# **2021** Regional Allocation Formula Methodology

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#### Introduction

Since 2000, the Texas Department of Housing and Community Affairs (TDHCA or the Department) has used a Regional Allocation Formula (RAF) to allocate funding at the regional and subregional level for multifamily and single-family activities. The RAF is required by Tex. Gov't Code §§2306.111 and 2306.1115. It allocates funding for the following programs:

- Multifamily Programs:
  - Housing Tax Credit (HTC) Program
  - HOME Investment Partnerships Program (HOME) Multifamily (MF)
- Single Family Programs:
  - Housing Trust Fund (HTF) Program\*
  - HOME Single Family (SF)

The following methodology explains how the RAF accounts for housing need, housing resource availability, and other factors relevant to the equitable distribution of housing funds in urban and rural areas of the state, as required by statute.

The methodology also includes example allocation spreadsheets for each of the four programs subject to the RAF. These spreadsheets demonstrate how the methodology affects each program. The provided spreadsheets utilize the following total allocation amounts:

| Program            | <b>Example Total Allocation</b> |
|--------------------|---------------------------------|
| HTC                | \$65,000,000                    |
| HOME Multifamily   | \$12,500,000                    |
| HTF                | \$3,000,000                     |
| HOME Single Family | \$15,000,000                    |

These allocation amounts are only examples. Following approval of the RAF Methodology by the TDHCA Governing Board, Program area staff calculate the final allocation amounts according to the most recent information on funding availability. Even when final total allocation amounts are available, other planning considerations may alter the applicability of the RAF. For example, certain HOME SF activities may not release funds subregionally using the RAF. In addition, per Tex. Gov't Code §2306.111(d-1)(3), if HTF funds administered by the Department (and not otherwise set aside) do not exceed \$3 million, then HTF funds are not required to be allocated using the RAF.

The Draft 2021 RAF Methodology was presented at the May 21, 2020 TDHCA Board meeting and approved to be released for public comment. A public comment period was open from Friday, June 5, 2020, through Friday, June 26, 2020, with a public hearing on Tuesday, June 16, 2020. Public comment was received, however no changes were made. The Final 2021 RAF Methodology will be presented for approval at the Board meeting of July 14, 2020.

<sup>\*</sup> The RAF is not required to be utilized for HTF as authorized by Tex. Gov't Code §2306.111(d-1). HTF is funded through state general revenue and is not to be confused with the federally funded National Housing Trust Fund (NHTF).

### **Statutory Requirement**

Tex. Gov't Code §§2306.111 and 2306.1115 require that TDHCA use a formula to allocate funding for the HOME, HTF, and HTC programs.

Tex. Gov't Code §2306.1115 states:

- (a) To allocate housing funds under Section 2306.111(d), the department shall develop a formula that:
- (1) includes as a factor the need for housing assistance and the availability of housing resources in an urban area or rural area;
- (2) provides for allocations that are consistent with applicable federal and state requirements and limitations; and
- (3) includes other factors determined by the department to be relevant to the equitable distribution of housing funds under Section 2306.111(d).
- (b) The department shall use information contained in its annual state low income housing plan and other appropriate data to develop the formula under this section.

The methodology detailed in this document considers the need for housing assistance and the availability of housing in urban and rural areas to meet statutory requirements for the HOME SF, HOME MF, HTF, and HTC programs. The methodology also includes a regional coverage factor for single family programs. This coverage factor utilizes inverse population density to help distribute single family program funding to more rural areas of the state in accordance with the statutory requirements.

#### **Urban and Rural Areas**

Tex. Gov't Code §2306.004 states:

- (28-a) "Rural area" means an area that is located:
- (A) outside the boundaries of a primary metropolitan statistical area or a metropolitan statistical area; or
- (B) within the boundaries of a primary metropolitan statistical area or a metropolitan statistical area, if the statistical area has a population of 25,000 or less and does not share a boundary with an urban area.

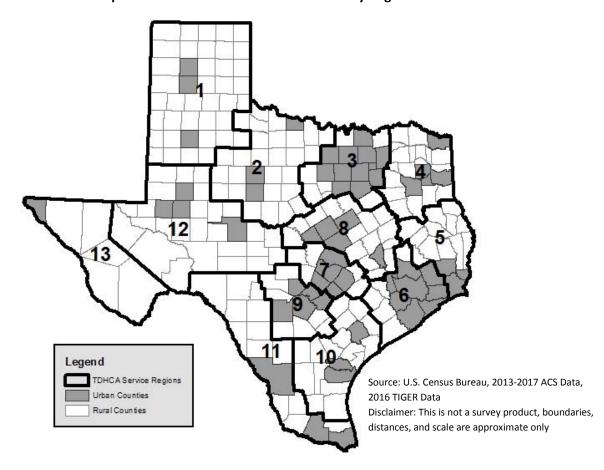
Tex. Gov't Code §2306.004(28-a) is applied to incorporated places and Census Designated Places, as defined by the U.S. Census Bureau, collectively referred to as places. Prior to the development of the RAF each year, the parameters outlined in Tex. Gov't Code are used to determine which places are urban and which are rural. The urban and rural designation for site-specific applications is made at the place level; organizations applying for certain TDHCA-administered funds use the urban and rural place designations to determine which subregional allocation they are eligible to apply for. If a place crosses county or regional boundaries,

the subregional allocation that the place in question is eligible to apply for is determined by the county that contains the majority area and population of the place.

Additionally, the RAF must account for the statewide need and availability of housing. If the RAF only combined data from places, many unincorporated parts of the state would not be included, which would significantly hinder the RAF's utility as an equitable allocation tool. For this reason, the RAF uses county-level data to measure statewide housing need and to calculate subregional allocations. This allows for a more complete picture of the state's demographics in determining allocations.

Even if a county contains a Metropolitan Statistical Area (MSA) per the U.S. Office of Management and Budget (OMB) definitions, it's possible that all the places within that county meet the definition of a rural area per Tex. Gov't Code §2306.004(28-a). Therefore, if an MSA county has no places designated as urban, the need and availability of the whole county will be counted toward the rural allocation (*i.e.*, the MSA county had no places with a population over 25,000 or places touching a boundary of a place with a population over 25,000). The allocation process outlined in this document refers to "MSA counties with urban places" as "urban counties" and "Non-MSA counties and counties with only rural places" as "rural counties." The need and availability of "MSA counties with urban places" directs the allocation toward the urban places, and the need and availability of "Non-MSA counties and counties with only rural places" directs the allocation toward the rural places.

#### Map of Urban and Rural Counties in Texas by Region



### Methodology

For many of the RAF's variables, the Department uses the most recent American Community Survey (ACS) 5-Year Estimate data available. Land area data are not available in the annually released ACS; therefore, decennial census data must be used for the Regional Coverage Factor.

