Variable Codesheet

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1995-2016 Housing Voting Schooling Data Sets

Overview:

Four files containing many missing values and minimally cleaned data on

• all local issue Ohio votes from 1991-2015 on things like park, school, police, fire levies

• Census or Ohio Department of Taxation demographic data

• House sales from 1995 – early 2016 (except for one file) with house and mortgage info

File Names and Description

hsg\_school\_votes.dta - 1,594,111 housing observations covering 10,732 school district tax levies between 1991 and 2014, matched to housing characteristics, school district outcome data, and county, place/township, and school district demographic info

hsg\_twp\_place\_votes.dta - 4,801,815 housing obs matched to Census place and Census county subdivision info, as well as matched to 49,854 local government issue votes

hsg\_twp\_place\_votes\_cleaned\_imputed1a.dta and hsg\_twp\_place\_votes\_cleaned\_imputed1b.dta – took hsg\_twp\_place\_votes.dta and cleaned and imputed according to the code on p. 8 (5/10/18, for cleaning and variable creation) and p. 15 (5/16/18, for imputing most housing variables); it contains 3,474,147 housing obs with leads and lags of SALE\_PRICE, all demographic and most housing variables imputed 8 times, matched to Census demographic information at the township/village/city level, with all 50,000 votes at that level of geography; had to split it into parts a and b because too large to upload to UC Box, so part A is \_1\_YEAR\_BUILT <= 1965, part B is > 1965

hsg\_county\_votes.dta - 3,527,011 housing transactions matched with votes at the county level, with Census data at both county and place/twp level

cosub\_place\_county\_votes.dta - all local issue votes by townships, cities, villages, and counties from 1991 to 2015 including Census data, 49,854 local government votes with 48 levy and Census characteristics, but no housing and no school district votes

Variable Names and Definitions, grouped (and searchable) by

Voting Variables

Housing Variables

School Variables

Census Variables

Department of Taxation Variables

Identifier Variables

Voting Variables

year – year of the vote

tax\_type – takes values “Property” or “Income”

purpose2 – what the tax money is proposed for, like “school”, “police”, “EMS”; spending categories are the following, with vote totals as of 2015:

purpose2 | Freq. Percent Cum.

-----------------+-----------------------------------

EMS | 3,806 7.93 7.93

JVSD | 10 0.02 7.95

MRDD | 1,156 2.41 10.36

cemetery | 2,656 5.53 15.89

children | 590 1.23 17.12

conservation | 48 0.10 17.22

construction | 591 1.23 18.45

current expenses | 8,797 18.32 36.77

fire | 14,614 30.44 67.20

flood | 33 0.07 67.27

garbage | 291 0.61 67.88

health | 1,832 3.82 71.69

library | 828 1.72 73.42

other | 124 0.26 73.68

police | 2,704 5.63 79.31

port | 53 0.11 79.42

recreation | 2,450 5.10 84.52

road | 6,018 12.53 97.06

school | 31 0.06 97.12

senior | 975 2.03 99.15

system911 | 187 0.39 99.54

transit | 61 0.13 99.67

water | 160 0.33 100.00

description – “R” or “A”, for additional tax (a new or increased tax) or replacement of existing tax that is expiring, or RA (for ohio\_tax\_levies6.csv onward) for replace-and-increase

millage\_percent – amount of the tax, either in mills if it’s a property tax (a mill is a tenth of a percent) or a percent if it’s an income or sales tax

duration – duration of the levy in years, “cpt” means ‘continuing period of time’

votes\_for – number of votes in favor of the levy

votes\_against – number of votes against the levy

newpct – amount of the tax in percent of property value or income, as the case may be; converted mills to percent for property taxes to make them comparable

subdivision\_type – village, township, city, county, usually blank

subdivision\_name – name of the subdivision, if provided

Membership – if the taxing entity consists of more than one political unit, like a village and a city combine fire services, the joint members are listed

id – not relevant, I had numbered the tax levies at one point thinking it might come in useful but it didn’t

pctfor\_fire\_lead1, etc. – the pctfor associated with the renewal fire levy vote that took place, for example, one year before the housing sale; and if there is more than one renewal fire levy that year, he took the first one; I am to use these pctfor\_fire values in the regressions instead of the original pctfor variable; created 3/23/20 in finalpct.dta

pctfor\_fire\_alt\_lead1, etc. – the pctfor associated with the renewal fire levy vote that took place, for example, one year before the housing sale; and if there is more than one renewal fire levy that year, he took the first one; difference between these and pctfor\_fire\_lead1 is that pctfor\_fire\_alt\_lead1 has a maximum of one lead and one lag, corresponding to the first time the fire tax levy occurs; this should get around the possibility of more than one fire renewal levy messing with the magnitude of the treatment effect; I am to use these pctfor\_fire\_alt or pctfor\_fire values in the regressions instead of the original pctfor variable; created 3/28/20 in finalpct.dta

