

MEMORANDUM

DATE November 29, 2021

TO Tyrone Buckley, California Department of Housing and Community Development (HCD)

CC Tom Brinkhuis, Tawny Macedo, Annelise Osterberg, and Kevin Rolfness; HCD
Kristine Cai and Meg Prince, Fresno Council of Governments

FROM David Early, Andrea Howard, and Asher Kaplan; PlaceWorks

SUBJECT Fresno COG 6th Cycle RHNA Determination, Comparable Regions Analysis – Revised November 29, 2021

Dear Mr. Buckley:

On behalf of the Fresno Council of Governments (Fresno COG), I am pleased to submit the following comparable regions analysis (CRA) as a substitute measure for calculating the overcrowding adjustment for the Fresno COG’s 6th cycle Regional Housing Needs Determination. State law allows the use of the CRA as a substitute benchmark in place of national averages, recognizing comparisons against national averages may be less appropriate than comparisons against comparable regions with healthy housing markets. The outcomes of Fresno COG’s CRA are summarized in **Table 1**.

Table 1. Comparable Regions Average + National Average Summary

| Geography | Overcrowding Rate | Lower Income Household Cost Burden Rate | Higher Income Household Cost Burden Rate |
|-----------------------------------|-------------------|---|--|
| Fresno County, CA | 9.37% | 70.64% | 13.42% |
| USA | 3.35% | 60.25% | 9.89% |
| Comparable Regions Average | 4.37% | 60.77% | 9.45% |

Introduction

After a review of other region’s CRAs and consultation with HCD staff, Fresno COG developed the following process to measure comparability:

1. Determine the appropriate geography
2. Identify an initial longlist of counties with populations 66%-130% the size of Fresno County’s.
3. Collect data, including the following set of indicators, from the 2019 ACS 5-year estimate for US counties.

4. Score each county in comparison to Fresno County for each indicator, then aggregate these scores to determine a “composite comparability score” for each county to identify counties closest in composite comparability score and population size.
5. Remove counties determined to have unhealthy housing markets.
6. Calculate an average of the overcrowding and cost burden rates for the resulting group of comparable counties.

HCD advised that the process should result in a list of between five and seven comparable counties with healthy housing markets. The process initially identified a list of seven counties, which included one county identified as having markers of an unhealthy housing market. This county was eliminated, resulting in a final list of six comparable counties.

Methodology

1. Determine the appropriate geography

The area covered by Fresno COG is both a county and a metropolitan statistical area, which have coextensive boundaries. Thus, we had to first determine whether to consider counties or MSAs for the CRA. Fresno COG consulted on this question with HCD staff, who suggested that counties are more contained than MSAs and that Fresno County’s dynamics were likely to be more similar to those of other counties than other MSAs. Fresno COG therefore determined that the analysis should use counties as the comparable geographic unit.

2. Identify an initial longlist of counties with populations 70%-130% of Fresno County’s

The 2019 ACS 5-year estimate reports Fresno County’s population as 984,521. Our initial longlist numbers 70 counties with populations between 66%-133% of Fresno County’s. The full initial longlist can be found in **Appendix A, Table A-1**.

Fresno County has a relatively large population size among US counties, so comparable counties were generally smaller. Of 70 counties longlisted for population size, only 16 counties had populations larger than Fresno County’s, and none of these 16 counties scored highly enough in the composite score comparison (described below) to appear in the final list of counties. The seven counties found to be most comparable to Fresno County through the composite score comparison ranged between 69% and 104% of Fresno County’s population size.

3. Collect indicators from 2019 ACS 5-year estimate

Nine comparability indicators were chosen based on precedent Comparable Region Analyses shared by HCD, as well as Fresno COG's knowledge of factors that characterize Fresno County.

