README file for "The Righteous And Reasonable Ambition To Become A Landholder": Land And Racial Inequality In The Postbellum South

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I. Version Information

Data and do-files were created in Stata 14. All provided output was produced using Stata 14.

II. Summary of Associated Files

File	Associated Do-File	Cherokee Data		Southern Data	
		Source	**Collected By**	**Source**	**Collected By**
1880_Data	1880_Tables	1880 Cherokee Census	Miller	1880 U.S. Census Population and Agricultural Schedules	Ransom and Sutch
1900_Data	1900_Tables	1900 United States Census	Miller and IPUMS	1900 United States Census	IPUMS
Intergen	Intergen_Tables	1880 Cherokee Census and 1900 United States Census	Miller	---	

III. Description of Data and Collection Procedures

Three data files are required to recreate the tables in this paper. The first file, 1880_Data, contains cross sectional data on the Cherokee Nation and the South in 1880. When used with the 1880_Tables do-file, the cross sectional 1880 analysis can be replicated. The second, 1900_Data, contains cross sectional data on the Cherokee Nation and the South in 1900. Its associated do-file, 1900_Tables, will recreate the 1900 cross

sectional analysis. The final file, Intergen, can be used with the do-file Intergen_Tables to recreate the intergenerational analysis.

The main paper provides basic information on the data and its contents. In Miller (2015), I provided a detailed description of the underlying data and collection procedures. Below, I provide a summary overview of the data that draws from Miller (2015).

The Cherokee data in this paper were drawn from three separate sources: the 1880 Cherokee Census, the Freedmen Roll of the Cherokee Dawes Cards, and the 1900 United States Census. I collected a 60 percent sample of the 1880 Cherokee Census. This was the first census with comprehensive information about former slaves in the Cherokee Nation.[1] The sample contains 11,899 people. Of these, 1,784 are freedmen or their children.[2] To locate the freedmen and their descendants in the 1900 U.S. Census, I took advantage of auxiliary information recorded on the original census manuscripts between 1899 and 1907. A Federal commission was charged with locating every person in the 1880 Cherokee Census. Once a person was found, the Commission recorded information about the person and his or her family members on a separate card and noted the card's number next to the person's name on the original 1880 census manuscripts. If a person had died in the intervening time period, this information was also noted on the census. I utilized this supplementary information to search for 932 living Cherokee freedmen in the 1900 United States Census. 84 percent were found and information about all members of their households was digitized.

The completed sample includes 11,899 people from the 1880 Cherokee Census and 2,664 from the 1900 U.S. Census. It provides detailed, multigenerational information on formerly enslaved citizens of the Cherokee Nation.[3]

The 1880 Cherokee Census was collected by the Cherokee Nation's government. On December 3, 1879, the Cherokee National Council authorized, "An Act for taking a census of the Cherokee Nation, in the year 1880."[4][5] The census' purpose was to,

> Make an authentic schedule or enumeration of the owners of the Cherokee country embraced in the Patent from the United States Government. The persons so to be enrolled constitute the *"Cherokee People"* and the owners of the Cherokee soil, and none others.[6]

[1] Because the Cherokee Nation's citizens were considered "Indians not taxed," they were not included in U.S. censuses during this time period. There was an earlier census in the Cherokee Nation that collected limited information on the freedmen, but it did not contain the breadth of information available in the 1880 Census and may have omitted a large share of freedmen (Littlefield, 1978).
[2] The term freedmen will refer to both men and women who had previously been enslaved.
[3] The Dawes Cards also provide the name of a person's slave owner. While I do not utilize this information here, I have elsewhere. See Miller (2018).
[4] Complete text of the Act appears in the *Cherokee Advocate,* 28 January 1880.
[5] This Act was intended to comply with Article III, Section 3 of the Constitution of the Cherokee Nation, which called for a census to be taken every 10 years.
[6] *Cherokee Advocate,* 25 May 1881.

This portion of the Act highlights two key differences between the 1880 Cherokee Census and a standard United States census. First, to be one of the "*Cherokee People,*" that is, a citizen of the Cherokee Nation, a person had to be included on the census rolls. Second, only citizens of the Cherokee Nation—"and none others"—were entitled to own land in the Nation. Together, these two provisions provided a very concrete incentive for all citizens to be listed in the census: if they were not, they would be unable to claim land within the Cherokee Nation.

The act specified that two enumerators were to be appointed for each of the Nation's nine districts (the Cherokee Nation's equivalent to a state or county). They were tasked with taking the census between March 1, 1880 and May 1, 1880 and were required to make "full and complete returns of all persons residing or sojourning in their district," including their "chief productions of agriculture, including number of horses, cattle, hogs, sheep, etc., during the year ending in May 1st 1880."

Although most of the instructions for and information collected in the census were typical for their time period, some aspects deserve additional attention. The census enumerators divided people into different categories and created a separate schedule for each category. I have drawn my sample from the first schedule of the census, which included population and agricultural information for all citizens of the Cherokee Nation with the exception of orphans under sixteen, who were enumerated on a separate schedule. The remaining schedules listed non-citizens of the nation who were present at the time of the census. If an individual was inadvertently excluded from the census, he or she could present a statement declaring citizenship to Principal Chief Dennis Bushyhead, who then submitted a list of additional citizens to the National Council for inclusion on the official roles.

While the census recorded information that was typically found on the population and agricultural schedules of the United States' Censuses, it was unique in that both population and agricultural information were recorded on the same schedule. This provides an advantage over U.S. Census information. When linking population and agricultural schedules, the match rate is inevitably lower than 100 percent. If the reasons that a match cannot be made are non-random, selection bias can be introduced into the data. This type of selection bias is not present in the Cherokee data.

I collected a 60 percent sample of the Census by copying alternating pages of the microfilmed handwritten census manuscripts. The microfilms are available from the National Archives and Records Administration (NARA), microfilm 7RA07, roll 4. A limited number of census pages that were damaged beyond legibility were not included. There were two exceptions to this sampling rule. I included every page with a citizen listed as "col," an abbreviation for colored, because the primary goal in collecting this sample was to gather data on the Cherokee freedman. I also sampled the entirety of the Canadian district—the heart of the Cherokee cotton agriculture, its inclusion allows for more precise examination of cotton agriculture in the Cherokee Nation. All information for the copied census pages was entered into a machine-readable format. The census data was recorded exactly as it appeared on the original manuscripts.

To verify that the sample is representative of the Cherokee Nation as a whole, I compared it to the official, aggregate statistics of the 1880 Cherokee Census that were submitted to the U.S. Senate. Overall, the sample is remarkably similar to the nations as whole—with the exception of the oversampling of freedmen. 192 freedmen, or just under 10 percent of the total black population of the Cherokee Nation, are not included in the sample. Some of these freedmen may have been listed on damaged census pages, while others I may have simply missed while looking. Both reasons likely to be random, and, hence, should not influence the representativeness of the sample.

The completeness of the 1880 Cherokee Census allowed it to be used by the U.S. government for compiling a roll of all Cherokee citizens. The 1898 *An Act for the Protection of the People of Indian Territory* extended the 1887 *General Allotment Act* to the Five Tribes of the Indian Territory. Known at the Dawes Act, this earlier law called for assigning individual citizens of Indian tribes allotments of land in severalty and opening the remaining land to white settlement. The Act required the construction of final citizenship rolls that were, "descriptive of the persons thereon, so that they may be thereby identified."[7] A Federal commission was assembled to travel throughout the Indian Territory, advertising its presence to potential tribal enrollees. Applicants were required to physically appear before the Commission and were questioned on tribal affiliation. If they failed to appear, they were not eligible for inclusion on the Dawes Roll and could not receive allotments of land (NARA 2013). Because people in the Cherokee Nation already had individual claims to land, they were required to register in order to keep their land. They could also be punished for a failure to apply. The United States Court in Indian Territory was empowered by Section 21 of the Curtis Act to, "enforce obedience of all others concerned, so far as the same may be necessary, to enable said commission to make rolls as herein required, and to punish anyone who may in any manner or by any means obstruct said work."[8]

The Commission's interviews were transcribed. Clerks entered basic demographic and family information on a separate card, generally referred to as a Dawes Card. Freedmen applicants provided the names of their slave owners, their mother's slave owners, and their father's slave owners. The Commissioners used previous tribal rolls of citizenship and tribal law as a basis for inclusion on the Dawes Rolls. The primary roll used for the Cherokee Nation was the 1880 Census. People too young to have appeared in this Census were required to prove that their parents, grandparents, etc., were present. Interview transcripts indicate that 1880 Census was brought to enrollment hearings. Clerks would immediately check for a person's presence and then note their findings both in the interview transcriptions and on the Dawes Cards. If the person's name had changed since their enumeration on 1880 Census, the card would include the name as listed in the Census. Dawes Cards numbers were written directly next to each person's name in the 1880 Census. Furthermore, the 1880 Census also provided a listing of all people who should be registered. If someone was in the Census but had not yet appeared before the Commission, the Commissioners attempted to locate that individuals or

[7] Section 21, "An Act for the Protection of the People of Indian Territory" in Kappler (1904).
[8] The Federal Government was serious about this provision. In 1901, Ninety-seven Creek Indians were arrested for their anti-allotment activities (Carter 1999, 56).

determine if they had died. If someone had died, clerks would either write or stamp "DEAD" next to the name. The commissioners also divided applicants by strength of citizenship claim. Most were either directly approved for citizenship or rejected. The remaining were classified as "doubtful" and required to provide additional documentation for their cases. (NARA 2013)

The previous tribal enrollment of each person was confirmed with the year of enrollment; the county, district or town in which he lived when enrolled; and his location on the roll ("No.") on the lower right corner of the card's front. Of the 1,784 freedmen in my sample of the 1880 Census, only 12 were not located by the Dawes Commission. 579 were confirmed to have died. 128 people had card numbers that were illegible or were classified as "doubtful" Cherokee citizens and had their information recorded on a different list. The remaining 1,065 Cherokee freedmen all have Dawes Card information available on NARA microfilm series M1186, rolls 23 through 27.

The linking procedure had four basic steps. First, the 1880 Census provided the card number for each Cherokee freedmen. Second, microfilm versions of the cards were located and copied. These cards provided the name and family members of the person in 1900. Third, this information was used to find the individual in the database index of the 1900 Census available at www.ancestry.com. Fourth, when the person was located in the 1900 Census, all census and Dawes card information for the person and each household member in the 1900 Census was recorded. Information from the 1900 Census is listed in Table 3. The linked sample currently includes 789 freedmen from the 1880 Cherokee Census, 2,664 total individuals, and 470 households.

1,065 individuals had census card information. Census searches occurred for 932 of these people.[9] 788 were located, giving a successful linkage rate of 84 percent. Of those found, 359 were men, and 394 were women. The linkage rate was nearly identical for men and women, 84 percent and 82 percent, respectively, suggesting that the linked census sample in not biased with respect to gender.[10]

IV. References

Carter, Kent. 1999. *The Dawes Commission and the Allotment of the Five Civilized Tribes, 1893-1924*. Ancestry.com.

Kappler, Charles J. 1904. "INDIAN AFFAIRS: LAWS AND TREATIES." In *Vol. II, Treaties*. Washington: Government Printing Office.

Miller, M. 2015. "Dawes Cards and Indian Census Data." *Historical Methods* 48 (4). doi:10.1080/01615440.2015.1013656.

Miller, Melinda C. 2018. "Destroyed by Slavery? Slavery and African American Family Formation Following Emancipation." *Demography* 55 (5): 1587–1609.

[9] 133 people's Dawes Card information was unavailable during repeated archive visits because the microfilm roll was on loan and not returned.

[10] There were 35 people for whom census card information was available who had missing or illegible sex information in the 1880 Census. All of these people were found. According to the 1900 census data, 14 were men, 14 were women, and 7 remained of unknown gender.

NARA. 2013. "The Dawes Rolls." *National Archives and Records Administration*. http://www.archives.gov/research/native-americans/dawes/intro.html.