### **Affordable Housing Need**

For the purposes of developing an allocation formula, affordable housing need is measured through variables that apply directly to the assistance provided by TDHCA programs. Despite HTF not currently utilizing the RAF, HTF is included in the RAF methodology description if funding levels or programmatic changes require the RAF to be utilized for this program.

#### **Income**

Income is the primary measurement of eligibility for housing assistance through TDHCA. HOME, HTC, and HTF serve households that earn less than or equal to 80% Area Median Family Income (AMFI). While eligibility for housing assistance is measured by AMFI, the Comprehensive Housing Affordability Strategy (CHAS) datasets that estimate the number of households in each AMFI category lag behind the poverty data included in the ACS by one year. In order to use the most up-to-date data, the RAF will incorporate ACS data for number of individuals at or below 200% of the poverty level to help calculate affordable housing need. Individuals at or below 200% of the poverty level will qualify for a majority of the housing assistance options offered through TDHCA's HOME, HTC, and HTF programs. To ensure that *individuals* in poverty can be comparatively accurate when combined with cost burdened and overcrowded *households* to calculate affordable housing need, the number of individuals at or below 200% poverty in each subregion is divided by the average size of a household in Texas. The number of individuals at or below 200% poverty is included as a variable in all four program RAFs.

#### **Cost Burden and Overcrowding**

Renter and owner need for housing assistance is measured through cost burden and overcrowding conditions. The count of cost burdened renter and owner households used in the RAF measures the number of households in Texas that spend more than 30% of their income on rent or homeowner costs (for homeowners with a mortgage), which is a common measure of unaffordable housing. The count of overcrowded renters and owners measures the number of housing units with more than one person per room, including the kitchen and bathroom. Areas with high cost burden or overcrowding may signify a need for assistance.

Many of TDHCA's programs aim to assist households that are cost-burdened or overcrowded. HTC and HOME MF both offer assistance for reduced-rent apartments. HOME SF offers Tenant-Based Rental Assistance, which pays a portion of a recipient's rent to their landlord. HTF offers the Amy Young Barrier Removal Program, which can serve both renters and homeowners. Therefore, variables representing renters who need assistance are included in the analysis for all four program RAFs.

HOME SF offers homebuyer assistance, home repair assistance, and single family development programs. For home repair, HOME SF offers grants and no-interest loans to homeowners to rehabilitate or reconstruct their homes. For single family development, typically the homes are built by Community Housing Development Organizations (CHDOs) and the homes are purchased by low-income homeowners. HTF offers the Amy Young Barrier Removal Program, which can be used for homeowners and the Bootstrap Loan Program for potential homeowners who use "sweat equity" and low- to no-interest loans to build and secure ownership of their homes. Therefore, variables representing homeowners who need assistance are included in the HOME SF and HTF RAFs.

#### **Lack of Kitchen and Plumbing Facilities**

HOME SF offers homeowner rehabilitation or reconstruction assistance. HTF includes activities for rehabilitation, such as the Amy Young Barrier Removal Program. Since TDHCA programs fund rehabilitation, the RAF includes measures for substandard housing. Common definitions of substandard housing include lack of operable indoor plumbing, usable flush toilets, usable bathtub or shower, safe electricity, safe or adequate source of heat, or kitchen facilities. Data regarding total units lacking kitchen facilities or plumbing are the only data available on both an annual basis and at a county level. The count of occupied and unoccupied units lacking kitchen facilities and the count of occupied and unoccupied units lacking plumbing are utilized in the HOME SF and HTF RAFs.

#### **Summary of Affordable Housing Need for Single Family and Multifamily Activities**

The extent of Texans needing affordable housing is measured using five variables for single family activities:

- 1. Cost burdened renter and owner households;
- 2. Overcrowded renter and owner households;
- 3. Housing units lacking kitchen facilities;
- 4. Housing units lacking plumbing; and
- 5. Individuals at or below 200% of the poverty rate.

The extent of Texans needing affordable housing is measured using three variables for multifamily activities:

- 1. Cost burdened renter households;
- 2. Overcrowded renter households; and
- 3. Individuals at or below 200% of the poverty rate.

#### **Housing Availability**

Housing availability is included to measure where existing housing resources are located. Since this includes both market-rate and subsidized units, the RAF uses vacancies as a common measurement for housing availability. A high number of vacancies may indicate that a market has an adequate or potentially abundant supply of housing. Both vacant units for sale and vacant units for rent will be included in the HOME SF and HTF RAFs, while vacant units for rent alone are included in the HOME MF and HTC RAFs.

### **Regional Coverage Factor**

The RAF uses inverse population density to generate a regional coverage factor. Population density measures the average number of people located in a defined area (i.e. persons per square mile). This is calculated by dividing the number of people in a geographic area by the area of the land in that area. In this way, population density can be used to compare the population size of geographic areas with different dimensions. A high population density means that a geographic area has higher population relative to its available land area. Contrarily, inverse population density measures the amount of land in a geographic area per person in that area (i.e. square miles per person). This is calculated by dividing the land area by the number of people that live in that area. A high inverse population density means that a geographic area has more land area relative to its population size. In this way, high population density generally corresponds to urban regions, while high inverse population generally corresponds to more rural regions.

Inverse population density is included in the HOME SF and HTF RAFs as a Regional Coverage Factor to consider the distance between scattered-site single family activities and the dispersed population within the predominantly rural areas where HOME SF and HTF administrators provide assistance. TDHCA's multifamily programs generally focus development to a single site, so the Regional Coverage Factor is not as pertinent to multifamily program allocation. The Regional Coverage Factor assists in redistributing single family program funding from urban areas to more rural parts of the state. This better aligns funding availability with the statutory requirement that 95% of HOME funds be allocated for the benefit of those areas of the state that do not receive HOME funds directly from the U.S. Department of Housing and Urban Development (HUD), primarily smaller cities and rural areas (per Tex. Gov't Code §2306.111).

### **Summary of Variables**

The following chart shows which need, availability, and other variables are used in the RAF Methodology for each of the four applicable programs.

|                   |   | Multifamil | y Programs | Single Fami | ly Programs |
|-------------------|---|------------|------------|-------------|-------------|
|                   |   | HTC        | HOME MF    | HTF         | HOME SF     |
|                   | Cost Burdened Renter Households         | ✓          | ✓          | ✓           | ✓           |
|                   | Cost Burdened Owner Households          |            |            | ✓           | ✓           |
|                   | Overcrowded Renter Households           | ✓          | ✓          | ✓           | ✓           |
| Need<br>Variables | Overcrowded Owner Households            |            |            | ✓           | ✓           |
| Variables         | Units Lacking Kitchen Facilities        |            |            | ✓           | ✓           |
|                   | Units Lacking Plumbing Facilities       |            |            | ✓           | ✓           |
|                   | Individuals at or Below 200% of Poverty | ✓          | ✓          | ✓           | ✓           |
|                   | Vacant Units for Rent                   | ✓          | ✓          | ✓           | <b>√</b>    |

|                           |                          | Multifamily Programs |         | Single Family Programs |         |
|---------------------------|--------------------------|----------------------|---------|------------------------|---------|
|                           |                          | НТС                  | HOME MF | HTF                    | HOME SF |
| Availability<br>Variables | Vacant Units for Sale    |                      |         | ✓                      | ✓       |
| Other                     | Regional Coverage Factor |                      |         | ✓                      | ✓       |

### **Exceptions to the RAF**

Per Tex. Gov't Code §2306.111, there are certain instances in which the RAF requirement does not apply to HOME MF, HOME SF, HTC, or HTF funds.

