

## 4E Capstone Project Merged Raw Data Dictionary

Observation Identifiers	
county	County/geography name
state	US state
county_state	A unique county identifier that lists County, State. Example: Abbeville County, South Carolina
county_fips	Federal Information Processing Standard Publication: Uniquely identifies US counties, needed for mapping
fipscounty	A combination of the FIPS code and county name, Example: 45001 - Abbeville County, SC
period / year	Period: year range for 5-year average data Year: exact year for 1-year estimate data
User-Created Variables	
unemp_rate	Unemployed / total labor force
renter_rate	Number of renters / total households
evict_rate	Number of evictions / number of renter households
nonwhite_rate	Proportion of a county's population that is nonwhite
r_gap30	The number of renter households with income < 30% HAMFI that are forced to rent above their affordable level (Takes those who "up-buy" and subtracts affordable vacancies)
r_gap3050	The number of renter households with income 30-50% HAMFI that are forced to rent above their affordable level (Takes those who "up-buy" and subtracts affordable vacancies)
r_gap5080	The number of renter households with income 50-80% HAMFI that are forced to rent above their affordable level (Takes those who "up-buy" and subtracts affordable vacancies)
r_totalgap	The sum of all renter households who are forced to rent above their affordable level
r_totalgap_rate	r_totalgap as a proportion of renter households
ACS School Enrollment Survey, County level	
collegipop	Total population enrolled in college (undergrad or graduate)
college_rate	College population as a proportion of total population

**BLS Local Area Unemployment Statistics, County level**

labor_force	Total population in the labor force: Employed + Unemployed
employed	Total employed population
unemployed	Total unemployed population

**Eviction Lab, Yearly Estimates 2008-2016**

population	Total population
median.household.income	Median household income
median.property.value	Median property value
poverty_rate	Number of impoverished individuals divided by population
num.impovrished	Poverty rate * Total population
eviction.filings	All eviction cases filed in an area, including multiple cases filed against the same address in the same year
evictions	Number of eviction judgments in which renters were ordered to leave in a given area and year
white.pop	Population that is White alone and not Hispanic or Latino
af.am.pop	Population that is Black or African American alone and not Hispanic or Latino
hispanic.pop	Population that is of Hispanic or Latino origin
am.ind.pop	Population that is American Indian and Alaska Native alone and not Hispanic or Latino
asian.pop	Population that is Asian alone and not Hispanic or Latino
nh.pi.pop	Population that is Native Hawaiian and Other Pacific Islander alone and not Hispanic or Latino
multiple.pop	Population that is multiple races and not Hispanic or Latino
other.pop	Population that is other race alone and not Hispanic or Latino

**CHAS Data, 2008-2012 5-Year Averages, 2013-2017 5-Year Averages**

totalhh	Initially: T8_est1 Total occupied housing units
owner_occ	Initially: T8_est2 Number of owner-occupied housing units
renter_occ	Initially: T8_est68 Number of renter-occupied housing units

o_costbur	Initially: T8_est7+T8_est20+T8_est33+T8_est46+T8_est59 Number of owners with a cost burden between 30% and 50%
o_sevcostbur	Initially: T8_est10+T8_est23+T8_est36+T8_est49+T8_est62 Number of owners with a cost burden over 50%
r_costbur	Initially: T8_est73+T8_est86+T8_est99+T8_est112+T8_est125 Number of renters with a cost burden between 30% and 50%
r_sevcostbur	Initially: T8_est76+T8_est89+T8_est102+T8_est115+T8_est128 Number of renters with a cost burden over 50%
o_hi30	Initially: T8_est3 Number of owners with income < 30% of HAMFI
o_hi3050	Initially: T8_est16 Number of owners with income between 30-50% of HAMFI
o_hi5080	Initially: T8_est29 Number of owners with income between 50-80% of HAMFI
o_hi80100	Initially: T8_est42 Number of owners with income between 80-100% of HAMFI
o_hi100	Initially: T8_est55 Number of owners with income > 100% of HAMFI
r_hi30	Initially: T8_est69 Number of renters with income < 30% of HAMFI
r_hi3050	Initially: T8_est82 Number of renters with income between 30-50% of HAMFI
r_hi5080	Initially: T8_est95 Number of renters with income between 50-80% of HAMFI
r_hi80100	Initially: T8_est108 Number of renters with income between 80-100% of HAMFI
r_hi100	Initially: T8_est121 Number of renters with income > 100% of HAMFI
o_totvacant	Initially: T14A_est1 Total vacant-for-sale housing units
o_50vacant	Initially: T14A_est4 Vacant-for-sale housing units with price less than VHUD50
o_5080vacant	Initially: T14A_est8