V. Description of Variables

1880_Data

variable name	storage type	display format	value label	variable label
literate	byte	%9.0g		1 if literate, 0 if not
cherokee_nation	byte	%9.0g		1 if in 1880 CN census, 0 if not
black	byte	%9.0g		1 if black, 0 if not
_Isoil_type_2	byte	%8.0g		soil_type==2
_Isoil_type_3	byte	%8.0g		soil_type==3
_Isoil_type_4	byte	%8.0g		soil_type==4
_Isoil_type_5	byte	%8.0g		soil_type==5
_Isoil_type_8	byte	%8.0g		soil_type==8
_Isoil_type_9	byte	%8.0g		soil_type==9
_Isoil_type_12	byte	%8.0g		soil_type==12
_Isoil_type_13	byte	%8.0g		soil_type==13
_Isoil_type_16	byte	%8.0g		soil_type==16
_Isoil_type_17	byte	%8.0g		soil_type==17
_Isoil_type_18	byte	%8.0g		soil_type==18
_Isoil_type_19	byte	%8.0g		soil_type==19
_Isoil_type_20	byte	%8.0g		soil_type==20
_Isoil_type_22	byte	%8.0g		soil_type==22
_Isoil_type_23	byte	%8.0g		soil_type==23
_Isoil_type_24	byte	%8.0g		soil_type==24
_Isoil_type_26	byte	%8.0g		soil_type==26
_Isoil_type_27	byte	%8.0g		soil_type==27
_Isoil_type_28	byte	%8.0g		soil_type==28
age	int	%10.0g		Age
age2	int	%9.0g		Age x Age
cherokee_free~n	byte	%9.0g		cherokee_nation x black
fruit_dummy	byte	%9.0g		1 if positive acrage reported in fruit trees
lnimpacre	float	%9.0g		ln(improved acres)
ln_CV	float	%9.0g		ln(crop income)
ln_TI	float	%9.0g		ln(total income)
ln_LV	float	%9.0g		ln(livestock value)
own	byte	%9.0g		1 of own farm
weight	int	%9.0g		Sampling weight

1900_Data

variable name	storage type	display format	value label	variable label
hhwt1	float	%9.0g		HH Weight, IPUMS
CherNat	float	%9.0g		1 if in CN
own	float	%9.0g		1 if home listed as owned, 0 if rented, missing if blank
age	float	%9.0g		age
age2	float	%9.0g		age^2
male	float	%9.0g		1 if male, missing if unknown
famsize	float	%9.0g		size of household
head_lit	float	%9.0g		1 if head of HH literate
head_farmer	float	%9.0g		1 if head farmer
head_own	float	%9.0g		1 if head owns home
head_nomort	float	%9.0g		1 if head has no mort, 0 if head has,missing for blank
head	float	%9.0g		1 if head of household
school_month	float	%9.0g		months of school attended:
school_dum	float	%9.0g		1 if attended any school
black	float	%9.0g		1 if black, negro, mulatto
lit_dum	float	%9.0g		1 if can read and can write
cherfr	float	%9.0g		1 if CherNat==1 & black==1

Intergen

```
              storage   display    value
variable name   type    format     label      variable label
------------------------------------------------------------------------------------------
cohort3         float   %9.0g                 1 if in 1900 HH and age <18
age             float   %9.0g                 Age 1900
q1              float   %9.0g                 1 if in 1880 HH Income quartile, lowest
q2              float   %9.0g                 1 if in 1880 Income quartile, 2
q3              float   %9.0g                 1 if in 1880 Income quartile, 3
q4              float   %9.0g                 1 if in 1880 HH Income quartile, highest
headq1          float   %9.0g                 1 if head of HH was in 1880 HH Income
quartile, lowest as a child
headq2          float   %9.0g                 1 if head of HH was in 1880 HH Income
quartile, 2 as a child
headq3          float   %9.0g                 1 if head of HH was in 1880 HH Income
quartile, 3 as a child
headq4          float   %9.0g                 1 if head of HH was in 1880 HH Income
quartile, highest as a child
cohort2         float   %9.0g                 1 if in 1880 Cherokee Census and age<18 in
1880
a_Family_Grou~D float   %9.0g                 Family Group Number in 1880 Census
male1900        float   %9.0g                 1 if male in 1900 census
lit1900         float   %9.0g                 1 if literate in 1900 census
age2            float   %9.0g                 age*age in 1900 census
headlit1900     float   %9.0g                 1 if head of person's HH literate in 1900
headlit1880     float   %9.0g                 1 if head of person's 1880 HH was literate
------------------------------------------------------------------------------------------
```