#### **Set-Asides**

Specific set-asides will not be subject to the RAF per Tex. Gov't Code §2306.111(d-1), including set-asides for contract-for-deed activities and set-asides mandated by state or federal law, if these set-asides are less than 10% of the total allocation of funds or credits. Set-asides for funds allocated to serve persons with disabilities will not be subject to the RAF. The total amount available through the RAF will not include funds for at-risk developments for the HTC Program or other statutorily created set-asides. Also pursuant to Tex. Gov't Code §2306.111(d-1), programmed activities for HTF that do not exceed \$3 million are not subject to the RAF. It is due to these exceptions that the HTF funds, as currently programmed, do not utilize the RAF.

In addition, per Tex. Gov't Code §2306.111(c)(2), 5% of State HOME funds must be spent on activities that serve persons with disabilities in any area of the State. This portion of HOME is not subject to the RAF because it is set-aside for persons with disabilities.

In Tex. Gov't Code §2306.111(d-2), 5% of HTC funds must be allocated to developments that receive federal assistance through USDA. Any developments that receive federal assistance through USDA and HTC for rehabilitation may compete for funding separately under the "USDA Set-Aside." This funding is taken from the total tax credit ceiling prior to applying the RAF.

#### **Participating Jurisdictions (PJs)**

PJs refer to geographic areas that are under the jurisdiction of local government entities that receive HOME funding directly from HUD. In accordance with Tex. Gov't Code §§2306.111(c)(1), 95% of the funds for HOME must be spent outside PJs. Since 95% of funds cannot be spent within a PJ, the housing need factors, housing availability factors, and Regional Coverage Factor in the PJs are not counted in the HOME MF or HOME SF RAF.

PJ designations are subject to change annually depending on HUD funding. According to HUD's 2019 HOME allocation, 33 of the PJs are cities and eight of the PJs are counties. Five PJ cities fell completely within PJ counties, resulting in a total of 28 PJ cities and eight PJ counties that will be subtracted from the HOME SF and HOME ME RAEs.

#### **Allocation Adjustments**

The HOME SF and HTC RAFs have subregional allocation adjustments under certain conditions. Tex. Gov't Code §2306.111(d-3) requires that at least \$500,000 in housing tax credits be allocated to each urban and rural subregion. In the HTC Program's 2019 Qualified Allocation Plan (QAP), the Department adopted an increase to the \$500,000 figure establishing a \$600,000 minimum for each region. In a further effort to meet Tex. Gov't Code §§2306.111(c)(1) and (2), the HOME SF RAF has a minimum subregional allocation of \$100,000. Additional detail regarding the processes used to adjust allocations for the HOME SF RAF and the HTC RAF can be found in the single family and multifamily RAF examples.

# **Single Family RAF Example**

Tables 1, 2, and 3 show the need variables, availability variables, and regional coverage factor used in the HOME SF RAF. The HTF RAF is very similar to the HOME SF RAF with the exception that the HTF RAF includes PJs. Example numbers are used for clarity. The statewide average household size in the following example is 2.82.