Housing Variables

|  |  |  |
| --- | --- | --- |
|  | **FIELD NAME** | **FIELD DEFINITIONS** |
| **KEY PARCEL IDENTIFICATION INFORMATION** | |  |
|  | year | year the house was sold, a variable constructed from the maximum of RECORDING\_DATE and SALE\_DATE, because sometimes there were missing values for one or the other |
| 1 | FIPS\_CODE | Federal Information Processing Standards codes used nationally to numerically identify a specific county or political jurisdiction. |
| 2 | UNFORMATTED APN | Assessor's Parcel Number in an unformatted form. This is most often used by the county and others as a unique key (e.g.,10132021A) |
| 3 | APN SEQUENCE NBR | This internal sequence number is used to ensure "unique-ness" of the Assessor's Parcel Number (e.g., 10132021A seq 001) |
| **PARCEL INDENTIFICATION INFORMATION** | |  |
| 4 | FORMATTED APN | Assessor's Parcel Number in a formatted form. Dashes and decimals are commonly used to break an APN down into logical components (e.g., 101-32-021.A). |
| 5 | ORIGINAL APN | Assessor's Parcel Number exactly as received by source (e.g., 10132-021A00000). |
| 6 | PREVIOUS PARCEL NUMBER | Previous Parcel ID that is only available for one year. |
| 7 | P-ID-IRIS-FRMTD | APN that would link to CoreLogic online products. |
| 8 | ACCOUNT NUMBER | The county or source number used primary for billing. Note: this number is typically not unique to a parcel, but rather to a tax bill (multiple parcels can be combined on 1 bill). |
| **PARCEL INFORMATION** | |  |
| 9 | MAP REFERENCE 1 | A CoreLogic unique key to link record to the CoreLogic CD Map product. This is typically built from components of the APN that are relevant to the Assessor Maps (e.g., 101-32, represent Map Book and Map Page numbers). |
| 10 | MAP REFERENCE 2 | A secondary CoreLogic unique key to link property records to the CoreLogic CD Map product. See MAP REFERENCE 1 above. |
| 11 | CENSUS TRACT | Comprised of Census Tract, Census Block and Census Block Suffix. These numbers are established by the US Department of Commerce (Bureau Of The Census). |
| 12 | BLOCK NUMBER | Subdivision or County Map Block Number |
| 13 | LOT NUMBER | Subdivision or County Map Lot Number |
| 14 | RANGE | The "range" portion of geographical coordinates based on local surveys. Ranges typically run east or west of pre-determined "meridian" in six mile intervals. |
| 15 | TOWNSHIP | The "township" portion of geographical coordinates based on local surveys. Townships typically run north or south of pre-determined "meridian" in six mile intervals. |
| 16 | SECTION | The "section" portion of geographical coordinates based on local surveys. Sections are 1 square mile and there are 36 sections within the intersection of a Range / Township. |
| 17 | QUARTER SECTION | A section that has been divided into four "sub" sections (e.g., NE, NW, SE, SW). |
| 18 | FLOOD ZONE COMMUNITY PANEL ID | This represents the FEMA Community Panel Number. |
| 19 | LAND USE | A CoreLogic established Land Use code converted from various county Land Use codes to aid in search and extract functions. |
| 20 | COUNTY USE 1 | Primary (i.e., highest) Land Use as established by the county or local taxing administration. |
| 21 | COUNTY USE 2 | Secondary Land Use as established by the county or local taxing administration. |
| 22 | MOBILE HOME IND | This field is populated with a "Y" if a Mobile Home is present on the parcel. |
| 23 | ZONING | The data contained in this field is based upon County and/or Local established Zoning Codes and are not converted by CoreLogic |
| 24 | PROPERTY INDICATOR | A CoreLogic general code used to easily recognize specific property types (e.g, Residential, Condominium, Commercial). |
| 25 | MUNICIPALITY NAME | Name of the Municipality where parcel is located. |
| 26 | MUNICIPALITY CODE | Corresponding Municipality Code (unique within the same county only) |
| **SUBDIVISION INFORMATION** | |  |
| 27 | SUBDIVISION TRACT NUMBER | The unique number assigned to a specific subdivision by the county. Often this is used in lieu of an actual subdivision name. |
| 28 | SUBDIVISION PLAT BOOK | The first component of a recording system used by some counties to catalog subdivision / condo plans (e.g., Book 123 Page 55A). |
| 29 | SUBDIVISION PLAT PAGE | The second component of a recording system used by some counties to catalog subdivision / condo plans (e.g., Book 123 Page 55A). |
| 30 | SUBDIVISION NAME | The name of the Subdivision or Condominium where the parcel is located (e.g., Highland Mills Estates, Crystal Towers Condo). |
| **PROPERTY ADDRESS INFORMATION** | |  |
| 31 | BLOCK LEVEL LATITUDE (2.6) | The property location based upon the "latitude" component of latitude/longitude coordinates. The latitude is stored in decimal degrees to 6 decimal places (e.g., 12.123456) and will always be positive north of the North American continent. |
| 32 | BLOCK LEVEL LONGITUDE (3.6) | The property location based upon the "longitude" component of latitude/longitude coordinates. The longitude is stored in decimal degrees to 6 decimal places (e.g., 123.123456) and will always be negative on the North American continent. |
| 33 | SITUS HOUSE NUMBER PREFIX | The digits found to the left of a traditional house number (e.g., A123 MAIN ST) portion of a property address. |
| 34 | SITUS HOUSE NUMBER | The digits found to the immediate right of the Situs House Number Prefix and to the left of a traditional street name (e.g., A123 MAIN ST). |
| 35 | SITUS HOUSE NUMBER #2 | The digits found to the immediate right of the Situs House Number in rare circumstances such as 123-125 MAIN ST |
| 36 | SITUS HOUSE NUMBER SUFFIX | The digits found to the right of a traditional house number often representing a multiple or range of entries to a building (e.g., 202B JONES RD, 202-220 JONES RD). |
| 37 | SITUS DIRECTION | This field represents the direction found to the left of the street name (e.g., 9340 N DUNHILL DR / 340 NW 70TH AVE). AKA Directional Abbreviations, Pre-Directional. |
| 38 | SITUS STREET NAME | The name or number of the street where a parcel is located (e.g., 9340 N DUNHILL DR / 340 NW 70TH AVE / RR BOX 202, 12 BOX CREEK RD). |
| 39 | SITUS MODE | The Mode or Type of street found to the right of the street name (e.g.., 9340 N DUNHILL DR). AKA Street Designators / Street Suffixes. |
| 40 | SITUS QUADRANT | The quadrant field is found to the right of Situs Mode (e.g., 100 TEMPLE ST NW, 2040 NW 100 ST SW). AKA Post-Directional. |
| 41 | SITUS UNIT NUMBER | The unit or suite number of the property address (e.g., 649 LAKE SHORE DR #1400). |
| 42 | SITUS CITY | The city associated with the property address (e.g., CHICAGO, ATLANTA, DENVER). |
| 43 | SITUS STATE | The two-letter USPS postal abbreviation associated with the state / protectorants / commonwealth (e.g., CA, VI, PR). |
| 44 | SITUS ZIP CODE | The nine digit (i.e., ZIP & plus 4) assigned by the USPS. This is populated by various source files and other proprietary and non-proprietary processes (e.g., 954630042). |
| 45 | SITUS CARRIER CODE | This is the four digit code used by the local mail carrier to identify the delivery path. |
| **OWNER INFORMATION** | |  |
| 46 | OWNER CORPORATE INDICATOR | The Name of the property owner has been recognized as a corporation or business. See "CORP" Table for descriptions |
| 47 | OWNER 1 LAST NAME | The name of the property owner. |
| 48 | OWNER 1 FIRST NAME & M I | Additional owner names if more than one person owns the property. |
| 49 | OWNER 2 LAST NAME | Non parsed owner name. |
| 50 | OWNER 2 FIRST NAME & MI | Additional owner names if more than one person owns the property - non parsed. |
| 51 | ABSENTEE OWNER STATUS | CoreLogic proprietary logic that determines if the property owner resides at the situs (property site).  Values: |
| 52 | HOMESTEAD EXEMPT | This field will be set with an "Y" if the owner has qualified for a Homeowner/Homestead exemption. |
| 53 | OWNER ETAL INDICATOR | A code appearing in this field indicates additional ownership, whose name(s) were not provided by our sources. |
| 54 | OWNER OWNERSHIP RIGHTS CODE | Form or Method of Property Ownership (e.g., Joint Tenancy, Living Trust). |
| 55 | OWNER RELATIONSHIP TYPE | Relationship between multiple owners or the marital status of a single owner (e.g., Husband/Wife, Unmarried Man). |
| **OWNER MAIL ADDRESS INFORMATION** | |  |
| 56 | MAIL HOUSE NUMBER PREFIX | The digits found to the left of a traditional house number (e.g., A123 MAIN ST) portion of a mailing address. |
| 57 | MAIL HOUSE NUMBER | The digits found to the immediate right of the Mail House Number Prefix and to the left of a traditional street name (e.g., A123 MAIN ST). |
| 58 | MAIL HOUSE NUMBER #2 | The digits found to the immediate right of the Mail House Number in rare circumstances such as 123-125 MAIN ST |
| 59 | MAIL HOUSE NUMBER SUFFIX | The digits found to the right of a traditional house number often representing a multiple or range of entries to a building (e.g., 202B JONES RD, 202-220 JONES RD). |
| 60 | MAIL DIRECTION | This field represents the direction found to the left of the street name (e.g., 9340 N DUNHILL DR / 340 NW 70TH AVE). AKA Directional Abbreviations, Pre-Directional. |
| 61 | MAIL STREET NAME | The name or number of the street where a parcel is located (e.g., 9340 N DUNHILL DR / 340 NW 70TH AVE / RR BOX 202, 12 BOX CREEK RD). |
| 62 | MAIL MODE | The Mode or Type of street found to the right of the street name (e.g.., 9340 N DUNHILL DR). AKA Street Designators / Street Suffixes. |
| 63 | MAIL QUADRANT | The quadrant field is found to the right of Mail Mode (e.g., 100 TEMPLE ST NW, 2040 NW 100 ST SW). AKA Post-Directional. |
| 64 | MAIL UNIT NUMBER | The unit or suite number of the mailing address (e.g., 649 LAKE SHORE DR #1400). |
| 65 | MAIL CITY | The city associated with the mailing address (e.g., CHICAGO, ATLANTA, DENVER). |
| 66 | MAIL STATE | The two-letter USPS postal abbreviation associated with the state / protectorants / commonwealth (e.g., CA, VI, PR). |
| 67 | MAIL ZIP CODE | The nine digit (i.e., ZIP & plus 4) assigned by the USPS. This is populated by various source files and other proprietary and non-proprietary processes (e.g., 954630042). |
| 68 | MAIL CARRIER CODE | This is the four digit code used by the local mail carrier to identify the delivery path. |
| 69 | MAILING OPT-OUT CODE | A "Y" represents a record where the property owner has contacted the DMA (i.e., Direct Marketing Association) and has asked not to be contacted by mail for solicitation. |
| **VALUES INFORMATION** | |  |
| 70 | TOTAL VALUE CALCULATED | The "TOTAL" (i.e., Land + Improvement) Value closest to current market value used for assessment by county or local taxing authorities. |
| 71 | LAND VALUE CALCULATED | The "LAND" Value closest to current market value used for assessment by county or local taxing authorities. |
| 72 | IMPROVEMENT VALUE CALCULATED | The "IMPROVEMENT" Value closest to current market value used for assessment by county or local taxing authorities. |
| 73 | TOTAL VALUE CALCULATED IND | The code appearing in this indicator field reflects the type of values (e.g., Market, Appraised) used to seed the TOTAL VALUE CALCULATED field. |
| 74 | LAND VALUE CALCULATED IND | The code appearing in this indicator field reflects the type of values (e.g., Market, Appraised) used to seed the LAND VALUE CALCULATED field. |
| 75 | IMPROVEMENT VALUE CALCULATED IND | The code appearing in this indicator field reflects the type of values (e.g., Market, Appraised) used to seed the IMPROVEMENT VALUE CALCULATED field. |
| 76 | ASSD TOTAL VALUE | The Total Assessed Value of the Parcel's Land & Improvement values as provided by the county or local taxing/assessment authority. |
| 77 | ASSD LAND VALUE | The Assessed Land Values as provided by the county or local taxing/assessment authority. |
| 78 | ASSD IMPROVEMENT VALUE | The Assessed Improvement Values as provided by the county or local taxing/assessment authority. |
| 79 | MKT TOTAL VALUE | The Total Market Value of the Parcel's Land & Improvement values as provided by the county or local taxing/assessment authority. |
| 80 | MKT LAND VALUE | The Market Land Values as provided by the county or local taxing/assessment authority. |
| 81 | MKT IMPROVEMENT VALUE | The Market Improvement Values as provided by the county or local taxing/assessment authority. |
| 82 | APPR TOTAL VALUE | The Total Appraised Value of the Parcel's Land & Improvement values as provided by the county or local taxing/assessment authority. |
| 83 | APPR LAND VALUE | The Appraised Land Values as provided by the county or local taxing/assessment authority. |
| 84 | APPR IMPROVEMENT VALUE | The Appraised Improvement Values as provided by the county or local taxing/assessment authority. |
| 85 | TAX AMOUNT | The Total Tax amount provided by the county or local taxing/assessment authority. |
| 86 | TAX YEAR | The tax year for which the taxes were billed. |
| 87 | ASSESSED YEAR | The assessment year for which the taxes were billed. |
| 88 | TAX CODE AREA | This is a county specific code that represent the tax entity(s) for which a parcel is taxed (e.g., Park Hosp Dist, Hall Sch Dist,). |
| **CURRENT SALE INFORMATION** | |  |
| 89 | BATCH-ID | CoreLogic internal date number - can be used in the creation of unique keys |
| 90 | BATCH-SEQ | CoreLogic internal sequence number - can be used in the creation of unique keys |
| 91 | MULTI APN FLAG | The data contained in this field depicts multiple or split parcel sales. |
| 92 | DOCUMENT NO. | The document number used by some counties to record sales transactions (e.g., 000012345678). |
| 93 | BOOK & PAGE | The Book and Page number used by some counties to catalog their sales recordings (e.g., 001234005678). |
| 94 | DOCUMENT TYPE | The type of deed used to record the sales transaction (e.g., Grant, Quit, Foreclosure). |
| 95 | RECORDING DATE | The date the sales transaction was recorded at the county (e.g., 19621028) |
| 96 | SALE DATE | The date the sales transaction was legally completed (i.e., contact signed) (e.g., 19621025). |
| 97 | SALE PRICE | Price of the sale as depicted on the recorded sales transaction. (my note: this is more useful than SALE AMOUNT because fewer observations missing, and amount almost never has info that price doesn’t, and from time to time price and amount disagree, with amount being lower |
| 98 | SALE CODE | This field indicates what the financial consideration is. |
| 99 | SELLER NAME | The seller's name as it appears on the recorded sales transaction. |
| 100 | TRANSACTION TYPE | This identifies situations associated with the sale (e.g., Resale, Construction Loan, Seller Carryback). |
| 101 | TITLE COMPANY CODE | This is a CoreLogic internal code used to identify the Title Company that was associated with the sales transaction. |
| 102 | TITLE COMPANY NAME | This is the Title Company associated with the sales transaction |
| 103 | RESIDENTIAL MODEL INDICATOR | A code to indicate whether the property is residential based on individual zipcodes and values. "Y" = yes, "N" or blank = no |
| **CURRENT TRUST DEED INFORMATION** | |  |
| 104 | 1st MORTGAGE AMOUNT | The amount of the first mortgage as depicted on the recorded document. |
| 105 | MORTGAGE DATE | The date the Mortgage was initiated. |
| 106 | MORTGAGE LOAN TYPE CODE | Type of load secured (e.g., Conventional, FHA, VA). Please see "MTGTP" table for code descriptions |
| 107 | MORTGAGE DEED TYPE | Type of deed used for recording (e.g., Agreement of Sale, Assumption, Correction Deed). |
| 108 | MORTGAGE TERM CODE | This code is used to identify whether the number stored in the MORTGAGE TERM field is in Days, Months or Years. |
| 109 | MORTGAGE TERM | The length of time before the mortgage matures (e.g., 15yrs, 30 yrs, 45dys). |
| 110 | MORTGAGE DUE DATE | The date the mortgage amount becomes due. |
| 111 | MORTAGE ASSUMPTION AMOUNT | The assumption amount related to an existing mortgage. |
| 112 | LENDER CODE | This is a CoreLogic internal code used to identify the Lending Company that was associated with the sales transaction. |
| 113 | LENDER NAME | This is the name of the lender on the original recorded document. |
| 114 | 2nd MORTGAGE AMOUNT | This is the amount associated with the 2nd mortgage. |
| 115 | 2nd MORTGAGE LOAN TYPE CODE | Type of load secured as part of the 2nd mortgage (e.g., Conventional, FHA, VA). |
| 116 | 2nd DEED TYPE | Type of deed used for recording the 2nd mortgage (e.g., Agreement of Sale, Assumption, Correction Deed). |
| **LOT / LAND INFORMATION** | |  |
| 117 | FRONT FOOTAGE | The linear feet across the front of the lot - facing the street. |
| 118 | DEPTH FOOTAGE | The linear feet between the front and back of the lot. |
| 119 | ACRES | Total land mass in Acres. Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project, also newhouses\_acres 8/14/19 in notes\_2015data.docx |
| 120 | LAND SQUARE FOOTAGE | Total land mass is Square Feet. |
| **SQUARE FOOTAGE INFORMATION** | |  |
| 121 | UNIVERSAL BUILDING SQUARE FEET | The Building Square Footage that can most accurately be used for assessments or comparables (e.g., Living, Adjusted, Gross)., also newhouses\_sqft 8/14/19 in notes\_2015data.docx |
| 122 | BUILDING SQUARE FEET IND | The codes appearing in this field indicates the source used to populate the UNIVERSAL BUILDING SQUARE FEET field (e.g., Living, Adjusted, Gross). |
| 123 | BUILDING SQUARE FEET | The size of the building in Square Feet. This field is most commonly populated as a cumulative total when a county does not differentiate between Living and Non-living areas. |
| 124 | LIVING SQUARE FEET | This is the area of a building that is used for general living. This is typically the area of a building that is heated or air conditioned and generally does not include Garage, Porch or Unfinished Basement Square Footage values. Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project |
| 125 | GROUND FLOOR SQUARE FEET | Square footage of the part of the building which is level with the ground (typically the front of the building). This is generally above the basement(s) and below the second floor. |
| 126 | GROSS SQUARE FEET | This is the square footage for the entire building. Typically this represents all square feet under the roof. |
| 127 | ADJUSTED GROSS SQUARE FEET | This is the square footage used by the county or local taxing / assessment authority to determine Improvement Value. This figure is typically 100% of the living area, plus lower percentage of non-living area. |
| 128 | BASEMENT SQUARE FEET | This is total square footage associated with Basement portion of a building. This would include both finished and unfinished areas. |
| 129 | GARAGE/PARKING SQUARE FEET | This is the total square footage of the primary garage or parking area (i.e., commercial). |
| **BUILDING INFORMATION** | |  |
| 130 | YEAR BUILT | This is the construction year of the original building. |
| 131 | EFFECTIVE YEAR BUILT | This is the first year the building was assessed with its current components (e.g., a building is originally constructed in 1960 and a bedroom and bath was added to the building in 1974. The Year Built would be 1960 and the Effective Year Built would be 1974. |
| 132 | BEDROOMS | Total number of bedroom contained in the primary building. Mean for city/year for lags 1 and 3 and leads 1-5 created 5/24/18 in firelevies project |
| 133 | TOTAL ROOMS | Total number of rooms contained in the primary building. Also newhouses\_rooms 8/14/19 in notes\_2015data.docx |
| 134 | TOTAL BATHS CALCULATED | Total number of Bath Rooms in whole numbers (e.g., a home containing 2 1/2 baths would have the number 3 stored in this field as, three actual rooms have been designated for this purpose). |
| 135 | TOTAL BATHS | Total number of Bathrooms as provided by our data sources (e.g., 4.00, 2.50, 1.75). |
| 136 | FULL BATHS | Total number of Full Baths (typically comprised of a sink, toilet, and bathtub / shower stall). A home containing 2 1/2 baths would have the number 2 stored in this field. |
| 137 | HALF BATHS | Total number of Half Baths (typically comprised of a sink & toilet). A home containing 2 1/2 baths would have the number 1 stored in this field. |
| 138 | 1QTR BATHS | Total number of Quarter Baths (typically comprised only of a sink, as found in many laundry rooms). |
| 139 | 3QTR BATHS | Total number of 3 Quarter Baths (typically comprised of a sink, toilet & shower stall). |
| 140 | BATH FIXTURES | The total number of bathroom fixtures (typically a Full Bath would have 4 fixtures - 1 = sink, 1 = toilet, 1 = bathtub, 1 = shower head). |
| 141 | AIR CONDITIONING | The type of air conditioning method used to cool the building (e.g., Central, Wall Unit, Evaporative). |
| 142 | BASEMENT FINISH | The standardized code that identifies the basement's degree of completion. |
| 143 | BASEMENT DESCRIPTION | The standardized basement type |
| 144 | BLDG CODE | The primary building type (e.g., Bowling Alley, Supermarket). |
| 145 | BLDG IMPV CODE | The primary improvement type (e.g., Grain Silo, Hanger, Marina). |
| 146 | CONDITION | This represent the physical condition of the mail improvement (e.g., Good, Fair, Under Construction). |
| 147 | CONSTRUCTION TYPE | The primary method of construction (e.g., Steel / Glass, Concrete Block, Log). |
| 148 | EXTERIOR WALLS | The type and/or finish of the exterior walls (e.g., Vinyl Siding, Brick Veneer, Frame / Stone). |
| 149 | FIREPLACE IND | This field is populated with a "Y" if a fireplace is located within the building. |
| 150 | FIREPLACE NUMBER | This represent the number of fireplace openings located within the building |
| 151 | FIREPLACE TYPE | The type of fireplace (e.g., 2 Story / 3 Openings, 2 Story Brick). |
| 152 | FOUNDATION | The type of foundation (e.g., Continuous Footing, Pier, Mud Sill). |
| 153 | FLOOR | The type of floor construction (e.g., Concrete, Plywood). |
| 154 | FRAME | The type of roof framing used (e.g., Bar Joist, Reinforced Concrete, Flexicore). |
| 155 | GARAGE | Type of garage or carport present (e.g., Attached Finished, Enclosed Carport, Basement Garage). |
| 156 | HEATING | Type or method of heating (e.g., Hot Water, Heat Pump, Baseboard, Radiant). |
| 157 | PARKING SPACES | This represent the total number of Parking Spaces or Car Capacity associated with the Garage or Parking type. |
| 158 | PARKING TYPE | Type of parking found on the parcel. This is typically commercial or communal (e.g., Condos) in nature. |
| 159 | POOL | This field is populated with a "Y" if a Pool is present on the parcel |
| 160 | POOL CODE | Type of pool, construction or pool amenities (e.g., Kidney, Gunite, Vinyl, Jacuzzi, Heated). |
| 161 | QUALITY | Type of construction quality of building (e.g., excellent, economical). |
| 162 | ROOF COVER | Type of roof covering (e.g., Clay Tile, Aluminum, Shake). |
| 163 | ROOF TYPE | Type of roof shape (e.g., Gambrel, Gable, Flat, Mansard). |
| 164 | STORIES CODE | Type / number of stories (e.g., Split Foyer, Tri Level, 2 Story). |
| 165 | STORIES NUMBER | Number of stories associated with the building (e.g., 2, 1.5). |
| 166 | STYLE | Type of building style (e.g., Colonial, Cape Code, Bungalow). |
| 167 | VIEW | View from building (e.g., Gulf, Mountains, Pool). |
| 168 | LOCATION INFLUENCE | Positive or negative aspects associated with the location of the parcel (e.g., waterfront, flood plane, airport). |
| 169 | NUMBER OF UNITS | Total number of buildings on the parcel. |
| 170 | UNITS NUMBER | Number of Residential, Apartment or Business Units. |
| 171 | ELECTRIC/ENERGY | Type of electricity or energy use within the building (e.g., Average Wiring, Underground Wired, Private Source). |
| 172 | FUEL | Type of fuel used for heating of water and building (e.g., Solar, Gas, Oil). |
| 173 | SEWER | Type of sewer system on the parcel (e.g., Public, Septic, Commercial). |
| 174 | UTILITIES | The type of utilities used in a building (e.g., Electric, Oil, Private). |
| 175 | WATER | Type of water service on the parcel (e.g., Public, Well, Cistern). |
| **LEGAL DESCRIPTION** | |  |
| 176 | LEGAL | First 250 bytes of the total 750 byte legal description. |
| 177 | LEGAL | Second 250 bytes of the total 750 byte legal description. |
| 178 | LEGAL | Third 250 bytes of the total 750 byte legal description. |

Note: these are more house variables from the “deed layout”, as opposed to the “tax layout” above. Deed layout variable set captures historical transactions and data while tax layout is only current information. Many variables are duplicates. Some require tables of codes, which I put below the variable descriptions.