VI. Stata Output

```
//This file contains the commands for 1880 Tables.  It is meant to be used with
"1880 Data"
.
.
.
. #delimit;
delimiter now ;
. //Table V
>
>
>
> /*col 1: all farmers acreage
> */
>
> reg lnimpacre black cherokee_nation cherokee_freedmen age age2 literate
_Isoil_type_2- _Isoil_type_28  [pweight=weight] , robust  ;
(sum of wgt is   6.0205e+05)
note: _Isoil_type_9 omitted because of collinearity
note: _Isoil_type_26 omitted because of collinearity

Linear regression                               Number of obs     =      7,892
                                                F(23, 7868)       =      38.12
                                                Prob > F          =     0.0000
                                                R-squared         =     0.1350
                                                Root MSE          =     .83909

------------------------------------------------------------------------------
             |               Robust
   lnimpacre |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       black |  -.4136604   .0346499   -11.94   0.000    -.4815833   -.3457375
  cherokee_n |   .0124637   .0982978     0.13   0.899     -.180226    .2051534
cherokee_fr |   .3102477   .0941369     3.30   0.001     .1257144    .4947811
         age |   .0474704   .0059315     8.00   0.000     .0358431    .0590977
        age2 |    -.00042   .0000662    -6.34   0.000    -.0005498   -.0002902
     literate |   .2217121   .0336843     6.58   0.000     .1556819    .2877423
  _Isoil_ty~2 |    .074137    .084267     0.88   0.379    -.0910487    .2393226
  _Isoil_ty~3 |  -.2141045   .0707824    -3.02   0.002    -.3528568   -.0753521
  _Isoil_ty~4 |   .0090406   .0694637     0.13   0.896    -.1271268    .1452079
  _Isoil_ty~5 |  -.0236584   .0884003    -0.27   0.789    -.1969465    .1496297
  _Isoil_ty~8 |  -.0681487   .0614106    -1.11   0.267    -.1885299    .0522325
  _Isoil_ty~9 |          0  (omitted)
  _Isoil_ty~12 |   .2447829   .0705795     3.47   0.001     .1064284    .3831373
  _Isoil_ty~13 |  -.5737497   .0928962    -6.18   0.000    -.7558509   -.3916485
  _Isoil_ty~16 |   .0640747   .0600592     1.07   0.286    -.0536573    .1818066
  _Isoil_ty~17 |   .2594975   .0568653     4.56   0.000     .1480264    .3709687
  _Isoil_ty~18 |   .2810443   .0730994     3.84   0.000     .1377501    .4243385
  _Isoil_ty~19 |   .6215175   .1952698     3.18   0.001     .2387368    1.004298
```

```
   _Isoil_type_20 |   .0853357   .0704584     1.21   0.226    -.0527816
.2234529
   _Isoil_type_22 |   .1117397   .1014746     1.10   0.271    -.0871773
.3106568
   _Isoil_type_23 |   .1573514    .058195     2.70   0.007     .0432737
.2714291
   _Isoil_type_24 |     .00444   .0903112     0.05   0.961     -.172594
.181474
   _Isoil_type_26 |          0  (omitted)
   _Isoil_type_27 |   .4349794    .092672     4.69   0.000     .2533175
.6166412
   _Isoil_type_28 |  -.2991184   .0951583    -3.14   0.002    -.4856539   -
.1125829
            _cons |   2.199181   .1346027    16.34   0.000     1.935324
2.463038
------------------------------------------------------------------------------
----

. outreg2 using tabv.doc, addstat(Adj. R-squared, e(r2_a), Prob > F, e(F))
bdec(3) tdec(3) rdec(3) adec(3)  replace bracket;
tabv.doc
dir : seeout

. //col 2: owners acreage
> reg lnimpacre black cherokee_nation cherokee_freedmen age age2 literate
_Isoil_type_2- _Isoil_type_28
> if  own==1 [pweight=weight] , robust  ;
(sum of wgt is   3.5633e+05)
note: _Isoil_type_22 omitted because of collinearity
note: _Isoil_type_26 omitted because of collinearity

Linear regression                               Number of obs     =      5,202
                                                F(23, 5178)       =      32.05
                                                Prob > F          =     0.0000
                                                R-squared         =     0.1412
                                                Root MSE          =     .90116

------------------------------------------------------------------------------
----
             |               Robust
   lnimpacre |      Coef.   Std. Err.      t    P>|t|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
----
       black |   -.618379   .0591362   -10.46   0.000     -.734311    -
.502447
  cherokee_nation |   .0744986   .0837287     0.89   0.374    -.0896449
.2386421
cherokee_freedmen |   .5451197   .1044262     5.22   0.000     .3404003
.7498391
         age |   .0457984   .0085112     5.38   0.000     .0291127
.062484
        age2 |  -.0003981    .000092    -4.33   0.000    -.0005784   -
.0002178
     literate |   .2845084   .0533606     5.33   0.000     .1798991
.3891176
   _Isoil_type_2 |   .2070896   .0988804     2.09   0.036     .0132423
.4009369
   _Isoil_type_3 |  -.1846732   .0812119    -2.27   0.023    -.3438827   -
.0254637
   _Isoil_type_4 |   .0750106   .0876445     0.86   0.392    -.0968096
.2468309
   _Isoil_type_5 |  -.0346592   .1275558    -0.27   0.786    -.2847225
.2154041
   _Isoil_type_8 |  -.0448022   .0754137    -0.59   0.552    -.1926449
.1030405
   _Isoil_type_9 |  -.1053193   .1006784    -1.05   0.296    -.3026915
.092053
  _Isoil_type_12 |   .3035203   .0876471     3.46   0.001      .131695
.4753456
  _Isoil_type_13 |  -.6807092   .0673897   -10.10   0.000    -.8128216   -
.5485969
```

```
   _Isoil_type_16 |   .0346348   .0788499     0.44   0.660    -.1199443
.1892139
   _Isoil_type_17 |   .2639104   .0745984     3.54   0.000      .117666
.4101548
   _Isoil_type_18 |   .3454272   .1031616     3.35   0.001     .1431869
.5476674
   _Isoil_type_19 |   .7705916   .2422513     3.18   0.001     .2956768
1.245506
   _Isoil_type_20 |   .0927179   .1001186     0.93   0.354    -.1035568
.2889926
   _Isoil_type_22 |          0  (omitted)
   _Isoil_type_23 |   .1917781   .0724949     2.65   0.008     .0496574
.3338988
   _Isoil_type_24 |   -.158919   .1097961    -1.45   0.148    -.3741656
.0563277
   _Isoil_type_26 |          0  (omitted)
   _Isoil_type_27 |   .7790747   .1491542     5.22   0.000     .4866694
1.07148
   _Isoil_type_28 |  -.2310942   .1221292    -1.89   0.059    -.4705191
.0083306
            _cons |   2.233902   .2034528    10.98   0.000     1.835049
2.632755
------------------------------------------------------------------------------
----

. outreg2 using tabv.doc, addstat(Adj. R-squared, e(r2_a), Prob > F, e(F))
bdec(3) tdec(3) rdec(3) adec(3)  append bracket;
tabv.doc
dir : seeout

. //col 3: all farmers livestock
> reg ln_LV  black cherokee_nation cherokee_freedmen age age2 literate
_Isoil_type_2- _Isoil_type_28 lnimpacre
>  [pweight=weight] , robust  ;
(sum of wgt is   5.7906e+05)
note: _Isoil_type_22 omitted because of collinearity
note: _Isoil_type_26 omitted because of collinearity

Linear regression                               Number of obs     =      7,583
                                                F(24, 7558)       =     139.62
                                                Prob > F          =     0.0000
                                                R-squared         =     0.4455
                                                Root MSE          =     .79518

------------------------------------------------------------------------------
----
             |               Robust
      ln_LV |      Coef.   Std. Err.      t    P>|t|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
----
       black |  -.4441922   .0419184   -10.60   0.000    -.5263638   -
.3620205
  cherokee_nation |   1.348088   .0702279    19.20   0.000     1.210421
1.485754
cherokee_freedmen |   .6543667   .0798156     8.20   0.000      .497906
.8108275
         age |   .0398104   .0058501     6.81   0.000     .0283426
.0512782
        age2 |  -.0003564   .0000626    -5.70   0.000    -.0004791   -
.0002338
     literate |   .1846357   .0393322     4.69   0.000     .1075336
.2617377
   _Isoil_type_2 |   .3161969    .085819     3.68   0.000     .1479677
.4844261
   _Isoil_type_3 |   .3508284   .0787561     4.45   0.000     .1964445
.5052123
   _Isoil_type_4 |   .2806415   .0733305     3.83   0.000     .1368934
.4243897
   _Isoil_type_5 |   1.040502   .1017506    10.23   0.000     .8410421
1.239961
```

```
    _Isoil_type_8 |   .2910532   .0646919     4.50   0.000     .1642392
.4178672
    _Isoil_type_9 |  -.2443507   .0755526    -3.23   0.001    -.3924548   -
.0962466
   _Isoil_type_12 |   .6378695   .0685936     9.30   0.000      .503407
.772332
   _Isoil_type_13 |   .1060105   .0522108     2.03   0.042     .0036628
.2083583
   _Isoil_type_16 |     .75828   .0665752    11.39   0.000     .6277741
.888786
   _Isoil_type_17 |    .544048   .0662957     8.21   0.000       .41409
.6740059
   _Isoil_type_18 |   .6335744   .0721034     8.79   0.000     .4922317
.7749172
   _Isoil_type_19 |   .9943653   .1536561     6.47   0.000     .6931567
1.295574
   _Isoil_type_20 |   .6177737   .0761997     8.11   0.000      .468401
.7671464
   _Isoil_type_22 |          0  (omitted)
   _Isoil_type_23 |   .1827275   .0645028     2.83   0.005      .056284
.309171
   _Isoil_type_24 |   .6481688   .1060738     6.11   0.000     .4402347
.8561029
   _Isoil_type_26 |          0  (omitted)
   _Isoil_type_27 |   1.155715    .090724    12.74   0.000     .9778709
1.333559
   _Isoil_type_28 |   .1567744   .0878584     1.78   0.074    -.0154524
.3290012
        lnimpacre |   .5754649   .0176489    32.61   0.000     .5408683
.6100616
            _cons |   1.389464   .1515755     9.17   0.000     1.092334
1.686594
------------------------------------------------------------------------------
----

. outreg2 using tabv.doc, addstat(Adj. R-squared, e(r2_a), Prob > F, e(F))
bdec(3) tdec(3) rdec(3) adec(3)  append bracket;
tabv.doc
dir : seeout

. //col 4: owners livestock
> reg ln_LV  black cherokee_nation cherokee_freedmen age age2 literate
_Isoil_type_2- _Isoil_type_28 lnimpacre
> if own==1 [pweight=weight] , robust  ;
(sum of wgt is   3.4905e+05)
note: _Isoil_type_22 omitted because of collinearity
note: _Isoil_type_26 omitted because of collinearity

Linear regression                               Number of obs     =      5,078
                                                F(24, 5053)       =      75.41
                                                Prob > F          =     0.0000
                                                R-squared         =     0.4529
                                                Root MSE          =     .74447

------------------------------------------------------------------------------
----
             |               Robust
       ln_LV |      Coef.   Std. Err.      t    P>|t|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
----
       black |   -.312266   .0595864    -5.24   0.000    -.4290811   -
.1954509
  cherokee_nation |   1.223068      .0724    16.89   0.000     1.081133
1.365003
cherokee_freedmen |    .512175   .0912349     5.61   0.000     .3333149
.691035
         age |   .0348348   .0073304     4.75   0.000     .0204641
.0492056
        age2 |   -.000322   .0000778    -4.14   0.000    -.0004746   -
.0001695
```

```
         literate |   .1652925   .0473614     3.49   0.000     .0724436
.2581413
    _Isoil_type_2 |   .3491898   .0859041     4.06   0.000     .1807805
.5175992
    _Isoil_type_3 |   .2471341   .0824381     3.00   0.003     .0855197
.4087484
    _Isoil_type_4 |   .3601351   .0718452     5.01   0.000     .2192874
.5009827
    _Isoil_type_5 |   1.127738   .1177858     9.57   0.000     .8968265
1.358649
    _Isoil_type_8 |   .2185162   .0697115     3.13   0.002     .0818514
.3551811
    _Isoil_type_9 |  -.2443383   .0737799    -3.31   0.001    -.3889789   -
.0996978
   _Isoil_type_12 |   .6540246    .074982     8.72   0.000     .5070275
.8010218
   _Isoil_type_13 |   .0779024   .0521413     1.49   0.135    -.0243173
.180122
   _Isoil_type_16 |   .7242322   .0751349     9.64   0.000     .5769352
.8715292
   _Isoil_type_17 |   .6089882   .0784419     7.76   0.000     .4552082
.7627683
   _Isoil_type_18 |   .5831748   .0774437     7.53   0.000     .4313515
.734998
   _Isoil_type_19 |   1.025496    .168557     6.08   0.000     .6950511
1.355941
   _Isoil_type_20 |   .5767303   .0829952     6.95   0.000     .4140237
.7394368
   _Isoil_type_22 |          0  (omitted)
   _Isoil_type_23 |   .1339318   .0691638     1.94   0.053    -.0016592
.2695229
   _Isoil_type_24 |   .6811506   .1182088     5.76   0.000     .4494102
.9128911
   _Isoil_type_26 |          0  (omitted)
   _Isoil_type_27 |   1.228422   .1252189     9.81   0.000     .9829385
1.473905
   _Isoil_type_28 |    .118632   .0971497     1.22   0.222    -.0718236
.3090876
        lnimpacre |   .5322939   .0211161    25.21   0.000     .4908972
.5736907
            _cons |    1.81841    .183745     9.90   0.000      1.45819
2.17863
------------------------------------------------------------------------------
----

. outreg2 using tabv.doc, addstat(Adj. R-squared, e(r2_a), Prob > F, e(F))
bdec(3) tdec(3) rdec(3) adec(3)  append bracket;
tabv.doc
dir : seeout

. //col 5: all farmers crop income
> reg ln_CV black cherokee_nation cherokee_freedmen  age age2 literate
_Isoil_type_2- _Isoil_type_28 lnimpacre
>  [pweight=weight] , robust  ;
(sum of wgt is   5.7206e+05)
note: _Isoil_type_22 omitted because of collinearity
note: _Isoil_type_26 omitted because of collinearity

Linear regression                               Number of obs     =      7,321
                                                F(24, 7296)       =     205.82
                                                Prob > F          =     0.0000
                                                R-squared         =     0.5084
                                                Root MSE          =     .69302

------------------------------------------------------------------------------
----
             |               Robust
          ln_CV |      Coef.   Std. Err.      t    P>|t|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
----
```

```
            black |  -.0509631   .0350466    -1.45   0.146    -.1196646
.0177384
  cherokee_nation |   1.138598   .0536766    21.21   0.000     1.033376
1.243819
cherokee_freedmen |   .2270365   .0819968     2.77   0.006     .0662991
.387774
              age |   .0150175   .0051904     2.89   0.004     .0048428
.0251922
             age2 |  -.0001706   .0000563    -3.03   0.002    -.0002811   -
.0000602
         literate |   .0393371   .0330344     1.19   0.234    -.0254199
.104094
    _Isoil_type_2 |  -.0934906   .0674433    -1.39   0.166    -.2256991
.0387178
    _Isoil_type_3 |  -.1443856    .067969    -2.12   0.034    -.2776245   -
.0111468
    _Isoil_type_4 |  -.0848807   .0585363    -1.45   0.147    -.1996287
.0298674
    _Isoil_type_5 |  -.1553004   .0813734    -1.91   0.056    -.3148157
.0042149
    _Isoil_type_8 |   .2483908   .0506769     4.90   0.000     .1490494
.3477323
    _Isoil_type_9 |  -.2948808   .0841743    -3.50   0.000    -.4598868   -
.1298749
   _Isoil_type_12 |    .325488   .0553693     5.88   0.000     .2169482
.4340278
   _Isoil_type_13 |   -.841477   .0545521   -15.43   0.000    -.9484149    -
.734539
   _Isoil_type_16 |   .2491426   .0550291     4.53   0.000     .1412696
.3570156
   _Isoil_type_17 |  -.0032719   .0523758    -0.06   0.950    -.1059437
.0993998
   _Isoil_type_18 |   .1594631   .0664636     2.40   0.016     .0291751
.289751
   _Isoil_type_19 |  -1.069586   .2018897    -5.30   0.000    -1.465348   -
.6738237
   _Isoil_type_20 |   .4695662   .0596941     7.87   0.000     .3525484
.586584
   _Isoil_type_22 |          0  (omitted)
   _Isoil_type_23 |   .0782165   .0509929     1.53   0.125    -.0217443
.1781773
   _Isoil_type_24 |  -.0491269   .0745016    -0.66   0.510    -.1951715
.0969177
   _Isoil_type_26 |          0  (omitted)
   _Isoil_type_27 |   1.053293   .0835883    12.60   0.000     .8894357
1.21715
   _Isoil_type_28 |  -.0534879   .0704051    -0.76   0.447    -.1915022
.0845264
        lnimpacre |   .7364154   .0166734    44.17   0.000     .7037307
.7691002
            _cons |   2.562937    .128191    19.99   0.000     2.311646
2.814228
------------------------------------------------------------------------------
----

. outreg2 using tabv.doc, addstat(Adj. R-squared, e(r2_a), Prob > F, e(F))
bdec(3) tdec(3) rdec(3) adec(3)  append bracket;
tabv.doc
dir : seeout

. //col 6: owners crop income
>
> reg ln_CV black cherokee_nation cherokee_freedmen  age age2 literate
_Isoil_type_2- _Isoil_type_28 lnimpacre
> if own==1  [pweight=weight] , robust  ;
(sum of wgt is   3.4326e+05)
note: _Isoil_type_22 omitted because of collinearity
note: _Isoil_type_26 omitted because of collinearity

Linear regression                               Number of obs     =      4,801
                                                F(24, 4776)       =     153.76
                                                Prob > F          =     0.0000
```

```
                                                R-squared         =     0.5371
                                                Root MSE          =     .70891

------------------------------------------------------------------------------
             |               Robust
      ln_CV |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       black |  -.0924872   .0556746    -1.66   0.097     -.201635    .0166606
  cherokee_nation |   1.135318   .0615748    18.44   0.000     1.014603    1.256033
cherokee_freedmen |   .3102571   .0905335     3.43   0.001     .1327697    .4877445
         age |   .0141718   .0068188     2.08   0.038     .0008038    .0275398
        age2 |  -.0001551   .0000724    -2.14   0.032     -.000297   -.0000132
     literate |   .1232777    .048486     2.54   0.011     .0282227    .2183327
  _Isoil_type_2 |  -.0752624   .0740905    -1.02   0.310     -.220514    .0699892
  _Isoil_type_3 |  -.1824648   .0788549    -2.31   0.021    -.3370568   -.0278728
  _Isoil_type_4 |  -.0690979   .0695831    -0.99   0.321    -.2055127    .067317
  _Isoil_type_5 |  -.2031776   .1025219    -1.98   0.048    -.4041678   -.0021874
  _Isoil_type_8 |    .203301   .0606744     3.35   0.001     .0843512    .3222508
  _Isoil_type_9 |  -.2887247   .0832943    -3.47   0.001    -.4520199   -.1254296
  _Isoil_type_12 |   .2663451   .0663338     4.02   0.000     .1363002    .3963899
  _Isoil_type_13 |  -.8347747   .0550426   -15.17   0.000    -.9426836   -.7268658
  _Isoil_type_16 |   .1858728   .0689274     2.70   0.007     .0507433    .3210024
  _Isoil_type_17 |  -.1766345   .0670608    -2.63   0.008    -.3081045   -.0451644
  _Isoil_type_18 |   .1590597   .0860543     1.85   0.065    -.0096463    .3277657
  _Isoil_type_19 |  -1.179225    .234708    -5.02   0.000    -1.639361   -.7190896
  _Isoil_type_20 |   .5183107   .0762968     6.79   0.000     .3687337    .6678876
  _Isoil_type_22 |          0  (omitted)
  _Isoil_type_23 |   .0870544   .0619271     1.41   0.160    -.0343513     .20846
  _Isoil_type_24 |  -.0375235    .095062    -0.39   0.693    -.2238888    .1488418
  _Isoil_type_26 |          0  (omitted)
  _Isoil_type_27 |   1.014685   .1582184     6.41   0.000     .7045043    1.324866
  _Isoil_type_28 |   .0546144   .0809304     0.67   0.500    -.1040465    .2132752
       lnimpacre |   .7387127   .0202065    36.56   0.000     .6990987    .7783267
           _cons |   2.505934   .1749655    14.32   0.000     2.162921    2.848947
------------------------------------------------------------------------------

. outreg2 using tabv.doc, addstat(Adj. R-squared, e(r2_a), Prob > F, e(F))
bdec(3) tdec(3) rdec(3) adec(3)  append bracket;
tabv.doc
dir : seeout

. //col 7: all farmers total value
>
```

```
> reg ln_TI black cherokee_nation cherokee_freedmen  age age2 literate
_Isoil_type_2- _Isoil_type_28 lnimpacre
>  [pweight=weight] , robust;
(sum of wgt is   5.9890e+05)
note: _Isoil_type_22 omitted because of collinearity
note: _Isoil_type_26 omitted because of collinearity

Linear regression                               Number of obs     =      7,823
                                                F(24, 7798)       =     251.49
                                                Prob > F          =     0.0000
                                                R-squared         =     0.5518
                                                Root MSE          =      .6531

------------------------------------------------------------------------------
             |               Robust
          ln_TI |      Coef.   Std. Err.      t    P>|t|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
-----
       black |  -.2319441   .0359125    -6.46   0.000    -.3023422   -
.1615459
  cherokee_nation |   1.264371   .0564256    22.41   0.000     1.153762
1.37498
cherokee_freedmen |    .458131   .0613601     7.47   0.000     .3378488
.5784132
         age |   .0342389   .0048205     7.10   0.000     .0247893
.0436884
        age2 |  -.0003364   .0000522    -6.44   0.000    -.0004387   -
.0002341
     literate |   .0887559   .0346387     2.56   0.010     .0208548
.1566571
    _Isoil_type_2 |   .1218757   .0649144     1.88   0.060     -.005374
.2491253
    _Isoil_type_3 |   .1012445   .0614993     1.65   0.100    -.0193105
.2217996
    _Isoil_type_4 |   .0803849   .0592573     1.36   0.175    -.0357753
.1965452
    _Isoil_type_5 |   .3337626   .0815538     4.09   0.000     .1738952
.4936301
    _Isoil_type_8 |   .2869085   .0543838     5.28   0.000     .1803016
.3935154
    _Isoil_type_9 |  -.2660249   .0622401    -4.27   0.000    -.3880322   -
.1440176
   _Isoil_type_12 |   .4514085   .0575502     7.84   0.000     .3385948
.5642223
   _Isoil_type_13 |  -.3898969   .0407326    -9.57   0.000    -.4697438     -
.31005
   _Isoil_type_16 |   .4494511   .0574848     7.82   0.000     .3367654
.5621369
   _Isoil_type_17 |   .2286303   .0554186     4.13   0.000     .1199949
.3372657
   _Isoil_type_18 |   .3467738   .0636883     5.44   0.000     .2219278
.4716199
   _Isoil_type_19 |  -.0533257   .1457498    -0.37   0.714    -.3390344
.232383
   _Isoil_type_20 |   .5183887   .0648344     8.00   0.000     .3912958
.6454816
   _Isoil_type_22 |          0  (omitted)
   _Isoil_type_23 |   .1333702   .0545209     2.45   0.014     .0264946
.2402457
   _Isoil_type_24 |   .3050492   .0775168     3.94   0.000     .1530955
.457003
   _Isoil_type_26 |          0  (omitted)
   _Isoil_type_27 |   1.227851     .06995    17.55   0.000      1.09073
1.364972
   _Isoil_type_28 |   .0400321     .06877     0.58   0.561    -.0947755
.1748397
        lnimpacre |   .6942667   .0147119    47.19   0.000     .6654275
.7231059
            _cons |   2.517278   .1283581    19.61   0.000     2.265661
2.768894
```