- Common CRA Factors (with ACS 2019 5-year estimate Table IDs)
 - Median Household Income (B19013)
 - GINI Index (B19083)
 - Share of population living in poverty (B17020)
 - Share of population with bachelor's degree or higher (B15003)
 - Share of households that moved in 2017 or later (B25038)
 - Median age of workers (B23013)
 - Total workers (16 and over) (B08603)
 - % of population 17 and under or 64 and over (B01001)
- Factors Unique to Fresno County's CRA
 - Share of population working in agriculture, forestry, fishing, hunting, and mining. (C24050)

Although this indicator was not used in CRAs completed in other parts of the state, similar indicators have been used. Fresno County is one of the country's largest agricultural production centers, which makes agricultural workers and their housing needs important considerations. This indicator is included in a similar way to the inclusion of Public Administration Jobs as a comparability indicator in the Sacramento Area Council of Government (SACOG) CRA, in that it helps identify counties that share some degree of comparability with Fresno County in terms of workforce composition.

4. Score each county in comparison with Fresno County. Aggregate these scores to determine a "composite comparability score."

This section describes the scoring and normalization process. Because indicator values vary in scale and format, normalization was necessary for a comparison among them.

1. Initial scoring

Counties were assigned **initial scores** for each indicator. An **initial score** is the percentage difference between a comparable county's value and Fresno County's value for a specific indicator (as an absolute value.)

$$\text{Initial score} = |(y - x)/y|$$

x = comparable county value

y = Fresno County value

2. Calculating normalization factors for each indicator

Normalization factors are unique to each indicator. The **normalization factor** for each indicator was calculated by dividing 1 by the **average initial score (z)** across all US counties for that indicator (the sum of all US county initial scores for that indicator divided by the total number of counties).

$$\text{Average initial score} = \text{sum}(\text{all US County initial scores}) / \# \text{ of US Counties}$$

$$\text{Average initial score} = z$$

$$\text{Normalization factor} = 1/z$$

3. Normalizing scores

Multiplying all **initial scores** for a given indicator by that indicator's **normalization factor** proportionally rescaled scores and caused the average score for that indicator to become 1, which we refer to as the **normalized average score**. This was repeated for each indicator using each indicator's unique **normalization factor**. This process gives us **normalized scores**, with each indicator now sharing the same **normalized average score (1)**.

$$\text{Initial score} = |(y - x)/y|$$

$$\text{Normalization factor} = 1/z$$

$$\text{Normalized Score} = |(y - x)/y| * (1/z)$$

x = comparison county value

y = Fresno County value

z = average initial score = sum(all US County initial scores) / # of US Counties

For example, when scoring median household income comparability for Polk County, Florida, we found the following:

- The **initial score is 0.0627**, which is the percentage difference in median income between Fresno and Polk Counties. $|(\$53,969 - \$50,584) / \$53,969| = 0.0627$.
- The **average initial score is 0.204** for household median income. This is the percentage difference between Fresno County and the average US county, or the sum of all US county scores divided by the total number of counties.
- The **normalization factor is 4.90**, which is calculated by dividing 1 by the **average initial score (0.204)**.
- The **normalized score for Polk County is 0.307**, which is calculated by multiplying the initial score (0.0627) by the normalization factor (4.90).
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Once the normalized scores are calculated for each indicator, we sum these scores to create a "composite score." The counties with the lowest composite scores are the ones that are most comparable to Fresno County. Higher scores indicate greater difference from Fresno County.

Tables 2 and 3 show the raw scores, the normalized comparability indicator scores, and the composite scores for the seven counties found to be most comparable to Fresno County.