|  |  |  |
| --- | --- | --- |
|  | **FIELD NAME** | **FIELD EXPLANATIONS** |
|  | **KEY PARCEL IDENTIFICATION INFORMATION** |  |
| 1 | FIPS | Federal Information Processing Standards codes, used to identify specific counties or political jurisdictions. |
| 2 | APN (Parcel Number) (unformatted) | Assessor's Parcel Identification in unformatted form. Most often a county unique key for identifying a parcel |
| 3 | APN (Parcel Number) (formatted) | Assessor's Parcel Identification in formatted form. Dashes or decimals added to break an APN into logical components |
| 4 | APN SEQUENCE NUMBER | Internal sequence number used to ensure "uniqueness" of the APN within a county. |
| 5 | ORIGINAL APN | Assessor's Parcel Identification Number as received from the source. |
| 6 | ACCOUNT NUMBER | County of source number used primarily for billing. Not necessarily unique to a parcel number (i.e.: several parcels with one billing "account" number. |
|  | **NAME & ADDRESS INFORMATION** |  |
| 7 | CORPORATE INDICATOR | Name of the property owner has been recognized as a corporation or business (see CORPORATE INDICATOR table below) |
| 8 | OWNER 1 LAST NAME | Last name of the BUYER (1st OWNER) |
| 9 | OWNER 1 FIRST NAME & M I | First name of the BUYER (1st OWNER) |
| 10 | OWNER 2 LAST NAME | Last name of the BUYER (2nd OWNER) |
| 11 | OWNER 2 FIRST NAME & MI | First name of the BUYER (2nd OWNER) |
| 12 | OWNER ETAL INDICATOR | Code indicates additional owners whose names were not supplied by the source (see OWNER ETAL INDICATOR table below) |
| 13 | C/O NAME | Care of Name as supplied by the source |
| 14 | OWNER RELATIONSHIP RIGHTS CODE | Form or method of property ownership (i.e.; joint tenancy) (see OWNERSHIP RIGHTS CODE Table below) |
| 15 | OWNER RELATIONSHIP TYPE | Relationship between multiple owners or marital status. (see OWNERSHIP RELATIONSHIP TYPE table below) |
| 16 | PARTIAL INTEREST INDICATOR | An indicator showing the Owner/Buyer has a partial interest in the property (see PARTIAL INTEREST INDICATOR table below) |
| 17 | ABSENTEE OWNER STATUS | Indicator to indetify if the owner lives at the residence. This field is not populated for non-residential parcels (see ABSENTEE INDICATOR table below) |
|  | **SITUS ADDRESS** |  |
| 18 | FILLER | FILLER |
| 19 | FILLER | FILLER |
| 20 | SITUS HOUSE NUMBER PREFIX | Digits found to the left of the house number of the property address |
| 21 | SITUS HOUSE NUMBER | House number of the property address (Numeric field with leading zeros, but can contain alpha characters) |
| 22 | SITUS HOUSE NUMBER SUFFIX | Digits found to the right of the house number of the property address |
| 23 | SITUS STREET DIRECTION | Name or number of the street. Numeric streets have 10 digits with leading zeros |
| 24 | SITUS STREET NAME | Mode of Type of street (i.e.; Ave, St Blvd) |
| 25 | SITUS MODE | Direction of the street |
| 26 | SITUS QUADRANT | Represents the quadrant of the city. (i.e. 100 Temple St NW) AKA post direction |
| 27 | SITUS APARTMENT UNIT | The unit or suite number of the property address |
| 28 | SITUS CITY | The city associated with the property address |
| 29 | SITUS STATE | Two letter USPS abbreviation of the state |
| 30 | SITUS ZIP CODE | Nine digit code assigned by the USPS |
| 31 | SITUS CARRIER CODE | Four digit code used by the local mail carrier to identify delivery path |
|  | **MALING ADDRESS** |  |
| 32 | MAILING HOUSE NUMBER PREFIX | Digits found to the left of the house number of the mailing address |
| 33 | MAILING HOUSE NUMBER | House number of the mailing address (Numeric field with leading zeros, but can contain alpha characters) |
| 34 | MAILING HOUSE NUMBER SUFFIX | Digits found to the right of the house number of the mailing address |
| 35 | MAILING DIRECTION | Direction of the street |
| 36 | MAILING STREET NAME | Name or number of the street. Numeric streets have 10 digits with leading zeros |
| 37 | MAILING MODE | Mode of Type of street (i.e.; Ave, St Blvd) |
| 38 | MAILING QUADRANT | Represents the quadrant of the city. (i.e. 100 Temple St NW) AKA post direction |
| 39 | MAILING APARTMENT UNIT | The unit or suite number of the mailing address |
| 40 | MAILING PROPERTY CITY | The city associated with the mailing address |
| 41 | MAILING PROPERTY STATE | Two letter USPS abbreviation of the state |
| 42 | MAILING PROPERTY ADDRESS ZIP CODE | Nine digit code assigned by the USPS |
| 43 | MAILING CARRIER CODE | Four digit code used by the local mail carrier to identify delivery path |
|  | **SALES INFORMATION** |  |
| 44 | BATCH-ID | Batch number portion of Transaction ID |
| 45 | BATCH-SEQ | Sequence number portion of Transaction ID |
| 46 | SELLER LAST NAME | Last Name of Seller |
| 47 | SELLER FIRST NAME | First Name of Seller |
| 48 | SELLER NAME 1 | Full Name of First Seller |
| 49 | SELLER NAME 2 | Full Name of Second Seller |
| 50 | SALE CODE | Field indicates what the financial consideration is (F=FULL, P= PARTIAL) (see SALE CODE table below) |
| 51 | SALE AMOUNT | Price of the sale appearing on the recording document |
| 52 | SALE DATE (YYYYMMDD) | Date the sale was legally completed |
| 53 | RECORDING DATE (YYYYMMDD) | Date the transaction was recorded |
| 54 | DOCUMENT TYPE | Type of transfer document recorded (Grand Deed, Trust Deed etc) (see DOCUMENT TYPE table below) |
| 55 | TRANSACTION TYPE | CoreLogic code identifying the type of transaction (see TRANSACTION TYPE table below) |
| 56 | DOCUMENT NUMBER | Recorders document number, used by some counties to record transactions |
| 57 | BOOK/PAGE (6x6) | Recorders book & page, used by some counties to record transactions |
| 58 | LENDER LAST NAME | Name of Lender as recorded on the original document |
| 59 | LENDER FIRST NAME | May be first name if lender is private party |
| 60 | LENDER ADDRESS | Address of the Lender, as recorded on the original document |
| 61 | LENDER CITY | Lender City, as recorded on the original document |
| 62 | LENDER ST | Lender St, as recorded on the original document |
| 63 | LENDER ZIP | Lender ZIP, as recorded on the original document |
| 64 | LENDER COMPANY CODE | CoreLogic internal code used to identify the Lender (no table is available) |
| 65 | TITLE COMPANY NAME | Filler |
| 66 | TITLE COMPANY CODE | CoreLogic internal code used to identify the Title Company associated with the sale |
| 67 | MORTGAGE AMOUNT | Amount of the mortgage |
| 68 | MORTGAGE DATE | Date the mortgage was initiated |
| 69 | MORTGAGE INTEREST RATE | Numeric Value of Interest Rate. i.e. "05.8750" Actual entry is 058750. End user must format field to place decimal point at second position |
| 70 | MORTGAGE LOAN TYPE CODE | Type of loan secured (VA, FHA, CONV etc) (see MORTGAGE LOAN TYPE CODE table below) |
| 71 | MORTGAGE DEED TYPE | Type of deed used for recording (Agreement of sale, Assumption Etc) (see MORTGAGE DOCUMENT TYPE table below) |
| 72 | MORTGAGE TERM CODE | Code used to identify whether number stored in Mortgage Term is days, months or years (see MORTGAGE TERM CODE Table below) |
| 73 | MORTGAGE TERM | Length of time for the mortgage to mature |
| 74 | MORTGAGE DUE DATE | The date the mortgage becomes due |
| 75 | MORTGAGE ASSUMPTION AMOUNT | The assumption amount related to the existing mortgage |
| 76 | 2ND MORTGAGE AMOUNT | Amount associated with a second mortgage |
| 77 | 2ND MORTGAGE LOAN TYPE CODE | Type of loan secured (VA, FHA, CONV etc) (see MORTGAGE LOAN TYPE table below) |
| 78 | 2ND DEED TYPE | Type of deed used for recording (Agreement of sale, Assumption etc) (see MORTGAGE DOCUMENT TYPE table below) |
| 79 | PRI-CAT-CODE | Primary category of the transaction type (i.e.: arms length) (see PRI-CAT-CODE table below) |
| 80 | MTG SEC CAT CODES 1X10 | Detailed category codes which provide additional mortgage information. (see SECONDARY CAT CODES table below) |
| 81 | DEED SEC CAT CODES 2X10 | Detailed category codes which provide additional deed information. (see SECONDARY CAT CODES table below) |
| 82 | OWNERSHIP TRANSFER PERCENTAGE | A percentile showing the percentage of ownership transferred |
| 83 | LAND USE | CoreLogic established Land Use code converted from individual county supplied codes. (see LAND USE table below) |
| 84 | PROPERTY INDICATOR | CoreLogic generated code to easily identify types of property (Residential, Commercial, Vacant etc) (see PROPERTY INDICATOR table below) |
| 85 | SELLER CARRY BACK | Indicator showing the Seller carried the mortgage (see table below) |
| 86 | INTER FAMILY | Indicator showing the sale is inter-family (see table below) |
| 87 | PRIVATE PARTY LENDER | Indicator showing the Lender is a Private Party (see table below) |
| 88 | MORTGAGE INTEREST RATE TYPE | Interest rate type of the loan (Adjustable, Fixed) (see table below) |
| 89 | CONSTRUCTION LOAN | Indicator showing the loan is for construction (see table below) |
| 90 | RESALE/NEW CONSTRUCTION | "M" shows the sale is a re-sale, "N" shows the sale is for new construction (see table below) |
| 91 | FORECLOSURE | Indicator showing the transaction is a foreclosure (see table below) |
| 92 | CASH/MORTGAGE PURCHASE | "Q" indicates the sale was for cash, "R" indicates the sale was mortgaged (see table below) |
| 93 | EQUITY FLAG | Indicator showing the transaction is an equity loan (see table below) |
| 94 | REFI FLAG | Indicator showing the transaction is a re-finance (see table below) |
| 95 | RESIDENTIAL MODEL INDICATOR | Indicator is set to indicate the property is residential based on zip code and value (see table below) |
| 96 | ADD / CHANGE FIELD | Indicator showing if the record is a new tecord or a older record that has been changed: (see table below) |
| 97 | FILLER | FILLER |