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

. outreg2 using tabv.doc, addstat(Adj. R-squared, e(r2_a), Prob > F, e(F))
bdec(3) tdec(3) rdec(3) adec(3)  append bracket;
tabv.doc
dir : seeout

. //col 8: owners total value
>
> reg ln_TI black cherokee_nation cherokee_freedmen  age age2 literate
_Isoil_type_2- _Isoil_type_28 lnimpacre
> if own==1  [pweight=weight] , robust;
(sum of wgt is   3.5523e+05)
note: _Isoil_type_22 omitted because of collinearity
note: _Isoil_type_26 omitted because of collinearity

Linear regression                               Number of obs     =      5,160
                                                F(24, 5135)       =     167.82
                                                Prob > F          =     0.0000
                                                R-squared         =     0.5792
                                                Root MSE          =     .62783

------------------------------------------------------------------------------
----
             |               Robust
          ln_TI |      Coef.   Std. Err.      t    P>|t|     [95% Conf.
Interval]
-------------+----------------------------------------------------------------
----
       black |  -.1975218   .0486373    -4.06   0.000    -.2928716   -
.1021721
  cherokee_nation |    1.20197   .0576355    20.85   0.000      1.08898
1.314961
cherokee_freedmen |   .4552206   .0696837     6.53   0.000     .3186109
.5918303
         age |   .0305663   .0060106     5.09   0.000     .0187829
.0423497
        age2 |   -.000309   .0000655    -4.71   0.000    -.0004375   -
.0001805
     literate |   .1547926   .0434313     3.56   0.000     .0696486
.2399365
    _Isoil_type_2 |   .1052786   .0639091     1.65   0.100    -.0200105
.2305678
    _Isoil_type_3 |   .0191945   .0652989     0.29   0.769    -.1088192
.1472082
    _Isoil_type_4 |    .095174   .0622059     1.53   0.126     -.026776
.2171241
    _Isoil_type_5 |   .4573102   .0950754     4.81   0.000     .2709219
.6436985
    _Isoil_type_8 |   .1918984    .058829     3.26   0.001     .0765684
.3072283
    _Isoil_type_9 |  -.2580814   .0628416    -4.11   0.000    -.3812776   -
.1348852
   _Isoil_type_12 |   .4255127   .0600642     7.08   0.000     .3077612
.5432642
   _Isoil_type_13 |   -.404008   .0414509    -9.75   0.000    -.4852693   -
.3227466
   _Isoil_type_16 |   .3806862   .0646215     5.89   0.000     .2540004
.5073719
   _Isoil_type_17 |   .1710862   .0639724     2.67   0.008     .0456731
.2964994
   _Isoil_type_18 |   .2984805   .0772989     3.86   0.000     .1469417
.4500193
   _Isoil_type_19 |  -.0470927   .1553279    -0.30   0.762    -.3516015
.2574161
   _Isoil_type_20 |   .5403679   .0716892     7.54   0.000     .3998265
.6809092
   _Isoil_type_22 |          0  (omitted)
   _Isoil_type_23 |   .1163693   .0578472     2.01   0.044     .0029641
.2297744
```

```
   _Isoil_type_24 |   .3030533   .0883544     3.43   0.001     .1298409
.4762656
   _Isoil_type_26 |          0  (omitted)
   _Isoil_type_27 |   1.352213   .0925656    14.61   0.000     1.170745
1.533681
   _Isoil_type_28 |   .0578173   .0784253     0.74   0.461    -.0959297
.2115643
        lnimpacre |    .664611   .0175269    37.92   0.000     .6302508
.6989712
            _cons |   2.737685   .1545422    17.71   0.000     2.434717
3.040654
------------------------------------------------------------------------------
----

. outreg2 using tabv.doc, addstat(Adj. R-squared, e(r2_a), Prob > F, e(F))
bdec(3) tdec(3) rdec(3) adec(3)  append bracket;
tabv.doc
dir : seeout

. //Table Vii: Orchards
>
> dprobit fruit_dummy black cherokee_nation cherokee_freedmen
[pweight=weight] , robust ;

(sum of wgt is   6.0812e+05)
Iteration 0:   log pseudolikelihood = -3400.5987
Iteration 1:   log pseudolikelihood = -3149.7721
Iteration 2:   log pseudolikelihood = -3135.4231
Iteration 3:   log pseudolikelihood = -3135.1646
Iteration 4:   log pseudolikelihood = -3135.1645

Probit regression, reporting marginal effects           Number of obs =   7961
                                                        Wald chi2(3)  =1195.67
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -3135.1645                       Pseudo R2     = 0.0781

------------------------------------------------------------------------------
             |               Robust
fruit_~y |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
   black*|  -.1722781   .0097207   -12.29   0.000   .292995   -.19133 -.153226
chero~on*|    .379002   .0152616    27.32   0.000   .005525    .34909  .408914
chero~en*|   .4367497   .0524131     9.51   0.000   .000278   .334022  .539477
---------+--------------------------------------------------------------------
  obs. P |   .1525793
 pred. P |   .1268354  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using tabvii.doc, addstat(Pseudo R2, e(r2_p)) bdec(3) tdec(3) rdec(3)
adec(3)  replace bracket;
tabvii.doc
dir : seeout

. dprobit fruit_dummy black cherokee_nation cherokee_freedmen lnimpacre age
age2 literate  _Isoil_type_2- _Isoil_type_28
>  [pweight=weight] , robust;

(sum of wgt is   6.0205e+05)
note: _Isoil_type_22 dropped because of collinearity
note: _Isoil_type_26 dropped because of collinearity
Iteration 0:   log pseudolikelihood = -3389.3447
Iteration 1:   log pseudolikelihood = -2741.3917
Iteration 2:   log pseudolikelihood =  -2700.184
Iteration 3:   log pseudolikelihood = -2698.7596
Iteration 4:   log pseudolikelihood = -2698.7564

Probit regression, reporting marginal effects           Number of obs =   7892
                                                        Wald chi2(24) =1455.51
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -2698.7564                       Pseudo R2     = 0.2038
```

```
------------------------------------------------------------------------------
             |               Robust
fruit_~y |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
   black*|  -.0963414   .0137622    -5.69   0.000   .293007  -.123315 -.069368
chero~on*|   .3735886    .038938    11.97   0.000   .005571   .297272  .449906
chero~en*|   .2783333   .0546228     6.59   0.000   .000279   .171274  .385392
lnimpa~e |   .0514791   .0058201     8.82   0.000   3.51891   .040072  .062886
     age |    .009482   .0021443     4.35   0.000    42.166   .005279  .013685
    age2 |  -.0000718   .0000224    -3.18   0.001   1980.48  -.000116 -.000028
literate*|   .0461249   .0147927     2.89   0.004    .69177   .017132  .075118
_Isoi~_2*|   .0956309   .0354583     3.27   0.001   .023357   .026134  .165128
_Isoi~_3*|  -.0891926   .0086169    -5.37   0.000   .018397  -.106082 -.072304
_Isoi~_4*|  -.0830693   .0094061    -5.48   0.000   .038241  -.101505 -.064634
_Isoil~5*|  -.0862265   .0104167    -3.96   0.000   .006777  -.106643  -.06581
_Isoi~_8*|  -.0802277   .0092097    -5.71   0.000   .036553  -.098278 -.062177
_Isoi~_9*|  -.0553595   .0104708    -3.89   0.000   .000618  -.075882 -.034837
_Isoi~12*|   .0026856   .0201989     0.13   0.893   .065929  -.036904  .042275
_Isoi~13*|  -.0240582   .0098939    -2.21   0.027   .002942   -.04345 -.004667
_Isoi~16*|   -.093702   .0094114    -6.77   0.000    .09195  -.112148 -.075256
_Isoi~17*|  -.0992832   .0114501    -6.84   0.000   .192975  -.121725 -.076841
_Isoi~18*|  -.0980362    .007533    -6.28   0.000   .028114    -.1128 -.083272
_Isoi~19*|   -.099994   .0066833    -5.70   0.000   .010524  -.113093 -.086895
_Isoi~20*|  -.0955285   .0098358    -5.06   0.000    .06709  -.114806 -.076251
_Isoi~23*|  -.0491812   .0153412    -2.88   0.004   .236248  -.079249 -.019113
_Isoi~24*|  -.0691762   .0148794    -3.01   0.003   .014874  -.098339 -.040013
_Isoi~27*|  -.0937497   .0080741    -5.37   0.000   .018661  -.109575 -.077925
_Isoi~28*|  -.0781057   .0130391    -3.61   0.000   .047212  -.103662  -.05255
---------+--------------------------------------------------------------------
  obs. P |     .15393
 pred. P |    .100461  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