Table 2. Comparability Indicator Values

Source: ACS 2019 5-year estimates

| County | Median Household Income | GINI Index | % Population Living in Poverty | % Population 25 Years and Over: Bachelor's Degree or Better | % Occupied Housing Units: Moved in 2017 or Later | Median Worker Age | Total Workers (16 and over) | % Population under 17 or over 64 | % Employed Civilian Population 16 Years and Over: Agriculture, Forestry, Fishing and Hunting, and Mining |
|------------------------|-------------------------|------------|--------------------------------|---|--|-------------------|-----------------------------|----------------------------------|--|
| Fresno County, CA | \$53,969 | 0.4746 | 22.55% | 21.17% | 10.64% | 37.9 | 395,689 | 40.49% | 9.69% |
| Kern County, CA | \$53,350 | 0.4668 | 21.00% | 16.38% | 10.52% | 37.6 | 337,438 | 39.75% | 15.83% |
| El Paso County, TX | \$46,871 | 0.4613 | 10.08% | 23.31% | 11.94% | 37.6 | 361,986 | 39.35% | 1.07% |
| Pima County, AZ | \$53,379 | 0.4694 | 16.81% | 32.38% | 13.16% | 38.1 | 442,389 | 40.35% | 1.10% |
| San Joaquin County, CA | \$64,432 | 0.4529 | 14.51% | 18.76% | 9.06% | 39.4 | 303,147 | 39.84% | 4.52% |
| Polk County, FL | \$50,584 | 0.4452 | 15.83% | 20.17% | 11.64% | 40.2 | 281,139 | 42.44% | 1.62% |
| Oklahoma County, OK | \$54,520 | 0.4911 | 15.96% | 31.99% | 13.50% | 37.6 | 373,566 | 38.94% | 3.37% |
| Bernalillo County, NM | \$53,329 | 0.4770 | 16.69% | 34.41% | 11.01% | 38.6 | 317,562 | 37.85% | 1.04% |

Table 3. Normalized Comparability Indicator Scores and Composite Scores

Source: ACS 2019 5-year estimates

| County | Median Household Income (In 2019 Inflation Adjusted Dollars) | GINI Index | % Pop. Living in Poverty | % Pop. 25 Years and Over: Bachelor's Degree or Better | % Occupied Housing Units: Moved in 2017 or Later | Median Worker Age | Total Workers (16 and over) | % Population under 17 or over 64 | % Employed Civilian Population 16 Years and Over: Agriculture, Forestry, Fishing and Hunting, and Mining | Composite Score |
|------------------------|--|------------|--------------------------|---|--|-------------------|-----------------------------|----------------------------------|--|-----------------|
| Fresno County, CA | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Kern County, CA | 0.06 | 0.20 | 0.17 | 0.69 | 0.04 | 0.08 | 0.16 | 0.25 | 0.92 | 2.57 |
| El Paso County, TX | 0.64 | 0.34 | 0.26 | 0.31 | 0.45 | 0.08 | 0.09 | 0.39 | 1.30 | 3.87 |
| Pima County, AZ | 0.05 | 0.13 | 0.64 | 1.61 | 0.87 | 0.05 | 0.13 | 0.05 | 1.29 | 4.82 |
| San Joaquin County, CA | 0.95 | 0.56 | 0.89 | 0.35 | 0.54 | 0.40 | 0.25 | 0.22 | 0.78 | 4.95 |
| Polk County, FL | 0.31 | 0.76 | 0.75 | 0.14 | 0.34 | 0.62 | 0.31 | 0.67 | 1.21 | 5.12 |
| Oklahoma County, OK | 0.05 | 0.43 | 0.73 | 1.55 | 0.99 | 0.08 | 0.06 | 0.53 | 0.95 | 5.37 |
| Bernalillo County, NM | 0.06 | 0.06 | 0.65 | 1.90 | 0.13 | 0.19 | 0.21 | 0.91 | 1.30 | 5.41 |

5. Exclude counties determined to have unhealthy housing markets.

HCD advised that comparable regions should have healthy housing markets. With that in mind, Fresno COG developed a methodology to identify any potentially unhealthy housing markets among the seven counties found most comparable to Fresno County.

Fresno COG used cost burden rates as an indicator for identifying and eliminating unhealthy housing markets. Counties with a cost burden average exceeding the national average both by 10% or more for lower income and 5% or more for higher income cost burden averages were to be eliminated.

