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Suggested citation information:

"Part of the data used in this study comes from that used in Brasington (2007), Brasington and Haurin (2006), and Brasington and Hite (2008)."
• David M. Brasington and Donald R. Haurin. "Educational Outcomes and House Values: A Test of the Value-Added Approach," *Journal of Regional Science* 46(2), May 2006, p.245-268.
● Brasington, David M. "Private Schools and the Willingness to Pay for Public Schooling," *Education Finance and Policy* 2(2), Spring 2007, p. 152-174.
• David M. Brasington and Diane Hite. "A Mixed Index Approach to Identifying Hedonic Price Models." *Regional Science and Urban Economics* 38(3), May 2008, p. 271-284.

Variable codesheet for data set 2000data1.csv, read by datatemplate.sas

j – unique house identifier code created in data2.sas about 7/23/03

Irn: public school district identifier, 5-digit, multiple sources; many source files like discipline.xls have a matching of irn to school district name, arranged by county

County: county identifier, 2-digit 01-88, from vit4758.txt Ohio Department of Education, in data1.sas; also read in from netrankfin.csv but not kept from either source: pticode and countyfips more useful

Groupid: Ohio description of school district type, 0 to 7, where 0 = outlier, 1 = big eight cities, 2 = other large inner city sds, 3 = independent sd, 4 = satellite cities, 5 = rural districts, 6 = rural poor districts (about 10% AFDC welfare recipient or more), 7 = wealthy districts (either by income or property value or some combo), from vit4758.txt Ohio Department of Education, see vit4758_code.doc

fadm_sd: fall school district enrollment for 1998; Kindergarten thru grade 12 enrollment minus unauthorized attendance minus out of state enrollment plus non-attending pupils, from vit4758.txt Ohio Department of Education, see vit4758_code.doc

spadm_sd: spring school district enrollment for 1998; Kindergarten thru grade 12 enrollment minus unauthorized attendance minus out of state enrollment plus non-attending pupils, from vit4758.txt Ohio Department of Education, see vit4758_code.doc

pctmin_sd: Non-white enrollment divided by total enrollment in school district 1998, from vit4758.txt Ohio DOE

pctadc_sd: Number of ADC (welfare: Aid to Families with Dependent Children) children divided by (Total Average Daily Membership - 50% Kindergarten Average Daily Membership) in each school district for 1998, from vit4758.txt Ohio Department of Education

avginc_sd: Average Income per tax return in school district for 1998 as supplied by Department of Taxation, from vit4758.txt Ohio Department of Education

valpup_sd: Property value per pupil. Total assessed valuation divided by total Average Daily Membership by district for 1998, from vit4758.txt Ohio Department of Education

totrevpup: Total revenue per pupil. Sum of revenues from local (general funds only), intermediate, state and federal sources divided by (spring Average Daily Membership minus 75% Joint Vocational School Full Time Equivalent) by school district for 1998, from vit4758.txt Ohio Department of Education

totrev2: Total revenue per pupil. Sum of revenues from local (all funds), intermediate, state and federal sources divided by (spring Average Daily Membership minus 75% Joint Vocational School Full Time Equivalent) by school district for 1998, from vit4758.txt Ohio Department of Education

strevpup: State revenue per pupil. Revenues from State sources (Gen fund only) divided by (spring Average Daily Membership minus 75% Joint Vocational School Full Time Equivalent) by school district for 1998, from vit4758.txt Ohio Department of Education

locrevpup: Local revenue per pupil. Revenues from local sources (General funds only) divided by (spring Average Daily Membership minus 75% Joint Vocational School Full Time Equivalent) by school district for 1998, from vit4758.txt Ohio Department of Education

xpup_sd: Expenditure per pupil. Total current operating expenditures from general funds (Adjusted from FY93 on) divided by (spring Average Daily Membership minus 75% Joint Vocational School Full Time Equivalent) for 1998 from vit4758.txt Ohio Department of Education

xpup2_sd: Expenditure per pupil. Total current operating expenditures from all funds (Adjusted from FY93 on) divided by (spring Average Daily Membership minus 75% Joint Vocational School Full Time Equivalent) for 1998 from vit4758.txt Ohio Department of Education

effmills_sd: Tax rate. Taxes received from all real properties multiplied by 1,000 divided by total real property valuation. Effective millage which we show for FY98 is actually from tax year 1996 (Calendar) collectible in calendar year 1997. By school district, for 1998 from vit4758.txt Ohio Department of Education

tchpay_sd: Average teacher salary for the district, for 1998 from vit4758.txt Ohio Department of Education

ptratio_sd: Pupil/teacher ratio. Basic Average Daily Membership divided by number of regular classroom teachers for school district, for 1998 from vit4758.txt Ohio Department of Education [BADM defined further in vit4758_code.doc]

ptratio2_sd: Pupil/teacher ratio. Basic Average Daily Membership divided by number of total classroom teachers for school district, for 1998 from vit4758.txt Ohio Department of Education [BADM defined further in vit4758_code.doc]

psfratio_sd: Pupil/staff ratio. Total Average Daily Membership divided by total certificated staff. By school district, for 1998 from vit4758.txt Ohio Department of Education

sfpctmin_sd: %minority staff. Non-white certificated staff divided by total certified staff. By school district, for 1998 from vit4758.txt Ohio Department of Education

pcttchnoba_sd: Number of teachers without a degree divided by the total number of Regular teachers. By school district, for 1998 from vit4758.txt Ohio Department of Education

pcttchba_sd: Number of teachers with a Bachelor degree divided by the total number of Regular teachers. By school district, for 1998 from vit4758.txt Ohio Department of Education

pcttch150_sd: Number of teachers with a Bachelor degree and 150 total semester hours divided by the total number of Regular teachers. By school district, for 1998 from vit4758.txt Ohio Department of Education

pcttchmast_sd: Number of teachers with a Masters degree divided by the total number of Regular teachers. By school district, for 1998 from vit4758.txt Ohio Department of Education

tchexp_sd: The average total experience of Regular teachers by school district, for 1998 from vit4758.txt Ohio Department of Education

attrate_sd: Student attendance rate. Average Daily Attendance divided by Average Daily Membership for students, By school district, for 1998 from vit4758.txt Ohio Department of Education

sfattrate_sd: Staff attendance rate. Aggregate days of attendance divided by (aggregate days of attendance plus aggregate days of absence) for staff, By school district, for 1998 from vit4758.txt Ohio Department of Education

droprte_sd: Dropout rate. Number of dropouts divided by Grade 7-12 enrollment (JVS included) By school district, for 1998 from vit4758.txt Ohio Department of Education

gradrte_sd: Graduation rate. Number of regular graduates divided by ninth grade enrollment four years prior [stupid measure because doesn't account for natural inflows and outflows of students over time], by school district, for 1998 from vit4758.txt Ohio Department of Education

cprate_sd: %college prep. Percent of regular graduates who followed college prep curriculum, By school district, for 1998; has fair number of missing values, from vit4758.txt Ohio Department of Education

nreturns: Total number of income tax returns, by school district, for 1999 income tax returns, from y4cy99_alt.xls Ohio Department of Taxation "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

nsinglepar: Number of single parent income tax returns, by school district, for 1999 income tax returns, from y4cy99_alt.xls Ohio Department of Taxation "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

ndepreturns: number of income tax returns filed by dependents, by school district, for 1999 income tax returns, from y4cy99_alt.xls Ohio Department of Taxation "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

ncredit: number of income tax returns filed with joint filer credit, by school district, for 1999 income tax returns, from y4cy99_alt.xls Ohio Department of Taxation "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

nmarreturns: number of income tax returns filed by married couples, by school district, for 1999 income tax returns, from y4cy99_alt.xls Ohio Department of Taxation "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

ntwowagecouples: number of income tax returns filed by two-wage earner couples, by school district, for 1999 income tax returns, from y4cy99_alt.xls Ohio Department of Taxation "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

pctmartwowage: percent of married couples that are two-wage earner couples by school district, for 1999 income tax returns, from y4cy99_alt.xls Ohio Department of Taxation; converted from proportion to percent in data1.sas 3/10/04 "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

pctdepfilers: percent of total returns filed by dependents, by school district, for 1999 income tax returns, from y4cy99_alt.xls Ohio Department of Taxation; converted from proportion to percent in data1.sas 3/10/04 "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

pctsinsd: percent of all returns that are single returns, by school district, for 1999 income tax returns, from y4cy99_alt.xls Ohio Department of Taxation; converted from proportion to percent in data1.sas 3/10/04 "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

pctmarjointret: married filing joint returns as a proportion of total returns, by school district, for 1999 income tax returns, from y4cy99_alt.xls Ohio Department of Taxation "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

pctmarsepret: married filing separate returns as a proportion of total returns, by school district, for 1999 income tax returns, from y4cy99_alt.xls Ohio Department of Taxation "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

pctsinparsd: single-parent returns as a proportion of total returns, by school district, for 1999 income tax returns, from y4cy99_alt.xls Ohio Department of Taxation "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

pctsinnonparsd: percent of total returns that are single non-parent returns, by school district, for 1999 income tax returns, from y4cy99_alt.xls Ohio Department of Taxation; converted from proportion to percent in data1.sas 3/10/04 "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

pcttwowagesd: percent of total returns excluding dependent returns that are two wage earner hhlds, by school district, for 1999 income tax returns, created from y4cy99_alt.xls Ohio Department of Taxation; converted from proportion to percent in data1.sas 3/10/04 "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

pctmarsd: percent of total income tax filers that are married households in school district, including married but separated people, for 1999 income tax returns, created from y4cy99_alt.xls Ohio Department of Taxation; converted from proportion to percent in data2.sas 3/12/04 "Demographic Characteristics of 1999 Income Tax Returns Filed by School District"

take4cit00: number of students in school district required to take and pass Ohio 4th grade citizenship proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_4.csv from Education Management Information System; added to data1.sas 4/25/03

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take4sci00: number of students in school district required to take and pass Ohio 4th grade science proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_4.csv from Education Management Information System; added to data1.sas 4/25/03

pctbelow4sci00: percent of students in school district who are below proficient on Ohio 4th grade science proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_4.csv from Education Management Information System; added to data1.sas 4/25/03

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take6cit00: number of students in school district required to take and pass Ohio 6th grade citizenship proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_6.csv from Education Management Information System; added to data1.sas 4/25/03

pctbelow6cit00: percent of students in school district who are below proficient on Ohio 6th grade citizenship proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_6.csv from Education Management Information System; added to data1.sas 4/25/03

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pctbelow6read00: percent of students in school district who are below proficient on Ohio 6th grade reading proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_6.csv from Education Management Information System; added to data1.sas 4/25/03

pctprof6read00: percent of students in school district who are exactly proficient on Ohio 6th grade reading proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_6.csv from Education Management Information System; added to data1.sas 4/25/03

pctadv6read00: percent of students in school district who passed Ohio 6th grade reading proficiency test at advanced level in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_6.csv from Education Management Information System; added to data1.sas 4/25/03

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take6sci00: number of students in school district required to take and pass Ohio 6th grade science proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_6.csv from Education Management Information System; added to data1.sas 4/25/03

pctbelow6sci00: percent of students in school district who are below proficient on Ohio 6th grade science proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_6.csv from Education Management Information System; added to data1.sas 4/25/03

