	-.7685102
.5387214					
110109	-.0893609	.332927	-0.27	0.788	-.7419163
.5631945					
113427	-.3690492	.3377246	-1.09	0.275	-1.031008
.2929098					
115223	-.03344	.3343391	-0.10	0.920	-.6887631
.6218831					
118714	.0091186	.3338567	0.03	0.978	-.645259
.6634963					
119591	-.1897505	.335262	-0.57	0.571	-.8468826
.4673816					
134537	-.1540393	.334999	-0.46	0.646	-.810656

```
.5025773
                136774  |  -.0986367   .3341319    -0.30   0.768    -.7535538
.5562804
                141312  |  -.1187487   .3331293    -0.36   0.721    -.7717006
.5342032
                142718  |  -.1246593   .3337054    -0.37   0.709    -.7787403
.5294217
                142810  |  -.1199449   .3385288    -0.35   0.723    -.7834802
.5435904
                146530  |  -.1379865   .3349762    -0.41   0.680    -.7945585
.5185854
                156000  |  -.1146522   .3325344    -0.34   0.730    -.7664381
.5371338
                156614  |  -.1285667   .3325693    -0.39   0.699    -.7804209
.5232875
                159177  |   .2077757    .334626     0.62   0.535    -.4481098
.8636612
                220149  |  -.0003092   .3341891    -0.00   0.999    -.6553383
.6547199
                223202  |  -.0502622   .3329122    -0.15   0.880    -.7027885
.6022642
                233174  |  -.1649764   .3330957    -0.50   0.620    -.8178624
.4879096
                236066  |   .0170109   .3325621     0.05   0.959    -.6348293
.6688511
                236546  |   -.139822   .3326874    -0.42   0.674    -.7919077
.5122638
                243215  |  -.0991102   .3321678    -0.30   0.765    -.7501775
.5519571
                387054  |   .0406617   .3326198     0.12   0.903    -.6112915
.6926148
                549279  |  -.0199785   .3322855    -0.06   0.952    -.6712765
.6313196
                721196  |   .0069989   .3322613     0.02   0.983    -.6442518
.6582495
                        |
          occupation_code |
                     2  |   .1634358    .041815     3.91   0.000     .0814761
.2453955
                     3  |   .0308429    .054193     0.57   0.569    -.0753785
.1370642
                     4  |   .1786898   .0899463     1.99   0.047       .00239
.3549896
                     5  |   .0110284   .0708212     0.16   0.876    -.1277851
 .149842
                     6  |  -.0658904   .0779637    -0.85   0.398    -.2187035
.0869228
                     7  |  -.1194244   .0929259    -1.29   0.199    -.3015642
```

.0627155					
8	-.3413942	.0850593	-4.01	0.000	-.5081152
-.1746733					
9	-.2481108	.0552478	-4.49	0.000	-.3563995
-.1398222					
10	-.0570356	.0861989	-0.66	0.508	-.2259903
.1119191					
11	-.2897777	.0424143	-6.83	0.000	-.3729122
-.2066432					
12	-.5390546	.0666353	-8.09	0.000	-.6696634
-.4084457					
13	-.5865181	.0757572	-7.74	0.000	-.7350064
-.4380298					
14	-.3504556	.086081	-4.07	0.000	-.5191791
-.181732					
15	.1492353	.0547839	2.72	0.006	.0418559
.2566148					
16	-.1824745	.0490725	-3.72	0.000	-.2786595
-.0862896					
17	-.0913086	.047716	-1.91	0.056	-.1848345
.0022174					
18	-.335068	.0393962	-8.51	0.000	-.4122867
-.2578492					
19	-.739612	.0687097	-10.76	0.000	-.8742868
-.6049373					
20	-.5337373	.0926643	-5.76	0.000	-.7153645
-.3521102					
21	-.4087621	.4354179	-0.94	0.348	-1.262205
.444681					
22	-.6836362	.0561909	-12.17	0.000	-.7937735
-.5734989					
23	-.3005926	.0390947	-7.69	0.000	-.3772203
-.2239649					
24	-.2345116	.0373106	-6.29	0.000	-.3076425
-.1613808					
25	-.3300745	.0909947	-3.63	0.000	-.5084291
-.1517198					
26	-.0029791	.0459518	-0.06	0.948	-.0930472
.087089					
27	-.0043559	.05199	-0.08	0.933	-.1062593
.0975474					
28	-.0781438	.0691142	-1.13	0.258	-.2136114
.0573239					
29	-.3643504	.127318	-2.86	0.004	-.6139007
-.1148001					
30	-.0818735	.05086	-1.61	0.107	-.181562
.017815					
31	-.2331753	.046405	-5.02	0.000	-.3241318

```
  -.1422189
                         32  |    .320885   .0719872     4.46   0.000     .1797861
   .4619838
                         33  |  -.9154055   .2367395    -3.87   0.000    -1.379428
   -.451383
                             |
                      _cons  |  -16.82641   4.960115    -3.39   0.001    -26.54851
  -7.104311
------------------------------------------------------------------------------
------------

.
. * Dividing the ASVAB score into quartiles
. xtile asvabquart = asvab_score   if race_eth !=2 & race_eth !=3 & lntotincadj !=.
& color !=. & deviation_ht!=. & hsgrad !=.  & health !=.  & lnasvab_score !=. &
lntotspincadj
>  !=. & marital_status !=.  & msa!=. &  stateofresid !=. & occupation_code !=.  &
biores_dad_hs  !=. & biores_mom_hs !=. & weightpd!=. & stateofresid!=., nq(4)

.
. *xtile 1
. reg  lntotincadj c.color##c.deviation_ht##female white age hsgrad health weightpd
i.marital_status  lntotspincadj msa   biores_dad_hs biores_mom_hs  fedminwageadj
recession i.
> year  i.state3 i.occupation_code    if asvabquart==1  & race_eth !=2 & race_eth
!=3 & stateofresid!=., robust
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =      7,844
                                                F(108, 7732)      =          .
                                                Prob > F          =          .