Table 1: Example of Need Variables Used for HOME SF, by Subregion

|                            | Region  | Column A:<br>Individuals at or<br>below 200%<br>Poverty without PJs   | Column B:<br>Households (HH) at<br>or below 200%<br>Poverty without PJs  | Column C: Cost<br>Burdened<br>Owners<br>without PJs  | Column D: Cost<br>Burdened<br>Renters<br>without PJs  | Column E:<br>Overcrowded<br>Owners<br>without PJs   | Column F:<br>Overcrowded<br>Renters<br>without PJs   | Column G:<br>Units Lacking<br>Plumbing<br>without PJs   | Column H:<br>Units Lacking<br>Kitchen<br>without PJs  | Column I:<br>Total Need<br>Variables   |
|----------------------------|---|---|--|--|---|---|--|---|---|--|
| ces                        | 1   | 150,000   | 53,191   | 1,500  | 15,000  | 3,000   | 2,000  | 4,000   | 6,000   | 84,691   |
| Pla                        | 2   | 100,000   | 35,461   | 2,500  | 16,000  | 3,500   | 2,500  | 3,000   | 5,000   | 67,961   |
| ban                        | 3   | 150,000   | 53,191   | 1,500  | 15,000  | 3,000   | 2,000  | 4,000   | 6,000   | 84,691   |
| Ž                          | 4   | 100,000   | 35,461   | 2,500  | 16,000  | 3,500   | 2,500  | 3,000   | 5,000   | 67,961   |
| Counties with Urban Places | 5   | 150,000   | 53,191   | 1,500  | 15,000  | 3,000   | 2,000  | 4,000   | 6,000   | 84,691   |
| es v                       | 6   | 100,000   | 35,461   | 2,500  | 16,000  | 3,500   | 2,500  | 3,000   | 5,000   | 67,961   |
| ır                         | 7   | 150,000   | 53,191   | 1,500  | 15,000  | 3,000   | 2,000  | 4,000   | 6,000   | 84,691   |
|                            | 8   | 100,000   | 35,461   | 2,500  | 16,000  | 3,500   | 2,500  | 3,000   | 5,000   | 67,961   |
| MSA                        | 9   | 150,000   | 53,191   | 1,500  | 15,000  | 3,000   | 2,000  | 4,000   | 6,000   | 84,691   |
| ≥                          | 10  | 100,000   | 35,461   | 2,500  | 16,000  | 3,500   | 2,500  | 3,000   | 5,000   | 67,961   |
|                            | 11  | 150,000   | 53,191   | 1,500  | 15,000  | 3,000   | 2,000  | 4,000   | 6,000   | 84,691   |
|                            | 12  | 100,000   | 35,461   | 2,500  | 16,000  | 3,500   | 2,500  | 3,000   | 5,000   | 67,961   |
|                            | 13  | 150,000   | 53,191   | 1,500  | 15,000  | 3,000   | 2,000  | 4,000   | 6,000   | 84,691   |
|                            |   | Column A:   | Column B: HH at or   | Column C: Cost   | Column D: Cost  | Column E:   | Column F:  | Column G:   | Column H:   | Column I:  |
| ly rural                   | Region  | Individuals at or<br>below 200%<br>Poverty without PJs  | below 200%<br>Poverty without PJs  | Burdened<br>Owners<br>without PJs  | Burdened<br>Renters<br>without PJs  | Overcrowded<br>Owners<br>without PJs  | Overcrowded<br>Renters<br>without PJs  | Units Lacking<br>Plumbing<br>without PJs  | Units Lacking<br>Kitchen<br>without PJs   | Total Need<br>Variables  |
| only rural                 | Region 1  |   | below 200%   | Owners   | Renters   | Owners  | Renters  | Plumbing  | Kitchen   | Total Need   |
| with only rural            |   | below 200%<br>Poverty without PJs   | below 200%<br>Poverty without PJs  | Owners<br>without PJs  | Renters<br>without PJs  | Owners<br>without PJs   | Renters<br>without PJs   | Plumbing without PJs  | Kitchen<br>without PJs  | Total Need<br>Variables  |
| with                       | 1   | below 200%<br>Poverty without PJs<br>80,000   | below 200%<br>Poverty without PJs<br>28,369  | Owners<br>without PJs<br>6,000   | Renters<br>without PJs<br>8,000   | Owners<br>without PJs<br>2,000  | Renters<br>without PJs<br>2,000  | Plumbing<br>without PJs<br>5,000  | Kitchen<br>without PJs<br>5,000   | Total Need<br>Variables<br>56,369  |
| with                       | 1 2   | below 200%<br>Poverty without PJs<br>80,000<br>60,000   | below 200%<br>Poverty without PJs<br>28,369<br>21,277  | Owners<br>without PJs<br>6,000<br>9,000  | Renters<br>without PJs<br>8,000<br>5,000  | Owners<br>without PJs<br>2,000<br>1,000   | Renters<br>without PJs<br>2,000<br>1,000   | Plumbing<br>without PJs<br>5,000<br>7,000   | Kitchen<br>without PJs<br>5,000<br>7,000  | Total Need<br>Variables<br>56,369<br>51,277  |
| counties with              | 1 2 3   | below 200%<br>Poverty without PJs<br>80,000<br>60,000<br>80,000   | below 200%<br>Poverty without PJs<br>28,369<br>21,277<br>28,369  | Owners<br>without PJs<br>6,000<br>9,000<br>6,000   | Renters<br>without PJs<br>8,000<br>5,000<br>8,000   | Owners<br>without PJs<br>2,000<br>1,000<br>2,000  | Renters<br>without PJs<br>2,000<br>1,000<br>2,000  | Plumbing<br>without PJs<br>5,000<br>7,000<br>5,000  | Kitchen<br>without PJs<br>5,000<br>7,000<br>5,000   | Total Need<br>Variables<br>56,369<br>51,277<br>56,369  |
| counties with              | 1<br>2<br>3<br>4                                      | below 200% Poverty without PJs 80,000 60,000 80,000 60,000  | below 200%<br>Poverty without PJs<br>28,369<br>21,277<br>28,369<br>21,277  | Owners<br>without PJs<br>6,000<br>9,000<br>6,000<br>9,000  | Renters<br>without PJs<br>8,000<br>5,000<br>8,000<br>5,000  | Owners<br>without PJs<br>2,000<br>1,000<br>2,000<br>1,000   | Renters<br>without PJs<br>2,000<br>1,000<br>2,000<br>1,000   | Plumbing<br>without PJs<br>5,000<br>7,000<br>5,000<br>7,000   | Kitchen<br>without PJs<br>5,000<br>7,000<br>5,000<br>7,000  | Total Need<br>Variables<br>56,369<br>51,277<br>56,369<br>51,277  |
| and counties with          | 1<br>2<br>3<br>4<br>5                                 | below 200% Poverty without PJs 80,000 60,000 80,000 60,000 80,000   | below 200%<br>Poverty without PJs<br>28,369<br>21,277<br>28,369<br>21,277<br>28,369  | Owners<br>without PJs<br>6,000<br>9,000<br>6,000<br>9,000<br>6,000                               | Renters<br>without PJs<br>8,000<br>5,000<br>8,000<br>5,000<br>8,000   | Owners without PJs 2,000 1,000 2,000 1,000 2,000 2,000  | Renters<br>without PJs<br>2,000<br>1,000<br>2,000<br>1,000<br>2,000  | Plumbing<br>without PJs<br>5,000<br>7,000<br>5,000<br>7,000<br>5,000  | Kitchen<br>without PJs<br>5,000<br>7,000<br>5,000<br>7,000<br>5,000   | Total Need<br>Variables<br>56,369<br>51,277<br>56,369<br>51,277<br>56,369  |
| and counties with          | 1<br>2<br>3<br>4<br>5<br>6                            | below 200% Poverty without PJs 80,000 60,000 80,000 60,000 80,000 60,000  | below 200% Poverty without PJs  28,369 21,277 28,369 21,277 28,369 21,277  | Owners<br>without PJs<br>6,000<br>9,000<br>6,000<br>9,000<br>6,000<br>9,000                      | Renters<br>without PJs<br>8,000<br>5,000<br>8,000<br>5,000<br>8,000<br>5,000  | Owners without PJs 2,000 1,000 2,000 1,000 2,000 1,000 2,000 1,000  | Renters<br>without PJs<br>2,000<br>1,000<br>2,000<br>1,000<br>2,000<br>1,000   | Plumbing without PJs 5,000 7,000 5,000 7,000 5,000 7,000 7,000  | Kitchen without PJs 5,000 7,000 5,000 7,000 5,000 7,000 7,000   | Total Need<br>Variables  56,369  51,277  56,369  51,277  56,369  51,277  |
| counties and counties with | 1<br>2<br>3<br>4<br>5<br>6<br>7                       | below 200% Poverty without PJs 80,000 60,000 80,000 60,000 80,000 60,000 80,000   | below 200% Poverty without PJs  28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369   | Owners<br>without PJs<br>6,000<br>9,000<br>6,000<br>9,000<br>6,000<br>9,000<br>6,000             | Renters<br>without PJs<br>8,000<br>5,000<br>8,000<br>5,000<br>8,000<br>5,000<br>8,000   | Owners without PJs 2,000 1,000 2,000 1,000 2,000 1,000 2,000 1,000 2,000  | Renters<br>without PJs<br>2,000<br>1,000<br>2,000<br>1,000<br>2,000<br>1,000<br>2,000  | Plumbing without PJs 5,000 7,000 5,000 7,000 5,000 7,000 5,000 5,000 5,000  | Kitchen without PJs 5,000 7,000 5,000 7,000 5,000 7,000 5,000 5,000 5,000   | Total Need<br>Variables<br>56,369<br>51,277<br>56,369<br>51,277<br>56,369<br>51,277<br>56,369                        |
| counties and counties with | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9             | below 200% Poverty without PJs 80,000 60,000 80,000 80,000 60,000 80,000 60,000   | below 200% Poverty without PJs  28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277                      | Owners without PJs 6,000 9,000 6,000 9,000 6,000 9,000 6,000 9,000 6,000 9,000 6,000             | Renters<br>without PJs<br>8,000<br>5,000<br>8,000<br>5,000<br>8,000<br>5,000<br>8,000<br>5,000                                      | Owners without PJs  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000                                    | Renters<br>without PJs<br>2,000<br>1,000<br>2,000<br>1,000<br>2,000<br>1,000<br>2,000<br>1,000                               | Plumbing without PJs 5,000 7,000 5,000 7,000 5,000 7,000 5,000 7,000 5,000 7,000  | Kitchen without PJs 5,000 7,000 5,000 7,000 5,000 7,000 5,000 7,000 5,000 7,000 5,000 7,000   | Total Need Variables  56,369  51,277  56,369  51,277  56,369  51,277  56,369  51,277                                 |
| counties and counties with | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10       | below 200% Poverty without PJs  80,000  60,000  80,000  80,000  60,000  80,000  60,000  80,000  80,000  80,000  80,000    | below 200% Poverty without PJs  28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 | Owners without PJs 6,000 9,000 6,000 9,000 6,000 9,000 6,000 9,000 6,000 9,000 6,000 9,000 6,000 | Renters without PJs  8,000  5,000  8,000  5,000  8,000  5,000  8,000  5,000  8,000  5,000  8,000  8,000  5,000  8,000  8,000        | Owners without PJs  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  2,000  1,000  2,000        | Renters without PJs  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  2,000  2,000  2,000  2,000 | Plumbing without PJs  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  5,000        | Kitchen without PJs  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  5,000  7,000  5,000 | Total Need Variables  56,369  51,277  56,369  51,277  56,369  51,277  56,369  51,277  56,369                         |
| and counties with          | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11 | below 200% Poverty without PJs  80,000  60,000  80,000  80,000  60,000  80,000  80,000  60,000  80,000  60,000            | below 200% Poverty without PJs  28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277                      | Owners without PJs 6,000 9,000 6,000 9,000 6,000 9,000 6,000 9,000 6,000 9,000 6,000             | Renters without PJs  8,000  5,000  8,000  5,000  8,000  5,000  8,000  5,000  8,000  5,000  5,000                                    | Owners without PJs  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000                      | Renters without PJs  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000                      | Plumbing without PJs  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000                      | Kitchen without PJs 5,000 7,000 5,000 7,000 5,000 7,000 5,000 7,000 5,000 7,000 5,000 7,000   | Total Need Variables  56,369  51,277  56,369  51,277  56,369  51,277  56,369  51,277  56,369  51,277                 |
| counties and counties with | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10       | below 200% Poverty without PJs  80,000  60,000  80,000  80,000  60,000  80,000  60,000  80,000  80,000  80,000  80,000    | below 200% Poverty without PJs  28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 | Owners without PJs 6,000 9,000 6,000 9,000 6,000 9,000 6,000 9,000 6,000 9,000 6,000 9,000 6,000 | Renters without PJs  8,000  5,000  8,000  5,000  8,000  5,000  8,000  5,000  8,000  5,000  8,000  8,000  5,000  8,000  8,000        | Owners without PJs  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  2,000  1,000  2,000        | Renters without PJs  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  2,000  2,000  2,000  2,000 | Plumbing without PJs  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  5,000        | Kitchen without PJs  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  5,000  7,000  5,000 | Total Need Variables  56,369  51,277  56,369  51,277  56,369  51,277  56,369  51,277  56,369  51,277  56,369         |
| counties and counties with | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11 | below 200% Poverty without PJs 80,000 60,000 80,000 80,000 60,000 80,000 60,000 80,000 80,000 60,000 80,000 60,000 60,000 | below 200% Poverty without PJs  28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277 28,369 21,277        | Owners without PJs 6,000 9,000 6,000 9,000 6,000 9,000 6,000 9,000 6,000 9,000 6,000 9,000 6,000 | Renters without PJs  8,000  5,000  8,000  5,000  8,000  5,000  8,000  5,000  8,000  5,000  8,000  5,000  8,000  5,000  8,000  5,000 | Owners without PJs  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  1,000  2,000  1,000 | Renters without PJs  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  2,000  1,000  1,000  2,000  1,000 | Plumbing without PJs  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  7,000 | Kitchen without PJs  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  5,000  7,000  7,000  7,000  7,000        | Total Need Variables  56,369  51,277  56,369  51,277  56,369  51,277  56,369  51,277  56,369  51,277  56,369  51,277 |

