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
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 Surv	vey, County level
collegepop	Total population enrolled in college (undergrad or graduate)
college_rate	College population as a proportion of total population
BLS Local Area Unemploym	ent Statistics, County level
labor_force	Total population in the labor force: Employed + Unemployed

employed	Total employed population
unemployed	Total unemployed population
Eviction Lab, Yearly Estimat	tes 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-Ye	ar 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
1_5050vacant	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
l =0 1:00=0	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
0_11030_1113080	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
- h5000 k:5000	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
	Owners with home value virobso-ou, intume so-ou/o MAIVIFI

L 5000 L:00100	L W II T454 120 T450 122
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
1_11030_111100	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
1_1103030_1113030	· —
	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
1_11/3030_111100	Renters with home value RHUD30-50, income > 100% HAMFI
1 5000	·
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
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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
r_hv80	miliany. 113C_estu/

Renters with home value > RHUD80, income < 30% HAMFI r_hv80_hi3050		
Renters with home value > RHUD80, income < 30% HAMFI r_hv80_hi3050		Renters with a home value > RHUD80
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 50-80% HAMFI r_hv80_hi100 Initially: T15C_est84 Renters with home value > RHUD80, income 80-100% HAMFI r_hv80_hi100 Initially: T15C_est84 Renters with home value > RHUD80, income > 100% HAMFI 2015 ERS County Typologies 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. Faming 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. 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. The county was not a farming, mining, manufacturing, government-dependent, or	r_hv80_hi30	Initially: T15C_est68
Renters with home value > RHUD80, income 30-50% HAMFI r_hv80_hi5080		Renters with home value > RHUD80, income < 30% HAMFI
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 80-100% HAMFI 2015 ERS County Typologies 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. Faming 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. The county was not a farming, mining, manufacturing, government-dependent, or	r_hv80_hi3050	Initially: T15C_est72
Renters with home value > RHUD80, income 50-80% HAMFI r_hv80_hi80100		Renters with home value > RHUD80, income 30-50% HAMFI
Initially: T15C_est80 Renters with home value > RHUD80, income 80-100% HAMFI Initially: T15C_est84 Renters with home value > RHUD80, income > 100% HAMFI 2015 ERS County Typologies 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. Faming 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. The county was not a farming, mining, manufacturing, government-dependent, or	r_hv80_hi5080	_
Renters with home value > RHUD80, income 80-100% HAMFI r_hv80_hi100		Renters with home value > RHUD80, income 50-80% HAMFI
Initially: T15C_est84 Renters with home value > RHUD80, income > 100% HAMFI 2015 ERS County Typologies 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. Faming accounted for at 25% or more of the county's earnings or 16% or more of the employment averaged over 2010-2012. 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. The county was not a farming, mining, manufacturing, government-dependent, or	r_hv80_hi80100	· —
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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. Nonspecialzed indicator 0=no 1=yes. The county was not a farming, mining, manufacturing, government-dependent, or	manufac_dep	Manufacturing accounted for 23% or more of the county's
nonspecialized Nonspecialzed indicator 0=no 1=yes. The county was not a farming, mining, manufacturing, government-dependent, or	gov_dep	Federal and State government accounted for 14% or more of the county's earnings or 9% or more of the employment
farming, mining, manufacturing, government-dependent, or	recreation_dep	Recreation county indicator 0=no 1=yes.
	nonspecialized	farming, mining, manufacturing, government-dependent, or

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.