                                                R-squared         =     0.3017
                                                Root MSE          =     1.3286

------------------------------------------------------------------------------
------------
                             |               Robust
                  lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95%
Conf. Interval]
-----------------------------+------------------------------------------------
------------
                       color |   -.017544   .0157728    -1.11   0.266    -.0484631
    .013375
                deviation_ht |   .0199551   .0081355     2.45   0.014     .0040073
   .0359029
                             |
       c.color#c.deviation_ht |  -.0038607    .002066    -1.87   0.062    -.0079106
```

```
   .0001892
                                |
                     1.female |  -.3789799   .0464967    -8.15   0.000    -.4701259
  -.2878339
                                |
                female#c.color |
                             1  |   .0020191   .0110237     0.18   0.855    -.0195904
   .0236285
                                |
           female#c.deviation_ht |
                             1  |   .0032983   .0123302     0.27   0.789    -.0208723
   .0274689
                                |
female#c.color#c.deviation_ht |
                             1  |  -.0008346    .003254    -0.26   0.798    -.0072134
   .0055442
                                |
                         white |    .259977   .1028178     2.53   0.011     .0584263
   .4615276
                           age |   .1354894    .011511    11.77   0.000     .1129248
    .158054
                        hsgrad |   .3922717   .0401526     9.77   0.000     .3135618
   .4709816
                        health |   .0333707   .0170344     1.96   0.050    -.0000213
   .0667627
                      weightpd |   .0015238   .0003967     3.84   0.000     .0007461
   .0023014
                                |
                marital_status |
                       Married  |   .1501753   .0463298     3.24   0.001     .0593564
   .2409943
                     Separated  |   -.138625   .1505698    -0.92   0.357    -.4337825
   .1565325
                      Divorced  |    .107586    .085907     1.25   0.210    -.0608149
   .2759869
                       Widowed  |   -.125104   .3071052    -0.41   0.684    -.7271134
   .4769054
                                |
                 lntotspincadj |    .023792   .0043252     5.50   0.000     .0153134
   .0322707
                           msa |   .0338149   .0575798     0.59   0.557     -.079057
   .1466868
                 biores_dad_hs |   .1127791   .0417736     2.70   0.007     .0308916
   .1946667
                 biores_mom_hs |   .0760468   .0424034     1.79   0.073    -.0070753
   .1591688
                 fedminwageadj |   3.143996   1.224081     2.57   0.010     .7444663
   5.543526
```

```
                    SkintoneOutput_ver3_clean
           recession |  -.8303341   .4645543    -1.79   0.074    -1.740986
.0803181
                     |
                year |
                1999 |   .6520819   .2827577     2.31   0.021     .0978003
1.206363
                2000 |   1.674441   .5505621     3.04   0.002       .59519
2.753692
                2001 |   3.285862   1.235001     2.66   0.008     .8649253
5.706798
                2002 |   2.845234   .9096737     3.13   0.002     1.062027
 4.62844
                2003 |    3.31053   1.095851     3.02   0.003     1.162365
5.458695
                2004 |   3.872919   1.303632     2.97   0.003     1.317448
 6.42839
                2005 |   4.499499     1.5495     2.90   0.004     1.462059
7.536938
                2006 |   5.169765   1.784075     2.90   0.004     1.672494
8.667036
                2007 |   3.217923   1.059542     3.04   0.002     1.140934
5.294912
                2008 |   2.452477   .9189181     2.67   0.008      .651149
4.253806
                2009 |          0  (omitted)
                2010 |  -.6465361   .3121666    -2.07   0.038    -1.258467
-.034605
                2011 |          0  (omitted)
                     |
               state3 |
                4054 |   .4976827    .665138     0.75   0.454    -.8061679
1.801533
                4360 |   .3002564   .7606698     0.39   0.693    -1.190862
1.791375
                4564 |  -.6515058   .5834493    -1.12   0.264    -1.795225
.4922129
                4715 |    .335432    .589389     0.57   0.569    -.8199301
1.490794
                5130 |  -.1802429   .5876945    -0.31   0.759    -1.332283
.9717975
                6644 |  -1.234029   1.426752    -0.86   0.387     -4.03085
1.562791
               10318 |  -.3407013   .7510959    -0.45   0.650    -1.813053
 1.13165
               18699 |   .8811302   .6524899     1.35   0.177    -.3979268
2.160187
               20164 |   .8004212   .6154694     1.30   0.193    -.4060656
2.006908
```

31843	.1779071	.6368362	0.28	0.780	-1.070464 1.426279
32126	.6162695	.6030821	1.02	0.307	-.5659346 1.798474
38083	-.0856977	.6363765	-0.13	0.893	-1.333168 1.161773
38111	.3755572	.6368457	0.59	0.555	-.8728329 1.623947
39791	.4161939	.5890876	0.71	0.480	-.7385774 1.570965
44094	.5368964	.5990366	0.90	0.370	-.6373776 1.71117
47500	.2308704	.5797129	0.40	0.690	-.9055238 1.367265
48050	-.3931697	.6037758	-0.65	0.515	-1.576734 .7903943
49318	.4617831	.6206194	0.74	0.457	-.7547989 1.678365
53015	.6092997	.5847251	1.04	0.297	-.5369199 1.755519
55268	.4489301	.58297	0.77	0.441	-.693849 1.591709
63397	.3672546	.5960294	0.62	0.538	-.8011245 1.535634
80726	.3165591	.6304427	0.50	0.616	-.9192794 1.552398
87743	.3040939	.5854197	0.52	0.603	-.8434873 1.451675
91778	.5611118	.5812403	0.97	0.334	-.5782766 1.7005
96610	.3966427	.5804739	0.68	0.494	-.7412434 1.534529
110109	.1677468	.5816964	0.29	0.773	-.9725358 1.308029
113427	.2552701	.5820712	0.44	0.661	-.885747 1.396287
115223	.3913284	.5804756	0.67	0.500	-.746561 1.529218
118714	.4266824	.5890718	0.72	0.469	-.7280579 1.581423
119591	.3863481	.5830795	0.66	0.508	-.7566457 1.529342
134537	.3250077	.5829661	0.56	0.577	-.8177638 1.467779
136774	.2081023	.5817866	0.36	0.721	-.932357 1.348562
141312	.1365033	.5850463	0.23	0.816	-1.010346 1.283353

SkintoneOutput_ver3_clean

142718	.2066264	.5801754	0.36	0.722	-.9306744 1.343927
142810	.2598892	.5847299	0.44	0.657	-.8863398 1.406118
146530	.3530996	.5820095	0.61	0.544	-.7877967 1.493996
156000	.3052903	.5807797	0.53	0.599	-.8331951 1.443776
156614	.1193066	.5845423	0.20	0.838	-1.026555 1.265168
159177	.8504536	.5841522	1.46	0.145	-.294643 1.99555
220149	.5429792	.5797443	0.94	0.349	-.5934766 1.679435
223202	.2253753	.5799594	0.39	0.698	-.9115021 1.362253
233174	.0392991	.5817743	0.07	0.946	-1.101136 1.179734
236066	.4226607	.5805407	0.73	0.467	-.7153562 1.560678
236546	.1783783	.5797932	0.31	0.758	-.9581735 1.31493