.  outreg2 using tabvii.doc, addstat(Pseudo R2, e(r2_p)) bdec(3) tdec(3)
rdec(3) adec(3)  append bracket;
tabvii.doc
dir : seeout

. dprobit fruit_dummy black cherokee_nation cherokee_freedmen age age2 literate
_Isoil_type_2- _Isoil_type_28
> if  own==1   [pweight=weight] , robust ;

(sum of wgt is   3.5633e+05)
note: _Isoil_type_9 dropped because of collinearity
note: _Isoil_type_26 dropped because of collinearity
Iteration 0:   log pseudolikelihood = -2782.6418
Iteration 1:   log pseudolikelihood = -2401.0037
Iteration 2:   log pseudolikelihood = -2389.9839
Iteration 3:   log pseudolikelihood = -2389.8877
Iteration 4:   log pseudolikelihood = -2389.8877

Probit regression, reporting marginal effects           Number of obs =   5202
                                                        Wald chi2(23) = 975.53
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -2389.8877                       Pseudo R2     = 0.1411

------------------------------------------------------------------------------
             |               Robust
fruit_~y |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
   black*|   -.142645   .0223458    -4.67   0.000   .133026  -.186442 -.098848
chero~on*|   .2075883   .0527376     4.44   0.000   .009413   .104225  .310952
chero~en*|   .3417878   .0684358     5.50   0.000   .000471   .207656   .47592
     age |    .017415   .0037917     4.53   0.000   44.2271   .009983  .024847
    age2 |  -.0001385   .0000382    -3.59   0.000   2160.16  -.000213 -.000064
literate*|   .0800965   .0242892     2.94   0.003   .813375   .032491  .127702
_Isoi~_2*|   .1964747   .0587431     3.80   0.000   .027724    .08134  .311609
_Isoi~_3*|  -.1685724   .0156794    -5.64   0.000   .025704  -.199303 -.137841
_Isoi~_4*|  -.1455348    .018961    -5.11   0.000   .041916  -.182698 -.108372
```

```
_Isoil~5*|  -.1526475   .0225825    -3.67   0.000   .006393  -.196908 -.108387
_Isoi~_8*|  -.1465748   .0176789    -5.58   0.000   .042885  -.181225 -.111925
_Isoi~12*|   .0510876   .0404322     1.34   0.182   .070219  -.028158  .130333
_Isoi~13*|   .0235558   .0298736     0.82   0.415    .00497  -.034995  .082107
_Isoi~16*|  -.1640615    .017839    -6.10   0.000     .0855  -.199025 -.129098
_Isoi~17*|  -.1486289   .0213949    -5.41   0.000   .158957  -.190562 -.106696
_Isoi~18*|  -.1734438   .0153977    -5.44   0.000   .025392  -.203623 -.143265
_Isoi~19*|  -.1698367   .0189651    -3.94   0.000   .013089  -.207008 -.132666
_Isoi~20*|  -.1738192   .0184627    -4.92   0.000   .057234  -.210005 -.137633
_Isoi~22*|   .1196616   .0375158     3.58   0.000   .003399   .046132  .193191
_Isoi~23*|  -.0767533   .0282542    -2.51   0.012   .242024  -.132131 -.021376
_Isoi~24*|   -.112637   .0331447    -2.49   0.013   .016544  -.177599 -.047675
_Isoi~27*|  -.1354186    .025989    -3.35   0.001   .012915  -.186356 -.084481
_Isoi~28*|  -.1390228   .0260783    -3.52   0.000   .055185  -.190135  -.08791
---------+--------------------------------------------------------------------
  obs. P |   .2264228
 pred. P |   .1915442  (at x-bar)
--------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using tabvii.doc, addstat(Pseudo R2, e(r2_p)) bdec(3) tdec(3) rdec(3)
adec(3)  append bracket;
tabvii.doc
dir : seeout

. dprobit fruit_dummy black cherokee_nation cherokee_freedmen age age2 literate
lnimpacre  _Isoil_type_2- _Isoil_type_28
> if  own==1  [pweight=weight] , robust ;

(sum of wgt is   3.5633e+05)
note: _Isoil_type_9 dropped because of collinearity
note: _Isoil_type_26 dropped because of collinearity
Iteration 0:   log pseudolikelihood = -2782.6418
Iteration 1:   log pseudolikelihood = -2340.9457
Iteration 2:   log pseudolikelihood = -2326.2603
Iteration 3:   log pseudolikelihood = -2326.1096
Iteration 4:   log pseudolikelihood = -2326.1096

Probit regression, reporting marginal effects           Number of obs =   5202
                                                        Wald chi2(24) =1021.70
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -2326.1096                       Pseudo R2     = 0.1641

------------------------------------------------------------------------------
             |               Robust
fruit_~y |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
   black*|  -.1122918    .025977    -3.46   0.001   .133026  -.163206 -.061378
chero~on*|   .2149335   .0535814     4.55   0.000   .009413   .109916  .319951
chero~en*|   .2808727   .0686858     4.65   0.000   .000471   .146251  .415494
     age |   .0139129   .0038898     3.54   0.000   44.2271   .006289  .021537
    age2 |  -.0001076   .0000396    -2.70   0.007   2160.16  -.000185  -.00003
literate*|   .0592683   .0258647     2.11   0.035   .813375   .008574  .109962
lnimpa~e |   .0702219   .0095994     7.28   0.000   3.67959   .051407  .089036
_Isoi~_2*|   .1796996   .0578258     3.54   0.000   .027724   .066363  .293036
_Isoi~_3*|  -.1621026   .0157439    -5.49   0.000   .025704   -.19296 -.131245
_Isoi~_4*|  -.1461541   .0179298    -5.27   0.000   .041916  -.181296 -.111012
_Isoil~5*|  -.1501203   .0215747    -3.68   0.000   .006393  -.192406 -.107835
_Isoi~_8*|  -.1439673   .0171851    -5.60   0.000   .042885  -.177649 -.110285
_Isoi~12*|   .0279911   .0384556     0.75   0.451   .070219   -.04738  .103363
_Isoi~13*|   .0718168   .0337216     2.32   0.020    .00497   .005724   .13791
_Isoi~16*|  -.1617715   .0171891    -6.23   0.000     .0855  -.195462 -.128082
_Isoi~17*|  -.1579979    .019957    -5.95   0.000   .158957  -.197113 -.118883
_Isoi~18*|  -.1738513   .0137236    -5.76   0.000   .025392  -.200749 -.146954
_Isoi~19*|  -.1805852    .011846    -5.35   0.000   .013089  -.203803 -.157367
_Isoi~20*|  -.1724994   .0172154    -5.09   0.000   .057234  -.206241 -.138758
_Isoi~22*|   .1274769   .0373512     3.87   0.000   .003399    .05427  .200684
_Isoi~23*|   -.087478    .027518    -2.89   0.004   .242024  -.141412 -.033544
_Isoi~24*|  -.1048294   .0330966    -2.37   0.018   .016544  -.169697 -.039961
_Isoi~27*|  -.1580133   .0182979    -4.28   0.000   .012915  -.193877  -.12215
_Isoi~28*|  -.1338169   .0260491    -3.42   0.001   .055185  -.184872 -.082762
```

```
---------+--------------------------------------------------------------------
  obs. P |   .2264228
 pred. P |   .1854352  (at x-bar)
--------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using tabvii.doc, addstat(Pseudo R2, e(r2_p)) bdec(3) tdec(3) rdec(3)
adec(3)  append bracket;
tabvii.doc
dir : seeout

.
end of do-file
```

```
. /*This do file is for the 1900 regression estimates
> it is meant to be used with the file
> 1900_Data.dta
>
> */
.
. #delimit;
delimiter now ;
.  //This portion is for the 1900 education estimates attend school- age 10 to
18
>
>
>
> dprobit school_dum black CherNat cherfr if age>=10 & age<=18 [pweight=
hhwt1];

(sum of wgt is   2.9538e+06)
Iteration 0:   log pseudolikelihood = -21813.808
Iteration 1:   log pseudolikelihood = -21048.962
Iteration 2:   log pseudolikelihood = -21048.714

Probit regression, reporting marginal effects           Number of obs =  31473
                                                        Wald chi2(3)  =1429.03
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -21048.714                       Pseudo R2     = 0.0351

------------------------------------------------------------------------------
             |               Robust
school~m |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
   black*|  -.2262758   .0058211   -37.58   0.000    .37788  -.237685 -.214867
 CherNat*|  -.0787153   .0197465    -3.93   0.000   .002278  -.117418 -.040013
  cherfr*|   .1369328   .0276652     4.76   0.000   .000203    .08271  .191156
---------+--------------------------------------------------------------------
  obs. P |   .4949371
 pred. P |   .4939985  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(2) tdec(2) rdec(2) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket replace;
1880pvals.rtf
dir : seeout

. dprobit school_dum black CherNat cherfr age age2 male famsize  if age>=10 &
age<=18  [pweight= hhwt1 ];

(sum of wgt is   2.9538e+06)
Iteration 0:   log pseudolikelihood = -21812.422
Iteration 1:   log pseudolikelihood = -19343.493
Iteration 2:   log pseudolikelihood = -19314.174
Iteration 3:   log pseudolikelihood = -19314.157

Probit regression, reporting marginal effects           Number of obs =  31471
                                                        Wald chi2(7)  =4154.26
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -19314.157                       Pseudo R2     = 0.1145

------------------------------------------------------------------------------
             |               Robust
school~m |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
   black*|  -.2491197   .0059978   -39.81   0.000    .37788  -.260875 -.237364
 CherNat*|  -.1043355   .0235177    -4.32   0.000   .002277  -.150429 -.058242
  cherfr*|   .1552104   .0307584     4.81   0.000   .000203   .094925  .215496
     age |   .2298859   .0147682    15.56   0.000   13.8521   .200941  .258831
    age2 |  -.0103965   .0005317   -19.55   0.000   198.627  -.011439 -.009354
    male*|  -.0471123   .0061122    -7.70   0.000   .508109  -.059092 -.035133
 famsize |    .016495   .0011582    14.24   0.000   7.32619   .014225  .018765
---------+--------------------------------------------------------------------
```

```
  obs. P |   .4949371
 pred. P |   .4889978  (at x-bar)
--------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(2) tdec(2) rdec(2) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. dprobit school_dum black CherNat cherfr age age2 male famsize head_lit
head_farmer head_own if age>=10 & age<=18  [pweight= hhwt1 ];

(sum of wgt is   2.9538e+06)
Iteration 0:   log pseudolikelihood = -21812.422
Iteration 1:   log pseudolikelihood = -18803.136
Iteration 2:   log pseudolikelihood = -18753.504
Iteration 3:   log pseudolikelihood = -18753.454

Probit regression, reporting marginal effects           Number of obs =  31471
                                                        Wald chi2(10) =4832.58
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -18753.454                       Pseudo R2     = 0.1402

------------------------------------------------------------------------------
             |                 Robust
school~m |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
   black*|  -.1449336   .0072396   -19.73   0.000    .37788  -.159123 -.130744
 CherNat*|  -.1265457   .0191315    -6.37   0.000   .002277  -.164043 -.089049
  cherfr*|   .0764788    .029711     2.55   0.011   .000203   .018246  .134711
     age |   .2289969    .014982    15.28   0.000   13.8521   .199633  .258361
    age2 |  -.0104443   .0005397   -19.35   0.000   198.627  -.011502 -.009387
    male*|   -.051319   .0061896    -8.28   0.000   .508109   -.06345 -.039188
 famsize |   .0143879   .0011918    12.07   0.000   7.32619   .012052  .016724
head_lit*|   .1275429   .0072261    17.44   0.000   .638817    .11338  .141706
head_f~r*|   .0276594   .0068786     4.02   0.000   .701095   .014178  .041141
head_own*|   .1545677   .0064799    23.56   0.000   .478352   .141867  .167268
---------+--------------------------------------------------------------------
  obs. P |   .4949371
 pred. P |   .4887066  (at x-bar)
--------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(2) tdec(2) rdec(2) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. // school months-- age 10 to 18
>
> reg  school_month  black CherNat cherfr if school_dum==1 & age>=10 & age<=18
[pweight= hhwt1 ];
(sum of wgt is   1.4620e+06)