Table 4 contains a breakdown of these indicators by income group for the seven most comparable counties. Based on these criteria, San Joaquin County was determined to have an unhealthy housing market. As is reflected in **Table 4**, this county has the highest rate of cost burden among comparable counties across both income groups by a substantial margin.

Table 4. Comparable Counties Housing Market Conditions*

Source: 2019 ACS, 2018 CHAS - Income by Cost Burden (Owners and Renters)

| Counties | Lower Income Cost Burden | Higher Income Cost Burden |
|-------------------------------|--------------------------|---------------------------|
| USA Average | 60.25% | 9.89% |
| Fresno County, CA | 70.64% | 13.42% |
| Kern County, CA | 67.41% | 13.02% |
| El Paso County, TX | 56.20% | 8.46% |
| Pima County, AZ | 63.10% | 9.59% |
| San Joaquin County, CA | 72.02% | 16.89% |
| Polk County, FL | 59.83% | 10.57% |
| Oklahoma County, OK | 54.00% | 5.95% |
| Bernalillo County, NM | 64.58% | 9.23% |

***Bolded** values indicate values outside the specified range set as markers of housing market health.*

6. Calculate the average of the overcrowding and cost burden rates for the resulting group of comparable counties.

Table 5 compares overcrowding and cost burden data for Fresno County with the averages for the final six comparable counties and the United States. The comparable regions averages for overcrowding and cost burden were calculated using the original ACS data on overcrowding and cost burden from each jurisdiction and are the result of dividing the total number of overcrowded or cost burden households in all five comparable regions by the total number of households in all five jurisdictions overall. Detailed tables showing cost burden and overcrowding data and averages for comparable regions can be found in **Appendix A, Tables A-2, A-3, and A-4.**

Table 5. Comparable Region Analysis Summary

Source: ACS 2019 5-year estimates, CHAS 2018

| County | Overcrowding Rate | Lower Income Household Cost Burden Rate | Higher Income Household Cost Burden Rate |
|-----------------------------------|-------------------|---|--|
| Fresno County, CA | 9.37% | 70.64% | 13.42% |
| USA Average | 3.35% | 60.25% | 9.89% |
| Comparable Regions Average | 4.37% | 60.77% | 9.45% |
| Kern County, CA | 9.21% | 67.41% | 13.02% |
| El Paso County, TX | 5.09% | 56.20% | 8.46% |
| Pima County, AZ | 3.62% | 63.10% | 9.59% |
| Polk County, FL | 3.36% | 59.83% | 10.57% |
| Oklahoma County, OK | 2.71% | 54.00% | 5.95% |
| Bernalillo County, NM | 2.66% | 64.58% | 9.23% |

Conclusion and Request

After completing steps 1-6, described above, the analysis resulted in a list of six top-scoring comparable counties, shown in **Table 6**.

Table 6. Composite Scores and Comparability Ranking

Source: ACS 2019 5-year estimates, CHAS 2018

| County | Population | Composite Score* | Comparability Ranking** |
|-----------------------|------------|------------------|-------------------------|
| Fresno County, CA | 984,521 | 0.00 | 0 |
| Kern County, CA | 887,641 | 2.57 | 1 |
| El Paso County, TX | 836,062 | 3.87 | 2 |
| Pima County, AZ | 1,027,207 | 4.82 | 3 |
| Polk County, FL | 686,218 | 5.12 | 5 |
| Oklahoma County, OK | 787,216 | 5.37 | 6 |
| Bernalillo County, NM | 677,858 | 5.41 | 7 |

*Smaller numbers indicate closer comparability.

** Note that the county ranked #4 was eliminated due to excessive cost burden, the specified marker of an unhealthy housing market.

As is shown in **Table 7**, the six final comparable regions have an average overcrowding rate of 4.37%, 1.02% higher than the national average. Comparable region cost burden rates are 60.77% and 9.05% each for lower and higher income groups, 0.52% above and 0.44% below their respective national averages.