Table 2: Example of Availability Variables Used for HOME SF, by Subregion

Column K: Column L: Total Column J: **Vacant Units For Availability** Region **Vacant Units For** Sale without PJs **Rent without PJs Variables** MSA Counties with urban places 3,500 1 1,500 2,000 3,000 2 1,000 4,000 3 1,500 2,000 3,500 4,000 4 1,000 3,000 5 1,500 2,000 3,500 6 1,000 3,000 4,000 7 1,500 2,000 3,500 8 1,000 3,000 4,000 9 1,500 2,000 3,500 10 4,000 1,000 3,000 11 1,500 2,000 3,500 12 1,000 4,000 3,000 13 1,500 2,000 3,500

|           |        | Column J:        | Column K:        | Column L: Total |  |
|-----------|--------|------------------|------------------|-----------------|--|
| ارد       | Region | Vacant Units For | Vacant Units For | Availability    |  |
| 10 (      |        | Sale without PJs | Rent without PJs | Variables       |  |
| with only | 1      | 1,500            | 2,000            | 3,500           |  |
| N Si      | 2      | 2,000            | 2,500            | 4,500           |  |
| ığı       | 3      | 1,500            | 2,000            | 3,500           |  |
| counties  | 4      | 2,000            | 2,500            | 4,500           |  |
| and c     | 5      | 1,500            | 2,000            | 3,500           |  |
| _ a       | 6      | 2,000            | 2,500            | 4,500           |  |
| counties  | 7      | 1,500            | 2,000            | 3,500           |  |
| l E       | 8      | 2,000            | 2,500            | 4,500           |  |
|           | 9      | 1,500            | 2,000            | 3,500           |  |
| VS/       | 10     | 2,000            | 2,500            | 4,500           |  |
| Non-MSA   | 11     | 1,500            | 2,000            | 3,500           |  |
| 2         | 12     | 2,000            | 2,500            | 4,500           |  |
|           | 13     | 1,500            | 2,000            | 3,500           |  |

|             | Column J Total | Column K Total | Column L Total |
|-------------|----------------|----------------|----------------|
| State Total | 39,000         | 61,000         | 100,000        |