Linear regression                               Number of obs     =     15,520
                                                F(3, 15516)       =     192.54
                                                Prob > F          =     0.0000
                                                R-squared         =     0.0255
                                                Root MSE          =     2.1968

------------------------------------------------------------------------------
             |               Robust
school_month |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       black |  -.7930328   .0385417   -20.58   0.000    -.8685791   -.7174866
     CherNat |   .7812479   .0976126     8.00   0.000     .5899157      .97258
      cherfr |   .6991827   .1778991     3.93   0.000     .3504796    1.047886
       _cons |   4.739728   .0220399   215.05   0.000     4.696527    4.782929
------------------------------------------------------------------------------
```

```
. outreg2 using 1880pvals, ctitle(Model) bdec(2) tdec(2) rdec(2) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_a)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. reg  school_month  black CherNat cherfr age age2 male famsize  if
school_dum==1 & age>=10 & age<=18  [pweight= hhwt1 ];
(sum of wgt is   1.4620e+06)

Linear regression                               Number of obs     =     15,519
                                                F(7, 15511)       =      94.57
                                                Prob > F          =     0.0000
                                                R-squared         =     0.0310
                                                Root MSE          =     2.1909

------------------------------------------------------------------------------
             |               Robust
school_month |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       black |  -.7999881   .0384284   -20.82   0.000    -.8753123   -.7246639
     CherNat |   .7639851   .0983328     7.77   0.000     .5712413    .956729
      cherfr |   .7138462   .1783016     4.00   0.000     .3643541    1.063338
         age |  -.0655091   .0948449    -0.69   0.490    -.2514161    .120398
        age2 |    .001746   .0035054     0.50   0.618    -.0051249    .008617
        male |  -.2634022   .0362684    -7.26   0.000    -.3344925   -.1923118
     famsize |  -.0349583   .0082959    -4.21   0.000    -.0512192   -.0186973
       _cons |    5.68645   .6301488     9.02   0.000     4.451284    6.921615
------------------------------------------------------------------------------

. outreg2 using 1880pvals, ctitle(Model) bdec(2) tdec(2) rdec(2) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_a)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. reg  school_month  black CherNat cherfr age age2 male famsize head_lit
head_farmer head_own if school_dum==1 & age>=10 & age<=18  [pweight= hhwt1 ];
(sum of wgt is   1.4620e+06)

Linear regression                               Number of obs     =     15,519
                                                F(10, 15508)      =     259.99
                                                Prob > F          =     0.0000
                                                R-squared         =     0.1478
                                                Root MSE          =     2.0547

------------------------------------------------------------------------------
             |               Robust
school_month |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       black |  -.3920538   .0432452    -9.07   0.000    -.4768193   -.3072882
     CherNat |   .7327241   .0972671     7.53   0.000     .5420691    .923379
      cherfr |   .4830915   .1723658     2.80   0.005     .1452343    .8209486
         age |  -.0448718   .0886997    -0.51   0.613    -.2187336    .1289899
        age2 |   .0011055   .0032764     0.34   0.736    -.0053167    .0075277
        male |   -.233591   .0340165    -6.87   0.000    -.3002673   -.1669146
     famsize |    .007993   .0078929     1.01   0.311     -.007478    .0234639
    head_lit |   .7168807   .0435549    16.46   0.000      .631508    .8022534
 head_farmer |  -1.569328   .0430548   -36.45   0.000    -1.65372   -1.484935
    head_own |   .4776076   .0364464    13.10   0.000     .4061683    .5490469
       _cons |   5.420558   .5914546     9.16   0.000     4.261238    6.579878
------------------------------------------------------------------------------

. outreg2 using 1880pvals, ctitle(Model) bdec(2) tdec(2) rdec(2) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_a)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. //literacy-- age 10 to 18
>
>
> dprobit  lit_dum  black CherNat cherfr if  age>=10 & age<=18  [pweight= hhwt1
];
```

```
(sum of wgt is   2.9538e+06)
Iteration 0:   log pseudolikelihood = -19548.791
Iteration 1:   log pseudolikelihood = -17539.274
Iteration 2:   log pseudolikelihood = -17534.514
Iteration 3:   log pseudolikelihood = -17534.514

Probit regression, reporting marginal effects           Number of obs =  31473
                                                        Wald chi2(3)  =3691.34
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -17534.514                       Pseudo R2     = 0.1030

------------------------------------------------------------------------------
             |               Robust
    lit_dum |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
       black*|  -.3441393   .0055302   -60.57   0.000    .37788  -.354978   -.3333
    CherNat*|   -.169558   .0256143    -6.96   0.000   .002278  -.219761 -.119355
     cherfr*|   .1937438   .0148646     8.80   0.000   .000203    .16461  .222878
-------------+----------------------------------------------------------------
     obs. P |    .687446
    pred. P |    .704802  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(2) tdec(2) rdec(2) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. dprobit  lit_dum  black CherNat cherfr age age2 male famsize  if   age>=10 &
age<=18  [pweight= hhwt1 ];

(sum of wgt is   2.9538e+06)
Iteration 0:   log pseudolikelihood = -19547.546
Iteration 1:   log pseudolikelihood = -17050.623
Iteration 2:   log pseudolikelihood = -17032.233
Iteration 3:   log pseudolikelihood = -17032.226

Probit regression, reporting marginal effects           Number of obs =  31471
                                                        Wald chi2(7)  =4367.29
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -17032.226                       Pseudo R2     = 0.1287

------------------------------------------------------------------------------
             |               Robust
    lit_dum |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
       black*|  -.3515238   .0055741   -61.22   0.000    .37788  -.362449 -.340599
    CherNat*|   -.168663   .0261544    -6.81   0.000   .002277  -.219925 -.117401
     cherfr*|   .1914373   .0147603     8.69   0.000   .000203   .162508  .220367
        age |   .1185741   .0130717     9.08   0.000   13.8521   .092954  .144194
       age2 |  -.0032439   .0004697    -6.91   0.000   198.627  -.004165 -.002323
       male*|  -.0731196   .0055097   -13.21   0.000   .508109  -.083918 -.062321
    famsize |   .0014556   .0010284     1.42   0.157   7.32619   -.00056  .003471
-------------+----------------------------------------------------------------
     obs. P |   .6874461
    pred. P |    .709996  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(2) tdec(2) rdec(2) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. dprobit  lit_dum black CherNat cherfr age age2 male famsize head_lit
head_farmer head_own if  age>=10 & age<=18  [pweight= hhwt1 ];

(sum of wgt is   2.9538e+06)
```

```
Iteration 0:   log pseudolikelihood = -19547.546
Iteration 1:   log pseudolikelihood = -15593.352
Iteration 2:   log pseudolikelihood = -15510.024
Iteration 3:   log pseudolikelihood = -15509.788
Iteration 4:   log pseudolikelihood = -15509.788

Probit regression, reporting marginal effects           Number of obs =  31471
                                                        Wald chi2(10) =6714.55
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -15509.788                       Pseudo R2     = 0.2066

------------------------------------------------------------------------------
             |                 Robust
    lit_dum |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
       black*|  -.1907326   .0067536   -28.79   0.000    .37788  -.203969 -.177496
    CherNat*|  -.1663881   .0195643    -9.05   0.000   .002277  -.204733 -.128043
     cherfr*|   .1226057   .0174458     5.77   0.000   .000203   .088413  .156799
        age |   .1260856   .0132444     9.52   0.000   13.8521   .100127  .152044
       age2 |  -.0034448   .0004762    -7.24   0.000   198.627  -.004378 -.002511
       male*|  -.0799771   .0055808   -14.25   0.000   .508109  -.090915 -.069039
    famsize |   .0002893   .0010508     0.28   0.783   7.32619   -.00177  .002349
head_lit*|   .2870929   .0066716    43.44   0.000   .638817   .274017  .300169
head_f~r*|  -.0229417   .0061169    -3.72   0.000   .701095  -.034931 -.010953
head_own*|   .1350828    .005829    22.72   0.000   .478352   .123658  .146508
-------------+----------------------------------------------------------------
     obs. P |   .6874461
    pred. P |    .727093  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(2) tdec(2) rdec(2) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. // literacy-- 18+
>
>
>
> dprobit  lit_dum  black CherNat cherfr if age>18  [pweight= hhwt1 ];

(sum of wgt is   6.9835e+06)
Iteration 0:   log pseudolikelihood = -48264.974
Iteration 1:   log pseudolikelihood = -41617.874
Iteration 2:   log pseudolikelihood = -41603.778
Iteration 3:   log pseudolikelihood = -41603.778

Probit regression, reporting marginal effects           Number of obs =  73811
                                                        Wald chi2(3)  =12111.93
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -41603.778                       Pseudo R2     = 0.1380

------------------------------------------------------------------------------
             |                 Robust
    lit_dum |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
       black*|   -.429095   .0036284  -109.86   0.000   .348958  -.436206 -.421983
    CherNat*|  -.1824316   .0125541   -14.79   0.000    .00186  -.207037 -.157826
     cherfr*|   .2552351   .0078288    19.74   0.000   .000187   .239891  .270579
-------------+----------------------------------------------------------------
     obs. P |   .6391609
    pred. P |   .6544194  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(2) tdec(2) rdec(2) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout
```

```
. dprobit  lit_dum  black CherNat cherfr age age2 male  if  age>18  [pweight=
hhwt1 ];

(sum of wgt is   6.5489e+06)
Iteration 0:   log pseudolikelihood = -43244.395
Iteration 1:   log pseudolikelihood =  -34523.66
Iteration 2:   log pseudolikelihood = -34389.053
Iteration 3:   log pseudolikelihood = -34388.856

Probit regression, reporting marginal effects           Number of obs =  69109
                                                        Wald chi2(6)  =14988.58
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -34388.856                       Pseudo R2     = 0.2048

------------------------------------------------------------------------------
             |               Robust
    lit_dum |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
      black*|  -.4770815   .0036891  -117.84   0.000   .347936  -.484312 -.469851
    CherNat*|  -.1977068    .012917   -16.09   0.000    .00181  -.223024  -.17239
     cherfr*|   .2284801   .0058385    20.48   0.000   .000186   .217037  .239923
        age |  -.0090909   .0006466   -14.02   0.000   37.3004  -.010358 -.007824
       age2 |   .0000314   7.09e-06     4.43   0.000    1620.1   .000018  .000045
       male*|   .0637726   .0038255    16.61   0.000   .510453   .056275   .07127
-------------+----------------------------------------------------------------
     obs. P |   .6814892
    pred. P |   .7127045  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(2) tdec(2) rdec(2) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. /*This portion is for the 1900 d-in-d estimates for racial inequality
> // it is also meant to be used with the file
> //1900_Data.dta
>
> //Homewonership
>
> */
>
> #delimit;
delimiter now ;
. dprobit own black CherNat cherfr if male==1 & head==1  [pweight=hhwt1];

(sum of wgt is   2.3519e+06)
Iteration 0:   log pseudolikelihood =  -16804.07
Iteration 1:   log pseudolikelihood = -15481.817
Iteration 2:   log pseudolikelihood = -15475.279
Iteration 3:   log pseudolikelihood = -15475.276
Iteration 4:   log pseudolikelihood = -15475.276

Probit regression, reporting marginal effects           Number of obs =  24686
                                                        Wald chi2(3)  =3008.68
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -15475.276                       Pseudo R2     = 0.0791

------------------------------------------------------------------------------
             |               Robust
         own |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
      black*|  -.3285049   .0060321   -48.61   0.000   .353566  -.340328 -.316682
    CherNat*|   .3829764    .017717    16.97   0.000   .001605   .348252  .417701
     cherfr*|   .2492495   .0360044     6.49   0.000   .000157   .178682  .319817
-------------+----------------------------------------------------------------
     obs. P |   .4213139
    pred. P |   .4108145  (at x-bar)
------------------------------------------------------------------------------
```