Table 7. Comparable Regions Average + Requested Adjustment

Source: ACS 2019 5-year estimates, CHAS 2018

| Geography | Overcrowding Rate | Lower Income Household Cost Burden Rate | Higher Income Household Cost Burden Rate |
|----------------------------|-------------------|---|--|
| Fresno County, CA | 9.37% | 70.64% | 13.42% |
| USA | 3.35% | 60.25% | 9.89% |
| Comparable Regions Average | 4.37% | 60.77% | 9.45% |
| Comparable Regions Impact | +1.02% | +0.52% | -0.44% |

Fresno COG asks that HCD utilize the Comparable Regions Averages for Overcrowding and Cost Burden, shown in **Table 7**, to determine the Fresno COG region's Final 6th Cycle RHNA Determination.

APPENDIX A

Table A-1: 66%-133% Population Longlist in Descending Order by Composite Score

Source: ACS 2019 5-year estimates

| County | Total Population | As a % of Fresno | Composite Score |
|--------------------------------------|------------------|------------------|-----------------|
| Fresno County, California | 984,521 | 100% | 0.00 |
| Kern County, California | 887,641 | 90% | 2.57 |
| El Paso County, Texas | 836,062 | 85% | 3.87 |
| Pima County, Arizona | 1,027,207 | 104% | 4.82 |
| San Joaquin County, California | 742,603 | 75% | 4.95 |
| Polk County, Florida | 686,218 | 70% | 5.12 |
| Oklahoma County, Oklahoma | 787,216 | 80% | 5.37 |
| Bernalillo County, New Mexico | 677,858 | 69% | 5.41 |
| Jackson County, Missouri | 696,216 | 71% | 5.62 |
| Milwaukee County, Wisconsin | 951,226 | 97% | 5.67 |
| Jefferson County, Alabama | 659,680 | 67% | 5.80 |
| Jefferson County, Kentucky | 767,419 | 78% | 5.85 |
| Hidalgo County, Texas | 855,176 | 87% | 5.89 |
| Shelby County, Tennessee | 936,374 | 95% | 5.92 |
| Pinellas County, Florida | 964,666 | 98% | 6.20 |
| Marion County, Indiana | 951,869 | 97% | 6.66 |
| Hamilton County, Ohio | 813,589 | 83% | 6.72 |
| Cuyahoga County, Ohio | 1,247,451 | 127% | 6.75 |
| Erie County, New York | 919,355 | 93% | 6.84 |
| Duval County, Florida | 936,186 | 95% | 6.97 |
| Lee County, Florida | 737,468 | 75% | 7.07 |
| Monroe County, New York | 743,341 | 76% | 7.34 |
| Macomb County, Michigan | 870,325 | 88% | 7.78 |
| New Haven County, Connecticut | 857,513 | 87% | 8.56 |
| Pierce County, Washington | 877,013 | 89% | 8.60 |
| Allegheny County, Pennsylvania | 1,221,744 | 124% | 8.81 |
| DeKalb County, Georgia | 749,323 | 76% | 9.17 |
| St. Louis County, Missouri | 996,919 | 101% | 9.34 |
| Essex County, New Jersey | 795,404 | 81% | 9.68 |
| Hartford County, Connecticut | 893,561 | 91% | 9.70 |
| Franklin County, Ohio | 1,290,360 | 131% | 9.76 |
| Salt Lake County, Utah | 1,133,646 | 115% | 10.05 |
| Gwinnett County, Georgia | 915,046 | 93% | 10.13 |
| Honolulu County, Hawaii | 984,821 | 100% | 10.18 |
| Ventura County, California | 847,263 | 86% | 10.19 |
| Baltimore County, Maryland | 828,018 | 84% | 10.37 |