	Vacant-for-sale housing units with price of VHUD50-VHUD80
o_80100vacant	Initially: T14A_est12 Vacant-for-sale housing units with price of VHUD80-VHUD100
o_100vacant	Initially: T14A_est16 Vacant-for-sale housing units with price over VHUD100
r_totvacant	Initially: T14B_est1 Total vacant-for-rent housing units
r_30vacant	Initially: T14B_est4 Vacant-for-rent housing units with price less than RHUD30
r_3050vacant	Initially: T14B_est8 Vacant-for-rent housing units with price of VHUD30-VHUD50
r_5080vacant	Initially: T14B_est12 Vacant-for-rent housing units with price of VHUD50-VHUD80
r_80vacant	Initially: T14B_est16 Vacant-for-rent housing units with price over VHUD80
o_hv50	Initially: T15A_est4 + T15B_est4 Owners with a home value < VHUD50
o_hv50_hi30	Initially: T15A_est5 + T15B_est5 Owners with home value < VHUD50, income < 30% HAMFI
o_hv50_hi3050	Initially: T15A_est9 + T15B_est9 Owners with home value < VHUD50, income 30-50% HAMFI
o_hv50_hi5080	Initially: T15A_est13 + T15B_est13 Owners with home value < VHUD50, income 50-80% HAMFI
o_hv50_hi80100	Initially: T15A_est17 + T15B_est17 Owners with home value < VHUD50, income 80-100% HAMFI
o_hv50_hi100	Initially: T15A_est21 + T15B_est21 Owners with home value < VHUD50, income > 100% HAMFI
o_hv5080	Initially: T15A_est25 + T15B_est25 Owners with home value VHUD50-80
o_hv5080_hi30	Initially: T15A_est26 + T15B_est26 Owners with home value VHUD50-80, income < 30% HAMFI
o_hv5080_hi3050	Initially: T15A_est30 + T15B_est30 Owners with home value VHUD50-80, income 30-50% HAMFI

o_hv5080_hi5080	Initially: T15A_est34 + T15B_est34 Owners with home value VHUD50-80, income 50-80% HAMFI
o_hv5080_hi80100	Initially: T15A_est38 + T15B_est38 Owners with home value VHUD50-80, income 80-100% HAMFI
o_hv5080_hi100	Initially: T15A_est42 + T15B_est42 Owners with home value VHUD50-80, income > 100% HAMFI
o_hv80100	Initially: T15A_est46 + T15B_est46 Owners with home value VHUD80-100
o_hv80100_hi30	Initially: T15A_est47 + T15B_est47 Owners with home value VHUD80-100, income < 30% HAMFI
o_hv80100_hi3050	Initially: T15A_est51 + T15B_est51 Owners with home value VHUD80-100, income 30-50% HAMFI
o_hv80100_hi5080	Initially: T15A_est55 + T15B_est55 Owners with home value VHUD80-100, income 50-80% HAMFI
o_hv80100_hi80100	Initially: T15A_est59 + T15B_est59 Owners with home value VHUD80-100, income 80-100% HAMFI
o_hv80100_hi100	Initially: T15A_est63 + T15B_est63 Owners with home value VHUD80-100, income > 100% HAMFI
o_hv100	Initially: T15A_est67 + T15B_est67 Owners with a home value > VHUD100
o_hv100_hi30	Initially: T15A_est68 + T15B_est68 Owners with home value > VHUD100, income < 30% HAMFI
o_hv100_hi3050	Initially: T15A_est72 + T15B_est72 Owners with home value > VHUD100, income 30-50% HAMFI
o_hv100_hi5080	Initially: T15A_est76 + T15B_est76 Owners with home value > VHUD100, income 50-80% HAMFI
o_hv100_hi80100	Initially: T15A_est80 + T15B_est80 Owners with home value > VHUD100, income 80-100% HAMFI
o_hv100_hi100	Initially: T15A_est84 + T15B_est84 Owners with home value > VHUD100, income > 100% HAMFI
r_hv30	Initially: T15C_est4 Renters with a home value < RHUD30