243215	.0630744	.5812885	0.11	0.914	-1.076408 1.202557
387054	.344573	.5813977	0.59	0.553	-.795124 1.48427
549279	.3084029	.5791586	0.53	0.594	-.8269047 1.443711
721196	.4184225	.5796578	0.72	0.470	-.7178637 1.554709
occupation_code					
2	.120347	.1381115	0.87	0.384	-.1503889 .3910829
3	.3021	.1584897	1.91	0.057	-.0085828 .6127828
4	-1.050022	.9015101	-1.16	0.244	-2.817226 .7171817
5	.1908568	.1605041	1.19	0.234	-.1237746 .5054883
8	.2407004	.3103425	0.78	0.438	-.3676549 .8490556
9	-.1450526	.1782742	-0.81	0.416	-.4945184 .2044131
10	.0731741	.2124335	0.34	0.731	-.3432531 .4896014
11	.0228504	.122696	0.19	0.852	-.2176669 .2633677

```
                    12  |  -.2983648   .1586134    -1.88   0.060      -.60929
  .0125604
                    13  |  -.6709129   .2611035    -2.57   0.010    -1.182747
 -.1590793
                    14  |  -.3122964   .3317189    -0.94   0.347    -.9625553
  .3379625
                    15  |   .2201974   .1757213     1.25   0.210    -.1242639
  .5646587
                    16  |   .1229803   .1159524     1.06   0.289    -.1043179
  .3502784
                    17  |  -.0077754   .1224711    -0.06   0.949    -.2478519
  .2323012
                    18  |  -.2891095   .1023325    -2.83   0.005    -.4897089
 -.0885101
                    19  |  -.6423209   .1274955    -5.04   0.000    -.8922467
 -.3923952
                    20  |  -.2761804    .173281    -1.59   0.111    -.6158581
  .0634972
                    21  |  -.5717447   .3061951    -1.87   0.062     -1.17197
  .0284807
                    22  |  -.6793646   .1321739    -5.14   0.000    -.9384612
 -.4202679
                    23  |  -.2841523    .103085    -2.76   0.006    -.4862269
 -.0820777
                    24  |  -.1390716    .102276    -1.36   0.174    -.3395602
   .061417
                    25  |  -.1928612   .1372839    -1.40   0.160    -.4619749
  .0762526
                    26  |  -.0020563   .1098549    -0.02   0.985    -.2174016
  .2132889
                    27  |  -.0357377   .1221532    -0.29   0.770     -.275191
  .2037156
                    28  |  -.0722244    .138144    -0.52   0.601    -.3430241
  .1985752
                    29  |  -.3631109   .1800548    -2.02   0.044    -.7160672
 -.0101547
                    30  |   -.092711   .1133013    -0.82   0.413    -.3148123
  .1293903
                    31  |  -.2710202   .1066351    -2.54   0.011    -.4800538
 -.0619866
                    32  |   .0546317     .33689     0.16   0.871    -.6057639
  .7150274
                    33  |  -.9625382    .402266    -2.39   0.017    -1.751089
 -.1739879
                        |
                  _cons |  -17.99824   8.634059    -2.08   0.037    -34.92334
  -1.07315
------------------------------------------------------------------------------
```

```
------------

.
. *xtile 4
. reg  lntotincadj c.color##c.deviation_ht##female white age hsgrad health weightpd
i.marital_status  lntotspincadj msa   biores_dad_hs biores_mom_hs  fedminwageadj
recession i.
> year  i.state3 i.occupation_code    if asvabquart==4  & race_eth !=2 & race_eth
!=3 & stateofresid!=., robust
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =      7,833
                                                F(115, 7717)      =      79.23
                                                Prob > F          =     0.0000
                                                R-squared         =     0.4742
                                                Root MSE          =     1.0982

------------------------------------------------------------------------------
             |               Robust
  lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       color |  -.0552907   .0214548    -2.58   0.010    -.0973479   -.0132335
deviation_ht |   .0244009   .0075193     3.25   0.001     .0096609    .0391409
             |
c.color#c.deviation_ht |  -.0276046   .0105092    -2.63   0.009    -.0482056   -.0070036
             |
      1.female |  -.0595504   .0350368    -1.70   0.089     -.128232    .0091312
             |
female#c.color |
           1  |   .0251357   .0159286     1.58   0.115    -.0060888    .0563601
             |
female#c.deviation_ht |
           1  |  -.0205401   .0101436    -2.02   0.043    -.0404243   -.0006559
             |
female#c.color#c.deviation_ht |
           1  |     .02451   .0111366     2.20   0.028     .0026793    .0463408
             |
```

```
               white |  -.4434897   .1189579    -3.73   0.000    -.6766795
  -.2103
                 age |   .2148626   .0098894    21.73   0.000     .1954767
.2342484
              hsgrad |   .2381995   .0610694     3.90   0.000     .1184868
.3579121
              health |   .0172735    .016954     1.02   0.308    -.0159609
 .050508
            weightpd |   .0000109   .0003966     0.03   0.978    -.0007666
.0007883
                     |
      marital_status |
             Married |   .0841075   .0442713     1.90   0.057    -.0026763
.1708913
           Separated |  -.2616935   .2679543    -0.98   0.329    -.7869567
.2635697
            Divorced |  -.0853657   .1542663    -0.55   0.580    -.3877694
.2170381
             Widowed |   .2236198   .2070062     1.08   0.280    -.1821686
.6294082
                     |
        lntotspincadj |   .0104297   .0040148     2.60   0.009     .0025595
.0182998
                 msa |  -.0306175   .0506777    -0.60   0.546    -.1299595
.0687245
        biores_dad_hs |  -.0351332   .0599115    -0.59   0.558    -.1525759
.0823096
        biores_mom_hs |  -.1054305   .0674082    -1.56   0.118    -.2375689
.0267079
        fedminwageadj |   1.366114   .9551668     1.43   0.153    -.5062725
  3.2385
            recession |  -.1114105   .3695142    -0.30   0.763    -.8357587
.6129376
                     |
                 year |
                 1999 |   .2523537   .2133066     1.18   0.237    -.1657852
.6704926
                 2000 |    .673653   .4220071     1.60   0.110    -.1535955
1.500902
                 2001 |   1.123401   .9640165     1.17   0.244    -.7663329
3.013135
                 2002 |   1.174456   .7001737     1.68   0.094    -.1980742
2.546987
                 2003 |   1.434527    .846332     1.69   0.090    -.2245138
3.093567
                 2004 |   1.735576   1.008974     1.72   0.085    -.2422875
3.713439
                 2005 |   2.050953   1.205366     1.70   0.089    -.3118917
```

```
 4.413797
                2006  |   2.398677   1.387615     1.73   0.084    -.3214255
 5.118779
                2007  |   1.610574   .8228771     1.96   0.050    -.0024886
 3.223636
                2008  |    1.05558   .7201354     1.47   0.143    -.3560806
 2.467241
                2009  |          0  (omitted)
                2010  |  -.1444553   .2472516    -0.58   0.559    -.6291355
 .3402248
                2011  |          0  (omitted)
                      |
              state3  |