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year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_6.csv from Education Management Information System; added to data1.sas 4/25/03

take2cit00: number of students in school district required to take and pass Ohio 12th grade citizenship proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_2.csv from Education Management Information System; added to data1.sas 4/25/03

pctbelow2cit00: percent of students in school district who are below proficient on Ohio 12th grade citizenship proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_2.csv from Education Management Information System; added to data1.sas 4/25/03

pctprof2cit00: percent of students in school district who are exactly proficient on Ohio 12th grade citizenship proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_2.csv from Education Management Information System; added to data1.sas 4/25/03

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take2math00: number of students in school district required to take and pass Ohio 12th grade math proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_2.csv from Education Management Information System; added to data1.sas 4/25/03

pctbelow2math00: percent of students in school district who are below proficient on Ohio 12th grade math proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_2.csv from Education Management Information System; added to data1.sas 4/25/03

pctprof2math00: percent of students in school district who are exactly proficient on Ohio 12th grade math proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_2.csv from Education Management Information System; added to data1.sas 4/25/03

pctadv2math00: percent of students in school district who passed Ohio 12th grade math proficiency test at advanced level in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_2.csv from Education Management Information System; added to data1.sas 4/25/03

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pctadv2math98: percent of students in school district who passed Ohio 12th grade math proficiency test at advanced level in 1998-1999 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_2.csv from Education Management Information System; added to data1.sas 4/25/03

take2read00: number of students in school district required to take and pass Ohio 12th grade reading proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_2.csv from Education Management Information System; added to data1.sas 4/25/03

pctbelow2read00: percent of students in school district who are below proficient on Ohio 12th grade reading proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_2.csv from Education Management Information System; added to data1.sas 4/25/03

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pctbelow2write00: percent of students in school district who are below proficient on Ohio 12th grade writing proficiency test in 2000-2001

school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_2.csv from Education Management Information System; added to data1.sas 4/25/03

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pctbelow2sci00: percent of students in school district who are below proficient on Ohio 12th grade science proficiency test in 2000-2001 school year, from RC2002_DISTRICT_PROFICIENCY_BY_LEVEL_2.csv from Education Management Information System; added to data1.sas 4/25/03

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sdrating: Education Management Information System rating of school district, where 1 = academic emergency, 2 = academic watch, 3 = continuous improvement, 4 = effective, 5 = excellent, which seem to be based on the number of school performance indicators met out of 27, which are enumerated in RC2002_DISTRICT_DATA.xls, from 2000-2001 school year, from RC2002_DISTRICT_DATA.csv, 4/28/03

pct4all00: percent of 4th grade students in school district who passed all five sections (citizenship, reading, writing, math, science) of Ohio proficiency test in 2000-01 school year, from RC2002_DISTRICT_DATA.csv, 4/28/03

pct4all99: percent of 4th grade students in school district who passed all five sections (citizenship, reading, writing, math, science) of

Ohio proficiency test in 1999-00 school year, from
RC2002_DISTRICT_DATA.csv, 4/28/03

pct4all98: percent of 4th grade students in school district who passed
all five sections (citizenship, reading, writing, math, science) of
Ohio proficiency test in 1998-99 school year, from
RC2002_DISTRICT_DATA.csv, 4/28/03

pct6all00: percent of 6th grade students in school district who passed
all five sections (citizenship, reading, writing, math, science) of
Ohio proficiency test in 2000-01 school year, from
RC2002_DISTRICT_DATA.csv, 4/28/03

pct6all99: percent of 6th grade students in school district who passed
all five sections (citizenship, reading, writing, math, science) of
Ohio proficiency test in 1999-00 school year, from
RC2002_DISTRICT_DATA.csv, 4/28/03

pct6all98: percent of 6th grade students in school district who passed
all five sections (citizenship, reading, writing, math, science) of
Ohio proficiency test in 1998-99 school year, from
RC2002_DISTRICT_DATA.csv, 4/28/03

pct9all00: percent of 9th grade students in school district who passed
all five sections (citizenship, reading, writing, math, science) of
Ohio proficiency test in 2000-01 school year, from
RC2002_DISTRICT_DATA.csv, 4/28/03

pct9all99: percent of 9th grade students in school district who passed
all five sections (citizenship, reading, writing, math, science) of
Ohio proficiency test in 1999-00 school year, from
RC2002_DISTRICT_DATA.csv, 4/28/03

pct9all98: percent of 9th grade students in school district who passed
all five sections (citizenship, reading, writing, math, science) of
Ohio proficiency test in 1998-99 school year, from
RC2002_DISTRICT_DATA.csv, 4/28/03

pct2all00: percent of 12th grade students in school district who passed
all five sections (citizenship, reading, writing, math, science) of
Ohio proficiency test in 2000-01 school year, from
RC2002_DISTRICT_DATA.csv, 4/28/03

pct2all99: percent of 12th grade students in school district who passed
all five sections (citizenship, reading, writing, math, science) of
Ohio proficiency test in 1999-00 school year, from
RC2002_DISTRICT_DATA.csv, 4/28/03

pct2all98: percent of 12th grade students in school district who passed
all five sections (citizenship, reading, writing, math, science) of
Ohio proficiency test in 1998-99 school year, from
RC2002_DISTRICT_DATA.csv, 4/28/03

stattrte00: student attendance rate for 2000-2001 school year for
school district, from RC2002_DISTRICT_DATA.csv, 4/28/03

stattrte99: student attendance rate for 1999-2000 school year for school district, from RC2002_DISTRICT_DATA.csv, 4/28/03

stattrte98: student attendance rate for 1998-1999 school year for school district, from RC2002_DISTRICT_DATA.csv, 4/28/03

gradrte00: graduation rate for 2000-2001 school year for school district; no good definition found because link to definitions was outdated, but none exceeds 100% so seems to be percent of 12th graders enrolled at beginning of school year who actually graduate, instead of four-years prior data Ohio Department of Education used to use for graduation rate, from RC2002_DISTRICT_DATA.csv, 4/28/03

gradrte99: graduation rate for 1999-00 school year for school district; no good definition found because link to definitions was outdated, but none exceeds 100% so seems to be percent of 12th graders enrolled at beginning of school year who actually graduate, instead of four-years prior data Ohio Department of Education used to use for graduation rate, from RC2002_DISTRICT_DATA.csv, 4/28/03 [DISTRICT TREND DOCUMENTATION has amazingly detailed definitions of basically anything EMIS records, including graduation rate]

gradrte98: graduation rate for 1998-99 school year for school district; no good definition found because link to definitions was outdated, but none exceeds 100% so seems to be percent of 12th graders enrolled at beginning of school year who actually graduate, instead of four-years prior data Ohio Department of Education used to use for graduation rate, from RC2002_DISTRICT_DATA.csv, 4/28/03

honorgrad_sd: percent of graduates of school district who graduated with State honors, which is type=2 diploma with honors, type=1 regular diploma, and those who couldn't pass proficiency tests are actually considered not to have graduated; median of 2000-01, 1999-00, and 98-99 school years because some zeroes reported; and for handful of school districts that reported zero for two of three years, they get reported their only non-zero value, so only ones with zeroes are those that reported zero all three years, from EMIS RC2002_DISTRICT_OTHER_STATS1.csv, 4/29/03

promote4_sd: percent of 4th graders in school district who got promoted to 5th grade in 2000-2001 school year, from Education Management Information System RC2002_DISTRICT_OTHER_STATS2.csv, 4/29/03

promote6_sd: percent of 6th graders in school district who got promoted to 7th grade in 2000-2001 school year, from Education Management Information System RC2002_DISTRICT_OTHER_STATS2.csv, 4/29/03 (also had promotion for two prior school years but I didn't create varbs for this)

ptratio00_sd: pupil/teacher ratio; average number of students per teacher K-12 in school district in 2000-1 school year, from Education Management Information System RC2002_DISTRICT_OTHER_STATS3.csv, 4/30/03

inareak8_sd: percent of courses taught by K-8 teachers who are certified in their area of teaching, for all courses, by school

district, for 2000-1 school year, from Education Management Information System RC2002_DISTRICT_OTHER_STATS3.csv, 4/30/03

inareahs_sd: percent of courses taught by high school teachers who are certified in their area of teaching, for core courses, by school district, for 2000-1 school year, from Education Management Information System RC2002_DISTRICT_OTHER_STATS3.csv, 4/30/03

teachattrate00_sd: teacher attendance rate in school district for 2000-1 school year from Education Management Information System RC2002_DISTRICT_OTHER_STATS3.csv, 4/30/03

tchpay00_sd: average teacher salary in school district; is total teacher salary including special ed, career technical, teaching services and regular classroom teachers divided by total teacher FTE, for 2000-1 school year from Education Management Information System RC2002_DISTRICT_OTHER_STATS3.csv, 4/30/03

locrevpup00_sd: revenue per pupil from local sources at school district level, where number of pupils is (total attendance days + total authorized absence + total unauthorized absence)/(number of days in session), for 2000-2001 school year from Education Management Information System RC2002_DISTRICT_OTHER_STATS4.csv, 4/30/03 [Education Management Information System DISTRICT TREND DOCUMENTATION has fund source codes included as revenue]

strevpup00_sd: revenue per pupil from state sources at school district level, where number of pupils is (total attendance days + total authorized absence + total unauthorized absence)/(number of days in session), for 2000-2001 school year from Education Management Information System RC2002_DISTRICT_OTHER_STATS4.csv, 4/30/03 [Education Management Information System DISTRICT TREND DOCUMENTATION has fund source codes included as revenue]

fedrevpup00_sd: revenue per pupil from federal sources at school district level, where number of pupils is (total attendance days + total authorized absence + total unauthorized absence)/(number of days in session), for 2000-2001 school year from Education Management Information System RC2002_DISTRICT_OTHER_STATS4.csv, 4/30/03 [Education Management Information System DISTRICT TREND DOCUMENTATION has fund source codes included as revenue]

totrevpup00_sd: revenue per pupil from all sources at school district level, where number of pupils is (total attendance days + total authorized absence + total unauthorized absence)/(number of days in session), for 2000-2001 school year from Education Management Information System RC2002_DISTRICT_OTHER_STATS4.csv, 4/30/03 [Education Management Information System DISTRICT TREND DOCUMENTATION has fund source codes included as revenue]

instrucxp00_sd: expenditure per pupil on instruction at school district level, including teachers, teacher aides, paraprofessionals, materials, computers, books, and other disposables that are used with students in a classroom setting, for 2000-2001 school year from