TABLES OF CODES FOR HOUSING VARIABLES

|  |  |  |
| --- | --- | --- |
| **table Name** | **Code Value** | **Code Description** |
| ABSENTEE INDICATOR | A | ABSENTEE BECAUSE THE MAILING AND SITUS ADDRESSES DON’T MATCH |
| ABSENTEE INDICATOR | M | SITUS ADDRESS TAKEN FROM MAIL (ASSUMED OWNER OCCUPIED) |
| ABSENTEE INDICATOR | O | OWNER OCCUPIED |
| ABSENTEE INDICATOR | S | SITUS ADDRESS TAKEN FROM SALES TRANSACTION - DETERMINED OWNER OCCUPIED |
| ABSENTEE INDICATOR | T | SITUS ADDRESS TAKEN FROM SALES TRANSACTION - DETERMINED ABSENTEE OWNER |
| ADD / CHANGE INDICATOR | A | NEW RECORD |
| ADD / CHANGE INDICATOR | C | CHANGED RECORD |
| ADD / CHANGE INDICATOR | D | DELETE RECORD |
| CASH MORTGAGE TYPE | C | CASH |
| CASH MORTGAGE TYPE | M | MORTGAGE |
| CASH MORTGAGE TYPE | Q | CASH |
| CASH MORTGAGE TYPE | R | MORTGAGE |
| CONSTRUCTION LOAN INDICATOR | L | YES |
| CORPORATE INDICATOR | Blank | Undetermined |
| CORPORATE INDICATOR | C | Corporation |
| CORPORATE INDICATOR | N | Not Corporation |
| CORPORATE INDICATOR | T | Trust |
| CORPORATE INDICATOR | Y | Yes - Corporation |
| DOCUMENT TYPE | D | RELEASE OF DEED OF TRUST/MTG |
| DOCUMENT TYPE | G | GRANT DEED |
| DOCUMENT TYPE | J | MECHANIC LIENS |
| DOCUMENT TYPE | L | LIS PENDENS |
| DOCUMENT TYPE | N | NOTICE OF DEFAULT |
| DOCUMENT TYPE | Q | QUIT CLAIM |
| DOCUMENT TYPE | R | RELEASE/RECISION |
| DOCUMENT TYPE | S | LOAN ASSIGNMENT |
| DOCUMENT TYPE | T | DEED OF TRUST |
| DOCUMENT TYPE | U | FORECLOSURE |
| DOCUMENT TYPE | X | MULTI CNTY/ST OR OPEN-END MORTGAGE |
| EQUITY FLAG | C | CREDIT LINE |
| EQUITY FLAG | E | EQUITY |
| EQUITY FLAG | R | REVOLVING CREDIT |
| EQUITY FLAG | S | SECOND |
| EQUITY FLAG | Y | YES |
| FORECLOSURE | O | REO - NOMINAL, TRANSFER BETWEEN BANK AND FNMA, FHA, ETC.. |
| FORECLOSURE | P | REO SALE - SALE FROM GOVERNMENT TO PRIVATE PARTY |
| FORECLOSURE | Y | REO - NOMINAL, TRANSFER BETWEEN BANK AND FNMA, FHA, ETC.. |
| INTER FAMILY | Y | YES |
| INTEREST RATE TYPE | ADJ | Adjustable |
| INTEREST RATE TYPE | BAL | Balloon |
| INTEREST RATE TYPE | FIX | Fixed |
| LAND USE | 100 | RESIDENTIAL (NEC) |
| LAND USE | 102 | TOWNHOUSE/ROWHOUSE |
| LAND USE | 103 | APARTMENT/HOTEL |
| LAND USE | 106 | APARTMENT |
| LAND USE | 109 | CABIN |
| LAND USE | 111 | COOPERATIVE |
| LAND USE | 112 | CONDOMINIUM |
| LAND USE | 113 | CONDOMINIUM PROJECT |
| LAND USE | 114 | COMMON AREA |
| LAND USE | 115 | DUPLEX |
| LAND USE | 116 | MID RISE CONDO |
| LAND USE | 117 | HIGH RISE CONDO |
| LAND USE | 118 | FRAT/SORORITY HOUSE |
| LAND USE | 119 | RESIDENCE HALL/DORMITORIES |
| LAND USE | 127 | HOTEL |
| LAND USE | 130 | RESORT HOTEL |
| LAND USE | 131 | MULTI FAMILY 10 UNITS PLUS |
| LAND USE | 132 | MULTI FAMILY 10 UNITS LESS |
| LAND USE | 133 | MULTI FAMILY DWELLING |
| LAND USE | 134 | MIXED COMPLEX |
| LAND USE | 135 | MOBILE HOME LOT |
| LAND USE | 136 | MOBILE HOME PARK |
| LAND USE | 137 | MOBILE HOME |
| LAND USE | 138 | MANUFACTURED HOME |
| LAND USE | 142 | MOTEL |
| LAND USE | 148 | PUD |
| LAND USE | 151 | QUADRUPLEX |
| LAND USE | 155 | GROUP QUARTERS |
| LAND USE | 156 | ORPHANAGE |
| LAND USE | 157 | NURSING HOME |
| LAND USE | 160 | RURAL HOMESITE |
| LAND USE | 163 | SFR |
| LAND USE | 164 | TRANSIENT LODGING |
| LAND USE | 165 | TRIPLEX |
| LAND USE | 167 | TIME SHARE |
| LAND USE | 199 | TIME SHARE CONDO |
| LAND USE | 200 | COMMERCIAL (NEC) |
| LAND USE | 201 | AIR RIGHTS |
| LAND USE | 202 | MULTIPLE USES |
| LAND USE | 203 | AUTO EQUIPMENT |
| LAND USE | 204 | AUTO REPAIR |
| LAND USE | 205 | AUTO SALES |
| LAND USE | 206 | CONDOTEL |
| LAND USE | 207 | SALVAGE IMPRV |
| LAND USE | 208 | AUTO WRECKING |
| LAND USE | 209 | BUSINESS PARK |
| LAND USE | 210 | CARWASH |
| LAND USE | 211 | COMMERCIAL BUILDING |
| LAND USE | 212 | CEMETERY |
| LAND USE | 213 | COMMERCIAL CONDOMINIUM |
| LAND USE | 214 | CONVALESCENT HOSPITAL |
| LAND USE | 215 | CONVENTION CENTER |
| LAND USE | 217 | DEPARTMENT STORE |
| LAND USE | 218 | FACILITIES |
| LAND USE | 220 | STORE FRANCHISE |
| LAND USE | 221 | FAST FOOD FRANCHISE |
| LAND USE | 222 | FIN/INSURANCE/REAL ESTATE |
| LAND USE | 223 | FINANCIAL BUILDING |
| LAND USE | 225 | FUNERAL HOME |
| LAND USE | 226 | GARAGE |
| LAND USE | 229 | GREENHOUSE |
| LAND USE | 230 | HOSPITAL |
| LAND USE | 234 | KENNEL |
| LAND USE | 235 | ANIMAL HOSPITAL/VET |
| LAND USE | 236 | LOFT BUILDING |
| LAND USE | 237 | MEDICAL BUILDING |
| LAND USE | 238 | MEDICAL CONDO |
| LAND USE | 239 | LABORATORY |
| LAND USE | 240 | LAUNDROMAT |
| LAND USE | 242 | NIGHTCLUB |
| LAND USE | 243 | BAR |
| LAND USE | 244 | OFFICE BUILDING |
| LAND USE | 245 | OFFICE & RESIDENTIAL |
| LAND USE | 246 | OFFICE & SHOWROOM |
| LAND USE | 247 | OFFICE CONDO |
| LAND USE | 248 | CONVERTED RESIDENCE |
| LAND USE | 249 | MISC IMPROVEMENTS |
| LAND USE | 250 | PRE FABRICATED BLDG |
| LAND USE | 251 | MISC BUILDING |
| LAND USE | 252 | PARKING LOT |
| LAND USE | 255 | PARKING STRUCTURE |
| LAND USE | 257 | PRODUCE MARKET |
| LAND USE | 258 | PUBLIC STORAGE |
| LAND USE | 261 | RESTAURANT BUILDING |
| LAND USE | 262 | RESTAURANT DRIVE IN |
| LAND USE | 266 | SERVICE STATION |
| LAND USE | 268 | SERVICE STATION/MARKET |
| LAND USE | 269 | MISC COMMERCIAL SERVICES |
| LAND USE | 270 | SHOPPING CENTER |
| LAND USE | 273 | STRIP COMMERCIAL CENTER |
| LAND USE | 276 | APPAREL |
| LAND USE | 278 | STORE BUILDING |
| LAND USE | 279 | STORES & OFFICES |
| LAND USE | 281 | STORES & RESIDENTIAL |
| LAND USE | 282 | RETAIL TRADE |
| LAND USE | 283 | SUPERMARKET |
| LAND USE | 284 | FOOD STORES |
| LAND USE | 285 | TAVERN |
| LAND USE | 286 | WHOLESALE |
| LAND USE | 290 | LEASED LAND/BLDG |
| LAND USE | 300 | INDUSTRIAL (NEC) |
| LAND USE | 301 | COMMERCIAL/INDUSTRIAL |
| LAND USE | 302 | BREWERY |
| LAND USE | 303 | BULK PLANT |
| LAND USE | 304 | CANNERY |
| LAND USE | 308 | CHEMICAL |
| LAND USE | 309 | TEXTILE/CLOTHES/CARPET INDUST |
| LAND USE | 310 | PAPER & ALLIED INDUSTRY |
| LAND USE | 311 | DUMP SITE |
| LAND USE | 312 | DURABLE GOODS |
| LAND USE | 313 | NON DURABLE GOODS |
| LAND USE | 316 | FOOD PROCESSING |
| LAND USE | 318 | GRAIN ELEVATOR |
| LAND USE | 320 | HEAVY INDUSTRIAL |
| LAND USE | 321 | INDUSTRIAL CONDOMINIUM |
| LAND USE | 322 | INDUSTRIAL PARK |
| LAND USE | 323 | INDUSTRIAL PLANT |
| LAND USE | 324 | LIGHT INDUSTRIAL |
| LAND USE | 326 | LUMBER YARD |
| LAND USE | 328 | LUMBER MILL |
| LAND USE | 331 | METAL PRODUCT |
| LAND USE | 333 | MINERAL RIGHTS |
| LAND USE | 334 | MINERAL PROCESSING |
| LAND USE | 336 | MINI WAREHOUSE |
| LAND USE | 338 | MULTI TENANT INDUSTRIAL |
| LAND USE | 342 | PACKING |
| LAND USE | 344 | PETROLEUM |
| LAND USE | 349 | MINE/QUARRY |
| LAND USE | 352 | R&D FACILITY |
| LAND USE | 353 | TECHNOLOGICAL INDUSTRY |
| LAND USE | 354 | SHIPYARD |
| LAND USE | 356 | STOCKYARD |
| LAND USE | 358 | STORAGE |
| LAND USE | 361 | STORAGE TANKS |
| LAND USE | 364 | WAREHOUSE |
| LAND USE | 366 | WINERY |
| LAND USE | 400 | VACANT LAND (NEC) |
| LAND USE | 401 | MARSHLAND |
| LAND USE | 410 | BARREN LAND |
| LAND USE | 415 | COMMERCIAL ACREAGE |
| LAND USE | 420 | COMMERCIAL LOT |
| LAND USE | 421 | COMMON LAND |
| LAND USE | 425 | DESERT |
| LAND USE | 430 | AGRICULTURAL LAND |
| LAND USE | 435 | INDUSTRIAL ACREAGE |
| LAND USE | 440 | INDUSTRIAL LOT |
| LAND USE | 445 | MOUNTAINOUS LAND |
| LAND USE | 446 | NATURAL RESOURCES |
| LAND USE | 450 | MULTI FAMILY ACREAGE |
| LAND USE | 452 | MULTI FAMILY LOT |
| LAND USE | 453 | OPEN SPACE |
| LAND USE | 454 | VACANT MOBILE HOME |
| LAND USE | 455 | RECREATIONAL ACREAGE |
| LAND USE | 460 | RESIDENTIAL ACREAGE |
| LAND USE | 465 | RESIDENTIAL LOT |
| LAND USE | 480 | WASTE LAND |
| LAND USE | 481 | VACANT LMTD/NO DEV POTENTIAL |
| LAND USE | 490 | WILDLIFE REFUGE |
| LAND USE | 500 | AGRICULTURAL (NEC) |
| LAND USE | 501 | LIVESTOCK |
| LAND USE | 502 | NURSERY/HORTICULTURE |
| LAND USE | 505 | AGRICULTURAL PLANT |
| LAND USE | 509 | RANCH |
| LAND USE | 510 | ANIMAL FARM |
| LAND USE | 511 | FARMS |
| LAND USE | 512 | AVOCADO GROVE |
| LAND USE | 514 | CITRUS GROVE |
| LAND USE | 515 | DAIRY FARM |
| LAND USE | 520 | FALLOW LAND |
| LAND USE | 530 | FIELD & SEED |
| LAND USE | 533 | FISHERIES |
| LAND USE | 540 | FOREST |
| LAND USE | 542 | GREENBELT |
| LAND USE | 550 | ORCHARD |
| LAND USE | 560 | PASTURE |
| LAND USE | 562 | POULTRY RANCH |
| LAND USE | 570 | TRUCK CROPS |
| LAND USE | 575 | VINEYARD |
| LAND USE | 600 | PUBLIC (NEC) |
| LAND USE | 601 | TAX EXEMPT |
| LAND USE | 602 | STATE PROPERTY |
| LAND USE | 603 | COUNTY PROPERTY |
| LAND USE | 604 | MUNICIPAL PROPERTY |
| LAND USE | 605 | POLICE/FIRE/CIVIL DEFENSE |
| LAND USE | 606 | US POSTAL SERVICE |
| LAND USE | 607 | EMBASSIES/CHANCERIES |
| LAND USE | 609 | CORRECTIONAL FACILITY |
| LAND USE | 610 | COMMUNITY CENTER |
| LAND USE | 611 | HISTORICAL DISTRICT |
| LAND USE | 614 | FEDERAL PROPERTY |
| LAND USE | 615 | FEDERAL BUILDING |
| LAND USE | 618 | NATIVE AMERICAN PROPERTY |
| LAND USE | 620 | ART |
| LAND USE | 630 | MILITARY BUILDING |
| LAND USE | 640 | POSSESSORY INTEREST |
| LAND USE | 641 | TAX ABATEMENT |
| LAND USE | 642 | ENTERPRISE ZONE |
| LAND USE | 650 | SCHOOL |
| LAND USE | 652 | NURSERY SCHOOL |
| LAND USE | 654 | HIGH SCHOOL |
| LAND USE | 655 | PRIVATE SCHOOL |
| LAND USE | 656 | VOCATIONAL/TRADE SCHOOL |
| LAND USE | 660 | EDUCATIONAL SERVICE |
| LAND USE | 664 | SEC EDUCATIONAL SCHOOL |
| LAND USE | 665 | PUBLIC SCHOOL |
| LAND USE | 670 | PUBLIC SERVICE |
| LAND USE | 671 | CHARITABLE ORGANIZATION |
| LAND USE | 675 | RELIGIOUS |
| LAND USE | 680 | UNIVERSITY |
| LAND USE | 690 | NATURE FACILITY |
| LAND USE | 699 | ZOO |
| LAND USE | 700 | RECREATIONAL (NEC) |
| LAND USE | 701 | CASINO |
| LAND USE | 703 | AMPHITHEATRE |
| LAND USE | 706 | AMUSEMENT ARCADE |
| LAND USE | 709 | AMUSEMENT PARK |
| LAND USE | 712 | AUDITORIUM |
| LAND USE | 721 | BOWLING ALLEY |
| LAND USE | 724 | BILLIARD HALL |
| LAND USE | 725 | CLUB |
| LAND USE | 727 | COUNTRY CLUB |
| LAND USE | 728 | HEALTH CLUB |
| LAND USE | 733 | DANCE HALL |
| LAND USE | 742 | GOLF COURSE |
| LAND USE | 745 | GOLF RANGE |
| LAND USE | 750 | GYMNASIUM |
| LAND USE | 754 | LAKE/RIVER/BEACH |
| LAND USE | 755 | MARINA FACILITY |
| LAND USE | 757 | PARK |
| LAND USE | 766 | RACE TRACK |
| LAND USE | 769 | RACQUET COURT |
| LAND USE | 770 | TENNIS CLUB |
| LAND USE | 775 | RV PARK |
| LAND USE | 780 | SKATING RINK |
| LAND USE | 784 | STADIUM |
| LAND USE | 787 | STABLE |
| LAND USE | 790 | SWIMMING POOL |
| LAND USE | 795 | DRIVE IN THEATER |
| LAND USE | 796 | THEATER |
| LAND USE | 797 | TOURIST ATTRACTION/EXHIBITS |
| LAND USE | 798 | LIBRARY/MUSEUM |
| LAND USE | 800 | TRANSPORT (NEC) |
| LAND USE | 801 | COMMUNICATION FACILITY |
| LAND USE | 806 | AIRCRAFT FACILITY |
| LAND USE | 808 | AIRPORT |
| LAND USE | 818 | ELECTRICAL FACILITY |
| LAND USE | 830 | GAS PRODUCTION |
| LAND USE | 839 | MARINE FACILITY |
| LAND USE | 850 | PORT/HARBOR |
| LAND USE | 860 | RAILROAD FACILITY |
| LAND USE | 863 | RECORDING STUDIO |
| LAND USE | 864 | RADIO FACILITY |
| LAND USE | 867 | EASEMENT |
| LAND USE | 872 | TELEPHONE FACILITY |
| LAND USE | 875 | TV FACILITY |
| LAND USE | 877 | TRANSPORT FACILITY |
| LAND USE | 879 | TRUCK TERMINAL |
| LAND USE | 880 | UTILITIES |
| LAND USE | 883 | WASTE DISPOSAL |
| LAND USE | 885 | WELL/WATER |
| LAND USE | 886 | WELL/GAS/OIL |
| LAND USE | 998 | REAL PROPERTY (NEC) |
| LAND USE | 999 | MISCELLANEOUS |
| MORTGAGE DOCUMENT TYPE | 2 | TRUST |
| MORTGAGE DOCUMENT TYPE | A | ASSIGNMENT DEED |
| MORTGAGE DOCUMENT TYPE | AA | ASSIGNMENT AND AGREEMENT OF SALE |
| MORTGAGE DOCUMENT TYPE | AD | ADMINISTRATOR'S DEED |
| MORTGAGE DOCUMENT TYPE | AF | AFFIDAVIT/AFFIDAVIT OF DEATH |
| MORTGAGE DOCUMENT TYPE | AG | AGREEMENT OF SALE |
| MORTGAGE DOCUMENT TYPE | AI | ALL INCLUSIVE DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | AJ | ADMINISTRATOR JOINT TENANCY |
| MORTGAGE DOCUMENT TYPE | AL | ASSIGNMENT/ASSUMPTION OF LEASE/SUBLS |
| MORTGAGE DOCUMENT TYPE | AM | AMENDED MECHANIC LIENS |
| MORTGAGE DOCUMENT TYPE | AN | ASSIGNMENT DEED |
| MORTGAGE DOCUMENT TYPE | AP | ASSUMPTION |
| MORTGAGE DOCUMENT TYPE | AS | ASSIGNMENT OF MORTGAGE / DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | AU | AUCTION |
| MORTGAGE DOCUMENT TYPE | B | BARGAIN & SALE DEED |
| MORTGAGE DOCUMENT TYPE | BA | BARGAIN & SALE DEED |
| MORTGAGE DOCUMENT TYPE | BS | BARGAIN & SALE DEED |
| MORTGAGE DOCUMENT TYPE | C | CONSTRUCTION DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | CA | COUNTY DEED |
| MORTGAGE DOCUMENT TYPE | CD | CORRECTION DEED |
| MORTGAGE DOCUMENT TYPE | CL | CONSTRUCTION DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | CM | COMMISSIONER'S DEED |
| MORTGAGE DOCUMENT TYPE | CN | CONDOMINIUM DEED |
| MORTGAGE DOCUMENT TYPE | CO | COMMISSIONER'S DEED (FORECLOSURE) |
| MORTGAGE DOCUMENT TYPE | CP | CERTIFICATE OF PURCHASE |
| MORTGAGE DOCUMENT TYPE | CQ | CORPORATION QUIT CLAIM DEED |
| MORTGAGE DOCUMENT TYPE | CR | CORPORATE DEED |
| MORTGAGE DOCUMENT TYPE | CS | CONTRACT OF SALE |
| MORTGAGE DOCUMENT TYPE | CT | COMMITTEE DEED |
| MORTGAGE DOCUMENT TYPE | CV | CONVEYANCE DEED |
| MORTGAGE DOCUMENT TYPE | D | NOMINAL |
| MORTGAGE DOCUMENT TYPE | DA | DEED OF ASSUMPTION |
| MORTGAGE DOCUMENT TYPE | DC | CONVEYANCE DEED |
| MORTGAGE DOCUMENT TYPE | DD | DEED |
| MORTGAGE DOCUMENT TYPE | DD | SECURITY DEED (TRANSFER) |
| MORTGAGE DOCUMENT TYPE | DE | DEED OF EXCHANGE |
| MORTGAGE DOCUMENT TYPE | DI | DEED OF DISTRIBUTION |
| MORTGAGE DOCUMENT TYPE | DL | DEED IN LIEU OF FORECLOSURE |
| MORTGAGE DOCUMENT TYPE | DP | DOWN PAYMENT ASSISTANCE LOAN (SC) |
| MORTGAGE DOCUMENT TYPE | DR | CA RECONVEYANCE |
| MORTGAGE DOCUMENT TYPE | DR | CERTIFICATE OF SATISFACTION |
| MORTGAGE DOCUMENT TYPE | DR | CORPORATION SATISFACTION OF MORTGAGE FULL RELEASE |
| MORTGAGE DOCUMENT TYPE | DR | DEED OF FULL RELEASE |
| MORTGAGE DOCUMENT TYPE | DR | DEED OF RECONVEYANCE |
| MORTGAGE DOCUMENT TYPE | DR | DEED OF RELEASE |
| MORTGAGE DOCUMENT TYPE | DR | DISCHARGE OF MORTGAGE |
| MORTGAGE DOCUMENT TYPE | DR | FULL RECONVEYANCE |
| MORTGAGE DOCUMENT TYPE | DR | MORTGAGE RELEASE |
| MORTGAGE DOCUMENT TYPE | DR | MORTGAGE RELEASE, SATISFACTION AND DISCHARGE |
| MORTGAGE DOCUMENT TYPE | DR | REAL ESTATE MORTGAGE RELEASE |
| MORTGAGE DOCUMENT TYPE | DR | RECONVEYANCE |
| MORTGAGE DOCUMENT TYPE | DR | RECONVEYANCE DEED |
| MORTGAGE DOCUMENT TYPE | DR | RELEASE OF DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | DR | RELEASE OF MORTGAGE |
| MORTGAGE DOCUMENT TYPE | DR | RELEASE OF OBLIGATION |
| MORTGAGE DOCUMENT TYPE | DR | SATISFACTION OF MORTGAGE |
| MORTGAGE DOCUMENT TYPE | DR | SHORT FORM DISCHARGE OF MTG/DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | DR | SUBSTITUTION OF TRUSTEE AND DEED OF RECONVEYANCE |
| MORTGAGE DOCUMENT TYPE | DR | SUBSTITUTION OF TRUSTEE AND FULL RECONVEYANCE |
| MORTGAGE DOCUMENT TYPE | DR | SUBSTITUTION OF TRUSTEE WITH FULL RECONVEYANCE |
| MORTGAGE DOCUMENT TYPE | E | EXEMPTION DEED |
| MORTGAGE DOCUMENT TYPE | EJ | EXECUTOR JOINT TENANT |
| MORTGAGE DOCUMENT TYPE | EQ | EQUITY OR CREDIT LINE |
| MORTGAGE DOCUMENT TYPE | EX | EXECUTORS DEED |
| MORTGAGE DOCUMENT TYPE | F | TRUSTEE DEED |
| MORTGAGE DOCUMENT TYPE | FD | FORECLOSURE DEED |
| MORTGAGE DOCUMENT TYPE | FI | FIDUCIARY DEED |
| MORTGAGE DOCUMENT TYPE | FJ | FINAL JUDGMENT |
| MORTGAGE DOCUMENT TYPE | FR | FORFEITURE DEED |
| MORTGAGE DOCUMENT TYPE | FS | FEE SIMPLE DEED |
| MORTGAGE DOCUMENT TYPE | G | GRANT DEED |
| MORTGAGE DOCUMENT TYPE | GD | GRANT DEED |
| MORTGAGE DOCUMENT TYPE | GF | GIFT DEED |
| MORTGAGE DOCUMENT TYPE | GJ | GUARDIAN JOINT TENANT |