| County | Total Population | As a % of Fresno | Composite Score |
|--|------------------|------------------|-----------------|
| Worcester County, Massachusetts | 824,772 | 84% | 10.46 |
| El Paso County, Colorado | 698,974 | 71% | 10.48 |
| Essex County, Massachusetts | 783,676 | 80% | 10.60 |
| Davidson County, Tennessee | 687,488 | 70% | 10.68 |
| Hudson County, New Jersey | 670,046 | 68% | 11.12 |
| Multnomah County, Oregon | 804,606 | 82% | 11.32 |
| Mecklenburg County, North Carolina | 1,074,475 | 109% | 11.36 |
| Snohomish County, Washington | 798,808 | 81% | 11.96 |
| Hennepin County, Minnesota | 1,245,837 | 127% | 12.11 |
| Oakland County, Michigan | 1,253,185 | 127% | 12.23 |
| Cobb County, Georgia | 751,218 | 76% | 12.35 |
| Prince George's County, Maryland | 908,670 | 92% | 12.40 |
| Lake County, Illinois | 701,473 | 71% | 12.64 |
| Will County, Illinois | 689,315 | 70% | 12.73 |
| Fort Bend County, Texas | 765,394 | 78% | 12.92 |
| Contra Costa County, California | 1,142,251 | 116% | 13.20 |
| Montgomery County, Pennsylvania | 823,823 | 84% | 13.44 |
| Denver County, Colorado | 705,576 | 72% | 13.69 |
| Fulton County, Georgia | 1,036,200 | 105% | 13.73 |
| Middlesex County, New Jersey | 825,920 | 84% | 13.76 |
| DuPage County, Illinois | 929,060 | 94% | 13.97 |
| Denton County, Texas | 833,822 | 85% | 14.16 |
| Wake County, North Carolina | 1,069,079 | 109% | 14.28 |
| Suffolk County, Massachusetts | 796,605 | 81% | 14.63 |
| Travis County, Texas | 1,226,805 | 125% | 14.72 |
| Bergen County, New Jersey | 930,390 | 95% | 15.05 |
| Norfolk County, Massachusetts | 700,437 | 71% | 15.12 |
| Fairfield County, Connecticut | 943,926 | 96% | 15.19 |
| Westchester County, New York | 968,890 | 98% | 15.76 |
| Montgomery County, Maryland | 1,043,530 | 106% | 16.17 |
| San Mateo County, California | 767,423 | 78% | 16.50 |
| Collin County, Texas | 973,977 | 99% | 16.56 |
| District of Columbia, District of Columbia | 692,683 | 70% | 17.29 |
| San Francisco County, California | 874,961 | 89% | 18.95 |
| Fairfax County, Virginia | 1,145,862 | 116% | 19.69 |

TABLE A-2: Comparable Regions Cost Burden Summary:
Average Households by Income Group and Average Rates of Cost Burden

Source: CHAS 2018

| Detailed Income Group | Average Households Across Comparable Regions by Detailed Income Groups | | Simplified Income Group | Average Households Across Comparable Regions by Simplified Income Groups | | Average Cost Burden Rates by Simplified Income Group |
|-----------------------------|--|-----------------------------|-----------------------------|--|-----------------------------|---|
| | Average Cost Burdened Households (>30%) | Average Total Households | | Average Cost Burdened Households (>30%) | Average Total Households | |
| <= 30% HAMFI* | 26,723 | 36,276 | Lower Income Households | 73,000 | 120,128 | <u>60.77%</u> |
| >30% to <=50% HAMFI* | 24,608 | 34,929 | | | | |
| >50% to <=80% HAMFI* | 21,669 | 48,923 | | | | |
| >80% to <=100% HAMFI* | 6,824 | 28,456 | Higher Income Households | 15,689 | 165,973 | <u>9.45%</u> |
| >100% HAMFI* | 8,865 | 137,518 | | | | |
| TOTAL | 88,689 | 286,103 | TOTAL | 88,689 | 286,103 | |