Education Management Information System
RC2002_DISTRICT_OTHER_STATS4.csv, 4/30/03

bldgxp00_sd: expenditure per pupil on capital goods (buses, building, heating equipment, etc.) and the resources necessary to clean, operate, repair and improve them, at school district level, for 2000-2001 school year from Education Management Information System
RC2002_DISTRICT_OTHER_STATS4.csv, 4/30/03

adminxp00_sd: expenditure per pupil on the building principal's office, with various function codes included, at school district level, for 2000-2001 school year from Education Management Information System
RC2002_DISTRICT_OTHER_STATS4.csv, 4/30/03

pupsupportxp00_sd: expenditure per pupil on pupil support, including guidance counseling, help in the media center or library, college advising, field trips, and psychological testing, at school district level, for 2000-2001 school year from Education Management Information System RC2002_DISTRICT_OTHER_STATS4.csv, 4/30/03

sfsupportxp00_sd: expenditure per pupil on staff support, including staff development, training, retraining, additional college courses, and advice, at school district level, for 2000-2001 school year from Education Management Information System
RC2002_DISTRICT_OTHER_STATS4.csv, 4/30/03

totxp00_sd: total expenditure per pupil at school district level, for 2000-2001 school year from Education Management Information System
RC2002_DISTRICT_OTHER_STATS4.csv, 4/30/03

levies: Did your district/community have any tax levies on the ballot from January 2001 to December 2001? And these could be any of 29 types of school levies; at school district level, from Education Management Information System RC2002_DISTRICT_OTHER_STATS4.csv, 4/30/03

numlevies: number of school tax levies that appeared on local ballots during 2001; there are four potential balloting times, and same issue coming up on multiple ballots gets counted multiple times; at school district level, from Education Management Information System
RC2002_DISTRICT_OTHER_STATS4.csv, 4/30/03

numleviespass: number of school tax levies that appeared on local ballots during 2001 that passed by simple majority vote; at school district level, from Education Management Information System
RC2002_DISTRICT_OTHER_STATS4.csv, 4/30/03

alldisciplines: number of disciplinary actions per 100 students at school district level for 2000-1 school year, from Education Management Information System discipline_sd.csv, 4/30/03; 2002 Education Management Information System DISTRICT TREND DATA documentation gives types of disciplinary actions, including expulsions, out of school and in-school suspensions, in-school alternative programs (special classes or programs), Saturday suspensions, emergency removal of student by school official, removal of students with disabilities by impartial state appointed hearing officer; reasons for discipline include use or

possession of gun, explosive, incendiary or poison gas or other weapon, sale/distribution of weapons, false alarms/bomb threats, fighting/violence, sale/distribution/use/possession of alcohol or other drugs, theft, vandalism, use/possession of tobacco, behavioral problems, and truancy

expulsions: number of expulsions per 100 students at school district level for 2000-1 school year, from Education Management Information System discipline_sd.csv, 4/30/03

withdrawals: number of students per 100 enrolled who have withdrawn from school for reasons of expulsion at school district level for 2000-1 school year, from Education Management Information System discipline_sd.csv, 4/30/03

suspensions: number of expulsions per 100 students, apparently includes only out of school suspensions, at school district level for 2000-1 school year, from Education Management Information System discipline_sd.csv, 4/30/03

otherdiscipline: number of in-school suspensions and Saturday suspensions and all "Other Disciplinary Actions" per 100 students at school district level for 2000-1 school year, from Education Management Information System discipline_sd.csv, 4/30/03

pol_unit: numeric identification code for political unit (school district) using Ohio Department of Taxation codes, not irn, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/1/03

line: Ohio Department of Taxation code for what type of school district property data is included, ranges from 1 to 18; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/1/03

flag: Ohio Department of Taxation code that I recoded, where 1 = land, 2 = building, and 3 = total; at school district level; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/1/03

agval00: value in 2000 of agricultural land, for each category found in "line", by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/1/03

resval00: value in 2000 of residential land, for each category found in "line", by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/1/03

minval00: value in 2000 of mineral property, for each category found in "line", by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/1/03

indval00: value in 2000 of industrial property, for each category found in "line", by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/1/03

comval00: value in 2000 of commercial property, for each category found in "line", by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/1/03

rrrval00: value in 2000 of railroad real property, for each category found in "line", by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/1/03

cl1val00: value in 2000 of Class 1 (residential and agricultural) property, for each category found in "line", by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/1/03

cl2val00: value in 2000 of Class 2 (mineral, industrial, commercial, and railroad real) property, for each category found in "line", by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/1/03

pctagval00: percent of property value in 2000 (land and buildings together) that is agricultural, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/6/03; converted from proportion to percent in data1.sas 3/10/04

pctresval00: percent of property value in 2000 (land and buildings together) that is residential, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/6/03; converted from proportion to percent in data1.sas 3/10/04

pctcl1val00: percent of property value in 2000 (land and buildings together) that is Class 1 (residential and agricultural) property, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/6/03; converted from proportion to percent in data1.sas 3/10/04

pctcl2val00: percent of property value in 2000 (land and buildings together) that is Class 2 (mineral, industrial, commercial, and railroad real) property, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/6/03; converted from proportion to percent in data1.sas 3/10/04

totresval00: total residential property value in 2000 (land and buildings together), by school district; full documentation found in

00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/6/03

totcl1val00: total value in 2000 of Class 1 (residential and agricultural) property, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/6/03

totcl2val00: total value in 2000 of Class 2 (mineral, industrial, commercial, and railroad real) property, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/6/03

newconst1: value of new agricultural and residential (class 1) buildings constructed between 1999 and 2000 in school district from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/6/03

newconst2: value of new mineral, industrial, commercial, and railroad real (class 2) property between 1999 and 2000 in school district from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 5/6/03

resvalpup00: totresval00/fadm_sd; per pupil residential property value in 2000 (land and buildings together), by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03

cl1valpup00: totcl1val00/fadm_sd; per pupil value in 2000 of Class 1 (residential and agricultural) property, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03

cl2valpup00: totcl2val00/fadm_sd; per pupil value in 2000 of Class 2 (mineral, industrial, commercial, and railroad real) property, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03

newconstpup1: newconst1/fadm_sd; per pupil value of new agricultural and residential (class 1) buildings constructed between 1999 and 2000 in school district from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03

newconstpup2: newconst2/fadm_sd; per pupil value of new mineral, industrial, commercial, and railroad real (class 2) property between 1999 and 2000 in school district from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03

pctagval99: percent of property value in 1999 (land and buildings together) that is agricultural, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03; converted from proportion to percent in data1.sas 3/10/04

pctresval99: percent of property value in 1999 (land and buildings together) that is residential, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03; converted from proportion to percent in data1.sas 3/10/04

pctcl1val99: percent of property value in 1999 (land and buildings together) that is Class 1 (residential and agricultural) property, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03; converted from proportion to percent in data1.sas 3/10/04

pctcl2val99: percent of property value in 1999 (land and buildings together) that is Class 2 (mineral, industrial, commercial, and railroad real) property, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03; converted from proportion to percent in data1.sas 3/10/04

totresval99: total residential property value in 1999 (land and buildings together), by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03

totcl1val99: total value in 1999 of Class 1 (residential and agricultural) property, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03

totcl2val99: total value in 1999 of Class 2 (mineral, industrial, commercial, and railroad real) property, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03

resvalpup99: totresval99/fadm_sd; per pupil residential property value in 1999 (land and buildings together), by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03

cl1valpup99: totcl1val99/fadm_sd; per pupil value in 1999 of Class 1 (residential and agricultural) property, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03

cl2valpup99: totcl2val99/fadm_sd; per pupil value in 1999 of Class 2 (mineral, industrial, commercial, and railroad real) property, by school district; full documentation found in 00rpasdreadme.doc, from Ohio Department of Taxation "2000 Real Property Abstract by School District", from abs00sd.csv, 7/14/03

sdnumber: Ohio Department of Taxation code for school district, from both school98.csv and 2002_SD_RATES.csv, 7/15/03

grosstax00_sd: described alternately as 'total millage before reduction factors' in 'Tax Data by School District, Calendar Year 1998'

(school98.xls) or as '2000 Total Gross Rate' and 'aggregate rate for tangible personal property' in '2000 Millage Rates by School District' (2002_SD_RATES.csv) and Ohio Department of Taxation website; it's tax year 2000 gross tax rate for school district, added 7/15/03

class100_sd: tax year 2000 class 1 (agricultural and residential) tax rate in school district, from '2000 Millage Rates by School District' (2002_SD_RATES.csv), and 'Tax Data by School District, Calendar Year 1998' (school98.xls) implies that it is an effective tax rate, but doesn't make it clear whether it's for all taxes within sd or just school district taxes, added 7/15/03

class200_sd: tax year 2000 class 2 (commercial, industrial, railroad, mineral) tax rate in school district, from '2000 Millage Rates by School District' (2002_SD_RATES.csv), and 'Tax Data by School District, Calendar Year 1998' (school98.xls) implies that it is an effective tax rate, but doesn't make it clear whether it's for all taxes within sd or just school district taxes, added 7/15/03

yrssdytax: in 2000, for how many years the school district has had a school district income tax; for example, 5 means this is the 5th year the school district has had a school district income tax, 0 for school districts without one; only counts those that have one in year 2000 (there were a few who repealed or discontinued it); from "Ohio School District Income Tax, Quarterly Distributions and Year to Date, Fiscal Year 2000, Table SD-2-Q4, No. 30(2000), May 15, 1999" (sd2fy00.csv), added 7/16/03

sdytaxrate: school district income tax rate in percentage points, 0 for school districts without one in fiscal year 2000; from "Ohio School District Income Tax, Quarterly Distributions and Year to Date, Fiscal Year 2000, Table SD-2-Q4, No. 30(2000), May 15, 1999" (sd2fy00.csv), added 7/16/03

sdytax: dummy variable for whether school district has a school district income tax in fiscal year 2000 (=1) or not (=0); from "Ohio School District Income Tax, Quarterly Distributions and Year to Date, Fiscal Year 2000, Table SD-2-Q4, No. 30(2000), May 15, 1999" (sd2fy00.csv), added 7/16/03

yy: year housing data report was run (2 means 2002); from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

mm: month housing data report was run (7 means July); from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

pticode: First American Real Estate Solutions county code, from "PTICountyCode Table" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

`seqnum:  not useful;` First American Real Estate Solutions `so-called unique house identifier, but not enough columns to be unique`

`seqsfx:  has "*" if transaction was multi-parcel sale, blank otherwise;` from "PTICountyCode Table" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

`month:  month report was run (7 means July), same as mm apparently;` from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

loccode: First American Real Estate Solutions code, location within county; tells township, village, or city the house belongs to, code described in full in loccode.xls, but numbers seem to correspond to column in loccode.xls that says "OldCVTCode", and the codes are repeated across counties, so 1060 Butler County is a different muni than 1060 Mahoning County; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

trandate: date of transaction within year 2000, month and day, like 304 means March 4; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

tranamt: amount of transaction in 2000 in dollars; only ordered ones above $30,000 to siphon off non-market transactions and transactions for uninhabitable dwellings, but max is unlimited (and $8,706,000 in sample); from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

useclass: 'R' for all transactions, meaning Residential; from UseClass Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

usecode: division of UseClass, assigned by the state of Ohio, equals 510 for 93.42 percent of the sample, but 7941 (6.36%) obs have code 511; 235 code 512; 48 code 513; and 1 code 515; all are single-family codes, see 7/18/03 p.3 for details; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

family: Not useful; 1, 2, or M (for multiple) family dwelling, but usually it's blank, next-most common is 0! from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

condo: not useful; C if it's a condo, only 211/125,000 obs are; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

story: number of stories in house, including stuff like quad-level and split-level, etc. from StoriesType Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

onestory: dummy for one-story house; dummy varb = 1 if story = 1, 0 otherwise, from StoriesType Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/17/03

construction: type of construction of house (aluminum, brick, tile, etc.), from Construction Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

brick: dummy for brick house; dummy varb=1 if construction='B', 0 otherwise, from Construction Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/17/03

basement: whether house has no basement, finished, partially finished, unfinished basement, or if unknown, from BsmtFinType Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

finbase: dummy for finished basement; dummy varb =1 if basement='F' or 'P', 0 otherwise, from BsmtFinType Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/17/03