```
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(4) tdec(4) rdec(4) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket replace ;
1880pvals.rtf
dir : seeout

. dprobit own black CherNat cherfr age age2 lit_dum famsize  if male==1 &
head==1  [pweight=hhwt1];

(sum of wgt is   2.3508e+06)
Iteration 0:   log pseudolikelihood = -16787.594
Iteration 1:   log pseudolikelihood = -14156.763
Iteration 2:   log pseudolikelihood = -14091.817
Iteration 3:   log pseudolikelihood = -14091.656
Iteration 4:   log pseudolikelihood = -14091.656

Probit regression, reporting marginal effects           Number of obs =  24662
                                                        Wald chi2(7)  =4887.22
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -14091.656                       Pseudo R2     = 0.1606

------------------------------------------------------------------------------
             |                 Robust
         own |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
       black*|  -.2579764   .0072893   -32.76   0.000   .353387  -.272263  -.24369
    CherNat*|   .4441645    .016069    19.18   0.000     .0016    .41267   .475659
     cherfr*|     .13773   .0416231     3.32   0.001   .000152    .05615    .21931
         age |   .0284398   .0014737    19.27   0.000   41.4851   .025551   .031328
        age2 |  -.0001901   .0000156   -12.18   0.000   1923.66  -.000221  -.00016
    lit_dum*|   .1951094   .0078498    23.49   0.000   .685337   .179724   .210495
    famsize |   .0070125   .0014176     4.95   0.000   5.17233   .004234   .009791
-------------+----------------------------------------------------------------
     obs. P |   .4212961
    pred. P |   .3992805  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(4) tdec(4) rdec(4) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. dprobit own black CherNat cherfr age age2 lit_dum famsize head_farmer if
male==1 & head==1 [pweight=hhwt1];

(sum of wgt is   2.3508e+06)
Iteration 0:   log pseudolikelihood = -16787.594
Iteration 1:   log pseudolikelihood = -14013.763
Iteration 2:   log pseudolikelihood = -13934.205
Iteration 3:   log pseudolikelihood = -13933.948
Iteration 4:   log pseudolikelihood = -13933.948

Probit regression, reporting marginal effects           Number of obs =  24662
                                                        Wald chi2(8)  =4903.18
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -13933.948                       Pseudo R2     = 0.1700

------------------------------------------------------------------------------
             |                 Robust
         own |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
       black*|  -.2486676   .0073823   -31.27   0.000   .353387  -.263137 -.234199
    CherNat*|   .4400383   .0164799    18.82   0.000     .0016   .407738  .472338
     cherfr*|   .1262108   .0415762     3.06   0.002   .000152   .044723  .207699
         age |   .0284178   .0014802    19.17   0.000   41.4851   .025517  .031319
        age2 |  -.0001922   .0000157   -12.26   0.000   1923.66  -.000223 -.000161
    lit_dum*|   .1987137   .0078698    23.80   0.000   .685337   .183289  .214138
    famsize |   .0029372   .0014375     2.04   0.041   5.17233    .00012  .005755
```

```
head_f~r*|   .1250903   .0071368    17.12   0.000    .62842   .111103  .139078
---------+--------------------------------------------------------------------
  obs. P |   .4212961
 pred. P |   .3979389  (at x-bar)
--------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(4) tdec(4) rdec(4) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. //Now mortgages
>
> dprobit head_nomort black CherNat cherfr if male==1 & head==1
[pweight=hhwt1];

(sum of wgt is   9.9079e+05)
Iteration 0:   log pseudolikelihood = -4923.0583
Iteration 1:   log pseudolikelihood = -4895.8504
Iteration 2:   log pseudolikelihood = -4895.0076
Iteration 3:   log pseudolikelihood = -4894.8866
Iteration 4:   log pseudolikelihood = -4894.8788
Iteration 5:   log pseudolikelihood = -4894.8787
Iteration 6:   log pseudolikelihood = -4894.8787

Probit regression, reporting marginal effects           Number of obs =  10792
                                                        Wald chi2(3)  = 135.88
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -4894.8787                       Pseudo R2     = 0.0057

------------------------------------------------------------------------------
             |                 Robust
head_n~t |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
   black*|  -.0656894   .0107941    -6.49   0.000   .175129  -.086845 -.044533
 CherNat*|   .1639445   .0050086     7.86   0.000   .003202   .154128  .173761
  cherfr*|   .0049655   .0817826     0.06   0.952   .000214  -.155326  .165256
---------+--------------------------------------------------------------------
  obs. P |   .8298168
 pred. P |      .8316  (at x-bar)
--------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(4) tdec(4) rdec(4) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. dprobit head_nomort black CherNat cherfr age age2 lit_dum famsize  if male==1
& head==1  [pweight=hhwt1];

(sum of wgt is   9.9028e+05)
Iteration 0:   log pseudolikelihood = -4918.6186
Iteration 1:   log pseudolikelihood = -4859.9786
Iteration 2:   log pseudolikelihood = -4858.9207
Iteration 3:   log pseudolikelihood =  -4858.795
Iteration 4:   log pseudolikelihood = -4858.7867
Iteration 5:   log pseudolikelihood = -4858.7866
Iteration 6:   log pseudolikelihood = -4858.7866

Probit regression, reporting marginal effects           Number of obs =  10779
                                                        Wald chi2(7)  = 195.99
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -4858.7866                       Pseudo R2     = 0.0122

------------------------------------------------------------------------------
             |                 Robust
head_n~t |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
```

```
   black*|  -.0635651   .0117135    -5.79   0.000   .174908  -.086523 -.040607
 CherNat*|   .1629467   .0047932     8.01   0.000   .003195   .153552  .172341
  cherfr*|   .0003123   .0832183     0.00   0.997   .000206  -.162792  .163417
     age |  -.0008978   .0017988    -0.50   0.618   45.9815  -.004423  .002628
    age2 |   .0000299   .0000185     1.62   0.106   2302.56  -6.3e-06  .000066
 lit_dum*|   .0152102   .0108001     1.43   0.152   .816053  -.005958  .036378
 famsize |  -.0031438   .0014966    -2.10   0.036   5.53118  -.006077 -.000211
---------+--------------------------------------------------------------------
  obs. P |   .8297295
 pred. P |   .8332956  (at x-bar)
--------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(4) tdec(4) rdec(4) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. dprobit head_nomort black CherNat cherfr age age2 lit_dum famsize head_farmer
if male==1 & head==1  [pweight=hhwt1];

(sum of wgt is   9.9028e+05)
Iteration 0:   log pseudolikelihood = -4918.6186
Iteration 1:   log pseudolikelihood = -4847.5155
Iteration 2:   log pseudolikelihood = -4846.3768
Iteration 3:   log pseudolikelihood = -4846.2509
Iteration 4:   log pseudolikelihood = -4846.2428
Iteration 5:   log pseudolikelihood = -4846.2427
Iteration 6:   log pseudolikelihood = -4846.2427

Probit regression, reporting marginal effects           Number of obs =  10779
                                                        Wald chi2(8)  = 212.50
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -4846.2427                       Pseudo R2     = 0.0147

------------------------------------------------------------------------------
             |               Robust
head_n~t |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
   black*|  -.0699499    .011929    -6.28   0.000   .174908   -.09333 -.046569
 CherNat*|   .1623908   .0047867     7.96   0.000   .003195   .153009  .171773
  cherfr*|   .0089239     .08043     0.11   0.913   .000206  -.148716  .166564
     age |  -.0009337    .001802    -0.52   0.604   45.9815  -.004466  .002598
    age2 |   .0000312   .0000186     1.68   0.093   2302.56  -5.2e-06  .000068
 lit_dum*|   .0129249   .0107178     1.22   0.221   .816053  -.008082  .033931
 famsize |  -.0020449   .0015061    -1.36   0.175   5.53118  -.004997  .000907
head_f~r*|   -.040323   .0081757    -4.73   0.000   .726584  -.056347 -.024299
---------+--------------------------------------------------------------------
  obs. P |   .8297295
 pred. P |   .8339138  (at x-bar)
--------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(4) tdec(4) rdec(4) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. //Now farmers
>
> dprobit head_farmer black CherNat cherfr  if male==1 & head==1
[pweight=hhwt1];

(sum of wgt is   2.3550e+06)
Iteration 0:   log pseudolikelihood =  -16331.55
Iteration 1:   log pseudolikelihood = -16173.536
Iteration 2:   log pseudolikelihood =  -16173.52
Iteration 3:   log pseudolikelihood =  -16173.52

Probit regression, reporting marginal effects           Number of obs =  24738
```

```
                                                      Wald chi2(3)  = 380.65
                                                      Prob > chi2   = 0.0000
Log pseudolikelihood =  -16173.52                     Pseudo R2     = 0.0097

------------------------------------------------------------------------------
             |               Robust
head_f~r |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
   black*|  -.1143158    .006665   -17.24   0.000   .353443  -.127379 -.101253
 CherNat*|   .0899642   .0179556     4.72   0.000   .001615   .054772  .125157
  cherfr*|   .1317752    .027843     4.23   0.000   .000164   .077204  .186346
---------+--------------------------------------------------------------------
  obs. P |   .6276765
 pred. P |    .628855  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(4) tdec(4) rdec(4) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. dprobit head_farmer black CherNat cherfr age age2 lit_dum famsize  if male==1
& head==1  [pweight=hhwt1];

(sum of wgt is   2.3539e+06)
Iteration 0:   log pseudolikelihood = -16312.796
Iteration 1:   log pseudolikelihood =  -15559.36
Iteration 2:   log pseudolikelihood = -15557.244
Iteration 3:   log pseudolikelihood = -15557.244

Probit regression, reporting marginal effects         Number of obs =  24712
                                                      Wald chi2(7)  =1377.35
                                                      Prob > chi2   = 0.0000
Log pseudolikelihood = -15557.244                     Pseudo R2     = 0.0463

------------------------------------------------------------------------------
             |               Robust
head_f~r |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
   black*|  -.1040751   .0076078   -13.76   0.000   .353264  -.118986 -.089164
 CherNat*|   .0986292   .0179452     5.12   0.000   .001609   .063457  .133801
  cherfr*|   .1049738    .030075     3.22   0.001   .000158   .046028   .16392
     age |   .0043697   .0013615     3.21   0.001   41.4804   .001701  .007038
    age2 |  -.0000137   .0000147    -0.93   0.352   1923.15  -.000042  .000015
 lit_dum*|  -.0045727   .0077605    -0.59   0.556    .68558  -.019783  .010638
 famsize |    .034579   .0014284    24.10   0.000   5.18122   .031779  .037379
---------+--------------------------------------------------------------------
  obs. P |   .6277996
 pred. P |    .633959  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(4) tdec(4) rdec(4) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. //do farmers own homes
>
>
> dprobit own black CherNat cherfr if head_farmer==1 & male==1 & head==1
[pweight=hhwt1];

(sum of wgt is   1.4777e+06)
Iteration 0:   log pseudolikelihood = -10866.174
Iteration 1:   log pseudolikelihood = -9936.1652
Iteration 2:   log pseudolikelihood = -9932.0509
Iteration 3:   log pseudolikelihood = -9932.0478
Iteration 4:   log pseudolikelihood = -9932.0478
```

```
Probit regression, reporting marginal effects           Number of obs =  15684
                                                        Wald chi2(3)  =2082.08
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -9932.0478                       Pseudo R2     = 0.0860

------------------------------------------------------------------------------
             |                 Robust
         own |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
       black*|  -.3631393   .0079478   -40.52   0.000   .311822  -.378717 -.347562
    CherNat*|   .3526543   .0192122    13.42   0.000   .001938   .314999  .390309
     cherfr*|   .3131185   .0349229     7.09   0.000     .0002   .244671  .381566
-------------+----------------------------------------------------------------
      obs. P |   .4871924
     pred. P |   .4810577  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(4) tdec(4) rdec(4) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. dprobit own black CherNat cherfr age age2 lit_dum famsize  if head_farmer==1
& male==1 & head==1  [pweight=hhwt1];