Table 3: Example of Regional Coverage Factor used for HOME SF, by Subregion

|                         | Region | Column M: Land area without PJs | Column N: Total Population without PJs | Column O:<br>Regional<br>Coverage Factor |
|-------------------------|--------|---------------------------------|--|--|
| places                  | 1      | 3,000                           | 350,000                                | 0.009                                    |
| ם                       | 2      | 2,000                           | 250,000                                | 0.008                                    |
| an                      | 3      | 3,000                           | 350,000                                | 0.009                                    |
| MSA Counties with urban | 4      | 2,000                           | 250,000                                | 0.008                                    |
| 댪                       | 5      | 3,000                           | 350,000                                | 0.009                                    |
| 8                       | 6      | 2,000                           | 250,000                                | 0.008                                    |
| tie                     | 7      | 3,000                           | 350,000                                | 0.009                                    |
| n n                     | 8      | 2,000                           | 250,000                                | 0.008                                    |
| Ö                       | 9      | 3,000                           | 350,000                                | 0.009                                    |
| VSV                     | 10     | 2,000                           | 250,000                                | 0.008                                    |
| <                       | 11     | 3,000                           | 350,000                                | 0.009                                    |
|                         | 12     | 2,000                           | 250,000                                | 0.008                                    |
|                         | 13     | 3,000                           | 350,000                                | 0.009                                    |

|                                     |        | Column M: Land   | Column N: Total | Column O:       |
|-------------------------------------|--------|------------------|-----------------|-----------------|
| ار ا                                | Region | area without PJs | Population      | Regional        |
| 10 (                                |        | area without FJS | without PJs     | Coverage Factor |
| vit                                 | 1      | 15,000           | 200,000         | 0.075           |
| v S                                 | 2      | 13,000           | 300,000         | 0.043           |
| ntie                                | 3      | 15,000           | 200,000         | 0.075           |
| and counties with only<br>Il places | 4      | 13,000           | 300,000         | 0.043           |
| nd c<br>plac                        | 5      | 15,000           | 200,000         | 0.075           |
| s ar<br>al p                        | 6      | 13,000           | 300,000         | 0.043           |
| ties aı<br>rural                    | 7      | 15,000           | 200,000         | 0.075           |
| n                                   | 8      | 13,000           | 300,000         | 0.043           |
| 00 4                                | 9      | 15,000           | 200,000         | 0.075           |
| /SV                                 | 10     | 13,000           | 300,000         | 0.043           |
| Non-MSA counties<br>rura            | 11     | 15,000           | 200,000         | 0.075           |
| 9                                   | 12     | 13,000           | 300,000         | 0.043           |
|                                     | 13     | 15,000           | 200,000         | 0.075           |

|             | Column M Total | Column N Total | Column O Total |
|-------------|----------------|----------------|----------------|
| State Total | 216,000        | 7,150,000      | 0.893          |

### **Compounded Need**

To allocate funds, the RAF uses each subregion's ratios of the State's total. All of the variables that measure need are added together before taking each subregion's need as a percentage of the amount of total need in the State. Table 1, Column I, illustrates how the Total Need Variables are derived: households at 200% of poverty, cost burdened owner and renter households, overcrowded owner and renter households, units lacking kitchen facilities, and units lacking plumbing facilities are added together, thereby compounding the need.

This compounding balances the relative importance of the variables; variables with very high or very small numbers are combined with the overall total of need. This prevents variables from being disproportionately weighted.

#### Weights

Examples of how the weights operate in the RAF are in Tables 4 and 5. The column header letters (A, B, C, etc.) will build off the previous table. If column letters are not in alphabetical order, the column header letter refers to a previous table. To apply weights, first the subregional percentage (the subregional share of statewide need), housing availability, and inverse population density must be calculated. Table 4 demonstrates how the percentages are derived. Table 4 shows only Urban Region 1 and the statewide total in order to simplify the example.

Column I: Column P: Column L: Total Column Q: Column O: Column R: Percent of Percent of State's **Total Need Availability** Percent of State's Regional **State's Total Regional** Area **Variables Total Need Variables Total Availability Coverage Factor Coverage Factor** Urban Region 1 84,691 5.0% 3,500 3.5% 0.009 1.0% State Total 1,702,848 100,000 0.893

Table 4: Percentages Taken

Note: Column I is from Table 1, Column L is from Table 2, and Column O is from Table 3.

A successful allocation formula will provide more funding for areas with high housing need and reduce funding for areas with an abundance of housing resources. Housing availability variables have negative weight to reflect that an abundance of available units might reduce the need for assistance. The housing need variables and the regional coverage factor have positive weights to reflect that these factors may increase the need for assistance. Renter and owner components of a single need or availability category added together, as they represent one variable for the purposes of weighting the variables. The weight of each variable, whether need, availability, or regional coverage factor, must equal 100%; otherwise, the initial subregion allocation will not add up to the total example allocation. The formulas to determine variable weight for the Single Family RAF are as follows:

- Total Need Variables = HH at or below 200% poverty + Cost Burden + Overcrowding + Units Lacking Plumbing + Units Lacking Kitchen
- Total Availability Variables = Unoccupied Units for Sale or Rent
- Regional Coverage Factor = Inverse Population Density
- Total Need Variables Total Availability Variables + Regional Coverage Factor = 100%

To put it simply (with x representing the weight of each variable): 5x-x+x=100%

As a result, each variable is weighted at 20% for Single Family programs, giving the appropriate relationship between funding and current availability of resources. The compounded need variables receive 100% weight. Table 5 shows the application of the weights based on a hypothetical statewide availability of \$2,500,000.

Table 5: Weight Application

| Area           | Column P:<br>Percent of<br>State's<br>Total Need | Column S:<br>Weight of<br>Need<br>Variables | Column T:<br>Need<br>Variable<br>Allocation* | Column Q:<br>Percent of<br>State's Total<br>Availability | Column U:<br>Weight of<br>Availability<br>Variable | Column V:<br>Availability<br>Variable<br>Allocation~ | Column R:<br>Percent of State's<br>Total Regional<br>Coverage Factor | Column W:<br>Weight of<br>Regional<br>Coverage<br>Factor | Column X: Regional Coverage Factor Allocation^ | Column Y:<br>Total<br>Allocation |
|----------------|--|---|--|--|--|--|--|--|--|----------------------------------|
| Urban Region 1 | 5.0%   | 100%  | \$ 124,338                                   | 3.5%   | -20%   | \$ (17,500)  | 1.0%   | 20%  | \$4,799  | \$ 111,637                       |

Note: Column P, Q and R taken from Table 4.