`BasementFoundation:  not useful; tells what type of basement foundation the house has, like slab, crawl, dirt, yes, from` BsmtType Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

Garage: code for type of garage house has, attached, unattached, built-in, carport, or none, from GarageType Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

dgarage: dummy for garage; =1 if has garage recorded of any type, 0 otherwise; from GarageType Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/17/03

aircondition: code for air conditioning of house, ='C' if house "contains airconditioning", but unclear if that means central air only or window units also count; from AirCondType Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

air: dummy for air conditioning; =1 if aircondition='C', 0 otherwise; from AirCondType Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/17/03

fireplace: modified to stand for number of fireplaces in house, 0 through 7, from FirePlaceType Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/17/03

fire: modified version of fireplace because fireplace was still treated as character, not numeric, variable; in data2.sas did series of "if fireplace='2' then fire=2;" statements, from FirePlaceType Table of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 9/24/03

outbuildings: "count of outbuildings," zero through 4, from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

rooms: count of rooms, modified for times bedrooms exceeds rooms, from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

bedrooms: count of bedrooms, modified for times there are rooms but no bedrooms, from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

fullbath: count of full bathrooms, from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

partbath: count of partial bathrooms, from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/17/03

yrbuilt: year house was built, 9900=old; but ages run back to 1800 (and even 155 A.D.!); has 7989 missing values and 3520 with zero but they'll drop out or can find many on websites, from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/18/03

agehouse: how many years old the house is, 2000-yrbuilt, so agehouse=0 for houses built in 2000, implying it's less than a year old; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/18/03

buildingsqft: square feet of building size (doesn't account for multiple-story dwellings, though); if house was otherwise valid in yrbuilt and rooms but had buildingsqft=0 (631 times), I did buildingsqft=rooms*253, based on means; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/18/03

garagesqft: not useful; square feet of garage size, but has far too many zeroes to be useful, even when dgarage=1; from "CRG Record Layouts" of First American Real

Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/18/03

`lotshape: ='I' if irregular shape to lot house in on;` from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/18/03

`irregular: dummy varb=1 if lotshape='I' for irregular;` from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/18/03

lotwidth: not useful; feet of width of lot house is on, but 22,329 times on otherwise valid obs it's zero so used acres instead; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/18/03

lotdepth: not useful; feet of depth of lot house is on, but 21,488 times on otherwise valid obs it's zero so used acres instead; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/18/03

acres: seems to be 100* actual number of acres, to eliminate decimal places, but codesheet doesn't say it; it's all worked out on 7/18/03 p. 4, because 1 real acre = 43,560 square feet, so converted acres to real square feet in lotsize varb; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/18/03

`lotsize: square feet of lot house is on; =435.6*acres, with missing values filled in for cases where lotwidth and lotdepth were actually still useful (this msg value part redone 10/3/03 p.4);` from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/18/03

porches: number of porches (enclosed plus unenclosed) a house contains; originally referred just to unenclosed, but I expanded definition; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/21/03

`porchesenclosed: not used; number of enclosed porches house has; added to unenclosed porches to make porches mean total number of porches of all types;` from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

`patio: ='Y' if patio, 'N' if none, 'D' if deck;` from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

patioo: dummy varb =1 if house has a patio, 0 otherwise; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/21/03; some of the housing fixes data files don't have accurate data for patio because county auditors didn't record them, but this is minority of obs

deck: dummy varb =1 if house has a deck, 0 otherwise; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/21/03

poole: dummy varb = 1 if house has a pool, 0 otherwise; made from varb pool = 'Y' if house has a pool; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, created in data2.sas on 7/21/03; some of the housing fixes data files don't have accurate data for pools because county auditors didn't record them, but this is minority of obs

pool: = 'Y' if house has a pool; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

trandatecentury: year, month, and day house sold; examples include 20000105 and 20001013 (matches trandate perfectly); from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

splitcode: not used; just says "Split Code" and equals 0 and . about an even number of times; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

mortamt: amount of mortgage in dollars, equals 0 13% of time; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

mortgagee: lender's name for mortgage; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

seller: name of seller of house; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

prevsaledatec: date of previous sale of house, for example 19960722 and 19751030 (missing 43,000 times); from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

Buyername1: names of buyers of house, usually the whole thing, like `Patrick E & Traci Reuss;` from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

Buyername2: any leftover bit of Buyername1 that they ran out of space for, like Buyername1 says '`Robert H & Elizabeth A Rohrbau`' and Buyername2 says '`gh`'; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

Streetaddress: tax mailing street address, usually street number and street name, but sometimes it's a P.O. box, and sometimes street number is missing; corresponds with StreetName about 92% of time; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

Csz: tax mailing city state zipcode, usually with 4-digit extension on zip code, sometimes different city than what appears in citystate varb (10% of time); from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

`Streetnum:  house number on street;` better than streetaddress because number always there and not PO box, either; some minor difference like sometimes doesn't contain W or S that streetaddress might (3% of time); from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

`Streetname:  name of street house is on;` better than streetaddress because no PO boxes; although sometimes doesn't contain W or S that streetaddress might (3% of time); from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

`Citystate:  city and state house is in, like 'Fairfield,OH';` from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

`Zip:  five-digit zip code house is in;` from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

Legaldesc: legal description of property, like '`6589 ENT SHAFERS RUN SEC 3`'; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03

Schooldist: character representation of which school district the house is assigned to, often in abbreviated form, like 'New SD' and 'Lakota SD', so common names like "Northwest" are repeated for school districts in different counties; from "CRG Record

Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/21/03; had to match these character names to numerical irns 7/21-7/23/03, and 519 only out of 124,937 left unmatched

Parcelnum: parcel number assigned to each plot of land by county auditor (ex: 27-10210-24583-015); from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/28/03

Comment: comment entered by transaction recorder, examples include deed type, name of title agency, if was two-parcel sale, info about second mortgage…; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/28/03

Mortterm: length of mortgage in years, probably; code sheet says it's given in months but that's clearly crap so I divided by 100 and called it years, which is much more reasonable; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/28/03

Mortrate: rate of mortgage in percentage points; was given in four decimal places like 1150 but I converted to 11.50 format; basically only morttype="A" (adjustable rate) have anything listed, but a few U's (variable?) have entries, too; not all A's have entries, either, so mostly it's a bunch of zeroes and of questionable value; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/28/03

Mortvarfreq: probably how often the mortgage rate can change, in years; officially it's "var freq in months" but with most entries like 300 or 200 I divided by 100 to make it more reasonable years; non-zero entries most often appear with type-A (adjustable rate) mortgages, but not all ARMs have a mortvarfreq, and sometimes mortvarfreq appears when there's no ARM, either; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/28/03

Morttype: rate type of mortgage, A = adjusted rate (15% of sample), B = balloon (1%), F = fixed (54%), U = ? (maybe stands for unknown, but not listed in Code Tables, 30%), V = variable rate (0.2%); from "Code Tables" and "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/28/03

Financing: source type of mortgage, A = assumed (0.05% of sample), B = not in tables, probably typo from morttype, C = conventional (76%), F = FHA (20%), L = land contract (0.5%), P = not in tables, no clue what it is (0.1%), V = VA (4%); from "Code Tables" and "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/28/03

Prevsaledate: not as useful as prevsaledatec from same data set; has coding like 920825 for Aug 25, 1992 sale but 714 for July 14, 2000 sale so inconsistent pattern of numbering, unlike prevsaledatec; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/28/03

`Prevsaleamt:`   amount house sold for previous time, apparently appears every time prevsaledatec is filled in; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/28/03

Censustract: not very useful; census tract number provided by FARES, but missing 25% of the time, ranging from 1 to 996600; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/28/03

Salesrecordid: unique identifier code for most sales but same value for multi-parcel sales; except for rare repeats it could be unique identifier code, but as it is it isn't completely useful; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/28/03

Instrumentdate: not useful; missing all but four times, supposed to be recording date; from "CRG Record Layouts" of First American Real Estate Solutions order #3172, crg03172.txt, run date 7/14/02, added to data2.sas on 7/28/03

Carbon: releases of carbon monoxide into air in (short) tons by a facility during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrank.csv, which came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data3.sas on 8/4/03

Nox: releases of nitrogen oxides into air in (short) tons by a facility during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrank.csv, which came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data3.sas on 8/4/03

Pm10: releases of particulate matter with diameter less than 10 micrometers into air in (short) tons by a facility during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrank.csv, which came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data3.sas on 8/4/03

So2: releases of sulfur dioxide into air in (short) tons by a facility during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution

Point Sources (1999)"; from netrank.csv, which came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data3.sas on 8/4/03

Voc: releases of volatile organic compounds (ozone precursors) into air in (short) tons by a facility during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrank.csv, which came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data3.sas on 8/4/03

Pm25: releases of particulate matter with diameter less than 2.5 micrometers into air in (short) tons by a facility during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrank.csv, which came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data3.sas on 8/4/03

Ammonia: releases of NH3 (ammonia) into air in (short) tons by a facility during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrank.csv, which came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data3.sas on 8/4/03

Countyname: name of county in letters except it gets cut off sometimes; from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrank.csv, which came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data3.sas on 8/4/03; same variable used from nettier.csv infile to data2.sas and stfa-releases2.csv infile to data3.sas because they are identical as read into SAS 8/6/03

Polluterid: NET database identification code for a point emissions source consisting of a 2-digit state code, a three-digit county code, and a code of between 2 to 14 characters identifying a particular emissions source within a county, but it gets converted to scientific notation frequently; from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrank.csv, which came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data3.sas on 8/4/03

Poll_latitude: y coordinate of pollution source to (up to) four decimal places, in degrees; from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrank.csv, which came from http://www.epa.gov/air/data/reports.html, Ohio,

Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data3.sas on 8/4/03; same variable name used for "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000", stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer, but stfa less believable than netrank; added to data3.sas on 9/24/03

Poll_longitude: x coordinate of pollution source to (up to) four decimal places, in degrees; from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrank.csv, which came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data3.sas on 8/4/03; same variable name used (with max 3 decimal places so far) for "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000", stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer, but stfa less believable than netrank; added to data3.sas on 9/24/03