| MORTGAGE DOCUMENT TYPE | GU | GUARDIAN DEED |
| MORTGAGE DOCUMENT TYPE | GW | GENERAL WARRANTY DEED |
| MORTGAGE DOCUMENT TYPE | HR | RELEASE OF HOMEOWNERS ASSOCIATION LIEN (HOA) |
| MORTGAGE DOCUMENT TYPE | HR | SATISFACTION AND RELEASE OF LIEN (HOA) |
| MORTGAGE DOCUMENT TYPE | HX | CERTIFICATE OF LIEN (HOA) |
| MORTGAGE DOCUMENT TYPE | HX | HOMEOWNERS LIEN STATEMENT (HOA) |
| MORTGAGE DOCUMENT TYPE | HX | LIEN CLAIM AFFIDAVIT (HOA) |
| MORTGAGE DOCUMENT TYPE | HX | NOTICE OF ASSESSMENT AND CLAIM OF LIEN (HOA) |
| MORTGAGE DOCUMENT TYPE | HX | NOTICE OF LIEN (HOA) |
| MORTGAGE DOCUMENT TYPE | HX | STATEMENT OF LIEN (HOA) |
| MORTGAGE DOCUMENT TYPE | I | ALL INCLUSIVE DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | IC | INTERCOMPANY DEED TRANSFER |
| MORTGAGE DOCUMENT TYPE | ID | INTERFAMILY DEED |
| MORTGAGE DOCUMENT TYPE | IF | INTERFAMILY DEED TRANSFER |
| MORTGAGE DOCUMENT TYPE | IM | INDEMNITY DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | IN | INSTITUTIONAL DEED |
| MORTGAGE DOCUMENT TYPE | IS | INTERSPOUSAL DEED TRANSFER |
| MORTGAGE DOCUMENT TYPE | IT | INTERSPOUSAL DEED TRANSFER |
| MORTGAGE DOCUMENT TYPE | IV | INDIVIDUAL GRANT DEED |
| MORTGAGE DOCUMENT TYPE | JD | JOINT TENANCY DEED |
| MORTGAGE DOCUMENT TYPE | JT | JOINT TENANCY DEED |
| MORTGAGE DOCUMENT TYPE | LA | LEASE AGREEMENT |
| MORTGAGE DOCUMENT TYPE | LH | LEASEHOLD DEED |
| MORTGAGE DOCUMENT TYPE | LM | LIMITED WARRANTY DEED |
| MORTGAGE DOCUMENT TYPE | LP | LIS PENDENS |
| MORTGAGE DOCUMENT TYPE | M | MORTGAGE |
| MORTGAGE DOCUMENT TYPE | MA | MARSHALLS DEED |
| MORTGAGE DOCUMENT TYPE | MD | MASTERS DEED (SC) |
| MORTGAGE DOCUMENT TYPE | MF | MORTGAGE FORECLOSURE DEED |
| MORTGAGE DOCUMENT TYPE | MG | MORTGAGE |
| MORTGAGE DOCUMENT TYPE | MG | REVERSE DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | MG | REVERSE MORTGAGE |
| MORTGAGE DOCUMENT TYPE | ML | MECHANIC'S LIEN CONTRACT |
| MORTGAGE DOCUMENT TYPE | MO | LOAN MODIFICATION AGREEMENT |
| MORTGAGE DOCUMENT TYPE | MO | MODIFICATION AGREEMENT |
| MORTGAGE DOCUMENT TYPE | MO | MODIFICATION OF DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | MO | MODIFICATION OF HOME EQUITY LINE OF CREDIT |
| MORTGAGE DOCUMENT TYPE | MO | MODIFICATION OF MORTGAGE |
| MORTGAGE DOCUMENT TYPE | MO | MORTGAGE MODIFICATION AGREEMENT |
| MORTGAGE DOCUMENT TYPE | MR | MECHANICS LIEN RELEASE |
| MORTGAGE DOCUMENT TYPE | MS | MORTGAGE SUBORDINATION AGREEMENTS |
| MORTGAGE DOCUMENT TYPE | MX | MECHANICS LIEN |
| MORTGAGE DOCUMENT TYPE | MX | MECHANICS LIEN CONTRACT (STAND ALONE DOC) |
| MORTGAGE DOCUMENT TYPE | N | NOTICE OF DEFAULT |
| MORTGAGE DOCUMENT TYPE | ND | NOTICE OF DEFAULT |
| MORTGAGE DOCUMENT TYPE | NF | NOTICE OF FORECLOSURE |
| MORTGAGE DOCUMENT TYPE | NS | NOTICE OF SHERIFF'S SALE |
| MORTGAGE DOCUMENT TYPE | NT | NOTICE OF TRUSTEE'S SALE |
| MORTGAGE DOCUMENT TYPE | OT | MISCELLANEOUS DOCUMENT |
| MORTGAGE DOCUMENT TYPE | PA | PUBLIC AUCTION DEED |
| MORTGAGE DOCUMENT TYPE | PB | PROBATE COURT DEED |
| MORTGAGE DOCUMENT TYPE | PD | PARTNERSHIP GRANT DEED |
| MORTGAGE DOCUMENT TYPE | PJ | PERSONAL REP JOINT TENANT |
| MORTGAGE DOCUMENT TYPE | PN | PATENT (LAND) |
| MORTGAGE DOCUMENT TYPE | PO | PAY OFF DEED |
| MORTGAGE DOCUMENT TYPE | PR | PERSONAL REP'S DEED |
| MORTGAGE DOCUMENT TYPE | PT | PUBLIC TRUSTEES DEED |
| MORTGAGE DOCUMENT TYPE | PV | PRIVATE SALE |
| MORTGAGE DOCUMENT TYPE | Q | QUIT CLAIM DEED |
| MORTGAGE DOCUMENT TYPE | QC | QUIT CLAIM DEED |
| MORTGAGE DOCUMENT TYPE | QD | QUIT CLAIM DEED |
| MORTGAGE DOCUMENT TYPE | QJ | JOINT TENANCY QUIT CLAIM DEED |
| MORTGAGE DOCUMENT TYPE | RC | RECEIVER'S DEED |
| MORTGAGE DOCUMENT TYPE | RD | RE-RECORDED DEED |
| MORTGAGE DOCUMENT TYPE | RE | CERTIFICATE OF REDEMPTION BY SHERRIFF |
| MORTGAGE DOCUMENT TYPE | RE | CERTIFICATE OF REDEMPTION |
| MORTGAGE DOCUMENT TYPE | RE | SHERIFF'S CERTIFICATE OF REDEMPTION |
| MORTGAGE DOCUMENT TYPE | RF | REFEREES DEED |
| MORTGAGE DOCUMENT TYPE | RL | RELEASE OF FORECLOSURE |
| MORTGAGE DOCUMENT TYPE | RL | RELEASE OF LIEN |
| MORTGAGE DOCUMENT TYPE | RL | RELEASE OF LIS PENDENS |
| MORTGAGE DOCUMENT TYPE | RL | RESCISSION OF FULL RECONVEYANCE |
| MORTGAGE DOCUMENT TYPE | RL | VOLUNTARY DISMISSAL |
| MORTGAGE DOCUMENT TYPE | RV | REVOLVING LINE OF CREDIT |
| MORTGAGE DOCUMENT TYPE | S | ASSIGNMENT OF DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | SA | STATE DEED |
| MORTGAGE DOCUMENT TYPE | SC | CERTIFICATE OF SALE-SHERIFF/MARSHALL |
| MORTGAGE DOCUMENT TYPE | SC | SHERIFF'S CERTIFICATE AND FORECLOSURE RECORD |
| MORTGAGE DOCUMENT TYPE | SC | SHERIFF'S CERTIFICATE OF FORECLOSURE SALE |
| MORTGAGE DOCUMENT TYPE | SD | SHERIFF'S DEED |
| MORTGAGE DOCUMENT TYPE | SE | SECURITY DEED/SECURITY DEED OF TRUST (MTG. IN GA) |
| MORTGAGE DOCUMENT TYPE | SJ | SPECIAL WARRANTY DEED/JOINT TENANT |
| MORTGAGE DOCUMENT TYPE | SL | SUB LEASE |
| MORTGAGE DOCUMENT TYPE | SO | SELLING OFFICER'S DEED (IL) |
| MORTGAGE DOCUMENT TYPE | SR | STRAW DEED |
| MORTGAGE DOCUMENT TYPE | SS | SHERIFF'S SALE |
| MORTGAGE DOCUMENT TYPE | ST | SETTLEMENT DEED |
| MORTGAGE DOCUMENT TYPE | SU | JOINT SURVIVORSHIP/RIGHT OF |
| MORTGAGE DOCUMENT TYPE | SW | SPECIAL WARRANTY DEED |
| MORTGAGE DOCUMENT TYPE | T | DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | TA | TRUST AGREEMENT |
| MORTGAGE DOCUMENT TYPE | TC | CERTIFICATE OF TITLE (FL) |
| MORTGAGE DOCUMENT TYPE | TD | SUBSTITUTE TRUSTEE'S DEED |
| MORTGAGE DOCUMENT TYPE | TD | TRUSTEE DEED |
| MORTGAGE DOCUMENT TYPE | TE | TRUSTEE'S DEED UPON SALE (FORECLOSURE) |
| MORTGAGE DOCUMENT TYPE | TJ | TRUSTEE'S JOINT TENANT |
| MORTGAGE DOCUMENT TYPE | TL | LEASEHOLD DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | TR | DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | TR | TRUST |
| MORTGAGE DOCUMENT TYPE | TT | TORRENS DOCUMENT |
| MORTGAGE DOCUMENT TYPE | TU | TRUST TRANSFER DEED |
| MORTGAGE DOCUMENT TYPE | TU | TRUSTEE'S DEED (TRANSFER) |
| MORTGAGE DOCUMENT TYPE | TX | TAX DEED |
| MORTGAGE DOCUMENT TYPE | U | FORECLOSURE DEED |
| MORTGAGE DOCUMENT TYPE | UD | UNIT DEED |
| MORTGAGE DOCUMENT TYPE | V | DEED |
| MORTGAGE DOCUMENT TYPE | W | WARRANTY DEED |
| MORTGAGE DOCUMENT TYPE | WD | GENERAL WARRANTY DEED |
| MORTGAGE DOCUMENT TYPE | WD | WARRANTY DEED |
| MORTGAGE DOCUMENT TYPE | WJ | WARRANTY DEED JOINT TENANT |
| MORTGAGE DOCUMENT TYPE | X | MULTI-COUNTY/MULTI-STATE |
| MORTGAGE DOCUMENT TYPE | XD | EXCHANGE DEED |
| MORTGAGE DOCUMENT TYPE | XL | CANCELLATION OF LEASE IN HI |
| MORTGAGE DOCUMENT TYPE | XM | PARTIAL RELEASE OF MORTGAGE/DEED OF TRUST |
| MORTGAGE DOCUMENT TYPE | XP | EXEMPTION DEED |
| MORTGAGE DOCUMENT TYPE | XX | PARTIAL RELEASE OF MECHANIC’S LIEN |
| MORTGAGE INTEREST RATE TYPE | ADJ | ADJUSTABLE |
| MORTGAGE INTEREST RATE TYPE | BAL | BALLOON |
| MORTGAGE INTEREST RATE TYPE | CDA | COMMUNITY DEVL AUTH |
| MORTGAGE INTEREST RATE TYPE | CNV | CONV |
| MORTGAGE INTEREST RATE TYPE | FHA | FHA |
| MORTGAGE INTEREST RATE TYPE | FIX | FIXED |
| MORTGAGE INTEREST RATE TYPE | LHM | LEASEHOLD |
| MORTGAGE INTEREST RATE TYPE | PMM | PUR MONEY MTG |
| MORTGAGE INTEREST RATE TYPE | PP | PRIVATE PARTY |
| MORTGAGE INTEREST RATE TYPE | SBA | SMALL BUSINESS |
| MORTGAGE INTEREST RATE TYPE | VA | VA |
| MORTGAGE INTEREST RATE TYPE | VAR | VARIABLE RATE LOAN |
| MORTGAGE INTEREST RATE TYPE | WRP | WRP-ARND |
| MORTGAGE LOAN TYPE CODE | CDA | COMMUNITY DEVELOPMENT AUTHORITY |
| MORTGAGE LOAN TYPE CODE | CNV | CONVENTIONAL |
| MORTGAGE LOAN TYPE CODE | FHA | FEDERAL HOUSING AUTHORITY |
| MORTGAGE LOAN TYPE CODE | FMH | FARMERS HOME ADMINISTRATION |
| MORTGAGE LOAN TYPE CODE | LHM | LEASE HOLD MORTGAGE |
| MORTGAGE LOAN TYPE CODE | PP | PRIVATE PARTY LENDER |
| MORTGAGE LOAN TYPE CODE | SBA | SMALL BUSINESS ADMINISTRATION |
| MORTGAGE LOAN TYPE CODE | VA | VETERIANS ADMINISTRATION |
| MORTGAGE LOAN TYPE CODE | WRP | WRAP-AROUND MORTGAGE |
| MORTGAGE TERM CODE | D | DAYS |
| MORTGAGE TERM CODE | M | MONTHS |
| MORTGAGE TERM CODE | Y | YEARS |
| OWNER ETAL INDICATOR | A | ET AL - AND OTHERS |
| OWNER ETAL INDICATOR | C | ET CON - AND HUSBAND |
| OWNER ETAL INDICATOR | U | ET UX - AND WIFE |
| OWNER ETAL INDICATOR | V | ET VIR - AND HUSBAND |
| OWNER RELATIONSHIP TYPE | BS | BROTHER/SISTER |
| OWNER RELATIONSHIP TYPE | DC | DECEASED |
| OWNER RELATIONSHIP TYPE | DV | DIVORCED |
| OWNER RELATIONSHIP TYPE | HW | HUSBAND/WIFE |
| OWNER RELATIONSHIP TYPE | MA | MARRIED |
| OWNER RELATIONSHIP TYPE | MM | MARRIED MAN |
| OWNER RELATIONSHIP TYPE | MW | MARRIED WOMAN |
| OWNER RELATIONSHIP TYPE | SI | SINGLE |
| OWNER RELATIONSHIP TYPE | SM | SINGLE MAN |
| OWNER RELATIONSHIP TYPE | SW | SINGLE WOMAN |
| OWNER RELATIONSHIP TYPE | UM | UNMARRIED MAN |
| OWNER RELATIONSHIP TYPE | UN | UNMARRIED |
| OWNER RELATIONSHIP TYPE | UW | UNMARRIED WOMAN |
| OWNER RELATIONSHIP TYPE | WD | WIDOW |
| OWNER RELATIONSHIP TYPE | WR | WIDOWER |
| OWNERSHIP RIGHTS CODE | 99 | HEIRS |
| OWNERSHIP RIGHTS CODE | AD | ADMINISTRATOR |
| OWNERSHIP RIGHTS CODE | AS | ASSOCIATION |
| OWNERSHIP RIGHTS CODE | BS | BROTHER/SISTER |
| OWNERSHIP RIGHTS CODE | CE | TRUSTEE (CORPORATION) |
| OWNERSHIP RIGHTS CODE | CF | CURRENT PURCHASE |
| OWNERSHIP RIGHTS CODE | CO | COMPANY / CORPORATION |
| OWNERSHIP RIGHTS CODE | CP | COMMUNITY PROPERTY |
| OWNERSHIP RIGHTS CODE | CT | CORPORATE TRUST |
| OWNERSHIP RIGHTS CODE | DC | DECEASED |
| OWNERSHIP RIGHTS CODE | DV | DIVORCED |
| OWNERSHIP RIGHTS CODE | EA | ET AL - AND OTHERS |
| OWNERSHIP RIGHTS CODE | EC | ET CON - AND HUSBAND |
| OWNERSHIP RIGHTS CODE | ES | ESTATE |
| OWNERSHIP RIGHTS CODE | EU | ET UX - AND WIFE |
| OWNERSHIP RIGHTS CODE | EV | ET VIR - AND HUSBAND |
| OWNERSHIP RIGHTS CODE | EX | EXECUTOR/EXECUTRIX |
| OWNERSHIP RIGHTS CODE | GD | GUARDIAN |
| OWNERSHIP RIGHTS CODE | HW | HUSBAND/WIFE |
| OWNERSHIP RIGHTS CODE | IT | IRREVOCABLE TRUST |
| OWNERSHIP RIGHTS CODE | JT | JOINT TENANTS |
| OWNERSHIP RIGHTS CODE | JV | JOINT VENTURE |
| OWNERSHIP RIGHTS CODE | LB | LIFETIME BENEFIT |
| OWNERSHIP RIGHTS CODE | LE | LIFE ESTATE |
| OWNERSHIP RIGHTS CODE | LF | LEASE FORM |
| OWNERSHIP RIGHTS CODE | LP | LIMITED PARTNERSHIP |
| OWNERSHIP RIGHTS CODE | LT | LIVING TRUST |
| OWNERSHIP RIGHTS CODE | MA | MARRIED |
| OWNERSHIP RIGHTS CODE | MM | MARRIED MAN |
| OWNERSHIP RIGHTS CODE | MW | MARRIED WOMAN |
| OWNERSHIP RIGHTS CODE | NT | NON-DECLARED TRUST |
| OWNERSHIP RIGHTS CODE | PR | PERSONAL REPRESENTATIVE |
| OWNERSHIP RIGHTS CODE | PS | PARTNERSHIP |
| OWNERSHIP RIGHTS CODE | PT | PERSONAL TRUST |
| OWNERSHIP RIGHTS CODE | RM | REMAINDER |
| OWNERSHIP RIGHTS CODE | RM | REMAINDERMAN |
| OWNERSHIP RIGHTS CODE | RS | RIGHT OF SUBDIVISION |
| OWNERSHIP RIGHTS CODE | RS | RIGHT OF SURVIVORSHIP |
| OWNERSHIP RIGHTS CODE | RT | REVOCABLE TRUST |
| OWNERSHIP RIGHTS CODE | SE | SEPARATE PROPERTY |
| OWNERSHIP RIGHTS CODE | SG | SINGLE |
| OWNERSHIP RIGHTS CODE | SI | SINGLE |
| OWNERSHIP RIGHTS CODE | SM | SINGLE MAN |
| OWNERSHIP RIGHTS CODE | SO | SOLE OWNER |
| OWNERSHIP RIGHTS CODE | SP | SEPARATE ESTATE/PROPERTY |
| OWNERSHIP RIGHTS CODE | SU | SURVIVOR |
| OWNERSHIP RIGHTS CODE | SW | SINGLE WOMAN |
| OWNERSHIP RIGHTS CODE | TC | TENANTS IN COMMON |
| OWNERSHIP RIGHTS CODE | TE | TRUSTEE |
| OWNERSHIP RIGHTS CODE | TR | TRUST |
| OWNERSHIP RIGHTS CODE | TY | TENANTS BY ENTIRITY |
| OWNERSHIP RIGHTS CODE | UI | UNDIVIDED INTEREST / UNDIVIDED INDIVIDUAL |
| OWNERSHIP RIGHTS CODE | UI | UNMARRIED INDIVIDUAL |
| OWNERSHIP RIGHTS CODE | UM | UNMARRIED MAN |
| OWNERSHIP RIGHTS CODE | UN | UNMARRIED |
| OWNERSHIP RIGHTS CODE | UW | UNMARRIED WOMAN |
| OWNERSHIP RIGHTS CODE | WD | WIDOW |
| OWNERSHIP RIGHTS CODE | WF | WIFE |
| OWNERSHIP RIGHTS CODE | WR | WIDOWER |
| OWNERSHIP RIGHTS CODE | XX | WHOLLY EXEMPT |
| PARTIAL INTEREST INDICATOR | Y | YES |
| PRI-CAT-CODE | A | Arms Length Transaction |
| PRI-CAT-CODE | B | Non Arms Length - Purchase |
| PRI-CAT-CODE | C | Non Arms Length - Non Purchase |
| PRI-CAT-CODE | D | Non Purchase |
| PRI-CAT-CODE | E | Timeshare |
| PRI-CAT-CODE | F | Notice of Default/Foreclosure |
| PRI-CAT-CODE | G | Assignment |
| PRI-CAT-CODE | H | Release of Mortgage/Deed of Trust |
| PRIVATE PARTY LENDER | I | YES |
| PROPERTY INDICATOR | 10 | Single Family Residence / Townhouse |
| PROPERTY INDICATOR | 11 | Condominium (residential) |
| PROPERTY INDICATOR | 20 | Commercial |
| PROPERTY INDICATOR | 21 | Duplex, Triplex, Quadplex) |
| PROPERTY INDICATOR | 22 | Apartment |
| PROPERTY INDICATOR | 23 | Hotel, Motel |
| PROPERTY INDICATOR | 24 | Commercial (condominium) |
| PROPERTY INDICATOR | 25 | Retail |
| PROPERTY INDICATOR | 26 | Service (general public) |
| PROPERTY INDICATOR | 27 | Office Building |
| PROPERTY INDICATOR | 28 | Warehouse |
| PROPERTY INDICATOR | 29 | Financial Institution |
| PROPERTY INDICATOR | 30 | Hospital (medical complex, clinic) |
| PROPERTY INDICATOR | 31 | Parking |
| PROPERTY INDICATOR | 32 | Amusement-Recreation |
| PROPERTY INDICATOR | 50 | Industrial |
| PROPERTY INDICATOR | 51 | Industrial Light |
| PROPERTY INDICATOR | 52 | Industrial Heavy |
| PROPERTY INDICATOR | 53 | Transport |
| PROPERTY INDICATOR | 54 | Utilities |
| PROPERTY INDICATOR | 70 | Agricultural |
| PROPERTY INDICATOR | 80 | Vacant |
| PROPERTY INDICATOR | 90 | Exempt |
| PROPERTY INDICATOR | 00 | Miscellaneous |
| REFI FLAG | T | LOAN TO VALUE IS MORE THAN 50% |
| REFI FLAG | U | LOAN TO VALUE IS LESS THAN 50% |
| RESALE / NEW CONSTRUCTION | M | RESALE |
| RESALE / NEW CONSTRUCTION | N | NEW CONSTRUCTION |
| RESIDENTIAL MODEL INDICATOR | N | BASED ON ZIP CODE AND VALUE PROPERTY IS NOT RESIDENTIAL |
| RESIDENTIAL MODEL INDICATOR | Y | BASED ON ZIP CODE AND VALUE PROPERTY IS RESIDENTIAL |
| SALE CODE | C | CONFIRMED |
| SALE CODE | E | ESTIMATED |
| SALE CODE | F | SALE PRICE (FULL) |
| SALE CODE | L | LESS LIENS AND ENCUMBRANCES |
| SALE CODE | P | SALE PRICE (PARTIAL) |
| SALE CODE | R | LEASE |
| SALE CODE | U | UNKNOWN |
| SALE CODE | V | VERIFIED |
| SECONDARY CAT CODES | A | MTG - Seller Carried Loan |
| SECONDARY CAT CODES | B | MTG - Conforming |
| SECONDARY CAT CODES | C | MTG - Non Conforming |
| SECONDARY CAT CODES | D | DEED - Interfamily Transfer |
| SECONDARY CAT CODES | E | MTG - FHA |
| SECONDARY CAT CODES | F | MTG - VA |
| SECONDARY CAT CODES | G | MTG - CNV |
| SECONDARY CAT CODES | H | MTG - SBA |
| SECONDARY CAT CODES | I | MTG - Private Party |
| SECONDARY CAT CODES | J | MTG - Fixed |
| SECONDARY CAT CODES | K | MTG - Adjustable |
| SECONDARY CAT CODES | L | MTG - Construction Loan |
| SECONDARY CAT CODES | M | DEED - Resale |
| SECONDARY CAT CODES | N | DEED - New Structure Sale |
| SECONDARY CAT CODES | O | DEED - REO Transfer |
| SECONDARY CAT CODES | P | DEED - REO Sale |
| SECONDARY CAT CODES | Q | DEED - Cash Purchase |
| SECONDARY CAT CODES | R | DEED - Mortgaged Purchase |
| SECONDARY CAT CODES | S | MTG - Equity (Closed or revolving) |
| SECONDARY CAT CODES | T | MTG - Refinance |
| SECONDARY CAT CODES | U | MTG - Other Subordinate Loans |
| SECONDARY CAT CODES | V | BOTH - Residential (Modeled) |
| SECONDARY CAT CODES | W | DEED - Short Sale |
| SECONDARY CAT CODES | X | Investor Purcahse |
| SELLER CARRYBACK | A | YES |
| TRANSACTION TYPE | 1 | RESALE Arms Length Transaction - Sold at Market Value |
| TRANSACTION TYPE | 2 | REFINANCE Stan Alone Mortgage |
| TRANSACTION TYPE | 3 | SUBDIVISION/NEW CONSTRUCTION Based on the seller name - if the name is a builder and the seller is a private individual |
| TRANSACTION TYPE | 4 | TIMESHARE For a time slot, not a timeshare building |
| TRANSACTION TYPE | 6 | CONSTRUCTION LOAN Short loan terms |
| TRANSACTION TYPE | 7 | SELLER CARRYBACK |
| TRANSACTION TYPE | 9 | NOMINAL |