*"HAMFI" refers to the U.S. Department of Housing and Urban Development (HUD) Area Median Family Income

TABLE A-3: Comparable Regions Cost Burden Calculation Detail

Source: CHAS 2018

| | | Kern County, CA | | El Paso County, TX | | Pima County, AZ | | Polk County, FL | | Oklahoma County, OK | | Bernalillo County, NM | |
|--------------------------|-----------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|---------------------|------------------|-----------------------|------------------|
| Simple Income Group | Detailed Income Group | Cost Burden (>30%) | Total Households | Cost Burden (>30%) | Total Households | Cost Burden (>30%) | Total Households | Cost Burden (>30%) | Total Households | Cost Burden (>30%) | Total Households | Cost Burden (>30%) | Total Households |
| Lower Income Households | <= 30% HAMFI* | 26,520 | 34,295 | 24,375 | 36,355 | 38,090 | 50,545 | 15,230 | 21,745 | 30,315 | 40,675 | 25,810 | 34,040 |
| | >30% to <=50% HAMFI* | 24,455 | 32,065 | 22,290 | 35,395 | 34,680 | 47,220 | 16,700 | 23,835 | 25,090 | 38,280 | 24,430 | 32,780 |
| | >50% to <=80% HAMFI* | 24,290 | 45,290 | 20,350 | 47,490 | 30,480 | 65,870 | 18,610 | 38,890 | 17,135 | 55,375 | 19,150 | 40,625 |
| Higher Income Households | >80% to <=100% HAMFI* | 7,605 | 24,880 | 5,860 | 26,185 | 10,105 | 40,905 | 6,665 | 23,580 | 4,410 | 30,490 | 6,300 | 24,695 |
| | >100% HAMFI* | 12,735 | 131,385 | 6,320 | 117,770 | 12,415 | 193,995 | 8,360 | 118,555 | 5,250 | 131,995 | 8,110 | 131,405 |
| | TOTAL | 95,605 | 267,915 | 79,195 | 263,200 | 125,770 | 398,530 | 65,565 | 226,605 | 82,200 | 296,820 | 83,800 | 263,550 |

*"HAMFI" refers to the U.S. Department of Housing and Urban Development (HUD) Area Median Family Income

Table A-4: Overcrowding Calculation Detail

Source: ACS 2019 5-year estimates

| Simple Overcrowding Category | Not Overcrowded | | Overcrowded | | | |
|--|---|---|---|---|---|------------------------------|
| Detailed Overcrowding Category | Occupied Housing Units: 0.50 or Less Occupants Per Room | Occupied Housing Units: 0.51 to 1.00 Occupants Per Room | Occupied Housing Units: 1.01 to 1.50 Occupants Per Room | Occupied Housing Units: 1.51 to 2.00 Occupants Per Room | Occupied Housing Units: 2.01 or More Occupants Per Room | Total Occupied Housing Units |
| Kern County, CA | 144,473 | 100,906 | 17,587 | 5,298 | 2,018 | 270,282 |
| El Paso County, TX | 158,609 | 96,041 | 8,949 | 3,021 | 1,690 | 268,310 |
| Pima County, AZ | 283,488 | 106,590 | 10,085 | 3,472 | 1,104 | 404,739 |
| Polk County, FL | 166,490 | 60,881 | 4,735 | 1,889 | 1,288 | 235,283 |
| Oklahoma County, OK | 213,755 | 79,632 | 6,065 | 1,684 | 434 | 301,570 |
| Bernalillo County, NM | 196,626 | 63,963 | 4,577 | 2,102 | 431 | 267,699 |
| Average Housing Units by Detailed Category | 193,907 | 84,669 | 8,666 | 2,911 | 1,161 | 291,314 |
| Average Housing Units by Simple Category | 278,576 | | 12,738 | | | 291,314 |
| Average Overcrowding Rate by Simple Category | 95.6% | | <u>4.37%</u> | | | |