Netrankid: functional unique identifier code for each air polluter in netrank.csv, that lines up perfectly with netrank.txt so you can look at netrankid and view that row in Excel to see what pollutername and polluterid are, because I couldn't get them to read into SAS properly; created in data3.sas on 8/6/03

carbon_a_co: area source releases of carbon monoxide into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); area source is a small point source such as a home or office building, or a diffuse stationary source, such as wildfires or agricultural tilling. These sources do not individually produce sufficient emissions to qualify as point sources; from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

nox_a_co: area source releases of nitrogen oxides into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); area source is a small point source such as a home or office building, or a diffuse stationary source, such as wildfires or agricultural tilling. These sources do not individually produce sufficient emissions to qualify as point sources; from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

pm10_a_co: area source releases of particulate matter 10 micrometers in diameter or less into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); area source is a small point source such as a home or office building, or a diffuse stationary source, such as wildfires or agricultural tilling. These sources do not individually produce sufficient emissions to qualify as point sources; from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

so2_a_co: area source releases of sulfur dioxide into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); area source is a small point source such as a home or office building, or a diffuse stationary source, such as wildfires or agricultural tilling. These sources do not individually produce sufficient emissions to qualify as point sources; from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

voc_a_co: area source releases of volatile organic compounds into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); area source is a small point source such as a home or office building, or a diffuse stationary source, such as wildfires or agricultural tilling. These sources do not individually produce sufficient emissions to qualify as point sources; from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

pm25_a_co: area source releases of particulate matter 2.5 micrometers in diameter or less into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); area source is a small point source such as a home or office building, or a diffuse stationary source, such as wildfires or agricultural tilling. These sources do not individually produce sufficient emissions to qualify as point sources; from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

ammonia_a_co: area source releases of ammonia into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); area source is a small point source such as a home or office building, or a diffuse stationary source, such as wildfires or agricultural tilling. These sources do not individually produce sufficient emissions to qualify as point sources; from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

carbon_ps_co: point source releases of carbon monoxide into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); point source is a stationary source of emissions, such as an electric power plant, that can be identified by name and location; from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

nox_ps_co: point source releases of nitrogen oxides into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); point source is a stationary source of emissions, such as an electric power plant, that can be identified by name and location;
from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

pm10_ps_co: point source releases of particulate matter 10 micrometers in diameter or less into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); point source is a stationary source of emissions, such as an electric power plant, that can be identified by name and location; from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

so2_ps_co: point source releases of sulfur dioxide into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); point source is a stationary source of emissions, such as an electric power plant, that can be identified by name and location; from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

voc_ps_co: point source releases of volatile organic compounds into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); point source is a stationary source of emissions, such as an electric power plant, that can be identified by name and location; from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

pm25_ps_co: point source releases of particulate matter 2.5 micrometers in diameter or less into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); point source is a stationary source of emissions, such as an electric power plant, that can be identified by name and location; from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

ammonia_ps_co: point source releases of ammonia into air in (short) tons in a county during 1999 (a short ton is 2000 pounds); point source is a stationary source of emissions, such as an electric power plant, that can be identified by name and location; from "NET Tier Report: Ohio NET Air Pollution Point Sources (1999)"; from nettier.csv, extracted from the October, 2001 version of the NET (National Emissions Trends) Database; added to data3.sas on 8/6/03

stfa_row: row number of polluting facility, serves as identification number for STFA data; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data3.sas on 9/24/03

fugair: by facility, fugitive air emissions are all releases to air that are not released through a confined air stream. Fugitive emissions include equipment leaks, evaporative losses from surface impoundments and spills, and releases from building ventilation systems; measured in pounds; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-

releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data3.sas on 9/24/03

`stackair:  by facility,` point source air emissions occur through confined air streams such as stacks, vents, ducts, or pipes, in pounds; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data3.sas on 9/24/03

`totair:  by facility, it's all air releases (fugair + stackair) in pounds;` from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data3.sas on 9/24/03

`waterpoll:  by facility surface water discharges in pounds;` Releases to water include discharges to streams, rivers, lakes, oceans, and other bodies of water. This includes releases from contained sources, such as industrial process outflow pipes or open trenches. Releases due to runoff, including stormwater runoff are also reportable to TRI; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data3.sas on 9/24/03

`inject:  by facility underground liquid injections in pounds;` Underground injection is the subsurface emplacement of fluids through wells. TRI chemicals associated with manufacturing, the petroleum industry, mining, commercial and service industries, and Federal and municipal government related activities may be injected into class I, II, III, IV, or V wells, if they do not endanger underground sources of drinking water (USDW), public health or the environment. Class I wells are industrial, municipal, and manufacturing related wells which inject fluids into deep, confined and isolated formations below potable water supplies; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data3.sas on 9/24/03

`landrelease:`   disposal to land on site in pounds by facility; the release of a toxic chemical to land within the boundries of the reporting facility. Releases to land include disposal of toxic chemicals in landfills (in which wastes are buried), land treatment/application farming (in which a waste containing a listed chemical is applied to or incorporated into soil), surface impoundments (which are uncovered holding areas used to volatilize and/or settle materials), and other land disposal methods (such as waste piles) or releases to land (such as spills or leaks). from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data3.sas on 9/24/03

`onsite:  sum of on-site emissions by facility;` sum of total air emissions, surface water discharges, underground injections, and releases to land in pounds (totair + waterpoll & inject & landrelease); from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data3.sas on 9/24/03

`offsite:`   Off-site releases by facility in pounds, from Section 6 (transfers off-site to disposal) of the Form R. Off-site releases include metals and metal compounds transferred off-site for solidification/stabilization and for waste water treatment, including to POTWs; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data3.sas on 9/24/03

stfa_tot: total on-site and off-site releases by facility (onsite + offsite), in pounds; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data3.sas on 9/24/03

houselat: latitude (y-coordinate) of the house, gotten from streetnum and streetaddress and geocoding in ArcView, for use in mindist1-3.sas, created 12/14/03; also found in set1-3.csv which is used in data2.sas; and some houselats come from EZLocate geocoding service from files ezhouseid1-3.csv; REPLACED 7/04 by hlat, where Diane took houselat and added extra random digits to make each one unique (see 7/04 printout of Diane's program) which in turn was replaced by more innocuous hlat 12/7/04 in data4.sas

houselong: longitude (x-coordinate) of the house, gotten from streetnum and streetaddress and geocoding in ArcView, for use in mindist1-3.sas, created 12/14/03; also found in set1-3.csv which is used in data2.sas; and some houselongs come from EZLocate geocoding service from files ezhouseid1-3.csv; REPLACED 7/04 by hlong, where Diane took houselong and added extra random digits to make each one unique (see 7/04 printout of Diane's program) which in turn was replaced by more innocuous hlong 12/7/04 in data4.sas

hlat: latitude (y-coordinate) of the house, derived from houselat but modified when Diane took houselat and added extra random digits to make each one unique (see 7/04 printout of Diane's program) which was replaced by more innocuous hlat 12/7/04 in data4.sas

hlong: longitude (x-coordinate) of the house, derived from houselong but modified when Diane took houselong and added extra random digits to make each one unique (see 7/04 printout of Diane's program) which was replaced by more innocuous hlong 12/7/04 in data4.sas

mindist: distance from each house to nearest environmental hazard in miles, from mindist1-3.sas, for use in data2.sas, created 1/9/04

countyfips: county code from Census (as opposed to 'county' or 'pticode' county identifiers), from set1-3.csv, added to data2.sas 1/10/04; also some come from EZLocate geocoding service from files ezhouseid1-3.csv; codesheet from "Federal Information Processing Standards Publications" www.itl.nist.gov/fipspubs and 1/26/04 printout is in FARES folder called countyfips codesheet; also from stfaidcodes.csv and netrankidcodes.csv for environmental hazards added to data3.sas 1/27/04; also from ohiocbg.csv 2/28/04 (and later ohioct.csv) in census.sas

cosub: county subdivision fips code for each house or hazard, a Census designation that includes villages, cities, and townships; often identical to Census place fips but not for townships; from set1-3.csv, added to data2.sas 1/10/04; also some come from EZLocate geocoding service from files ezhouseid1-3.csv although the name they gave it was minor civil division, I'm pretty sure it's the same as cosub because it matched up frequently (but not always) with EZLocate's place designation; 99999's come from ezhouseid1-3.csv elements that used to be blanks; also from stfaidcodes.csv and netrankidcodes.csv for environmental hazards added to data3.sas 1/27/04; also used to merge crime data from ohio.csv with housing data in data2.sas; cosubcodes.xls has what each cosub represents 3/20/04, and cosubtoplaceFIPS.doc codesheet matches cosub to place 3/21/04

place: Census place fips code for each house or hazard, a Census designation that includes villages and cities, but not usually townships; often identical to Census county subdivision fips but not for townships, for which place=99999; from set1-3.csv, added to data2.sas 1/10/04; also some come from EZLocate geocoding service files ezhouseid1-3.csv which have a lot of 99999's that used to be blanks; also from stfaidcodes.csv and netrankidcodes.csv for environmental hazards added to data3.sas 1/27/04; placecodes.xls tells what each place code stands for 9/27/03, and placecodesheet.txt of 9/27/03 describes what placecodes.xls contains

tract: Census tract code for each house or hazard, more complete than 'Censustract' that FARES provided; from set1-3.csv, added to data2.sas 1/10/04; also some come from EZLocate geocoding service from files ezhouseid1-3.csv; also from stfaidcodes.csv and netrankidcodes.csv for environmental hazards added to data3.sas 1/27/04 and ohiocbg.csv in census.sas 2/28/04

blkgrp: Census block group for each house or hazard, from set1-3.csv, added to data2.sas 1/10/04; some come from manipulating the cen_blkg variable from EZLocate geocoding service files ezhouseid1-3.csv as described on 1/15/04 p.1; also from stfaidcodes.csv and netrankidcodes.csv for environmental hazards added to data3.sas 1/27/04

block: Census block within each block group for each house or hazard, from set1-3.csv, added to data2.sas 1/10/04; also from stfaidcodes.csv and netrankidcodes.csv for environmental hazards added to data3.sas 1/27/04

pmsa: Primary Metropolitan Statistical Area for each house or hazard, equals 9999 if a house does not match to any pmsa according to GeoLytics, from set1-3.csv, added to data2.sas 1/10/04; not sure as of 1/15/04 how this is related to EZLocate's msa designation from ezhouseid1-3.csv, but both pmsa & msa are incomplete and based on collection of counties, so I can redefine them how I see fit (see 1/16/04 when I fixed msa); also from stfaidcodes.csv and netrankidcodes.csv for environmental hazards added to data3.sas 1/27/04

cd106: 106th Congressional district for each house or hazard, from set1-3.csv, added to data2.sas 1/10/04; also from stfaidcodes.csv and netrankidcodes.csv for environmental hazards added to data3.sas 1/27/04

mat_type: match type, from ezhouseid1-3.csv, for houses that were geocoded unsuccessfully by Jeff's ArcView routine but were successfully geocoded with identifiers using EZLocate online service; full definition also available in ezlocate documentation.doc, but 1 is block face match, which matches a house to within a unique intersection or to within a single side of a single street segment, and 2 is a near match, which is match to a single street block but side of street and exact street segment are unknown, and 3 and higher are not precise enough to use; for use in data2.sas, 1/15/04

msa: metropolitan statistical area, from ezhouseid1-3.csv; not sure how this corresponds yet to pmsa designation of GeoLytics files set1-3.csv that Jeff Henderson did, but hopefully they're basically the same; both pmsa & msa are incomplete and based on collection of counties, so I can redefine them how I see fit (see 1/16/04); for use in data2.sas, 1/15/04; in fact I did reconstitute msa on 3/23/04 in data2.sas, matching relevant countyfips to msa, so that Akron=1, Cinti=2, Cleveland=3, Columbus=4, Dayton=5, Toledo=6, and Youngstown=7, and msa=0 if it's not in any of those relevant counties; relevant counties come from p. 23 onward of Appendix to Office of Management and Budget Bulletin No. 04-03, "Update of Statistical Area Definitions and Additional Guidance on Their Uses," February 18, 2004, Washington, D.C., www.whitehouse.gov/omb/bulletins/fy04/b04-03.html

fugair_ct: by census tract the house is in, fugitive air emissions are all releases to air that are not released through a confined air stream. Fugitive emissions include equipment leaks, evaporative losses from surface impoundments and spills, and releases from building ventilation systems; measured in pounds; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

stackair_ct: by census tract the house is in, point source air emissions occur through confined air streams such as stacks, vents, ducts, or pipes, in pounds; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