SALE\_PRICE – created from SALE PRICE above, and converted to constant 2010 dollars, with leads and lags

sale\_price\_fire\_lead1 – created 2/28/20 in notes\_fire\_capitalization.docx, it’s the price of houses sold one year after a fire tax levy; also has leads and lags 5 years away from levy and timet counterpart for whether house was sold in the year of the tax levy; it’s the multiplication of SALE\_PRICE and saledummy\_fire\_lead1 so it has a lot of missing values for times when that house is not five years after a fire tax levy; will have to make sale prices relevant to other types of tax levies, too, and Olivier has Matlab code that does it; this is part of the hsg\_twp\_votes\_property\_new.dta data set

agehouse – age of house in years, zero for newly built, created from year – YEAR\_BUILT, but YEAR\_BUILT has a lot of missing values, so I might decide to impute YEAR\_BUILT and create agehouse as a ‘passive’ variable in Stata

ac – dummy variable = 1 if house has central air conditioning, heat pump air conditioning, or package air conditioning, zero otherwise

finbase – dummy variable = 1 if house has finished basement, either full, completely finished, finished, finished with plaster, finished with panel, or partially finished, 0 otherwise

basement – dummy variable = 1 if house has basement, either cellar, finished, partial, full, slab, unfinished, or walk-out, 0 otherwise

cond\_exc – dummy variable = 1 if house condition is excellent, 0 otherwise; percent by city\_year for lags 1 and 3 and leads 1-5 created 5/24/18 in firelevies project

pct\_cond\_exc – percent of houses that sold in a city\_year that are in excellent condition; created 5/24/18 in firelevies project with leads and lags

cond\_vgood - dummy variable = 1 if house condition is very good, 0 otherwise

pct\_cond\_vgood – percent of houses that sold in a city\_year that are in very good condition; created 5/24/18 in firelevies project with leads and lags

cond\_good - dummy variable = 1 if house condition is good, 0 otherwise

pct\_cond\_good – percent of houses that sold in a city\_year that are in good condition; created 5/24/18 in firelevies project with leads and lags

cond\_fair - dummy variable = 1 if house condition is fair, 0 otherwise

pct\_cond\_fair – percent of houses that sold in a city\_year that are in fair condition; created 5/24/18 in firelevies project with leads and lags

cond\_poor - dummy variable = 1 if house condition is poor, 0 otherwise; percent by city\_year for lags 1 and 3 and leads 1-5 created 5/24/18 in firelevies project

pct\_cond\_poor – percent of houses that sold in a city\_year that are in poor condition; created 5/24/18 in firelevies project with leads and lags

fireplace – dummy variable = 1 if house has a fireplace, 0 otherwise

attgarage – dummy variable = 1 if house has attached garage, 0 otherwise; could be attached in basement, finished basement garage, unfinished basement garage holding various numbers of cars, built-in garage, made of stone, stucco, wood, wood frame, brick, concrete block, or attached carport

pool – dummy variable = 1 if there is a pool on the parcel, 0 otherwise

onestory – dummy variable = 1 if number of stories is <= 1, 0 otherwise

splitlevel – dummy variable = 1 if number of stories is >1 but < 2, 0 otherwise, less missing obs than bilevel variable (and 315,000 cases as opposed to 133,000 from bilevel)

twostory – dummy variable = 1 if number of stories >=2 but < 3, 0 otherwise

threestoryplus – dummy variable = 1 if number of stories >=3, 0 otherwise

bilevel – dummy variable = 1 if style is bilevel or split level, 0 otherwise; more missing obs than splitlevel variable (and 133,000 cases as opposed to 315,000 from splitlevel)

condo – dummy variable = 1 if style is condo or townhome, 0 otherwise

colonial – dummy variable = 1 if style is colonial, 0 otherwise

log – dummy variable = 1 if style is log cabin, 0 otherwise

modular – dummy variable = 1 if style is modular or mobile, 0 otherwise

old – dummy variable = 1 if style is ‘old’, 0 otherwise

ranch – dummy variable = 1 if style is ranch or raised ranch, 0 otherwise

row – dummy variable = 1 if style is row, 0 otherwise

underground – dummy variable = 1 if style is underground, 0 otherwise

english – dummy variable = 1 if style is Tudor or Georgian or Victorian, 0 otherwise

woodcoal – dummy variable = 1 if water and building are heated by wood or coal, 0 otherwise

oil – dummy variable = 1 if water and building are heated by oil, 0 otherwise

solar – dummy variable = 1 if water and building are heated by solar, 0 otherwise

publicsewer – dummy variable = 1 if house is on public sewer system, 0 otherwise

wellwater = dummy variable = 1 if house gets its water from a well, 0 otherwise

privwater – dummy variable = 1 if house gets its water from a private source (but not a well), 0 otherwise

saleprice\_lag1, saleprice\_lag3 – median value of SALE\_PRICE for the city\_year combination one and three years before the year of the current sale, where city is general term for township, place, or village; created 5/17/18 in notes\_fire\_capitalization.docx

SALE\_PRICE\_lead1, SALE\_PRICE\_lag3 – mean of SALE\_PRICE for the city\_year combination one year ahead, 3 years before current year of sale, where city means city, village, or township; created 8/13/19 in notes\_2015data.docx, in constant 2010 dollars

saleprice\_lead1 through saleprice\_lead5 – median value of SALE\_PRICE for the city\_year combination one to five years after the year of the current sale, where city is general term for township, place, or village; created 5/17/18 in notes\_fire\_capitalization.docx; useful to see if there’s a delayed effect of tax levy passage on sale price

SALE\_PRICE\_INDIV\_lead1 through lead5 – SALE\_PRICE of house at *individual* house level for leads1-5 and lags 1 and 3, not yet added to the housing data set because it increases nobs, but I put instructions for how to do it on p. 355 of notes\_2015data.docx

Numsales [old one that got saved over and should be ignored] – number of houses sold in a municipality by city\_year, meaning a city, village or township; created 5/23/18 in notes\_fire\_capitalization.docx, lags 1 and 3 and leads 1-5 created 5/24/18 [has outlier problems: use salesactivity instead]

numsales - number of houses sold in each city in each year, meaning a city, village, or township; created 11/17/20 in notes\_2015data.docx, with leads and lags; added this variable to cosub\_place\_county\_votes\_property.dta on 11/17/20

numsalescap - number of houses sold in each city in each year divided by city pop in each year, meaning a city, village, or township; created 11/17/20 in notes\_2015data.docx, with leads and lags; added this variable to cosub\_place\_county\_votes\_property.dta on 11/17/20

salesactivity - number of houses sold per 1000 population in a municipality by city\_year, meaning a city, village or township; created 6/1/18 in notes\_fire\_capitalization.docx, lags 1 and 3 and leads 1-5 created; is numsales/pop for the relevant lag or lead so it avoids the outlier problem of numsales IGNORE THIS ONE and use numsalescap instead—I saved over old numsales created in 2018 by accident but new one is better

newhouses – number of new houses constructed in a municipality by city\_year, meaning a city, village, or township per 1000 population; created 8/13/19 in notes\_2015data.docx, with leads and lags, where I allowed houses sold in year x to match with houses built in x+1; added this variable to cosub\_place\_county\_votes\_property.dta on 8/16/19

numhouses – number of houses sold in each city in each year, meaning a city, village, or township; created 11/17/20 in notes\_2015data.docx, with leads and lags; added this variable to cosub\_place\_county\_votes\_property.dta on 11/17/20

newhouses\_acres\_lead1 through 5 and lag1, lag3 – for new houses, that is, each house with YEAR\_BUILT in same year or year after ‘year’ (which is when the house was sold or recorded), it’s the mean number of acres for houses built in the relevant year in that TENDIGIT\_FIPS; created 8/14/19 in notes\_2015data.docx, added it to cosub\_place\_county\_votes\_property.dta on 8/16/19; instructions for how to make acres\_indiv\_lead1 at individual house level on 9/2/19 p. 356 of notes\_2015data.docx

newhouses\_sqft\_lead1 through 5 and lag1, lag3 – for new houses, that is, each house with YEAR\_BUILT in same year or year after ‘year’ (which is when the house was sold or recorded), it’s the mean house size (UNIVERSAL\_BUILDING\_SQUARE\_FEET) for houses built in the relevant year in that TENDIGIT\_FIPS; created 8/14/19 in notes\_2015data.docx; added it to cosub\_place\_county\_votes\_property.dta on 8/16/19; instructions for how to make sqft\_indiv\_lead1 at individual house level on 9/2/19 p. 356 of notes\_2015data.docx

newhouses\_rooms\_lead1 through 5 and lag1, lag3 – for new houses, that is, each house with YEAR\_BUILT in same year or year after ‘year’ (which is when the house was sold or recorded), it’s the mean number of rooms (TOTAL\_ROOMS) for houses built in the relevant year in that TENDIGIT\_FIPS; created 8/14/19 in notes\_2015data.docx; added it to cosub\_place\_county\_votes\_property.dta on 8/16/19; instructions for how to make rooms\_indiv\_lead1 at individual house level on 9/2/19 p. 356 of notes\_2015data.docx

saledummy\_fire\_lead1, etc. created 2/27/20 in finalind.dat, these are dummy variables for each of the 4,259,598 obs of housing sales in the data set for whether the house sold 1 year after a renewal fire levy, etc., including 5 lags and 5 leads and the contemporaneous sale, saleprice\_fire\_timet; I converted the 0’s to -1; Olivier’s Matlab code can replicate this for any type of tax levy; this variable will be interacted with pctfor and called pctfor\_b, and pctfor\_b will be dropped before running regressions to handle missing values in Stata

mindist\_fire – created 3/19/20 from mindist.dat, it’s distance in km from each of the 4,259,598 houses to nearest fire department, and it’s 0 or . for houses that did not transact within 5 years before or 5 years after a fire tax levy

School Variables

falladm - fall school district enrollment for each school year; Kindergarten thru grade 12 enrollment minus unauthorized attendance minus out of state enrollment plus non-attending pupils; 90 to 97 from vit3266.csv, 98 to 03 from enrollment9803.csv and 04 to 10 from enrollment0410.csv; from “Ohio Department of Education Power User Reports: Enrollment (District)” extracted 5/9/05; 2010 to 2004 from enrollment0410.csv from “Ohio Department of Education Power User Reports: Enrollment (District)”; created 11/29/11; rescaled 4/15/06 to be in thousands of students

