. doedit "C:\Users\rawatsa\OneDrive - University of Cincinnati\StataProjects\ohio\_taxation\code\ohio\_road\_housing\_census\_merge.do"

. include "C:\Users\rawatsa\AppData\Local\Temp\STD52b8\_000000.tmp"

. \*-------------------------------------------------------------------------------------------;

. \* Purpose: Merge cleaned housing data with census & road voting data

. \* Created by: Saani Rawat

. \* Log:

. \* 1. 05July2022: finished cleaning roads\_and\_census dataset ;

. \* 2. 06July2022: Added merge based on t+1,...,t+10 variables

. \*-------------------------------------------------------------------------------------------;

.

. \* Defining root location via global macros;

. global root "C:/Users/rawatsa/OneDrive - University of Cincinnati/StataProjects/ohio\_taxation"

. global code "${root}/code"

. global data "${root}/data"

. global shared "\\cobshares.uccob.uc.edu\economics$\Julia\roads"

.

. \* defining lists/scalars;

. scalar cutoff = 50

.

. \*importing tax levies dataset (also contains census info);

. use "${data}/roads\_levies2\_census\_9118.dta", clear

. sort TENDIGIT\_FIPS year

.

. \*storing a snapshot (to restore later, if needed);

. preserve

.

. \*calculating votes\_pct\_for and votes\_pct\_for\_cntr

. generate votes\_pct\_for = (votes\_for / (votes\_for + votes\_against))\*100

. generate votes\_pct\_for\_cntr = abs(votes\_pct\_for - cutoff)

.

. \*---------------------------------------------------------------------------------------------;

. \* filtering to remove dups ;

. \*---------------------------------------------------------------------------------------------;

.

. \*1st type of filter; keep observations closest to cutoff;

. sort TENDIGIT\_FIPS year votes\_pct\_for\_cntr

. quietly by TENDIGIT\_FIPS year: gen dup = cond(\_N==1, 0, \_n)

. drop if dup > 1

(485 observations deleted)

. drop dup

.

. \*2nd type of filter: leep the highest milage percent;

. // restore

. // preserve

. // quietly by TENDIGIT\_FIPS year: gen dup = cond(\_N==1, 0, \_n)

. // drop if dup > 1

.

. \* creating new year variables: t+1, ...., t+10. Merge will be done based on these variables

. forvalues t = 1/10 {

2. generate yr\_t\_plus\_`t' = year + `t'

3. }

.

. order TENDIGIT\_FIPS year yr\_t\_plus\_1-yr\_t\_plus\_10, first

. // keep TENDIGIT\_FIPS year yr\_t\_plus\_1-yr\_t\_plus\_10

.

. \* saving after filtering

. save "${data}/roads\_and\_census.dta", replace

file C:/Users/rawatsa/OneDrive - University of Cincinnati/StataProjects/ohio\_taxation/data/roads\_and\_census.dta saved

.

.

. \*---------------------------------------------------------------------------------------------;

. \* Merging housing and roads (using TENDIGIT\_FIPS and year variable - t periods ahead) ;

. \*---------------------------------------------------------------------------------------------;

.

. \*importing housing sales data;

. forvalues t = 1/10 {

2. clear all

3. use "${shared}\housesales\_9521\_slim.dta", clear

4. order TENDIGIT\_FIPS year, first

5. sort TENDIGIT\_FIPS year

6. rename year yr\_t\_plus\_`t'

7.

. \*destring TENDIGIT\_FIPS and year (converting into numeric) before merging;

. destring TENDIGIT\_FIPS yr\_t\_plus\_`t', replace

8. format %10.0f TENDIGIT\_FIPS

9. recast float yr\_t\_plus\_`t'

10.

. \* merging with roads and census data;

. merge m:1 TENDIGIT\_FIPS yr\_t\_plus\_`t' using "${data}/roads\_and\_census.dta"

11.

. \* saving dataset with matches and non-matches;

. save "${shared}\housing\_roads\_census\_t\_plus\_`t'.dta", replace

12.