`totair_ct:` `by census tract the house is in, it's all air releases` `(fugair + stackair) in pounds; seems to have fewer non-zero entries for` `houses than netrank_air_ct, and quantities of air pollution are less` `than for netrank_air_ct 2/26/04;` from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

`waterpoll_ct:` `by census tract the house is in surface water discharges` `in pounds;` Releases to water include discharges to streams, rivers, lakes, oceans, and other bodies of water. This includes releases from contained sources, such as industrial process outflow pipes or open trenches. Releases due to runoff, including stormwater runoff are also reportable to TRI; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

`inject_ct:` `by census tract the house is in underground liquid` `injections in pounds;` Underground injection is the subsurface emplacement of fluids through wells. TRI chemicals associated with manufacturing, the petroleum industry, mining, commercial and service industries, and Federal and municipal government related activities may be injected into class I, II, III, IV, or V wells, if they do not endanger underground sources of drinking water (USDW), public health or the environment. Class I wells are industrial, municipal, and manufacturing related wells which inject fluids into deep, confined and isolated formations below potable water supplies; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

`landrelease_ct:` disposal to land on site in pounds by `census tract the house is in`; the release of a toxic chemical to land within the boundries of the reporting facility. Releases to land include disposal of toxic chemicals in landfills (in which wastes are buried), land treatment/application farming (in which a waste containing a listed chemical is applied to or incorporated into soil), surface impoundments (which are uncovered holding areas used to volatilize and/or settle materials), and other land disposal methods (such as waste piles) or releases to land (such as spills or leaks). from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

`onsite_ct:` `sum of on-site emissions by census tract the house is in;` sum of total air emissions, surface water discharges, underground injections, and releases to land in pounds (totair + waterpoll & inject & landrelease); from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

offsite_ct: Off-site releases by `census tract the house is in` in pounds, from Section 6 (transfers off-site to disposal) of the Form R. Off-site releases include metals and metal compounds transferred off-site for solidification/stabilization and for waste water treatment, including to POTWs; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

stfa_tot_ct: total on-site and off-site releases by `census tract the house is in` (onsite + offsite), in pounds; 2/26/04 shows fewer releases from all sources then netrank's netrank_air_ct shows from air releases, and for slightly fewer houses as well; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

fugair_cbg: by `census block group the house is in,` fugitive air emissions are all releases to air that are not released through a confined air stream. Fugitive emissions include equipment leaks, evaporative losses from surface impoundments and spills, and releases from building ventilation systems; measured in pounds; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

stackair_cbg: by `census block group the house is in,` point source air emissions occur through confined air streams such as stacks, vents, ducts, or pipes, in pounds; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

totair_cbg: by `census block group the house is in, it's all air releases (fugair + stackair) in pounds;` if cbg works the same as ct, netrank_air_cbg has `more non-zero entries for houses than totair_ct, and quantities of air pollution are more than for totair_ct 2/26/04;` from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

waterpoll_cbg: by `census block group the house is in surface water discharges in pounds;` Releases to water include discharges to streams, rivers, lakes, oceans, and other bodies of water. This includes releases from contained sources, such as industrial process outflow pipes or open trenches. Releases due to runoff, including stormwater runoff are also reportable to TRI; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-

releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

`inject_cbg: by census block group the house is in underground liquid injections in pounds;` Underground injection is the subsurface emplacement of fluids through wells. TRI chemicals associated with manufacturing, the petroleum industry, mining, commercial and service industries, and Federal and municipal government related activities may be injected into class I, II, III, IV, or V wells, if they do not endanger underground sources of drinking water (USDW), public health or the environment. Class I wells are industrial, municipal, and manufacturing related wells which inject fluids into deep, confined and isolated formations below potable water supplies; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

`landrelease_cbg:` disposal to land on site in pounds by `census block group the house is in`; the release of a toxic chemical to land within the boundries of the reporting facility. Releases to land include disposal of toxic chemicals in landfills (in which wastes are buried), land treatment/application farming (in which a waste containing a listed chemical is applied to or incorporated into soil), surface impoundments (which are uncovered holding areas used to volatilize and/or settle materials), and other land disposal methods (such as waste piles) or releases to land (such as spills or leaks). from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

`onsite_cbg: sum of on-site emissions by census block group the house is in;` sum of total air emissions, surface water discharges, underground injections, and releases to land in pounds (totair + waterpoll & inject & landrelease); from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

`offsite_cbg:` Off-site releases by `census block group the house is in` in pounds, from Section 6 (transfers off-site to disposal) of the Form R. Off-site releases include metals and metal compounds transferred off-site for solidification/stabilization and for waste water treatment, including to POTWs; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

stfa_tot`_cbg:` total on-site and off-site releases by `census block group the house is in` (onsite + offsite), in pounds; 2/26/04 shows fewer releases from all sources than netrank's netrank_air_cbg shows from air releases, and for slightly fewer houses as well; from "TRI On-site and Off-site Reported Releases (in pounds), for facilities in All

Industries, for All Chemicals, Ohio, 2000"; from stfa-releases2.csv, extracted from the July, 2002 version of the TRI (Toxic Release Inventory) Explorer, www.epa.gov/triexplorer; added to data2.sas on 2/25/04

Carbon_ct: releases of carbon monoxide into air in (short) tons in Census tract the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

Nox_ct: releases of nitrogen oxides into air in (short) tons in Census tract the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

Pm10_ct: releases of particulate matter with diameter less than 10 micrometers into air in (short) tons in Census tract the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

So2_ct: releases of sulfur dioxide into air in (short) tons in Census tract the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

Voc_ct: releases of volatile organic compounds (ozone precursors) into air in (short) tons in Census tract the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

Pm25_ct: releases of particulate matter with diameter less than 2.5 micrometers into air in (short) tons in Census tract the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

Ammonia_ct: releases of NH3 (ammonia) into air in (short) tons in Census tract the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

Netrank_air_ct: total air pollution in census tract the house is in, measured in short tons (a short ton is 2000 pounds), according to Netrank; sum of carbon_ct + nox_ct + pm10_ct + so2_ct + voc_ct + pm25_ct + ammonia_ct; has more non-zero entries for houses than totair_ct, and quantities of air pollution are higher than for totair_ct or pollution from all sources from stfa_tot_ct 2/26/04; created in data2.sas on 2/26/04

Carbon_cbg: releases of carbon monoxide into air in (short) tons in Census block group the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

Nox_cbg: releases of nitrogen oxides into air in (short) tons in Census block group the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

Pm10_cbg: releases of particulate matter with diameter less than 10 micrometers into air in (short) tons in Census block group the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

So2_cbg: releases of sulfur dioxide into air in (short) tons in Census block group the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; from netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

Voc_cbg: releases of volatile organic compounds (ozone precursors) into air in (short) tons in Census block group the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html,

Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

Pm25_cbg: releases of particulate matter with diameter less than 2.5 micrometers into air in (short) tons in Census block group the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

Ammonia_cbg: releases of NH3 (ammonia) into air in (short) tons in Census block group the house is in during 1999 (a short ton is 2000 pounds); from "NET Facility Emissions Report: Ohio NET Air Pollution Point Sources (1999)"; netrankfin.csv, which ultimately came from http://www.epa.gov/air/data/reports.html, Ohio, Emissions (NET Database), Facility Emissions; extracted from the October, 2001 version of the NET Database; added to data2.sas on 2/26/04

Netrank_air_cbg: total air pollution in census block group the house is in, measured in short tons (a short ton is 2000 pounds), according to Netrank; netrank_air_cbg has `more non-zero entries for houses than totair_cbg or stfa_tot_cbg, and quantities of air pollution are more than for total pollution from all sources stfa_tot_cbg 2/26/04;` sum of carbon_cbg + nox_cbg + pm10_cbg + so2_cbg + voc_cbg + pm25_cbg + ammonia_cbg; created in data2.sas on 2/26/04

```
The variables below are Census varbs created at census block group
level on or before 3/9/04.  But on 3/9/04 I made their census tract
level counterparts in census.sas, as xxx_ct.  For their definitions,
just look up xxx_cbg below.
```

Cbglat – latitude (y coordinate) of the centroid of the census block group; from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 2/28/04

Cbglong – longitude (x coordinate) of the centroid of the census block group; from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 2/28/04

area_cbg – area of land in cbg in square miles; from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/2/04

pop_cbg – number of persons living in census block group; from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 2/28/04

pcturban_cbg – percentage of population in census block group living in urbanized area or urban cluster, which means cbg has 1000 persons per square mile, or if you don't but all contiguous cbgs have 500 persons per square mile, or failing that, you connect areas that otherwise fulfill the above definitions you count as urban anyway; definition from p. A-22 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; not so useful: 6495 have 100% urban, 1433 have 0% urban, and other 1388 fall somewhere inbetween (maybe density_cbg is better); data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 2/28/04

density_cbg – number of persons per square mile in block group; equals pop_cbg divided by area_cbg; may be better than pcturban_cbg; data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/2/04

pctwhite_cbg – percentage of population in census block group that is white, non-hispanic; from p. B-38 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002, it is self-identification of "a person having origins in any of the original peoples of Europe, the Middle East, or North Africa. It includes people who indicate their race as 'White' or report entries such as Irish, German, Italian, Lebanese, Near Easterner, Arab, or Polish." data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; Created in census.sas 3/2/04.

pctblack_cbg – percentage of population in census block group that is black, non-hispanic; from p. B-38 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002, it is self-identification of "a person having origins in any of the black racial groups of Africa. It includes people who indicate their race as 'Black, African Am., or Negro' or provide written entries such as African American, Afro-American, Kenyan, Nigerian, or Haitian." data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; Created in census.sas 3/2/04.

pctapi_cbg – percentage of population in census block group that is Asian or Pacific Islander, non-hispanic; from p. B-39 and 40 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002, it is self-identification of "a person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent," or from Hawaii, Guam, Samoa, or other Pacific islands. data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; Created in census.sas 3/2/04.

pctother_cbg - percentage of population in census block group that is Native American, other, or 2+ races, and not Hispanic, black, white, or Asian-Pacific Islander; data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; Created in census.sas 3/3/04.

Pcthisp_cbg - percentage of population in census block group that is Hispanic/Latino/Spanish, and may be of any race, but if they are Hispanic they aren't counted as white, black, api, or other for my purposes of designating ethnicity, from p. B-13 of Technical

Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002. Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/3/04.

Leikrace_cbg – measure of ethnic heterogeneity in census block group, ranging from 0 (homogeneous) to 0.97 (highly het), with mean = 0.10, based on Robert K. Leik (1966); see census.sas for details of construction and citation info; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/3/04.