                4054  |  -.6545398    .211366    -3.10   0.002    -1.068875
-.2402049
                4145  |  -.9766277   .2427114    -4.02   0.000    -1.452408
-.5008475
                4360  |  -.3958573   .1555517    -2.54   0.011    -.7007809
-.0909337
                4564  |  -.7114871   .3053233    -2.33   0.020    -1.310004
-.1129707
                4715  |  -.5330156   .2551237    -2.09   0.037    -1.033127
 -.032904
                5130  |  -.3539294   .1661492    -2.13   0.033     -.679627
-.0282317
                5224  |  -.8189103   .5170569    -1.58   0.113    -1.832482
 .1946615
                6644  |  -.7530312   .1508874    -4.99   0.000    -1.048811
-.4572509
               10318  |  -.6069913   .1184907    -5.12   0.000    -.8392653
-.3747173
               18699  |  -.7964697   .1503409    -5.30   0.000    -1.091179
-.5017608
               20164  |  -.4964006   .2399957    -2.07   0.039    -.9668573
 -.025944
               31843  |  -.4740199   .2310845    -2.05   0.040    -.9270082
-.0210317
               32126  |  -.1014238   .2522693    -0.40   0.688    -.5959402
 .3930925
               38083  |   -.581644   .1752107    -3.32   0.001    -.9251045
-.2381835
               38111  |  -.2376462   .1919696    -1.24   0.216    -.6139587
 .1386664
               39791  |  -.1940759   .1071346    -1.81   0.070    -.4040888
 .0159369
               44094  |  -.6447741   .1543733    -4.18   0.000    -.9473877
-.3421605
               47500  |  -.8563568   .2275571    -3.76   0.000     -1.30243
```

-.4102832					
48050	-.4237164	.1454046	-2.91	0.004	-.7087488
-.138684					
49318	-.5245056	.2204592	-2.38	0.017	-.9566655
-.0923457					
53015	-.587158	.1198099	-4.90	0.000	-.8220178
-.3522981					
55268	-.4300524	.1122047	-3.83	0.000	-.650004
-.2101007					
63397	-.4822769	.1205514	-4.00	0.000	-.7185903
-.2459635					
80726	-.409114	.1071042	-3.82	0.000	-.6190673
-.1991607					
87743	-.5650004	.1568945	-3.60	0.000	-.8725561
-.2574446					
91778	-.7359377	.1293865	-5.69	0.000	-.9895704
-.482305					
96610	-.6274594	.1410669	-4.45	0.000	-.9039889
-.3509299					
110109	-.6238983	.1112539	-5.61	0.000	-.841986
-.4058105					
113427	-.4970009	.1662024	-2.99	0.003	-.8228027
-.1711991					
115223	-.5138583	.1280196	-4.01	0.000	-.7648115
-.2629051					
118714	-.5007292	.1099894	-4.55	0.000	-.7163383
-.2851201					
119591	-.6279465	.1552146	-4.05	0.000	-.9322094
-.3236837					
134537	-.5403548	.1156368	-4.67	0.000	-.7670344
-.3136753					
136774	-.411338	.1099535	-3.74	0.000	-.6268767
-.1957992					
141312	-.5855209	.0972147	-6.02	0.000	-.7760881
-.3949537					
142718	-.6750211	.1407938	-4.79	0.000	-.9510152
-.399027					
142810	-.4892308	.1216203	-4.02	0.000	-.7276395
-.2508221					
146530	-.6260245	.1234835	-5.07	0.000	-.8680857
-.3839633					
156000	-.6303756	.0985295	-6.40	0.000	-.8235201
-.4372311					
156614	-.5245007	.0983391	-5.33	0.000	-.717272
-.3317295					
159177	-.4504662	.1305513	-3.45	0.001	-.7063822
-.1945502					
220149	-.6450728	.1264355	-5.10	0.000	-.8929207

```
-.3972248
                223202  |  -.6840273   .1170393    -5.84   0.000    -.9134561
-.4545985
                233174  |  -.6112451   .1011831    -6.04   0.000    -.8095914
-.4128987
                236066  |  -.5012265   .1009043    -4.97   0.000    -.6990262
-.3034267
                236546  |  -.7238829   .1156954    -6.26   0.000    -.9506773
-.4970885
                243215  |  -.5216124   .0976501    -5.34   0.000    -.7130331
-.3301917
                387054  |  -.4469751   .0967677    -4.62   0.000    -.6366661
-.2572842
                549279  |  -.4156502   .0925042    -4.49   0.000    -.5969835
-.2343168
                721196  |  -.5157569   .0956782    -5.39   0.000    -.7033122
-.3282016
                        |
          occupation_code |
                     2  |   .1453914   .0697306     2.09   0.037     .0087005
 .2820823
                     3  |   .0364887   .0935866     0.39   0.697    -.1469663
 .2199438
                     4  |   .2998291   .1113106     2.69   0.007     .0816301
 .5180281
                     5  |  -.0207465   .1310721    -0.16   0.874    -.2776835
 .2361904
                     6  |  -.1774766   .1236306    -1.44   0.151    -.4198262
 .0648729
                     7  |  -.1640671   .1290619    -1.27   0.204    -.4170634
 .0889292
                     8  |  -.3363194   .1095749    -3.07   0.002    -.5511161
-.1215228
                     9  |  -.4003869   .1049754    -3.81   0.000    -.6061672
-.1946065
                    10  |  -.1382404   .1202085    -1.15   0.250    -.3738817
 .0974009
                    11  |  -.4125645   .0707824    -5.83   0.000    -.5513174
-.2738117
                    12  |  -.6700727    .120453    -5.56   0.000    -.9061932
-.4339522
                    13  |  -.4808353   .1197842    -4.01   0.000    -.7156449
-.2460257
                    14  |  -.3037797   .1193897    -2.54   0.011     -.537816
-.0697434
                    15  |   .0108365   .1004205     0.11   0.914    -.1860151
  .207688
                    16  |  -.2853779   .0932367    -3.06   0.002     -.468147
```

```
  -.1026087
                      17  |  -.2773107   .0986864    -2.81   0.005    -.4707628
  -.0838586
                      18  |   -.157662   .0711449    -2.22   0.027    -.2971254
  -.0181987
                      19  |  -.6623691   .1144768    -5.79   0.000    -.8867747
  -.4379636
                      20  |  -.3103291   .1289117    -2.41   0.016     -.563031
  -.0576271
                      21  |   .6339744   .2022381     3.13   0.002     .2375329
   1.030416
                      22  |   -.720423   .1109111    -6.50   0.000    -.9378389
  -.5030072
                      23  |  -.2137975   .0727007    -2.94   0.003    -.3563106
  -.0712844
                      24  |  -.2727107   .0663483    -4.11   0.000    -.4027714
    -.14265
                      25  |  -.4273444   .2104221    -2.03   0.042    -.8398289
    -.01486
                      26  |  -.0674385   .0861762    -0.78   0.434    -.2363672
   .1014901
                      27  |   .0754883   .0955938     0.79   0.430    -.1119015
   .2628782
                      28  |  -.0285464   .1469201    -0.19   0.846    -.3165496
   .2594569
                      29  |  -.0093459   .2844406    -0.03   0.974    -.5669267
   .5482348
                      30  |   .0167333   .1077531     0.16   0.877     -.194492
   .2279586
                      31  |  -.3240137   .1005804    -3.22   0.001    -.5211785
  -.1268489
                      32  |   .0422533     .13332     0.32   0.751    -.2190901
   .3035967
                      33  |  -.5050546   .2154664    -2.34   0.019    -.9274273
  -.0826819
                          |
                   _cons  |  -4.716003   6.718185    -0.70   0.483    -17.88547
   8.453463
------------------------------------------------------------------------------
------------

.