### **HOME Subregional Allocation Adjustment**

The HOME SF RAF has a subregional floor. This floor ensures sufficient funding to award at least one contract in each subregion. If the RAF results in a subregional funding amount that is less than \$100,000, that subregion's funding amount is adjusted to provide for at least a minimum of \$100,000. The process does not reallocate funds from subregions with initial funding amounts in excess of \$100,000 to those subregions with initial funding amounts that are less than \$100,000. Funds used to enable the floor are not subject to RAF requirements and are added as a final adjustment to the subregional allocation amounts available for award. The final adjustment adds a supplemental allocation to bring all subregions to a minimum of \$100,000. The process is complete when each subregion has at least \$100,000.

Table 6 shows the process of supplementing funds to subregions that have initial funding amounts that are less than \$100,000. This table builds from the previous tables included in this methodology and Urban Regions 1 and 2 are included. The column header letters build off previous tables, so if the letters are not in alphabetical order, the column letter refers to previous tables.

Table 6: Subregion amount under \$100,000

| Area           | Column Y: Initial Subregion amount | Column Z: Amount needed to reach \$100,000 | Column AA: Final Subregion Allocation |
|----------------|------------------------------------|--|---------------------------------------|
| Urban Region 1 | \$111,637                          | \$-  | \$111,637                             |
| Urban Region 2 | \$84,255                           | \$15,745                                   | \$100,000                             |

Note: Column Y is from Table 5.

Since the Urban Region 1 initial Subregion amount exceeds \$100,000, no adjustment is made to this sub-allocation. However, because the Urban Region 2 initial Subregion amount is less than \$100,000, a supplemental allocation amount is added to bring the subregion allocation up to the final allocation amount of \$100,000.

<sup>\*</sup>Column T is calculated as follows: Column P x Column S x statewide availability of funds.

<sup>~</sup>Column V is calculated as follows: Column Q x Column U x statewide availability of funds.

<sup>^</sup> Column X is calculated as follows: Column W x Column R x statewide availability of funds.

<sup>&</sup>lt;sup>+</sup>Column Y is calculated as follows: Column T + Column V + Column X.

# **Multifamily RAF Example**

Table 7 shows the need and availability variables used in the HTC RAF. The HTC RAF is very similar to the HOME MF RAF with the exception that the HTC RAF includes PJs. Example numbers are used for clarity. The statewide average household size in the following example is 2.80.

Table 7: Example of Need and Availability Variables used for HTC, by Subregion

|                   | Region | Column BB:<br>Individuals at or<br>below 200% Poverty | Column CC: HH<br>at or below<br>200% Poverty | Column DD: Cost<br>Burdened Renters | Column EE:<br>Overcrowded<br>Renters | Column FF:<br>Vacant Units<br>for Rent |
|-------------------|--------|---|--|-------------------------------------|--------------------------------------|--|
| S                 | 1      | 150,000   | 53,571                                       | 25,000                              | 4,000                                | 6,000                                  |
| ace               | 2      | 100,000   | 35,714                                       | 20,000                              | 2,000                                | 4,000                                  |
| lg n              | 3      | 150,000   | 53,571                                       | 25,000                              | 4,000                                | 6,000                                  |
| rba               | 4      | 100,000   | 35,714                                       | 20,000                              | 2,000                                | 4,000                                  |
| with urban places | 5      | 150,000   | 53,571                                       | 25,000                              | 4,000                                | 6,000                                  |
| .w                | 6      | 100,000   | 35,714                                       | 20,000                              | 2,000                                | 4,000                                  |
| Counties          | 7      | 150,000   | 53,571                                       | 25,000                              | 4,000                                | 6,000                                  |
| our               | 8      | 100,000   | 35,714                                       | 20,000                              | 2,000                                | 4,000                                  |
| A C               | 9      | 150,000   | 53,571                                       | 25,000                              | 4,000                                | 6,000                                  |
| MSA               | 10     | 100,000   | 35,714                                       | 20,000                              | 2,000                                | 4,000                                  |
|                   | 11     | 150,000   | 53,571                                       | 25,000                              | 4,000                                | 6,000                                  |
|                   | 12     | 100,000   | 35,714                                       | 20,000                              | 2,000                                | 4,000                                  |
|                   | 13     | 150,000   | 53,571                                       | 25,000                              | 4,000                                | 6,000                                  |

| counties with only rural<br>ces | Region | Column BB:<br>Individuals at or<br>below 200% Poverty | Column CC: HH<br>at or below<br>200% Poverty | Column DD: Cost<br>Burdened Renters | Column EE:<br>Overcrowded<br>Renters | Column FF:<br>Vacant Units for<br>Rent |
|---------------------------------|--------|---|--|-------------------------------------|--------------------------------------|--|
| n<br>Z                          | 1      | 40,000  | 14,286                                       | 7,000                               | 700                                  | 700                                    |
| l ho                            | 2      | 25,000  | 8,929  | 2,000                               | 400                                  | 500                                    |
| , Š                             | 3      | 40,000  | 14,286                                       | 7,000                               | 700                                  | 700                                    |
| ties                            | 4      | 25,000  | 8,929  | 2,000                               | 400                                  | 500                                    |
| cour                            | 5      | 40,000  | 14,286                                       | 7,000                               | 700                                  | 700                                    |
| and c                           | 6      | 25,000  | 8,929  | 2,000                               | 400                                  | 500                                    |
| _ a                             | 7      | 40,000  | 14,286                                       | 7,000                               | 700                                  | 700                                    |
| counties                        | 8      | 25,000  | 8,929  | 2,000                               | 400                                  | 500                                    |
| noo                             | 9      | 40,000  | 14,286                                       | 7,000                               | 700                                  | 700                                    |
| ISA                             | 10     | 25,000  | 8,929  | 2,000                               | 400                                  | 500                                    |
| Non-MSA                         | 11     | 40,000  | 14,286                                       | 7,000                               | 700                                  | 700                                    |
| Ž                               | 12     | 25,000  | 8,929  | 2,000                               | 400                                  | 500                                    |
|                                 | 13     | 40,000  | 14,286                                       | 7,000                               | 700                                  | 700                                    |

|             | Column BB Total | Column CC Total | Column DD Total | Column EE Total | Column FF Total |
|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| State Total | 2,080,000       | 742,857         | 356,000         | 47,300          | 73,900          |

### **Compounded Need**

To allocate funds, the RAF uses each subregion's ratio of the State's total. All of the variables that measure need are added together before taking each subregion's need as a percentage of the amount of the total need in the State. Table 8 illustrates how the Total Need Variables are derived: households at or below 200% of poverty, cost burdened renter households, and overcrowded renter households are added together, thereby compounding the need. Table 8 shows only Urban Region 1 and the statewide total, in order to simplify the example.

Column CC: HH Column DD: Column EE: Column GG: Area at or below **Cost Burdened** Overcrowded **Total Need** 200% Poverty Renters Renters **Variables** Urban Region 1 53,571 25,000 4,000 82,571 State Total 742,857 356,000 47,300 1,146,157

Table 8: Total Need Variables

Note: Columns CC, DD and EE are from Table 7.