. }

TENDIGIT\_FIPS: all characters numeric; replaced as double

yr\_t\_plus\_1: all characters numeric; replaced as int

(859782 missing values generated)

Result Number of obs

-----------------------------------------

Not matched 6,772,881

from master 6,772,762 (\_merge==1)

from using 119 (\_merge==2)

Matched 373,077 (\_merge==3)

-----------------------------------------

(file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_1.dta not found)

file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_1.dta saved

TENDIGIT\_FIPS: all characters numeric; replaced as double

yr\_t\_plus\_2: all characters numeric; replaced as int

(859782 missing values generated)

Result Number of obs

-----------------------------------------

Not matched 6,752,411

from master 6,752,315 (\_merge==1)

from using 96 (\_merge==2)

Matched 393,524 (\_merge==3)

-----------------------------------------

(file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_2.dta not found)

file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_2.dta saved

TENDIGIT\_FIPS: all characters numeric; replaced as double

yr\_t\_plus\_3: all characters numeric; replaced as int

(859782 missing values generated)

Result Number of obs

-----------------------------------------

Not matched 6,754,069

from master 6,753,971 (\_merge==1)

from using 98 (\_merge==2)

Matched 391,868 (\_merge==3)

-----------------------------------------

(file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_3.dta not found)

file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_3.dta saved

TENDIGIT\_FIPS: all characters numeric; replaced as double

yr\_t\_plus\_4: all characters numeric; replaced as int

(859782 missing values generated)

Result Number of obs

-----------------------------------------

Not matched 6,754,296

from master 6,754,044 (\_merge==1)

from using 252 (\_merge==2)

Matched 391,795 (\_merge==3)

-----------------------------------------

(file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_4.dta not found)

file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_4.dta saved

TENDIGIT\_FIPS: all characters numeric; replaced as double

yr\_t\_plus\_5: all characters numeric; replaced as int

(859782 missing values generated)

Result Number of obs

-----------------------------------------

Not matched 6,760,123

from master 6,759,742 (\_merge==1)

from using 381 (\_merge==2)

Matched 386,097 (\_merge==3)

-----------------------------------------

(file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_5.dta not found)

file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_5.dta saved

TENDIGIT\_FIPS: all characters numeric; replaced as double

yr\_t\_plus\_6: all characters numeric; replaced as int

(859782 missing values generated)

Result Number of obs

-----------------------------------------

Not matched 6,769,410

from master 6,768,862 (\_merge==1)

from using 548 (\_merge==2)

Matched 376,977 (\_merge==3)

-----------------------------------------

(file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_6.dta not found)

file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_6.dta saved

TENDIGIT\_FIPS: all characters numeric; replaced as double

yr\_t\_plus\_7: all characters numeric; replaced as int

(859782 missing values generated)

Result Number of obs

-----------------------------------------

Not matched 6,777,048

from master 6,776,329 (\_merge==1)

from using 719 (\_merge==2)

Matched 369,510 (\_merge==3)

-----------------------------------------

(file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_7.dta not found)

file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_7.dta saved

TENDIGIT\_FIPS: all characters numeric; replaced as double

yr\_t\_plus\_8: all characters numeric; replaced as int

(859782 missing values generated)

Result Number of obs

-----------------------------------------

Not matched 6,796,994

from master 6,796,093 (\_merge==1)

from using 901 (\_merge==2)

Matched 349,746 (\_merge==3)

-----------------------------------------

(file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_8.dta not found)

file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_8.dta saved

TENDIGIT\_FIPS: all characters numeric; replaced as double

yr\_t\_plus\_9: all characters numeric; replaced as int

(859782 missing values generated)

Result Number of obs

-----------------------------------------

Not matched 6,808,387

from master 6,807,358 (\_merge==1)

from using 1,029 (\_merge==2)

Matched 338,481 (\_merge==3)

-----------------------------------------

(file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_9.dta not found)

file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_9.dta saved

TENDIGIT\_FIPS: all characters numeric; replaced as double

yr\_t\_plus\_10: all characters numeric; replaced as int

(859782 missing values generated)

Result Number of obs

-----------------------------------------

Not matched 6,815,061

from master 6,813,886 (\_merge==1)

from using 1,175 (\_merge==2)

Matched 331,953 (\_merge==3)

-----------------------------------------

(file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_10.dta not found)

file \\cobshares.uccob.uc.edu\economics$\Julia\roads\housing\_roads\_census\_t\_plus\_10.dta saved