. *75th percentile of income
. reg  lntotincadj c.color##c.deviation_ht##female white age hsgrad health weightpd
i.marital_status  lnasvab_score lntotspincadj msa   biores_dad_hs biores_mom_hs
fedminwagead
> j recession i.year  i.state3 i.occupation_code    if race_eth !=2 & race_eth !=3
& totincomeadj >=31246.6 & stateofresid!=., robust
```

```
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =      7,828
                                                F(113, 7713)      =          .
                                                Prob > F          =          .
                                                R-squared         =     0.2346
                                                Root MSE          =     .29752

------------------------------------------------------------------------------
             |               Robust
  lntotincadj |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       color |  -.0026019    .004051    -0.64   0.521    -.0105429    .005339
deviation_ht |   .0069499   .0018611     3.73   0.000     .0033017   .0105981
             |
c.color#c.deviation_ht |  -.0016664   .0005496    -3.03   0.002    -.0027438   -.000589
             |
    1.female |  -.0723004   .0105878    -6.83   0.000    -.0930553  -.0515454
             |
female#c.color |
           1 |   .0038825   .0026775     1.45   0.147    -.0013661   .0091312
             |
female#c.deviation_ht |
           1 |  -.0082166   .0026875    -3.06   0.002    -.0134847  -.0029484
             |
female#c.color#c.deviation_ht |
           1 |   .0030414   .0008428     3.61   0.000     .0013894   .0046935
             |
       white |   .0446875   .0262342     1.70   0.089    -.0067387   .0961137
         age |   .0385892   .0027064    14.26   0.000     .0332839   .0438944
      hsgrad |   .0204098   .0153035     1.33   0.182    -.0095892   .0504087
      health |   .0224483   .0042432     5.29   0.000     .0141304   .0307661
    weightpd |  -.0001518   .0000891    -1.70   0.088    -.0003264
```

```
 .0000228
                          |
            marital_status |
                  Married  |   .0716735   .0091303     7.85   0.000     .0537757
 .0895713
                Separated  |   .0253431   .0327136     0.77   0.439    -.0387845
 .0894707
                 Divorced  |  -.0472901   .0181819    -2.60   0.009    -.0829316
-.0116486
                  Widowed  |   .0772838   .0220765     3.50   0.000     .0340078
 .1205598
                          |
             lnasvab_score |   .0205617   .0053286     3.86   0.000     .0101161
 .0310072
             lntotspincadj |  -.0037816   .0008377    -4.51   0.000    -.0054238
-.0021394
                       msa |   .0050756   .0167534     0.30   0.762    -.0277655
 .0379168
             biores_dad_hs |   .0357912   .0118303     3.03   0.002     .0126006
 .0589819
             biores_mom_hs |   .0083184   .0129619     0.64   0.521    -.0170904
 .0337271
             fedminwageadj |  -.2309697   .1084937    -2.13   0.033    -.4436468
-.0182926
                 recession |   .0898077   .0466174     1.93   0.054     -.001575
 .1811905
                          |
                      year |
                     2000  |   .0476439   .0419466     1.14   0.256    -.0345827
 .1298706
                     2001  |  -.1469719   .1035538    -1.42   0.156    -.3499654
 .0560217
                     2002  |  -.1457126   .0719895    -2.02   0.043    -.2868315
-.0045937
                     2003  |  -.1471719   .0879674    -1.67   0.094    -.3196119
 .0252681
                     2004  |  -.1734128   .1071854    -1.62   0.106    -.3835253
 .0366997
                     2005  |  -.2872958    .130265    -2.21   0.027    -.5426505
-.0319411
                     2006  |  -.3251735   .1515176    -2.15   0.032    -.6221891
-.0281579
                     2007  |  -.1757687   .0882468    -1.99   0.046    -.3487564
-.0027811
                     2008  |  -.1873875   .0810749    -2.31   0.021    -.3463163
-.0284587
                     2009  |          0  (omitted)
                     2010  |   .0796968   .0318886     2.50   0.012     .0171864
```

```
 .1422072
                2011  |          0  (omitted)
                      |
              state3  |
                4054  |  -.0417902    .120293    -0.35   0.728    -.2775971
 .1940167
                4145  |  -.3216002   .1225982    -2.62   0.009    -.5619259
-.0812745
                4360  |  -.1138406   .1250014    -0.91   0.362    -.3588772
 .1311961
                4564  |   .0959407   .1756314     0.55   0.585    -.2483445
 .4402258
                4715  |  -.3402153   .1223727    -2.78   0.005    -.5800991
-.1003315
                5130  |  -.0843135   .1459581    -0.58   0.564     -.370431
 .2018039
                5224  |  -.0213647   .1511825    -0.14   0.888    -.3177234
  .274994
                6644  |  -.1013304   .1208382    -0.84   0.402     -.338206
 .1355452
               10318  |  -.0287133   .1285292    -0.22   0.823    -.2806654
 .2232388
               18699  |  -.0253334   .1193723    -0.21   0.832    -.2593356
 .2086687
               20164  |  -.0395228   .1213189    -0.33   0.745    -.2773409
 .1982953
               31843  |  -.0674159   .1139098    -0.59   0.554      -.29071
 .1558782
               32126  |  -.0486528   .1153345    -0.42   0.673    -.2747397
 .1774342
               38083  |  -.1799372   .1120705    -1.61   0.108    -.3996259
 .0397514
               38111  |  -.1831497   .1199426    -1.53   0.127    -.4182698
 .0519703
               39791  |  -.2598863   .1115116    -2.33   0.020    -.4784793
-.0412932
               44094  |   .1286599   .1238797     1.04   0.299    -.1141779
 .3714977
               47500  |  -.2116249   .1108645    -1.91   0.056    -.4289495
 .0056996
               48050  |  -.1027834   .1154042    -0.89   0.373    -.3290069
 .1234402
               49318  |   .0101926   .1140457     0.09   0.929     -.213368
 .2337532
               53015  |  -.1598546   .1138444    -1.40   0.160    -.3830205
 .0633114
               55268  |  -.0934536   .1118588    -0.84   0.403    -.3127272
 .1258201
```

63397	-.1053307	.1126398	-0.94	0.350	-.3261352 .1154739
80726	-.0982861	.1117433	-0.88	0.379	-.3173333 .1207611
87743	-.1174516	.1111258	-1.06	0.291	-.3352883 .1003851
91778	-.1189052	.1090829	-1.09	0.276	-.3327374 .0949269
96610	-.1760478	.110241	-1.60	0.110	-.3921502 .0400545
110109	-.1525205	.1095686	-1.39	0.164	-.3673046 .0622637
113427	-.1565706	.113499	-1.38	0.168	-.3790594 .0659183
115223	-.0739043	.1097232	-0.67	0.501	-.2889915 .1411829
118714	-.0571911	.1090728	-0.52	0.600	-.2710034 .1566212