r_hv30_hi30	Initially: T15C_est5 Renters with home value < RHUD30, income < 30% HAMFI
r_hv30_hi3050	Initially: T15C_est9 Renters with home value < RHUD30, income 30-50% HAMFI
r_hv30_hi5080	Initially: T15C_est13 Renters with home value < RHUD30, income 50-80% HAMFI
r_hv30_hi80100	Initially: T15C_est17 Renters with home value < RHUD30, income 80-100% HAMFI
r_hv30_hi100	Initially: T15C_est21 Renters with home value < RHUD30, income > 100% HAMFI
r_hv3050	Initially: T15C_est25 Renters with home value RHUD30-50
r_hv3050_hi30	Initially: T15C_est26 Renters with home value RHUD30-50, income < 30% HAMFI
r_hv3050_hi3050	Initially: T15C_est30 Renters with home value RHUD30-50, income 30-50% HAMFI
r_hv3050_hi5080	Initially: T15C_est34 Renters with home value RHUD30-50, income 50-80% HAMFI
r_hv3050_hi80100	Initially: T15C_est38 Renters with home value RHUD30-50, income 80-100% HAMFI
r_hv3050_hi100	Initially: T15C_est42 Renters with home value RHUD30-50, income > 100% HAMFI
r_hv5080	Initially: T15C_est46 Renters with home value RHUD50-80
r_hv5080_hi30	Initially: T15C_est47 Renters with home value RHUD50-80, income < 30% HAMFI
r_hv5080_hi3050	Initially: T15C_est51 Renters with home value RHUD50-80, income 30-50% HAMFI
r_hv5080_hi5080	Initially: T15C_est55 Renters with home value RHUD50-80, income 50-80% HAMFI
r_hv5080_hi80100	Initially: T15C_est59 Renters with home value RHUD50-80, income 80-100% HAMFI
r_hv5080_hi100	Initially: T15C_est63

	Renters with home value RHUD50-80, income > 100% HAMFI
r_hv80	Initially: T15C_est67 Renters with a home value > RHUD80
r_hv80_hi30	Initially: T15C_est68 Renters with home value > RHUD80, income < 30% HAMFI
r_hv80_hi3050	Initially: T15C_est72 Renters with home value > RHUD80, income 30-50% HAMFI
r_hv80_hi5080	Initially: T15C_est76 Renters with home value > RHUD80, income 50-80% HAMFI
r_hv80_hi80100	Initially: T15C_est80 Renters with home value > RHUD80, income 80-100% HAMFI
r_hv80_hi100	Initially: T15C_est84 Renters with home value > RHUD80, income > 100% HAMFI
<b>2015 ERS County Typologies</b>	
metro	1=metro county (Urban); 0=nonmetro county (Rural); metro areas include all counties containing one or more urbanized areas: high-density urban areas containing 50,000 people or more; metro areas also include outlying counties that are economically tied to the central counties, as measured by the share of workers commuting on a daily basis to the central counties.
farming_dep	Farm-dependent county indicator. 0=no 1=yes. Farming accounted for at 25% or more of the county's earnings or 16% or more of the employment averaged over 2010-2012.
mining_dep	Mining-dependent county indicator. 0=no 1=yes. Mining accounted for 13% or more of the county's earnings or 8% of the employment averaged over 2010-12.
manufac_dep	Manufacturing-dependent county indicator. 0=no 1=yes. Manufacturing accounted for 23% or more of the county's earnings or 16% of the employment averaged over 2010-12.
gov_dep	Federal/State government-dependent indicator. 0=no 1=yes. Federal and State government accounted for 14% or more of the county's earnings or 9% or more of the employment averaged over 2010-2012.
recreation_dep	Recreation county indicator 0=no 1=yes.

nonspecialized	Nonspecialized indicator 0=no 1=yes. The county was not a farming, mining, manufacturing, government-dependent, or recreation county.
low_educ	Low education county indicator. 0=no 1=yes. At least 20% or more of the residents age 25 to 64 did not have a high school diploma or equivalent between 2008-12.