NOTE FOR \_1, \_2, \_3: most school outcomes have a separate variable called variable name\_1, etc., like falladm\_2. This represents the value of falladm two years after the current year. It’s useful for specifying outcomes that occur with a lag, although once I converted from SAS I found Stata could have done it a lot easier

falladm\_ch9000, falladm\_ch9500, and falladm\_ch9800, falladm\_ch9010 – change in fall school district enrollment between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010 in thousands of students; Kindergarten thru grade 12 enrollment minus unauthorized attendance minus out of state enrollment plus non-attending pupils; 90 to 97 from vit3266.csv, 98 to 03 from enrollment9803.csv; from “Ohio Department of Education Power User Reports: Enrollment (District)” extracted 5/9/05; created 4/15/06

pctmin – percent of student enrollment that is non-white or white Hispanic for each school year; years 90 to 97 from vit3266.csv; years 98 to 00 from 9800\_race.csv “Ohio Department of Education Power User Reports: Enrollment with Student Disaggregation (District)” extracted 5/7/05; years 01 to 03 from 0102\_lrc\_district\_ethnic.csv “School Years 2001-2002 Local Report Card: Disaggregated District Data: Racial/Ethnic” extracted 5/10/05; years 2010 through 2004 from minority0410.csv “Ohio Department of Education Power User Reports: Enrollment by Student Demographic (District)”; extracted & created 11/30/11; warning: 2004 through 2010 ODE coded Percent White Non-Hispanic as >95% in source files, without giving further detail than that, so if there were years with <95% I used 95%, but if they were all 95% I replaced with 99% (done 11/30/11)

pctmin\_ch9000, pctmin\_ch9500, and pctmin\_ch9800, pctmin\_ch9010 – change in percent of student enrollment that is non-white between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010; years 90 to 97 from vit3266.csv; years 98 to 00 from 9800\_race.csv “Ohio Department of Education Power User Reports: Enrollment with Student Disaggregation (District)” extracted 5/7/05; years 01 to 03 from 0102\_lrc\_district\_ethnic.csv “School Years 2001-2002 Local Report Card: Disaggregated District Data: Racial/Ethnic” extracted 5/10/05; created 4/15/06

Avgtchpy – average teacher salary in school district for each school year; years 90 to 97 from vit3266.csv; years 98 to 03 from avgtchpy\_9803.csv “Ohio Department of Education Power User Reports: Average Teacher Salary (District)”; downloaded 5/11/05; years 2004-05 through 2010-11 from avgtchpy9510.csv “Ohio Department of Education Power User Reports: Average Teacher Salary (District)”; downloaded 12/5/11; rescaled 4/15/06 to be in thousands of dollars; 10/6/12 converted to 2010 real dollars

Avgtchpy\_ch9000, Avgtchpy\_ch9500, and Avgtchpy\_ch9800, Avgtchpy\_ch9010 – change in average teacher salary in thousands of dollars between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010; years 90 to 97 from vit3266.csv; years 98 to 03 from avgtchpy\_9803.csv “Ohio Department of Education Power User Reports: Average Teacher Salary (District)”; downloaded 5/11/05; created 4/15/06; 10/6/12 converted to 2010 real dollars

Tadmprtc – student-teacher ratio in school district for each school year; years 90 to 97 from vit3266.csv; years 98 to 03 from puptch\_9803.csv “Ohio Department of Education Power User Reports: Students per Teacher (District)”; downloaded 5/12/05; years 04 to 07 from puptch9507.csv “Ohio Department of Education Power User Reports: Students per Teacher (District)”; downloaded 12/7/11; years 2008-09 through 2010-11 from num\_tch\_100908.csv “Ohio Department of Education School Years 2008-2009 District Data Teacher Information”; created 12/7/11

Tadmprtc\_ch9000, Tadmprtc\_ch9500, and Tadmprtc\_ch9800, Tadmprtc\_ch9010 – change in student-teacher ratio in school district between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010; years 90 to 97 from vit3266.csv; years 98 to 03 from puptch\_9803.csv “Ohio Department of Education Power User Reports: Students per Teacher (District)”; downloaded 5/12/05; created 4/15/06

Ytaxrate – school district income tax rate in percent for each school year; base is the same as for the state income tax; “**School District Income Tax Quarterly Distributions, by School District for Fiscal Year 1990** Table SD-2-Q4 the total distribution for fiscal year 1990” downloaded from Ohio Department of Taxation 3/24/05; ytaxrate05 through ytaxrate10 from ytaxrate05.csv series; “**School District Income Tax Quarterly Distributions, by School District for Fiscal Year 2006** Table SD-2-Q4 the total distribution for fiscal year 2006” (which is actually collections for 2005-2006 school year that I’m calling 2005); downloaded from Ohio Department of Taxation 12/26/11

Ytaxrate\_ch9000, Ytaxrate\_ch9500, and Ytaxrate\_ch9800, Ytaxrate\_ch9010 – change in school district income tax rate in percent between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010; “**School District Income Tax Quarterly Distributions, by School District for Fiscal Year 1990** Table SD-2-Q4 the total distribution for fiscal year 1990” downloaded from Ohio Department of Taxation 3/24/05; created 4/15/06

Ptaxrate – class1 (agricultural and residential) property tax rate in effective mills in school district for each school year ; from 90sd1dat.csv series “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, added ptaxrate04-10 from Ohio Department of Taxation downloaded 4/8/05;** 04sd1dat.csv – 10sd1dat.csv contributed 2004 to 2010 values added 9/30/12

Ptaxrate\_ch9000, Ptaxrate\_ch9500, and Ptaxrate\_ch9800, Ptaxrate\_\_ch9010 – change in class 1 (agricultural and residential) property tax rate in effective mills in school district between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010; from 90sd1dat.csv series “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05; created 4/15/06**

**Agy -** aggregate income by school district ; from agy.csv, which came from y2cy90.wk1 series “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation, extracted 7/21/05; rescaled 4/15/06 to be in hundreds of millions of dollars; updated 2011 for 2004 through 2008 from y2cy04.csv through 08 “2004 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation downloaded 12/27/11; 10/6/12 converted to 2010 real dollars; agy09 and agy10 added from y2ty09 and y2ty10.csv on 10/1/12

Agy\_ch9000, Agy\_ch9500, and Agy\_ch9800, Agy\_ch9010 – change in aggregate income by school district between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010; from agy.csv, which came from y2cy90.wk1 series “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation, extracted 7/21/05; rescaled 4/15/06 to be in hundreds of millions of dollars; created 4/15/06; 10/6/12 converted to 2010 real dollars

Percapy – per capita income by school district; it’s aggregate income divided by number of personal exemptions; from agy.csv, which came from y2cy90.wk1 series “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation, extracted 7/21/05; rescaled 4/15/06 to be in thousands of dollars; 10/6/12 converted to 2010 real dollars; 10/1/12 added 2004-2010

Percapy\_ch9000, Percapy\_ch9500, and Percapy\_ch9800, Percapy\_ch9010 – change in per capita income by school district between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 to 2010; it’s aggregate income divided by number of personal exemptions; from agy.csv, which came from y2cy90.wk1 series “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation, extracted 7/21/05; rescaled 4/15/06 to be in thousands of dollars; created 4/15/06; 10/6/12 converted to 2010 real dollars; added \_ch9010 on 10/2/12

Pctag – percent of real property in school district that is agricultural value; from 90sd1dat.csv series “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation, downloaded 4/8/05; 9/28/12 added 2004-2010 values**

**Pctag\_ch9000, Pctag\_ch9500, and Pctag\_ch9800, Pctag\_ch9010 – change in** percent of real property in school district that is agricultural value between 1990 and 2000, 1995 and 2000, and 1998 and 2000; from 90sd1dat.csv series “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation, downloaded 4/8/05; created 4/15/06;** added \_ch9010 on 10/2/12

**Pctres90 -** percent of real property in school district that is class 1 value (agricultural or residential) ; from 90sd1dat.csv series “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation, downloaded 4/8/05; 9/28/12 added 04 to 10**

**Pctres\_ch9000, Pctres\_ch9500, and Pctres\_ch9800, Pctres\_ch9010 – change in** percent of real property in school district that is class 1 value (agricultural or residential) between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010; from 90sd1dat.csv series “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation, downloaded 4/8/05; created 4/15/06;** added \_ch9010 on 10/2/12

**Persex – population proxy;** number of personal exemptions by school district; from y2cy90.wk1 series “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation; created 7/21/05; rescaled 4/15/06 to be in thousands of people; added 2010 on 10/1/12

Persex\_ch9000, Persex\_ch9500, and Persex\_ch9800, Persex\_ch9010 – change in number of personal exemptions by school district between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010; from y2cy90.wk1 series “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation; created 7/21/05; rescaled 4/15/06 to be in thousands of people; created 4/15/06; added \_ch9010 on 10/2/12

Agehet – age heterogeneity in school district, measured by Leik (1966) index; 1990 data from MESA Group *School District Data Book* National Center for Education Statistics, U.S. Department of Education, Washington, D.C.: 1994., 2000 data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002, and 2001 to 2010 estimated by linear trend, as are 1991 to 1999

Agehet\_ch9000, Agehet\_ch9500, and Agehet\_ch9800, Agehet\_ch9010 – change in age heterogeneity in school district measured by Leik (1966) index between 1990 and 2000, 1995 and 2000, and 1998 and 2000; 1990 data from MESA Group *School District Data Book* National Center for Education Statistics, U.S. Department of Education, Washington, D.C.: 1994., 2000 data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created 4/15/06, added \_ch9010 on 10/2/12

racehet – racial heterogeneity in school district, measured by Leik (1966) index; 1990 data from MESA Group *School District Data Book* National Center for Education Statistics, U.S. Department of Education, Washington, D.C.: 1994., 2000 data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002, and 2001 to 2010 estimated by linear trend, as are 1991 to 1999

racehet\_ch9000, racehet\_ch9500, and racehet\_ch9800, racehet\_ch9010 – change in racial heterogeneity in school district between 1990 and 2000, 1995 and 2000, and 1998 and 2000; measured by Leik (1966) index; 1990 data from MESA Group *School District Data Book* National Center for Education Statistics, U.S. Department of Education, Washington, D.C.: 1994., 2000 data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created 4/15/06; added \_ch9010 on 10/2/12

inchet - income heterogeneity in school district, measured by Leik (1966) index; 1990 data from MESA Group *School District Data Book* National Center for Education Statistics, U.S. Department of Education, Washington, D.C.: 1994., 2000 data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002, and 2001 to 2010 estimated by linear trend, as are 1991 to 1999

inchet\_ch9000, inchet\_ch9500, and inchet\_ch9800, inchet\_ch9010 – change in income heterogeneity in school district, measured by Leik (1966) index between 1990 and 2000, 1995 and 2000, and 1998 and 2000; 1990 data from MESA Group *School District Data Book* National Center for Education Statistics, U.S. Department of Education, Washington, D.C.: 1994., 2000 data from GeoLytics CensusCD 2000 Long Form Release 2.0, East Brunswick, NJ: 2002; created 4/15/06; added \_ch9010 on 10/2/12

localxpa – local school revenues per pupil; it’s class 1 school tax collections divided by fall school district enrollment; from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05, and** “Ohio Department of Education Power User Reports: Enrollment (District)” extracted 5/9/05; rescaled 4/15/06 to be in thousands of dollars; 10/6/12 converted to 2010 real dollars; 10/1/12 added 2004 to 2010; 2/17/15 this definition excludes revenues from any school district income tax

localxpa\_ch9000, localxpa\_ch9500, and localxpa\_ch9800, localxpa\_ch9010 – change in local school revenues per pupil in thousands of dollars between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010; it’s class 1 school tax collections divided by fall school district enrollment; from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05, and** “Ohio Department of Education Power User Reports: Enrollment (District)” extracted 5/9/05; created 4/15/06; 10/6/12 converted to 2010 real dollars; added \_ch9010 on 10/2/12; ; 2/17/15 this definition excludes revenues from any school district income tax

localxpb – local school revenues per capita; it’s class 1 school tax collections divided by number of personal exemptions in school district; from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, and from** “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation, downloaded 3/24/05; rescaled 4/15/06 to be in thousands of dollars; 10/6/12 converted to 2010 real dollars; 10/1/12 added 2004 to 2010; ; 2/17/15 this definition excludes revenues from any school district income tax

localxpb\_ch9000, localxpb\_ch9500, and localxpb\_ch9800, localxpb\_ch9010 – change in local school revenues per capita between 1990 and 2000, 1995 and 2000, and 1998 and 2000 in thousands of dollars; it’s class 1 school tax collections divided by number of personal exemptions in school district; from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, and from** “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation, downloaded 3/24/05; created 4/15/06; 10/6/12 converted to 2010 real dollars; 10/1/12 added 2004 to 2010; ; 2/17/15 this definition excludes revenues from any school district income tax

math- percent of students in each school district proficient or above in math section of the 9th grade proficiency test, except for 2003-2004 and 2004-2005, which discontinued the 9th grade test, so I used 8th grade for 2004-2005 [keep reading for 4/15/06 notes] and 10th grade for 2003-2004, the closest grades I could find; from “Power User Reports: Proficiency Test Results (District)” from Ohio Department of Education Interactive Local Report Card Power User Reports section; created 10/26/05; on 4/15/06 I created math94, whose actual values couldn’t be found anywhere, by making mean of 1993 and 1995; also on 4/15/06 I changed 2003-2004 data to be a continuation of 2002-2003 9th grade scores to get around the comparability problem; updated 2005-2006 through 2010-2011 school years for 10th grade math from “Power User Reports: Proficiency Test Results (District)” from Ohio Department of Education Interactive Local Report Card Power User Reports section; created 1/15/12

math\_ch9000, math\_ch9500, and math\_ch9800, math\_ch9010 – change in percent of students in each school district proficient or above in math section 9th grade proficiency test between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010; from “Power User Reports: Proficiency Test Results (District)” from Ohio Department of Education Interactive Local Report Card Power User Reports section; created 4/15/06; 10/1/12 added 2004 to 2010

agvalpera – agricultural property value per pupil in thousands of dollars; property value data from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05; pupil data from** “Ohio Department of Education Power User Reports: Enrollment (District)” extracted 5/9/05; **varbs created 3/29/06; 2004 to 2010 varbs added 10/1/12;** 10/6/12 converted to 2010 real dollars

**agvalpera\_ch9000, agvalpera\_ch9500, and agvalpera\_ch9800, agvalpera\_ch9010 – change in** agricultural property value per pupil in thousands of dollars between 1990 and 2000, 1995 and 2000, and 1998 and 2000; property value data from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05; pupil data from** “Ohio Department of Education Power User Reports: Enrollment (District)” extracted 5/9/05; **created 4/15/06;** 10/6/12 converted to 2010 real dollars; 10/1/12 added 2004 to 2010

agvalperb – agricultural property value per capita in thousands of dollars; it’s agricultural property value divided by number of personal exemptions in school district; property value data from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05;** **population data from** “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation, downloaded 3/24/05; **varbs created 3/29/06; 2004 to 2010 varbs added 10/1/12;** 10/6/12 converted to 2010 real dollars

**agvalperb\_ch9000, agvalperb\_ch9500, and agvalperb\_ch9800, agvalperb\_ch9010 – change in** agricultural property value per capita in thousands of dollars between 1990 and 2000, 1995 and 2000, and 1998 and 2000; it’s agricultural property value divided by number of personal exemptions in school district; property value data from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05;** **population data from** “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation, downloaded 3/24/05; **created 4/15/06;** 10/6/12 converted to 2010 real dollars; 10/1/12 added 2004 to 2010

resvalpera – residential property value per pupil in thousands of dollars; property value data from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05; pupil data from** “Ohio Department of Education Power User Reports: Enrollment (District)” extracted 5/9/05; **varbs created 3/29/06; 2004 to 2010 varbs added 10/1/12;** 10/6/12 converted to 2010 real dollars

**resvalpera\_ch9000, resvalpera\_ch9500, and resvalpera\_ch9800, resvalpera\_ch9010 – change in** residential property value per pupil in thousands of dollars between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010; property value data from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05; pupil data from** “Ohio Department of Education Power User Reports: Enrollment (District)” extracted 5/9/05; **created 4/15/06;** 10/6/12 converted to 2010 real dollars; 10/1/12 added 2004 to 2010

resvalperb – residential property value per capita in thousands of dollars; it’s residential property value divided by number of personal exemptions in school district; property value data from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05;** **population data from** “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation, downloaded 3/24/05; **varbs created 3/29/06; 2004 to 2010 varbs added 10/1/12;** 10/6/12 converted to 2010 real dollars

**resvalperb\_9000, resvalperb\_9500, and resvalperb\_9800, resvalperb\_9010 – change in** residential property value per capita in thousands of dollars between 1990 and 2000, 1995 and 2000, and 1998 and 2000; it’s residential property value divided by number of personal exemptions in school district; property value data from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05;** **population data from** “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation, downloaded 3/24/05; **created 4/15/06;** 10/6/12 converted to 2010 real dollars; 10/1/12 added 2004 to 2010

cl2valpera – class 2 (all real property types except agricultural and residential) property value per pupil in thousands of dollars; property value data from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05; pupil data from** “Ohio Department of Education Power User Reports: Enrollment (District)” extracted 5/9/05; **varbs created 3/29/06; 2004 to 2010 varbs added 10/1/12;** 10/6/12 converted to 2010 real dollars