119591	-.1464989	.1107868	-1.32	0.186	-.3636711 .0706734
134537	-.0782672	.1099072	-0.71	0.476	-.2937151 .1371806
136774	-.1676098	.1095159	-1.53	0.126	-.3822908 .0470711
141312	-.0657076	.109621	-0.60	0.549	-.2805945 .1491792
142718	-.1369972	.1098074	-1.25	0.212	-.3522496 .0782551
142810	-.0920732	.1105023	-0.83	0.405	-.3086877 .1245412
146530	-.1536899	.1097845	-1.40	0.162	-.3688974 .0615175
156000	-.1399423	.1094515	-1.28	0.201	-.3544969 .0746123
156614	-.1487651	.1092308	-1.36	0.173	-.3628872 .065357
159177	-.0175303	.1100474	-0.16	0.873	-.2332532 .1981925
220149	-.059755	.109899	-0.54	0.587	-.275187 .1556769
223202	-.1642952	.1086688	-1.51	0.131	-.3773156 .0487251
233174	.0095739	.1093255	0.09	0.930	-.2047337 .2238815
236066	-.0901548	.1089082	-0.83	0.408	-.3036446 .1233349
236546	-.1760523	.1086667	-1.62	0.105	-.3890686 .0369641

```
                    SkintoneOutput_ver3_clean
              243215  |  -.1598969    .108426    -1.47   0.140    -.3724413
 .0526475
              387054  |   .0004885   .1087499     0.00   0.996    -.2126909
 .2136678
              549279  |  -.0689394   .1086408    -0.63   0.526    -.2819048
  .144026
              721196  |  -.0150256   .1084222    -0.14   0.890    -.2275625
 .1975114
                      |
       occupation_code |
                    2  |   .0110341   .0197856     0.56   0.577    -.0277511
 .0498193
                    3  |    .039453   .0226474     1.74   0.082    -.0049421
  .083848
                    4  |   .1674305   .0268856     6.23   0.000     .1147274
 .2201336
                    5  |  -.1681106   .0286037    -5.88   0.000    -.2241816
-.1120396
                    6  |  -.0795756   .0313585    -2.54   0.011    -.1410468
-.0181044
                    7  |    .019304   .0462656     0.42   0.677    -.0713891
 .1099971
                    8  |  -.1030552   .0351534    -2.93   0.003    -.1719654
-.0341449
                    9  |   -.241406   .0196936   -12.26   0.000    -.2800108
-.2028011
                   10  |   .0838745   .0528572     1.59   0.113      -.01974
  .187489
                   11  |  -.1721174   .0159911   -10.76   0.000    -.2034643
-.1407706
                   12  |  -.1715264   .0443702    -3.87   0.000     -.258504
-.0845488
                   13  |  -.0465051   .0336685    -1.38   0.167    -.1125044
 .0194942
                   14  |  -.0432944   .0391394    -1.11   0.269    -.1200183
 .0334295
                   15  |   .0766438   .0232557     3.30   0.001     .0310564
 .1222312
                   16  |  -.1328123   .0196302    -6.77   0.000    -.1712929
-.0943317
                   17  |  -.0580992    .023542    -2.47   0.014     -.104248
-.0119504
                   18  |  -.1617364    .020308    -7.96   0.000    -.2015456
-.1219271
                   19  |   -.129218    .036352    -3.55   0.000    -.2004779
-.0579582
                   20  |   -.073353   .0899186    -0.82   0.415    -.2496179
  .102912
```

```
                           SkintoneOutput_ver3_clean
                        22  |  -.1834446   .0309876    -5.92   0.000    -.2441887
  -.1227005
                        23  |  -.0511767   .0183963    -2.78   0.005    -.0872385
  -.0151149
                        24  |  -.1731143   .0161651   -10.71   0.000    -.2048022
  -.1414264
                        25  |  -.1499155   .0456979    -3.28   0.001    -.2394959
  -.0603352
                        26  |   -.046418   .0197291    -2.35   0.019    -.0850925
  -.0077435
                        27  |  -.0918028   .0219049    -4.19   0.000    -.1347423
  -.0488632
                        28  |    -.18823   .0333237    -5.65   0.000    -.2535536
  -.1229065
                        29  |  -.2254445   .0802281    -2.81   0.005    -.3827133
  -.0681757
                        30  |    -.11096   .0211769    -5.24   0.000    -.1524724
  -.0694476
                        31  |  -.0918476   .0224651    -4.09   0.000    -.1358852
    -.04781
                        32  |  -.0620537   .0322234    -1.93   0.054    -.1252203
   .0011128
                        33  |  -.1054833   .0456235    -2.31   0.021    -.1949178
  -.0160488
                            |
                      _cons |   11.18028   .7340654    15.23   0.000     9.741315
   12.61925
------------------------------------------------------------------------------
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.
.
.
. * Figures - 1 and 2*
. reg  lntotincadj c.color##c.deviation_ht##female age hsgrad health weightpd
marital2   lnasvab_score lntotspincadj  biores_dad_hs biores_mom_hs  fedminwageadj
recession i.year
>   i.state3 i.occupation_code    if race_eth !=2 & race_eth !=3 & stateofresid!=.,
robust
note: 2009.year omitted because of collinearity
note: 2011.year omitted because of collinearity

Linear regression                               Number of obs     =     31,386
                                                F(111, 31274)     =     182.75
                                                Prob > F          =     0.0000
                                                R-squared         =     0.3792
                                                Root MSE          =     1.1636
```

lntotincadj	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf. Interval]
color	-.0219117	.0046307	-4.73	0.000	-.0309881 -.0128353
deviation_ht	.0151255	.0034796	4.35	0.000	.0083055 .0219456
c.color#c.deviation_ht	-.0055028	.0014193	-3.88	0.000	-.0082846 -.002721
1.female	-.1936312	.0187238	-10.34	0.000	-.2303306 -.1569318
female#c.color					
1	.0006698	.0062314	0.11	0.914	-.011544 .0128836
female#c.deviation_ht					
1	-.0126858	.0048949	-2.59	0.010	-.02228 -.0030917
female#c.color#c.deviation_ht					
1	.0056447	.0020931	2.70	0.007	.0015423 .0097472
age	.1683324	.0051371	32.77	0.000	.1582635 .1784013
hsgrad	.3583304	.0239114	14.99	0.000	.3114631 .4051976
health	.0443571	.0083258	5.33	0.000	.0280381 .0606761
weightpd	.0008965	.0001839	4.88	0.000	.0005361 .0012569
marital2	.0655852	.021317	3.08	0.002	.023803 .1073674
lnasvab_score	.0664538	.010608	6.26	0.000	.0456617 .0872458
lntotspincadj	.0181182	.0018957	9.56	0.000	.0144025 .0218339
biores_dad_hs	.0431506	.0240627	1.79	0.073	-.0040133 .0903144
biores_mom_hs	-.0419094	.0247956	-1.69	0.091	-.0905097 .0066908

```
fedminwageadj |    2.45563   .5109728     4.81   0.000     1.454103
 3.457157
    recession |  -.5533546   .1944597    -2.85   0.004    -.9345033
-.1722058
              |
         year |
         1999 |   .5370103    .116423     4.61   0.000     .3088165
 .7652041
         2000 |   1.288968   .2285923     5.64   0.000     .8409181
 1.737018
         2001 |   2.428696   .5142174     4.72   0.000     1.420809