Pctyoung_cbg – percent of persons in census block group who are between 0 and 4 years of age; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/3/04.

Pct517_cbg - percent of persons in census block group who are between 5 and 17 years of age; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/3/04.

Pct1864_cbg - percent of persons in census block group who are between 18 and 64 years of age; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/3/04.

Pct65pls_cbg - percent of persons in census block group who 65 years of age or older; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/3/04.

Agehet_cbg – coefficient of variation for age in census block group, range from 0 to 0.94; standard deviation of age divided by mean of age, where standard deviation comes from the between-groups variance estimate of p.315 of "Understanding Statistics in the Behavioral Sciences, 2nd ed, by Robert R. Pagano, 1986, West Publishing Co. St. Paul, MN (book from my shelf); age data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/3/04.

Pctkids_cbg – percentage of households with own children in census block group; own child, according to p. B-15 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002, is "a never-married child under 18 years who is a son or daughter of the householder by birth, marriage (a stepchild), or adoption". Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/3/04.

Pctmar_cbg – percentage of persons married with spouse present in census block group; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/3/04.

Pctsepdiv_cbg – percentage of persons separated or divorced in census block group; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/3/04.

Pctsin_cbg – percentage of persons single never married in census block group, `Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/3/04.`

Pctenglish_cbg – percentage of persons age 5 and up who only speak English at home in census block group; `p. B-29 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002, has more discussion;` Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/3/04.`

Pctforeign_cbg – percentage of persons who were not citizens of the United States at birth in the census block group, from `p. B-7 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002;` `Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/3/04.`

`Commute_cbg – average commute time in minutes for persons 16 years and over not working at home in census block group who were both employed and at work during the reference week;` from `p. B-26 and 27 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002;` `Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/3/04.`

Privelem_cbg – percentage of students in census block group enrolled in grades 1-8 who attend private schools; `Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/3/04.`

Privhs_cbg – percentage of students in census block group enrolled in grades 9-12 who attend private schools; `Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/3/04.`

Priv_cbg – percentage of students in census block group enrolled in grades 1-12 who attend private schools; `Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/3/04.`

`pcths_cbg – percentage of persons 25 years or older in census block group whose highest educational attainment is a high school diploma, including equivalency;` `Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/4/04.`

`pctlesba_cbg – percentage of persons 25 years or older in census block group whose highest educational attainment is more than a high school diploma, but less than a bachelor's degree, including Associate degree and some college with no degree;` `Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/4/04.`

`pctba_cbg – percentage of persons 25 years or older in census block group whose highest educational attainment a Bachelor's degree;` `Data`

from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Pctgraddeg_cbg - percentage of persons 25 years or older in census block group whose highest educational attainment is a graduate degree, either Master's, Doctorate, or professional school degree; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Pctphd_cbg - percentage of persons 25 years or older in census block group whose highest educational attainment is a Doctorate or professional school degree; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Pctnohs_cbg - percentage of persons 25 years or older in census block group whose highest educational attainment is less than a high school degree or equivalent; calculated as 100 minus the other categories; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/9/04.

Leikeduc_cbg - measure of heterogeneity in educational attainment in census block group, ranging from 0 (homogeneous) to 0.68 (highly het), with mean = 0.38, based on Robert K. Leik (1966); see census.sas for details of construction and citation info; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/9/04.

Unemp_cbg – percentage of labor force in census block that is unemployed; labor force is sum of employed plus unemployed persons age 16 and over, and these terms are defined in p. B-10 and 11 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Bluecoll_cbg – percentage of employed civilian population age 16+ in census block group with blue collar jobs; I defined blue collar as being in the following occupations: farming, protective services, food preparation, fishing and forestry, construction, extraction and maintenance, production, transportation, and material moving; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Mediany_cbg – median income of households in census block group in dollars, where household is householder and other individuals 15+ living in household, and income is wages, salaries, net self-employment, interest, dividends, net rental or royalty income or income from estates or trusts, social security or railroad retirement income, Supplemental Security Income, public assistance or welfare payments, retirement, survivor or disability pensions; this income measure came straight from Census variable; see p. B-17 to 20 of Technical Documentation: Census 2000 Summary File 3, U.S. Census

Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Avginc_cbg – average income of households in census block group in dollars, where household is householder and other individuals 15+ living in household, and income is wages, salaries, net self-employment, interest, dividends, net rental or royalty income or income from estates or trusts, social security or railroad retirement income, Supplemental Security Income, public assistance or welfare payments, retirement, survivor or disability pensions; this income measure was calculated as number of households in each income category multiplied by the midpoint of the income category, summed up and divided by the total number of households in the census block group; has no zero values, unlike mediany_cbg, and uses $250,000 for "$200,000+" rather than $200,001 like mediany_cbg does; see p. B-17 to 20 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Inchet_cbg - coefficient of variation for household income in census block group, range from 0 to 2.34; standard deviation of household income divided by mean of income (avginc_cbg), where standard deviation comes from the between-groups variance estimate of p.315 of "Understanding Statistics in the Behavioral Sciences, 2nd ed, by Robert R. Pagano, 1986, West Publishing Co. St. Paul, MN (book from my shelf); income categories data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Pctwelfare_cbg – percent of census block group residents who are receiving public assistance, which is general assistance or Temporary Assistance for Needy Families, from p. B-18 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Familyinc_cbg – median family income in census block group, where family income is sum of incomes of all persons 15 years and older related to householder, from p. B-19 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Percapinc_cbg – per capita income in dollars in census block group, it is the sum of the incomes of all households in the census block group, divided by the number of persons in the census block group, from p. B-69 and B-20 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Poverty_cbg – percent of persons in the census block group living in a family whose total family income is below the poverty threshold appropriate for that family; definition from p. B-35 of Technical Documentation: Census 2000 Summary File 3, U.S.

Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

childpoverty_cbg - percent of persons aged 0-17 in the census block group living in a family whose total family income is below the poverty threshold appropriate for that family; definition from p. B-35 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Hu100_cbg – number of housing units in the census block group in hundreds of units; a housing unit is a house, apartment, mobile home, a group of rooms, or a single room that serves as a separate living quarter; definition from p. B-50 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Ruralhsg_cbg – percent of housing units in census block group that are in rural areas; equals zero 6488/9310 times, and equals 100 1427/9310 times; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Pctvacant_cbg – percent of housing units in census block group that are vacant: no one is living in it at the time of enumeration, including new units that would protect occupants from the elements, but excluding condemned buildings; definition from p. B-50 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/4/04.

Ownerocc_cbg – percent of occupied housing units in census block group that are occupied by owners rather than renters; definitions of "housing unit" and "occupied" may be found on p. B-50 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/5/04.

nocrowdhsg_cbg – percent of owner-occupied housing units in census block group that have 0.50 or fewer occupants per room; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/5/04.

Rooms_cbg – median number of rooms in owner-occupied housing units in census block group, including living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, enclosed porches suitable for year-round use, and lodgers' rooms; definition from p. B-60 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/5/04.

Pctdetached_cbg – percent of housing units in census block group that are 1-unit and has open space on all four sides, and not mobile homes or RVs, except do count mobile homes that have a permanent room attached or built on to them; definition from p. B-64 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/5/04.

Agehsg_cbg – median age of housing unit in census block group in years, range 1 to 61; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/5/04.

Nocar_cbg – percent of occupied households in census block group with no vehicle kept at home available for use of household members; a vehicle is a passenger car, van, pickup truck or panel truck of 1 ton capacity or less; definition from p. B-67 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/5/04.

Onecar_cbg - percent of occupied households in census block group with one vehicle kept at home available for use of household members; a vehicle is a passenger car, van, pickup truck or panel truck of 1 ton capacity or less; definition from p. B-67 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/5/04.

Twocar_cbg - percent of occupied households in census block group with two vehicles kept at home available for use of household members; a vehicle is a passenger car, van, pickup truck or panel truck of 1 ton capacity or less; definition from p. B-67 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/5/04.

Threecar_cbg - percent of occupied households in census block group with three vehicles kept at home available for use of household members; a vehicle is a passenger car, van, pickup truck or panel truck of 1 ton capacity or less; definition from p. B-67 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/5/04.

Fourcar_cbg - percent of occupied households in census block group with four vehicles kept at home available for use of household members; a vehicle is a passenger car, van, pickup truck or panel truck of 1 ton capacity or less; definition from p. B-67 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created in census.sas 3/5/04.

Fiveplscar_cbg - percent of occupied households in census block group with five or more vehicles kept at home available for use of household members; a vehicle is a passenger car, van, pickup truck or panel truck of 1 ton capacity or less; definition from `p. B-67 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/5/04.`

Avgcar_cbg – average number of vehicles kept at home available for use of household members per occupied household in census block group; it's (onecar*1 + twocar*2 + threecar*3 + fourcar*4 + fiveplscar*5)/100; definition of vehicle from `p. B-67 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/5/04.`

Hphet_cbg - `coefficient of variation for value of specified owner-occupied housing units in census block group, range from 0 to 2.32; standard deviation of housing unit value divided by mean of housing unit value, where standard deviation comes from the between-groups variance estimate of p.315 of "Understanding Statistics in the Behavioral Sciences, 2nd ed, by Robert R. Pagano, 1986, West Publishing Co. St. Paul, MN (book from my shelf); 'specified' means it's single-family detached structure on less than 10 acres of land without a business or office on the property, from p. B-66 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; housing unit value categories data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/5/04.`

Hp_cbg – median value of owner-occupied housing units in census block group; definitions of "housing unit" and "occupied" may be found on `p. B-50 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/5/04.`

Pctnomort_cbg – percent of owner-occupied housing units in census block group that do not have a mortgage (a measure of wealth); includes trust deeds, contracts to purchase, land contracts, junior mortgages, and home equity loans, from `p. B-58 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/5/04.`

Mohsgcost1_cbg – median selected monthly owner costs for specified owner-occupied housing units for households with a mortgage in census block group; selected monthly owner costs include mortgage and similar payments, real estate taxes, fire and hazard and flood insurance on the property, utilities (gas, electric, water and sewer), fuels (kerosene, oil, coal, wood, etc.), any monthly condo association fees or mobile home related costs (registration fees, site fees, property taxes, license fees, installment payments); definitions from `p. B-61 and 62 of Technical Documentation: Census 2000 Summary File`

3, U.S. Census Bureau, 2002; `Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/5/04.`

Mohsgcost2_cbg – median selected monthly owner costs for specified owner-occupied housing units for households without a mortgage in census block group; selected monthly owner costs include real estate taxes, fire and hazard and flood insurance on the property, utilities (gas, electric, water and sewer), fuels (kerosene, oil, coal, wood, etc.), any monthly condo association fees or mobile home related costs (registration fees, site fees, property taxes, license fees); definitions from `p. B-61 and 62 of Technical Documentation: Census 2000 Summary File 3, U.S. Census Bureau, 2002; Data from` GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; `created in census.sas 3/5/04.`

```
The above variables are Census varbs created at census block group
level on or before 3/9/04.  But on 3/9/04 I made their census tract
level counterparts in census.sas, as xxx_ct.  For their definitions,
just look up xxx_cbg above.
```

Oricode – unique police agency identifier code; from GeoLytics CrimeReportsCD 1.0 of 2000, added to data2.sas 3/16/04