**cl2valpera\_ch9000, cl2valpera\_ch9500, and cl2valpera\_ch9800, cl2valpera\_ch9010 – change in** class 2 property value per pupil in thousands of dollars between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010; property value data from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05; pupil data from** “Ohio Department of Education Power User Reports: Enrollment (District)” extracted 5/9/05; **created 4/15/06;** 10/6/12 converted to 2010 real dollars; 10/1/12 added 2004 to 2010

cl2valperb90 to cl2valperb10 – class 2 property value per capita in thousands of dollars for 1990 to 2003; it’s class 2 property value divided by number of personal exemptions in school district; property value data from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05;** **population data from** “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation, downloaded 3/24/05; **varbs created 3/29/06; 2004 to 2010 varbs added 10/1/12;** 10/6/12 converted to 2010 real dollars

cl2valperb\_ch9000, cl2valperb\_ch9500, and cl2valperb\_ch9800, cl2valperb\_ch9010 – change in class 2 (all real property types except agricultural and residential) property value per capita in thousands of dollars between 1990 and 2000, 1995 and 2000, and 1998 and 2000, 1990 and 2010; it’s class 2 property value divided by number of personal exemptions in school district; property value data from “**School District Taxable Property Values, Taxes Levied and Tax Rates for Current Expenses, and Average Property Values Per Pupil, Tax Year 1990”, from Ohio Department of Taxation downloaded 4/8/05;** **population data from** “1990 Ohio Personal Income Tax Returns By School District” from Ohio Department of Taxation, downloaded 3/24/05; **created 4/15/06;** 10/6/12 converted to 2010 real dollars; 10/1/12 added 2004 to 2010

ytaxdummy – dummy variable for whether the school district has a school district income tax for the 611 school districts in each year; from “**School District Income Tax Quarterly Distributions, by School District for Fiscal Year 1990** Table SD-2-Q4 the total distribution for fiscal year 1990” downloaded from Ohio Department of Taxation 3/24/05; created 4/15/06; added 2005 to 2010 on 12/26/11

salestax – sales tax rate in percent for each of the 88 counties in each year; from “County and Regional Transit Authority Permissive Sales and Use Tax Collections and Tax Rates 1990” downloaded from Ohio Department of Taxation 9/18/06; created in income1.sas 9/20/06; 2004 to 2010 added 10/1/12

salestax\_ch9000, salestax\_ch9500, and salestax\_ch9800, salestax\_ch9010 – change in sales tax rate in percent in each county between 1990 and 2000, 1995 and 2000, and 1998 and 2000; from “County and Regional Transit Authority Permissive Sales and Use Tax Collections and Tax Rates 1990” downloaded from Ohio Department of Taxation 9/18/06; created in income1.sas 9/20/06; 10/1/12 added 2004 to 2010

xcoord – longitude of each school district based on address of its school board; from xydists.csv; added to income1.sas 10/15/12

ycoord – latitude of each school district based on address of its school board; from xydists.csv; added to income1.sas 10/15/12

disadv – proportion of children in public school district who are economically disadvantaged, according to Ohio Department of Education; according to Ohio SOES User Manual p. 29 is whether any of the following have been checked on residency box: eligible for free or reduced-price lunch, resident of a household in which a member is eligible for free or reduced-price lunch, recipient of public assistance, or parents have completed a Title I student income form and meet the income guidelines [family income below 130% of federal poverty level for free, 185% for reduced price]; have data for 1990 through 2012, although for 1990 to 2000 I used percent of children aged 5+ living under 1989 and 1999 poverty level, and interpolated between; then I interpolated between 2000 poverty level and 2005 economically disadvantaged; added to income1.sas 2/10/14; from P3183911-476561578\_2000.xls and Enrollment by Student Demographic (District).xls

dum90 – dum14 – dummy variable indicating whether the year is 1990 or not, etc.

countyno – number of county using Ohio’s numbering system, which is different from what Census uses

staff – U.S. dollars per pupil spent on support, staff development, training, retraining, additional college courses, and advice for adult employees in the school district, inflated to 2010 values, from Ohio Department of Education “Expenditure and Revenue Data” downloaded 4/24/15 from <http://education.ohio.gov/Topics/Finance-and-Funding/Finance-Related-Data/District-Profile-Reports>, created in income1.sas 4/27/15; from inctaxrd\inputs file called PerPupilStaffSupportExpenditures.xlsx

pupil –U.S. dollars per pupil spent on non-instructional pupil support including guidance counseling, library help, college advising, field trips, and psychological testing; inflated to 2010 values, from Ohio Department of Education “Expenditure and Revenue Data” downloaded 4/24/15 from <http://education.ohio.gov/Topics/Finance-and-Funding/Finance-Related-Data/District-Profile-Reports>, created in income1.sas 4/27/15; from inctaxrd\inputs file called PerPupilPupilSupportExpenditures.xlsx

admin –U.S. dollars per pupil spent on functions of the building principal’s office and central office costs incurred for the Board of Education, Superintendent’s Office, Fiscal Services, Business Manager, and Support Services, encompassing planning, research, information services, staff services, and data processing expenditures; inflated to 2010 values, from Ohio Department of Education “Expenditure and Revenue Data” downloaded 4/24/15 from <http://education.ohio.gov/Topics/Finance-and-Funding/Finance-Related-Data/District-Profile-Reports>, created in income1.sas 4/27/15; from inctaxrd\inputs file called PerPupilAdministrativeExpenditures.xlsx

bldg –U.S. dollars per pupil spent on facilities and operations at the building and central office levels, including capital goods (building, buses, heating equipment, etc.) and the resources necessary to operate, clean, repair and improve them, including Lunchroom operation; inflated to 2010 values, from Ohio Department of Education “Expenditure and Revenue Data” downloaded 4/24/15 from <http://education.ohio.gov/Topics/Finance-and-Funding/Finance-Related-Data/District-Profile-Reports>, created in income1.sas 4/27/15; from inctaxrd\inputs file called PerPupilBuildingSupportExpenditures.xlsx

instruct –U.S. dollars per pupil spent on teachers, teacher aides or paraprofessionals, as well as materials, computers, books, and other consumable materials that are used with students in a classroom setting; inflated to 2010 values, from Ohio Department of Education “Expenditure and Revenue Data” downloaded 4/24/15 from <http://education.ohio.gov/Topics/Finance-and-Funding/Finance-Related-Data/District-Profile-Reports>, created in income1.sas 4/27/15; from inctaxrd\inputs file called PerPupilInstructionalExpenditures95\_12.xlsx

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; added 10/7/12 from 2000data project

alldisc: values for 2005 through 2014 of all disciplinary actions per 100 students taken by a school district; from Ohio Department of Education Interactive Learning Report Cards, Disciplinary Actions per 100 Students (District), 2005 to 2015-16 School Year, saved as discipline\_1405.xls; disciplines include 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; added 4/27/16

explusion: (yes, spelled wrong) number of expulsions per 100 students at school district level from Ohio Department of Education Interactive Learning Report Cards, Disciplinary Actions per 100 Students (District), 2005 to 2015-16 School Year, saved as discipline\_1405.xls; added 4/27/16

suspension: number of suspensions per 100 students at school district level from Ohio Department of Education Interactive Learning Report Cards, Disciplinary Actions per 100 Students (District), 2005 to 2015-16 School Year, saved as discipline\_1405.xls; added 4/27/16

otherdisc: number of other disciplinary actions per 100 students at school district level from Ohio Department of Education Interactive Learning Report Cards, Disciplinary Actions per 100 Students (District), 2005 to 2015-16 School Year, saved as discipline\_1405.xls; added 4/27/16

Management Information System discipline\_sd.csv, added 10/7/12 from 2000data project

SCHOOL\_DIST\_NAME – name of the school distric

Census Variables

Note: for most files, variables from the Census at the county level have a \_co extension, like pop\_co; if there is no extension the variable is at the place level (city or village) or county subdivision level (township). In any case the definition is the same. For file cosub\_place\_county\_votes.dta, there is no \_co extension but the data automatically refers to county, city, village, township as the case may be.

Note: data is from Census years 1990, 2000, and usually 2009-2015 annually; non-Census years are linearly interpolated and nominal values are presented in 2010 constant dollars

cosub\_name – name of city, village, or township in which house resides

pop – number of persons living in the area; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctlt5 – proportion of persons living in the area who are under 5 years old; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pct5to17 - proportion of persons living in the area who are aged 5 to 17; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pct18to64 - proportion of persons living in the area who are aged 18 to 64; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pct65pls - proportion of persons living in the area who are aged 65 or older; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctwhite – proportion of persons living in the area who self-identify racially as white ; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctblack - proportion of persons living in the area who self-identify racially as black/African-American; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctamerind - proportion of persons living in the area who self-identify racially as native American

pctapi - proportion of persons living in the area who self-identify racially as Asian or Pacific Islander

pctotherrace - proportion of persons living in the area who self-identify racially as ‘other’ race or a mixture of races

pctmin – 1 – pctwhite, the proportion of non-white persons in the area; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

raceherfindahl – Leik (1966) index of racial heterogeneity, where 0 is homogeneity and 1 is equal weighting of races (maximum heterogeneity); Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pcthisp – proportion of self-identified Hispanic persons; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctwithkids – proportion of households with own children under 18 living in the household; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctsinparhhld – proportion of households with own children under 18 living in the household, no spouse present

pctnokids - proportion of households without own children under 18 living in the household; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctmarried – proportion of families with married couple; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctnevermarr – proportion of population 15 and older never married

pctseparated - proportion of population 15 and older married but separated; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctdivorced - proportion of population 15 and older divorced; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctlesshs – proportion of persons 25 years and older with highest educational attainment less than a high school diploma; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pcthsgrad - proportion of persons 25 years and older with highest educational attainment a high school diploma; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctsomecoll - proportion of persons 25 years and older with highest educational attainment some college or associates or technical degree; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctbachelors - proportion of persons 25 years and older with highest educational attainment a 4-year college diploma; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctgraddeg - proportion of persons 25 years and older with highest educational attainment a graduate degree like law school, medical school, master’s degree or Ph.D.; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

lowered - proportion of persons 25 years and older with highest educational attainment no high school or a high school diploma only; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

highered - proportion of persons 25 years and older with highest educational attainment a bachelors or graduate degree like law school, medical school, master’s degree or Ph.D.; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

lforcepartrate – proportion of population 16 years and older in labor force (employed or unemployed); Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

unemprate – proportion of population 16 years and older that is unemployed; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

incherfindahl - Leik (1966) index of income heterogeneity, where 0 is homogeneity and 1 is equal weighting of income categories (maximum heterogeneity); Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

medfamy – median family income (max $200,000); Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project; deflated to 2010 dollars on 8/15/19 in notes\_2015data.docx for hsg\_twp\_votes\_property\_school\_cleaned.dta data set and cosub\_place\_county\_votes\_property.dta but not other data sets so far

pctrent – proportion of housing units that are renter-occupied; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

pctown - proportion of housing units that are owner-occupied

childpov – proportion of families with related children under 18 years living below poverty level; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

poverty – proportion of individuals 18 years and older living under the poverty level; Lags 1 and 3 and leads 1-5 created by city\_year for median value 5/24/18 in firelevies project

Department of Taxation Variables

cl1annex, cl1annexcap – total amount of class 1 (agricultural and residential) building property value annexed to or from a city, village, or township, created 7/17/19; has positive and negative values; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

cl2annex, cl2annexcap – total amount of class 2 (mineral, industrial, commercial, and railroad) building property value annexed to or from a city, village, or township, created 7/17/19; has positive and negative values; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

totannex, totannexcap – total amount of building property value annexed to or from a city, village, or township, created 7/17/19; has positive and negative valuesl; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

agdemolished, agdemolishedcap - total amount of agricultural building property value demolished in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

resdemolished, resdemolishedcap - total amount of residential building property value demolished in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

mindemolished, mindemolishedcap - total amount of mineral building property value demolished in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

inddemolished, inddemolishedcap - total amount of industrial building property value demolished in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

comdemolished, comdemolishedcap - total amount of commercial building property value demolished in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

rrdemolished, rrdemolishedcap - total amount of railroad building property value demolished in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

cl1demolished, cl1demolishedcap - total amount of class 1 (agricultural and residential) building property value demolished in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

cl2demolished, cl2demolishedcap – total amount of class 2 (mineral, industrial, commercial, and railroad) building property value demolished in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

totdemolished, totdemolishedcap - total amount of building property value demolished in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

agnewconstruction, agnewconstructioncap - total amount of agricultural building property value new construction in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

resnewconstruction, resnewconstructioncap - total amount of residential building property value new construction in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

minnewconstruction, minnewconstructioncap - total amount of mineral building property value new construction in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

indnewconstruction, indnewconstructioncap - total amount of industrial building property value new construction in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

comnewconstruction, comnewconstructioncap - total amount of commercial building property value new construction in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

rrnewconstruction, rrnewconstructioncap - total amount of railroad building property value new construction in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

cl1newconstruction, cl1newconstructioncap - total amount of class 1 (agricultural and residential) building property value new construction in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

cl2newconstruction, cl2newconstructioncap – total amount of class 2 (mineral, industrial, commercial, and railroad) building property value new construction in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

totnewconstruction, totnewconstructioncap - total amount of building property value new construction in a city, village, or township, created 7/17/19; leads 1-5 and lags 1 and 3 created 8/13/19 and deflated to 2010 dollars in hsg\_twp\_property\_school\_cleaned.dta and cosub\_place\_county\_votes\_property.dta but not other data sets so far; cap version is per 1000 persons created 8/21/19

inctaxrate – income tax rate for city or village in each year (there are about 600 of them), created 8/30/19 in city\_income\_panel\_1990\_2017\_2.xlsx, deflated to constant 2010 dollars in city\_income\_panel\_1990\_2017\_2.dta

cityincome – aggregate income of a city or village in each year (there are about 600 of them) from multiplying city income tax revenue collection with income tax rate, created 8/30/19 in city\_income\_panel\_1990\_2017\_2.xlsx, deflated to constant 2010 dollars in city\_income\_panel\_1990\_2017\_2.dta

cityincomecap – per capita income of a city or village in each year (there are about 600 of them, 17900 city/years in total), created 9/2/19 deflated to constant 2010 dollars; created by dividing cityincome by pop, which uses yearly Census estimates from 2010 on but 1990 – 2010 uses interpolation between Census years

chcityincomecap – change in per capita income of a city or village in each year (there are about 600 of them, 15047 city/years in total), created 8/2/21 in notes\_current\_expenses\_RD\_cityincome.docx in constant 2010 dollars; created by taking change in cityincomecap from previous year within same TENDIGIT\_FIPS

Identifier Variables (unless indicated above)

city\_year – it’s the concatenation of year and TENDIGIT\_FIPS ; example is Madeira City in 1995 which have the value of the form 39035610281995

sd\_type – Ohio’s typology of school districts: city, local, or exempted village

sd\_name – written name of school district

Irn: public school district identifier that Ohio uses, 5-digit, multiple sources; many source files like discipline.xls from 2000 data folder have a matching of irn to school district name, arranged by county

UNSDLEA10 – five-digit school district code that Census uses for school district

PLACEFP10\_5 – five-digit Census place FIPS code for 2010, with leading zeroes when necessary

TENDIGIT\_FIPS – ten-digit identifier consisting of 39 for state, 3-digit county FIPS, and 5-digit county subdivision FIPS with proper number of zeroes, used to merge county subdivision data with housing data

county\_name – name of county house resides in

uniqueid - Turns out that neither UNFORMATTED APN nor APN SEQUENCE NBR provide unique key for a house, so I constructed my own as a concatenation of HOUSE LATITUDE and FORMATTED APN, and it was almost perfect

PLACEFP00 – Census place FIPS code for 2000, which is sometimes different than PLACEFP10\_5; for example, when a house residing in a township gets incorporated into a village, or when a village dissolves and houses are now part of a township; when such a change happens see twp\_change

twp\_change – dummy variable = 1 if house changed from being in township or muni between 2000 and 2010; about 40,000 houses do this in the housing data set by itself

PLACEFP10 – Census place FIPS code for 2010, which is sometimes different than PLACEFP00; for example, when a house residing in a township gets incorporated into a village, or when a village dissolves and houses are now part of a township

NAME00 – name of city, township, or village by itself, like Woodsfield, year 2000

NAME10 – name of city, township, or village by itself, like Woodsfield, year 2010

NAMELSAD00 - name of city, township, or village along with type it is, like Woodsfield village, year 2000

NAMELSAD00 - name of city, township, or village along with type it is, like Woodsfield village, year 2010

LSAD00 – type of local government unit the house resides in for year 2000, following table from Census: <https://www.census.gov/geo/reference/lsad.html> ; examples are “25 – city”

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CLASSFP00 - type of local government unit the house resides in for year 2000, following table from Census: <https://www.census.gov/geo/reference/class.html>; example is “C5 – an active incorporated place that is independent of any county subdivision and serves as a county subdivision equivalent”

CLASSFP10 - type of local government unit the house resides in for year 2000, following table from Census: <https://www.census.gov/geo/reference/class.html>; example is “C5 – an active incorporated place that is independent of any county subdivision and serves as a county subdivision equivalent”

FUNCSTAT00 – Census code telling whether unit of local government if functioning or not; for example, Z1 is a nonfunctioning county subdivision, an example of which is “Lancaster city township”, which has FUNCSTAT\_1 of ‘N’ (nonfunctioning), which we treat as being a Census place in 2000

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stcofips = concatenation of Census FIPS codes for state and county, created in cosub\_place\_county\_fips.dta from stcountyfips.docx on 5/21/19 to help create TENDIGIT\_FIPS in voting data sets so I can merge in new construction data