This compounding balances the relative importance of the variables; variables with very high or very small numbers are combined with the overall total of need. This prevents variables from being disproportionately weighted.

### Weights

Examples of how the weights work in the RAF are in Tables 9 and 10. If the letters are not in alphabetical order, the column header letter refers to a previous table.

In order to apply weights, first the subregional percentage availability, and inverse population density must be calculated. Table 9 demonstrates how the percentages are derived.

Column GG: Column HH: Column II: Column JJ: Percent **Total Need** Percent of State's **Vacant Units** of State's Total Area Variables **Total Need** for Rent Availability **Urban Region 1** 82,571 7.2% 6,000 8.1% State Total 1,146,157 73,900

Table 9: Percentages Taken

Note: Column GG is from Table 8.

A successful allocation formula will provide more funding for areas with high housing need and reduce funding for areas with an abundance of housing resources. The housing availability variable has negative weight to reflect that an abundance of available units might reduce the need for assistance, while housing need variables have positive weight to reflect that these factors may increase the need for assistance. Renter and owner components of a single need or availability category are added together, as they represent one variable for the purposes of weighting the variables. The weight of each variable, whether need, availability, or regional coverage factor, must equal 100%; otherwise, the initial subregion allocation will not add up to

the total example allocation. The formulas to determine variable weight for the Multifamily RAF are as follows:

- Total Need Variables = HH at or below 200% poverty + Renter Cost Burden + Renter Overcrowding
- Availability Variable = Unoccupied Units for Rent
- Total Need Variables Availability Variable = 100%

Simply stated (with x representing the weight of each variable): 3x-x=100%

As a result, each variable is weighted at 50% for multifamily programs, giving the appropriate relationship between funding and current availability of resources. The compounded need variables receive 150% weight. Table 10 shows the application of the weights based on a statewide availability of \$40,000,000.

| Area           | Column HH:<br>Percent of<br>State's Total<br>Need | Column<br>KK: Weight<br>of Need<br>Variables | Column LL:<br>Need<br>Variable<br>Allocation* | Column JJ:<br>Percent of<br>State's Total<br>Availability | Column MM:<br>Weight of<br>Availability<br>Variable | Column NN:<br>Availability<br>Variable<br>Allocation~ | Column OO:<br>Total<br>Allocation* |
|----------------|---|--|---|---|---|---|------------------------------------|
| Urban Region 1 | 7.2%  | 150%   | \$ 4,322,519                                  | 8.1%  | -50%  | \$ (1,623,816)  | \$ 2,698,703                       |

Table 10: Weight Application

Note: Column HH and JJ taken from Table 9.

### **HTC Subregional Allocation Adjustment**

Tex. Gov't Code §2306.111(d-3) is a requirement regarding funding and the RAF that applies only to HTC. This provision requires that TDHCA allocate at least 20% of housing tax credits to rural areas and that \$500,000 or more be available for each of the 26 subregions. In the 2019 QAP the Department adopted an increase to the \$500,000 figure establishing a \$600,000 minimum for each region. The overall state rural allocation of funds is ensured to satisfy the minimum of 20% of the credit ceiling amount in rural areas by making any needed adjustments at the time of award, if needed. Usually, the 20% allocation to rural areas occurs through the competitive process, but, if not, one or more applications from rural areas will be awarded from the statewide collapse of the RAF to ensure the requirement is met.

For the HTC RAF, the subregional funding amount is adjusted to a minimum of \$600,000 if needed. This is a final adjustment to the subregional allocation amounts available for award. The process proportionately takes funds from subregions with initial funding amounts in excess of \$600,000 and reallocates those funds to those subregions with initial funding amounts that are less than \$600,000. The process is complete when each subregion has at least \$600,000.

Tables 11 and 12 show the process of determining the amount to adjust from subregions with more than \$600,000. These tables build from the previous tables included in this methodology and Urban Region 1 and 2 and Rural Region 1 and 2 are included. The column header letters build off previous tables, so if the letters are not in alphabetical order, the column letter refers to previous tables.

<sup>\*</sup>Column LL is calculated as follows: Column HH x Column KK x statewide availability of funds.

<sup>~</sup>Column NN is calculated as follows: Column JJ x Column MM x statewide availability of funds.

<sup>\*</sup>Column OO is calculated as follows: Column LL + Column NN.

These four subregions are examined because the most common movement for funds during the \$600,000 adjustment is from Urban Counties to Rural Counties. The first step in the \$600,000 adjustment process is to determine the amount by which each subregion is over or under \$600,000 for each subregion. This is illustrated in Table 11.

Table 11: Subregional amount over/under \$600,000

| Area           | Column OO: Initial Subregion amount | Column PP: Amount needed to reach \$600,000 | Column QQ: Amount over \$600,000 that can be reallocated |
|----------------|-------------------------------------|---|--|
| Urban Region 1 | \$2,698,703                         | \$-   | \$2,098,703  |
| Urban Region 2 | \$1,938,732                         | \$-   | \$1,338,732  |
| Rural Region 1 | \$961,482                           | \$-   | \$361,482  |
| Rural Region 2 | \$457,720                           | \$142,280                                   | \$-  |
| State Total    | \$40,000,000                        | \$853,682.36                                | \$25,253,682.36  |

Note: Column OO is from Table 10.

Column QQ in Table 11 is the amount in Column OO minus \$600,000 if the amount in Column OO is over \$600,000. At least \$600,000 is maintained in each subregion before the adjustment process.

The next step in the adjustment process is to determine the percentage to be reallocated. The proportion of the total amount to be reallocated is in Column SS. Finally, Column OO is adjusted by Column SS to equal the final Sub-Amount in Column TT.

Table 12: Proportional adjustment

| Area           | Column RR: Percent of<br>Total Amount that can be<br>reallocated* | Column SS: Amount to be reallocated~ | Column TT: Final Subregion<br>Allocation <sup>+</sup> |
|----------------|---|--------------------------------------|---|
| Urban Region 1 | 8.31%   | \$ (70,945)                          | \$2,627,758   |
| Urban Region 2 | 5.30%   | \$ (45,255)                          | \$1,893,477   |
| Rural Region 1 | 1.43%   | \$ (12,220)                          | \$949,262   |
| Rural Region 2 | 0.00%   | \$142,280                            | \$600,000   |
| State Total    | 100.00%   | \$0                                  | \$40,000,000  |

<sup>\*</sup>Column RR is calculated as follows: if Column OO is over \$600,000, then ((Column OO-\$600,000)/(Statewide total for Column QQ)) ~Column SS is calculated as followed: if Column RR is a percentage, then (Column RR\*\$853,682.36); if Column RR is "-%", then Column SS equals Column PP.

<sup>&</sup>lt;sup>+</sup>Column TT is calculated as follows: Column OO + Column SS.