Offensecap – grand total of actual offenses in police district per thousands of persons in police district, usually for 1997 data but used 1996 when 1997 was missing; police district is municipality; doesn't use predicted values or county sheriff data; from GeoLytics CrimeReportsCD 1.0 of 2000; created in data2.sas 3/16/04; extra documentation from 9/27/03 printout; more variation but fewer obs than 2 or 3

Offensecap2 – grand total of actual offenses in police district per thousands of persons in police district, usually for 1997 data but used 1996 when 1997 was missing; police district is municipality; when both were missing, or when it was zero, I predicted the value using ols regression results from crimepred.doc; from GeoLytics CrimeReportsCD 1.0 of 2000; created in data2.sas 3/22/04; extra documentation from 9/27/03 printout; most obs but less variation than 1 or 3

Offensecap3 – grand total of actual offenses in police district per thousands of persons in police district, usually for 1997 data but used 1996 when 1997 was missing; police district is municipality; uses actual values when possible, but uses county sheriff data from crimesheriff.csv for houses not served by a listed local police agency; from GeoLytics CrimeReportsCD 1.0 of 2000; created in data2.sas 3/22/04; extra documentation from 9/27/03 printout; medium obs and more variation than 1 and 2

Clearratio – percent of actual offenses in police district cleared by arrest, usually for 1997 data but used 1996 when 1997 was missing; police district is municipality; doesn't use predicted values or county sheriff data; from GeoLytics CrimeReportsCD 1.0 of 2000; created in data2.sas 3/16/04; extra documentation from 9/27/03 printout; medium variation but fewer obs than 2 or 3

Clearratio2 – percent of actual offenses in police district cleared by arrest, usually for 1997 data but used 1996 when 1997 was missing; police district is municipality; when both were missing, or when it was zero, I predicted the value using ols regression results from crimepred.doc; from GeoLytics CrimeReportsCD 1.0 of 2000; created in data2.sas 3/22/04; extra documentation from 9/27/03 printout; most obs but less variation than 1 or 3

Clearratio3 – percent of actual offenses in police district cleared by arrest, usually for 1997 data but used 1996 when 1997 was missing; police district is municipality; uses actual values when possible, but uses county sheriff data from crimesheriff.csv for houses not served by a listed local police agency; from GeoLytics CrimeReportsCD 1.0 of 2000; created in data2.sas 3/22/04; extra documentation from 9/27/03 printout; medium obs and more variation than 1 and 2

Policeratio – number of police officers per 1000 residents in police district, usually for 1997 data but used 1996 when 1997 was missing; police district is municipality; doesn't use predicted values or county sheriff data; from GeoLytics CrimeReportsCD 1.0 of 2000, it's TOTEOFFT variable from 9/27/03 variable description; created in data2.sas 3/18/04; medium variation but fewer obs than 2 or 3

Policeratio2 – number of police officers per 1000 residents in police district, usually for 1997 data but used 1996 when 1997 was missing; police district is municipality; when both were missing, or when it was zero, I predicted the value using ols regression results from crimepred.doc; from GeoLytics CrimeReportsCD 1.0 of 2000, it's TOTEOFFT variable from 9/27/03 variable description; created in data2.sas 3/22/04; medium obs but less variation than 1 or 3

Policeratio3 – number of police officers per 1000 residents in police district, usually for 1997 data but used 1996 when 1997 was missing; police district is municipality; uses actual values when possible, but uses county sheriff data from crimesheriff.csv for houses not served by a listed local police agency; from GeoLytics CrimeReportsCD 1.0 of 2000, it's TOTEOFFT variable from 9/27/03 variable description; created in data2.sas 3/22/04; most obs and more variation than 1 and 2

Policeemprat – total number of police agency employees per 1000 residents in police district, usually for 1997 data but used 1996 when 1997 was missing; police district is municipality; doesn't use predicted values or county sheriff data; from GeoLytics CrimeReportsCD 1.0 of 2000, it's based on TOTETOTE variable from 9/27/03 variable description; created in data2.sas 3/18/04; medium variation but fewer obs than 2 or 3

Policeemprat2 – total number of police agency employees per 1000 residents in police district, usually for 1997 data but used 1996 when 1997 was missing; police district is municipality; when both were missing, or when it was zero, I predicted the value using ols regression results from crimepred.doc; from GeoLytics CrimeReportsCD 1.0 of 2000, it's based on TOTETOTE variable from 9/27/03 variable description; created in data2.sas 3/22/04; medium obs but less variation than 1 or 3

Policeemprat3 – total number of police agency employees per 1000 residents in police district, usually for 1997 data but used 1996 when 1997 was missing; police district is municipality; doesn't use predicted values or county sheriff data; from GeoLytics CrimeReportsCD 1.0 of 2000, it's based on TOTETOTE variable from 9/27/03 variable description; created in data2.sas 3/18/04; most obs and more variation than 1 and 2

Pcchange – percent change in school district enrollment from 1997-1998 to the 2000-2001 school year; median change is -4.0%; change in kindergarten thru grade 12 enrollment minus unauthorized attendance minus out of state enrollment plus non-attending pupils between 1997-1998 and 2000-2001 school years; created 8/27/04 in data4.sas

City – name of city the house is in, character variable "Columbus"; ultimately from crg03172.txt, separated from citystate varb in Excel and written to 2000data1.csv in data4.sas on 12/4/04

State - name of state the house is in, character variable "OH"; ultimately from crg03172.txt, separated from citystate varb in Excel and written to 2000data1.csv in data4.sas on 12/4/04

Catholic – percent of the total population of each county that is Catholic in 1990; from "Churches and Church Membership in the United States 1990: An Enumeration by Region, State and County Based on Data Reported for 133 Church Groupings," by Bradley, Martin B., Norman M. Green, Jr., Dale E. Jones, Mac Lynn, and Lou McNeil, Glenmary Research Center, Atlanta, GA: 1992; created 12/7/04 in data4.sas

noncatholic – percent of the total population of each county that is religiously affiliated but not Catholic in 1990; from "Churches and Church Membership in the United States 1990: An Enumeration by Region, State and County Based on Data Reported for 133 Church Groupings," by Bradley, Martin B., Norman M. Green, Jr., Dale E. Jones, Mac Lynn, and Lou McNeil, Glenmary Research Center, Atlanta, GA: 1992; created 12/7/04 in data4.sas

priv_irn – irn (identifier) of the private school nearest to each house regardless of whether the private school has proficiency data or not, a unique identifier for private schools in Ohio that contain 9th grade; from Tuition1.doc Ohio Department of Education web site ODE Interactive: Extract Educational Information page on 6/13/05; from voucher project; added 1/30/06 to data4.sas

Priv_lat – latitude (x-coordinate) of the private school nearest to each house regardless of whether the private school has proficiency data or not; from Ryan's geocoding of address given by Tuition1.doc Ohio Department of Education web site ODE Interactive: Extract Educational Information page on 6/13/05, for which Ryan used Street Map 3.0 and geocode.com; from voucher project; added 1/30/06 to data4.sas

Priv_long – longitude (y-coordinate) of the private school nearest to each house regardless of whether the private school has proficiency data or not; from Ryan's geocoding of address given by Tuition1.doc Ohio Department of Education web site ODE Interactive: Extract Educational Information page on 6/13/05, for which Ryan used Street Map 3.0 and geocode.com; from voucher project; added 1/30/06 to data4.sas

Tuition – tuition in dollars of the nearest private school to each house regardless of whether the private school has proficiency data or not; when I had the choice between different tuition rates for Catholic and non-Catholic, parishioner or non-parishioner, boarder or villager, or different income classes, I chose the cheaper value; valid data for 166/185 private schools that contain 9th grade in Ohio; from phone survey work by Italia Jackson (completed 6/28/05) and Paul Darby (completed 11/3/05); from voucher project Priv_tuition2.xls; added 1/30/06 to data4.sas

Priv_math - % of private school students proficient or above in math section for grade 9 test for sum (average) of 2000 and 2001 test years, for the nearest private school to each house regardless of whether the private school has proficiency data or not; missing values means 10 or less students took the test in both years combined so Ohio Department of Education won't release the data; Italia Jackson collected the data from Sheila Milligan (Sheila.Milligan@ode.state.oh.us) 8/19/05; from voucher project Nonpub NPT Avg for 2000-01Math.xls; added 1/30/06 to data4.sas

Censusidpriv - census block identifier code for nearest private school to each house regardless of whether the private school has proficiency data or not; Ryan got using Street Map 3.0 and geocode.com; from voucher project output.txt; added 1/30/06 to data4.sas

Priv_dist - distance from each house to the nearest private school in miles regardless of whether the private school has proficiency data or not; Ryan got using Street Map 3.0 and geocode.com; from voucher project output.txt; added 1/30/06 to data4.sas

Priv_irn_wp - irn of the nearest private school that has valid proficiency data (no missing values), a unique identifier for private schools in Ohio that contain 9th grade; from Tuition1.doc Ohio Department of Education web site ODE Interactive: Extract Educational Information page on 6/13/05; from voucher project; added 1/30/06 to data4.sas

Tuition_wp – tuition in dollars of the nearest private school to each house for the nearest private school that has valid proficiency data (no missing values); when I had the choice between different tuition rates for Catholic and non-Catholic, parishioner or non-parishioner, boarder or villager, or different income classes, I chose the cheaper value; valid data for 166/185 private schools that contain 9th grade in Ohio; from phone survey work by Italia Jackson (completed 6/28/05) and Paul Darby (completed 11/3/05); from voucher project Priv_tuition2.xls; added 1/30/06 to data4.sas

Priv_math_wp - % of private school students proficient or above in math section for grade 9 test for sum (average) of 2000 and 2001 test years, for the nearest private school that has valid proficiency data (no missing values); Italia Jackson collected the data from Sheila Milligan (Sheila.Milligan@ode.state.oh.us) 8/19/05; from voucher project Nonpub NPT Avg for 2000-01Math.xls; added 1/30/06 to data4.sas

Censusidpriv_wp - census block identifier code for nearest private school to each house that has valid proficiency data (no missing values); Ryan got using Street Map 3.0 and geocode.com; from voucher project output.txt; added 1/30/06 to data4.sas

Priv_dist_wp - distance from each house to the nearest private school in miles for nearest private school that has valid proficiency data (no missing values); Ryan got using Street Map 3.0 and geocode.com; from voucher project output.txt; added 1/30/06 to data4.sas

Pctlt1_ct – percent of persons in census tract who have lived in current residence for less than one year; unavailable at cbg level; percent of householders in census tract who moved into their current residence between 1999 and March of 2000, when the Census was taken I guess; 18 of the 2941 tracts have missing or invalid data, leading to 4517 missing values in the housing data; mean in hsg data = 17; from newcomer.csv extracted from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; added 3/13/06 to data4.sas

Pctlt6_ct – percent of persons in census tract who have lived in current residence for less than six years; unavailable at cbg level; percent of householders in census tract who moved into their current residence between 1995 and March of 2000, when the Census was taken I guess; 18 of the 2941 tracts have missing or invalid data, leading to 4517 missing values in the housing data; mean in hsg data = 45; from newcomer.csv extracted from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; added 3/13/06 to data4.sas