(sum of wgt is   1.4773e+06)
Iteration 0:   log pseudolikelihood = -10855.722
Iteration 1:   log pseudolikelihood = -9099.5694
Iteration 2:   log pseudolikelihood = -9062.2336
Iteration 3:   log pseudolikelihood = -9062.1667
Iteration 4:   log pseudolikelihood = -9062.1667

Probit regression, reporting marginal effects           Number of obs =  15669
                                                        Wald chi2(7)  =3270.12
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -9062.1667                       Pseudo R2     = 0.1652

------------------------------------------------------------------------------
             |                 Robust
         own |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
       black*|   -.313969   .0095693   -29.98   0.000   .311766  -.332724 -.295214
    CherNat*|   .4039357   .0165462    15.29   0.000   .001931   .371506  .436366
     cherfr*|   .2450247   .0437951     4.95   0.000   .000193   .159188  .330862
         age |   .0289256   .0020083    14.40   0.000   42.8513   .024989  .032862
        age2 |  -.0001863   .0000213    -8.74   0.000    2032.5  -.000228 -.000145
    lit_dum*|   .2028193    .010456    18.66   0.000   .698243   .182326  .223313
    famsize |   .0023332   .0018405     1.27   0.205   5.59145  -.001274   .00594
-------------+----------------------------------------------------------------
      obs. P |   .4871175
     pred. P |   .4779256  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(4) tdec(4) rdec(4) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

. dprobit own black CherNat cherfr age age2 lit_dum famsize if head_farmer==1 &
male==1 & head==1 [pweight=hhwt1];

(sum of wgt is   1.4773e+06)
Iteration 0:   log pseudolikelihood = -10855.722
Iteration 1:   log pseudolikelihood = -9099.5694
Iteration 2:   log pseudolikelihood = -9062.2336
Iteration 3:   log pseudolikelihood = -9062.1667
Iteration 4:   log pseudolikelihood = -9062.1667
```

```
Probit regression, reporting marginal effects           Number of obs =  15669
                                                        Wald chi2(7)  =3270.12
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -9062.1667                       Pseudo R2     = 0.1652

------------------------------------------------------------------------------
             |               Robust
         own |      dF/dx    Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
       black*|   -.313969   .0095693   -29.98   0.000   .311766  -.332724 -.295214
    CherNat*|   .4039357   .0165462    15.29   0.000   .001931   .371506  .436366
     cherfr*|   .2450247   .0437951     4.95   0.000   .000193   .159188  .330862
        age |   .0289256   .0020083    14.40   0.000   42.8513   .024989  .032862
       age2 |  -.0001863   .0000213    -8.74   0.000    2032.5  -.000228 -.000145
    lit_dum*|   .2028193    .010456    18.66   0.000   .698243   .182326  .223313
    famsize |   .0023332   .0018405     1.27   0.205   5.59145  -.001274   .00594
-------------+----------------------------------------------------------------
      obs. P |   .4871175
     pred. P |   .4779256  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using 1880pvals, ctitle(Model) bdec(4) tdec(4) rdec(4) alpha(.001,
.01, .05) addstat(Pseudo R2, e(r2_p)) addnote() word  bracket ;
1880pvals.rtf
dir : seeout

.
end of do-file
```

```
. //This do file examines intergenerational human capital attainment.
. //It is meant to be used with the file "Intergen.dta"
.
. #delimit;
delimiter now ;
. //first, adults in 1900 who were non-HoH in 1880 and age<18.  results
clustered on 1880 HH.
>
>
> dprobit lit1900  headlit1880  if cohort2==1 , cluster( a_Family_Group_ID ) ;

Iteration 0:   log pseudolikelihood = -206.98517
Iteration 1:   log pseudolikelihood = -203.59643
Iteration 2:   log pseudolikelihood = -203.54372
Iteration 3:   log pseudolikelihood = -203.54369

Probit regression, reporting marginal effects           Number of obs =    406
                                                        Wald chi2(1)  =   5.87
                                                        Prob > chi2   = 0.0154
Log pseudolikelihood = -203.54369                       Pseudo R2     = 0.0166

                    (Std. Err. adjusted for 204 clusters in a_Family_Group_ID)
------------------------------------------------------------------------------
             |               Robust
 lit1900 |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
hea~1880*|   .1343202   .0442931     2.42   0.015   .157635   .047507  .221133
---------+--------------------------------------------------------------------
  obs. P |   .7931034
 pred. P |   .7982847  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using inter,  bdec(2) tdec(2) rdec(2) alpha(.01, .05, .1)
addstat(Pseudo R2, e(r2_p)) addnote() word  bracket replace ;
inter.rtf
dir : seeout

. dprobit lit1900  headlit1880 q1-q3 if cohort2==1 , cluster( a_Family_Group_ID
);

Iteration 0:   log pseudolikelihood = -206.98517
Iteration 1:   log pseudolikelihood = -200.86569
Iteration 2:   log pseudolikelihood = -200.79684
Iteration 3:   log pseudolikelihood = -200.79679

Probit regression, reporting marginal effects           Number of obs =    406
                                                        Wald chi2(4)  =   9.18
                                                        Prob > chi2   = 0.0568
Log pseudolikelihood = -200.79679                       Pseudo R2     = 0.0299

                    (Std. Err. adjusted for 204 clusters in a_Family_Group_ID)
------------------------------------------------------------------------------
             |               Robust
 lit1900 |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
---------+--------------------------------------------------------------------
hea~1880*|   .1299909   .0459949     2.25   0.025   .157635   .039843  .220139
      q1*|  -.2240152   .1284603    -1.97   0.049   .044335  -.475793  .027762
      q2*|  -.0923151   .0654077    -1.50   0.135   .241379  -.220512  .035882
      q3*|  -.0453572   .0502512    -0.92   0.360   .347291  -.143848  .053133
---------+--------------------------------------------------------------------
  obs. P |   .7931034
 pred. P |   .8009029  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using inter,  bdec(2) tdec(2) rdec(2) alpha(.01, .05, .1)
addstat(Pseudo R2, e(r2_p)) addnote() word  bracket append ;
inter.rtf
```

```
dir : seeout

. dprobit lit1900 headlit1880 q1-q3 male1900 age age2 if cohort2==1 , cluster(
a_Family_Group_ID );

Iteration 0:   log pseudolikelihood = -201.31288
Iteration 1:   log pseudolikelihood = -188.27698
Iteration 2:   log pseudolikelihood = -187.62589
Iteration 3:   log pseudolikelihood = -187.58297
Iteration 4:   log pseudolikelihood = -187.58267
Iteration 5:   log pseudolikelihood = -187.58267

Probit regression, reporting marginal effects           Number of obs =    399
                                                        Wald chi2(7)  =  22.23
                                                        Prob > chi2   = 0.0023
Log pseudolikelihood = -187.58267                       Pseudo R2     = 0.0682

                    (Std. Err. adjusted for 203 clusters in a_Family_Group_ID)
------------------------------------------------------------------------------
             |               Robust
    lit1900 |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
hea~1880*|   .1119865   .0484007     1.89   0.059   .157895   .017123   .20685
      q1*|  -.2800792   .1347992    -2.35   0.019   .042607  -.544281 -.015878
      q2*|    -.11746   .0658561    -1.92   0.055   .243108  -.246536  .011616
      q3*|  -.0453717   .0484161    -0.95   0.341   .353383  -.140266  .049522
male1900*|  -.0021606   .0388288    -0.06   0.956   .478697  -.078264  .073942
     age |   .0476012   .0162222     3.08   0.002   26.1654   .015806  .079396
    age2 |  -.0008883   .0002903    -3.21   0.001   719.143  -.001457 -.000319
-------------+----------------------------------------------------------------
  obs. P |   .7969925
 pred. P |   .8070913  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using inter,  bdec(2) tdec(2) rdec(2) alpha(.01, .05, .1)
addstat(Pseudo R2, e(r2_p)) addnote() word  bracket append ;
inter.rtf
dir : seeout

. //next, kids in 1900.
>
> dprobit lit1900  headlit1900 if cohort3==1 & age>10 & age<18, robust ;

Iteration 0:   log pseudolikelihood = -292.31154
Iteration 1:   log pseudolikelihood = -288.64206
Iteration 2:   log pseudolikelihood = -288.64026

Probit regression, reporting marginal effects           Number of obs =    496
                                                        Wald chi2(1)  =   7.37
                                                        Prob > chi2   = 0.0067
Log pseudolikelihood = -288.64026                       Pseudo R2     = 0.0126

------------------------------------------------------------------------------
             |               Robust
    lit1900 |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
hea~1900*|   .1201156    .045466     2.71   0.007   .697581   .031004  .209227
-------------+----------------------------------------------------------------
  obs. P |   .7237903
 pred. P |   .7262023  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using inter, bdec(2) tdec(2) rdec(2) alpha(.01, .05, .1)
addstat(Pseudo R2, e(r2_p)) addnote() word  bracket append ;
inter.rtf
dir : seeout
```

```
. dprobit lit1900  headlit1900 headq1-headq3 if cohort3==1 & age>10 & age<18,
robust ;

Iteration 0:   log pseudolikelihood = -292.31154
Iteration 1:   log pseudolikelihood =   -285.234
Iteration 2:   log pseudolikelihood = -285.22555
Iteration 3:   log pseudolikelihood = -285.22555

Probit regression, reporting marginal effects           Number of obs =    496
                                                        Wald chi2(4)  =  13.76
                                                        Prob > chi2   = 0.0081
Log pseudolikelihood = -285.22555                       Pseudo R2     = 0.0242

------------------------------------------------------------------------------
             |               Robust
    lit1900 |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
hea~1900*|   .1467714    .047256     3.19   0.001   .697581   .054151  .239391
  headq1*|  -.1192677   .0524787    -2.30   0.021   .389113  -.222124 -.016411
  headq2*|  -.0976571   .0721357    -1.42   0.157   .135081   -.23904  .043726
  headq3*|  -.0250401   .0591999    -0.43   0.669   .254032   -.14107   .09099
-------------+----------------------------------------------------------------
  obs. P |   .7237903
 pred. P |   .7285772  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

. outreg2 using inter,  bdec(2) tdec(2) rdec(2) alpha(.01, .05, .1)
addstat(Pseudo R2, e(r2_p)) addnote() word  bracket append ;
inter.rtf
dir : seeout

. dprobit lit1900 headlit1900 headq1-headq3 male1900 age age2 if cohort3==1 &
age>10 & age<18 , robust;

Iteration 0:   log pseudolikelihood = -292.31154
Iteration 1:   log pseudolikelihood = -268.75274
Iteration 2:   log pseudolikelihood =  -268.5996
Iteration 3:   log pseudolikelihood = -268.59956

Probit regression, reporting marginal effects           Number of obs =    496
                                                        Wald chi2(7)  =  44.77
                                                        Prob > chi2   = 0.0000
Log pseudolikelihood = -268.59956                       Pseudo R2     = 0.0811

------------------------------------------------------------------------------
             |               Robust
    lit1900 |      dF/dx   Std. Err.      z    P>|z|     x-bar  [    95% C.I.   ]
-------------+----------------------------------------------------------------
hea~1900*|   .1316243   .0476773     2.85   0.004   .697581   .038178   .22507
  headq1*|  -.0935557    .052409    -1.81   0.070   .389113  -.196275  .009164
  headq2*|  -.0614396   .0703245    -0.91   0.365   .135081  -.199273  .076394
  headq3*|   -.001339   .0576066    -0.02   0.981   .254032  -.114246  .111568
male1900*|   -.193557   .0401708    -4.75   0.000    .47379   -.27229 -.114824
     age |   .1398362    .165478     0.85   0.398   13.9113  -.184495  .464167
    age2 |  -.0038862   .0059365    -0.66   0.512   197.339  -.015521  .007749
-------------+----------------------------------------------------------------
  obs. P |   .7237903
 pred. P |   .7411042  (at x-bar)
------------------------------------------------------------------------------
(*) dF/dx is for discrete change of dummy variable from 0 to 1
    z and P>|z| correspond to the test of the underlying coefficient being 0

.  outreg2 using inter,  bdec(2) tdec(2) rdec(2) alpha(.01, .05, .1)
addstat(Pseudo R2, e(r2_p)) addnote() word  bracket append ;
inter.rtf
dir : seeout

.
end of do-file
```