 3.436582
         2002 |   2.188616   .3777466     5.79   0.000     1.448217
 2.929014
         2003 |   2.616105   .4553776     5.74   0.000     1.723546
 3.508663
         2004 |   3.027795   .5427708     5.58   0.000     1.963942
 4.091647
         2005 |    3.59584   .6464154     5.56   0.000      2.32884
  4.86284
         2006 |    4.10239   .7444799     5.51   0.000     2.643179
   5.5616
         2007 |   2.630569   .4419156     5.95   0.000     1.764397
 3.496741
         2008 |   1.892936   .3833971     4.94   0.000     1.141462
 2.644409
         2009 |          0  (omitted)
         2010 |  -.4482386   .1298582    -3.45   0.001    -.7027658
-.1937114
         2011 |          0  (omitted)
              |
       state3 |
         4054 |  -.6844297   .4053182    -1.69   0.091     -1.47887
 .1100101
         4145 |  -.6821391   .3013295    -2.26   0.024    -1.272757
-.0915212
         4360 |  -.2871387   .2626512    -1.09   0.274    -.8019455
 .2276681
         4564 |  -.8218278   .3684611    -2.23   0.026    -1.544026
-.0996293
         4715 |  -.1907768   .2616855    -0.73   0.466    -.7036908
 .3221373
         5130 |   -.056925   .2759771    -0.21   0.837    -.5978512
 .4840011
         5224 |  -.2700003   .4068974    -0.66   0.507    -1.067536
 .5275349
         6644 |  -.4568274   .3469274    -1.32   0.188    -1.136819
  .223164
```

10318	-.2611965	.2547078	-1.03	0.305	-.7604339 .2380409
18699	-.1372818	.2638192	-0.52	0.603	-.6543779 .3798143
20164	.0105898	.2634389	0.04	0.968	-.5057609 .5269405
31843	.0040191	.2590142	0.02	0.988	-.5036591 .5116973
32126	-.0867887	.265059	-0.33	0.743	-.6063149 .4327375
38083	-.332637	.2685861	-1.24	0.216	-.8590764 .1938024
38111	-.1488736	.2646785	-0.56	0.574	-.667654 .3699068
39791	-.0419661	.2478314	-0.17	0.866	-.5277255 .4437932
44094	-.2763622	.2505445	-1.10	0.270	-.7674394 .214715
47500	-.3604275	.2537068	-1.42	0.155	-.8577029 .1368478
48050	-.222289	.2476448	-0.90	0.369	-.7076827 .2631048
49318	-.1940931	.2581932	-0.75	0.452	-.7001621 .3119759
53015	-.1191307	.2483258	-0.48	0.631	-.6058592 .3675978
55268	-.1256988	.2466554	-0.51	0.610	-.6091533 .3577556
63397	-.0897229	.2483263	-0.36	0.718	-.5764524 .3970066
80726	-.1301428	.2480416	-0.52	0.600	-.6163143 .3560286
87743	-.2612971	.2525745	-1.03	0.301	-.7563532 .233759
91778	-.1704162	.2478279	-0.69	0.492	-.6561689 .3153364
96610	-.2300289	.2460456	-0.93	0.350	-.7122881 .2522303
110109	-.2202326	.2449832	-0.90	0.369	-.7004094 .2599442
113427	-.450442	.250064	-1.80	0.072	-.9405773 .0396933
115223	-.1444661	.2464568	-0.59	0.558	-.6275313 .3385991
118714	-.1211054	.2466495	-0.49	0.623	-.6045482 .3623374
119591	-.2789297	.248218	-1.12	0.261	-.7654469 .2075875

```
                       SkintoneOutput_ver3_clean
                134537  |  -.2756366   .2487947    -1.11   0.268    -.7632841
.2120109
                136774  |  -.1989838   .2462559    -0.81   0.419    -.6816553
.2836876
                141312  |  -.2638732   .2453733    -1.08   0.282    -.7448145
.2170682
                142718  |  -.2278336   .2457106    -0.93   0.354    -.7094361
.2537689
                142810  |  -.2976735   .2507161    -1.19   0.235     -.789087
.1937399
                146530  |  -.2524408   .2472413    -1.02   0.307    -.7370437
 .232162
                156000  |  -.2080145   .2447218    -0.85   0.395    -.6876789
.2716499
                156614  |  -.2562538   .2446778    -1.05   0.295     -.735832
.2233244
                159177  |   .0763288   .2475447     0.31   0.758    -.4088687
.5615263
                220149  |  -.1356103    .246518    -0.55   0.582    -.6187955
.3475748
                223202  |  -.1699713   .2449527    -0.69   0.488    -.6500884
.3101457
                233174  |  -.2838812    .245233    -1.16   0.247    -.7645476
.1967852
                236066  |  -.0968256   .2447936    -0.40   0.692    -.5766307
.3829796
                236546  |  -.2896067   .2451408    -1.18   0.237    -.7700924
.1908789
                243215  |  -.2539875   .2442741    -1.04   0.298    -.7327745
.2247995
                387054  |    -.12226   .2447794    -0.50   0.617    -.6020372
.3575173
                549279  |   -.174173   .2444091    -0.71   0.476    -.6532246
.3048786
                721196  |  -.1614187   .2445057    -0.66   0.509    -.6406595
.3178222
                        |
          occupation_code |
                     2  |   .1627843   .0432364     3.76   0.000     .0780393
.2475294
                     3  |  -.0012472   .0564851    -0.02   0.982    -.1119602
.1094658
                     4  |    .177117   .0888365     1.99   0.046     .0029939
.3512401
                     5  |  -.0077763   .0699084    -0.11   0.911    -.1447995
.1292468
                     6  |  -.0566585   .0783018    -0.72   0.469    -.2101331
.0968161
```

7	-.0834158	.094856	-0.88	0.379	-.2693374 .1025057
8	-.330584	.0837807	-3.95	0.000	-.4947976 -.1663704
9	-.2441474	.055933	-4.37	0.000	-.3537783 -.1345166
10	-.0411785	.0862204	-0.48	0.633	-.2101738 .1278168
11	-.277114	.0428792	-6.46	0.000	-.361159 -.193069
12	-.5424902	.0656192	-8.27	0.000	-.6711063 -.413874
13	-.6091532	.0724912	-8.40	0.000	-.7512388 -.4670675
14	-.3844425	.0848366	-4.53	0.000	-.5507255 -.2181594
15	.1618527	.0548863	2.95	0.003	.0542734 .2694319
16	-.1660534	.0487517	-3.41	0.001	-.2616087 -.0704981
17	-.105743	.0491817	-2.15	0.032	-.2021411 -.0093449
18	-.3064721	.03944	-7.77	0.000	-.383776 -.2291681
19	-.6659671	.05981	-11.13	0.000	-.7831971 -.548737
20	-.5193502	.0791013	-6.57	0.000	-.674392 -.3643084
21	.091941	.4605037	0.20	0.842	-.8106645 .9945466
22	-.6977055	.0566275	-12.32	0.000	-.8086977 -.5867133
23	-.2889468	.0389992	-7.41	0.000	-.3653868 -.2125068
24	-.2196512	.0377914	-5.81	0.000	-.2937237 -.1455786
25	-.2722971	.0762392	-3.57	0.000	-.421729 -.1228652
26	.0492515	.0444059	1.11	0.267	-.0377857 .1362888
27	-.009887	.052114	-0.19	0.850	-.1120325 .0922584
28	-.0621816	.0718181	-0.87	0.387	-.202948 .0785848
29	-.3620738	.1170575	-3.09	0.002	-.5915111 -.1326366
30	-.0497574	.0484189	-1.03	0.304	-.1446605 .0451456

```
                           SkintoneOutput_ver3_clean
                        31  |  -.2303058   .0458493    -5.02   0.000    -.3201723
  -.1404393
                        32  |   .3440687   .0703399     4.89   0.000     .2061997
   .4819376
                        33  |  -.8238551   .2136845    -3.86   0.000    -1.242685
   -.405025
                            |
                     _cons  |  -13.47205   3.612416    -3.73   0.000    -20.55253
  -6.391572
------------------------------------------------------------------------------
------------

.
. * female
. margins, at(deviation_ht= (-24(10)24) color = (2(3)8) female=(1)) plot

Predictive margins                              Number of obs     =     31,386
Model VCE    : Robust

Expression   : Linear prediction, predict()

1._at        : color           =           2
               deviation_ht    =         -24
               female          =           1

2._at        : color           =           2
               deviation_ht    =         -14
               female          =           1

3._at        : color           =           2
               deviation_ht    =          -4
               female          =           1

4._at        : color           =           2
               deviation_ht    =           6
               female          =           1

5._at        : color           =           2
               deviation_ht    =          16
               female          =           1

6._at        : color           =           5
               deviation_ht    =         -24
               female          =           1

7._at        : color           =           5
               deviation_ht    =         -14
               female          =           1
```

```
8._at        : color           =           5
               deviation_ht    =          -4
               female          =           1

9._at        : color           =           5
               deviation_ht    =           6
               female          =           1

10._at       : color           =           5
               deviation_ht    =          16
               female          =           1

11._at       : color           =           8
               deviation_ht    =         -24
               female          =           1

12._at       : color           =           8
               deviation_ht    =         -14
               female          =           1

13._at       : color           =           8
               deviation_ht    =          -4
               female          =           1

14._at       : color           =           8
               deviation_ht    =           6
               female          =           1

15._at       : color           =           8
               deviation_ht    =          16
               female          =           1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         _at |
          1  |   9.146424   .0941825    97.11   0.000     8.961823    9.331025
          2  |   9.173659   .0572076   160.36   0.000      9.06153    9.285788
          3  |   9.200894    .021885   420.42   0.000     9.157998    9.243789
          4  |   9.228128   .0221145   417.29   0.000     9.184783    9.271474
          5  |   9.255363   .0574718   161.04   0.000     9.142716     9.36801
          6  |   9.072482   .1758397    51.60   0.000     8.727829    9.417135
          7  |   9.103974   .1053548    86.41   0.000     8.897474    9.310473
          8  |   9.135465   .0379145   240.95   0.000     9.061151    9.209779
          9  |   9.166957   .0439683   208.49   0.000     9.080777    9.253136
         10  |   9.198448   .1121907    81.99   0.000      8.97855    9.418346
```

```
                          SkintoneOutput_ver3_clean
         11  |    8.99854   .2815685    31.96   0.000     8.446655    9.550426
         12  |   9.034289    .168552    53.60   0.000      8.70392    9.364657
         13  |   9.070037   .0604037   150.16   0.000     8.951643     9.18843
         14  |   9.105785   .0706918   128.81   0.000     8.967226    9.244344
         15  |   9.141533   .1801553    50.74   0.000     8.788421    9.494645
------------------------------------------------------------------------------

  Variables that uniquely identify margins: deviation_ht color

.
. * male
. margins, at(deviation_ht= (-24(10)24) color = (2(3)8) female=(0)) plot

Predictive margins                              Number of obs     =     31,386
Model VCE    : Robust

Expression   : Linear prediction, predict()

1._at        : color           =           2
               deviation_ht    =         -24
               female          =           0

2._at        : color           =           2
               deviation_ht    =         -14
               female          =           0

3._at        : color           =           2
               deviation_ht    =          -4
               female          =           0

4._at        : color           =           2
               deviation_ht    =           6
               female          =           0

5._at        : color           =           2
               deviation_ht    =          16
               female          =           0

6._at        : color           =           5
               deviation_ht    =         -24
               female          =           0

7._at        : color           =           5
               deviation_ht    =         -14
               female          =           0

8._at        : color           =           5
               deviation_ht    =          -4
```

```
              female          =           0

9._at         : color         =           5
              deviation_ht    =           6
              female          =           0

10._at        : color         =           5
              deviation_ht    =          16
              female          =           0

11._at        : color         =           8
              deviation_ht    =         -24
              female          =           0

12._at        : color         =           8
              deviation_ht    =         -14
              female          =           0

13._at        : color         =           8
              deviation_ht    =          -4
              female          =           0

14._at        : color         =           8
              deviation_ht    =           6
              female          =           0

15._at        : color         =           8
              deviation_ht    =          16
              female          =           0

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         _at |
          1  |   9.305203   .0933353    99.70   0.000     9.122262    9.488144
          2  |   9.346401   .0570072   163.95   0.000     9.234665    9.458138
          3  |     9.3876   .0221575   423.68   0.000      9.34417    9.431029
          4  |   9.428798   .0208538   452.14   0.000     9.387924    9.469673
          5  |   9.469997   .0555122   170.59   0.000     9.361191    9.578803
          6  |   9.635672   .1710679    56.33   0.000     9.300372    9.970972
          7  |   9.511786   .1041522    91.33   0.000     9.307643    9.715928
          8  |   9.387899   .0399847   234.79   0.000     9.309527     9.46627
          9  |   9.264012   .0389554   237.81   0.000     9.187658    9.340366
         10  |   9.140125   .1029754    88.76   0.000     8.938289    9.341961
         11  |   9.966142   .2704886    36.84   0.000     9.435974    10.49631
         12  |    9.67717    .164771    58.73   0.000     9.354212    10.00013
         13  |   9.388198   .0633944   148.09   0.000     9.263942    9.512453
```

```
                           SkintoneOutput_ver3_clean
         14  |   9.099226    .061418   148.15   0.000     8.978844    9.219607
         15  |   8.810253   .1625099    54.21   0.000     8.491728    9.128779
------------------------------------------------------------------------------

  Variables that uniquely identify margins: deviation_ht color

.
.
. log close
      name:  <unnamed>
       log:  D:\SkintoneOutput_ver3_clean.log
  log type:  text
 closed on:   5 Dec 2017, 10:53:01
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
-----------
```