

Layer Name: 2020 Public Use Microdata Areas

Layer Name: puma20

Layer Type: Polygon

Status: Complete

Geog. Extent: Main Hawaiian Islands

Projection: Universal Trans Mercator, Zone 4 (Meters), NAD 83 HARN

Description: 2020 Public Use Microdata Areas

Public Use Microdata Areas (PUMAs) are non-overlapping, statistical geographic areas that partition each state or equivalent entity into geographic areas containing no fewer than 100,000 people each. They cover the entirety of the United States, Puerto Rico, and Guam.

Source: U.S. Census Bureau, 2023

Note 2: The American Community Survey (ACS) population data for the new Census Public Use Microdata Area (PUMA) geography will not be available until spring or summer of 2023. In the meantime, because the PUMA geography is based upon census tract boundaries, staff from the [Hawaii State Data Center](#) in DBEDT READ manually calculated the population and housing unit counts for the new PUMA boundaries using 2020 decennial data. Because PUMA data currently available on data.census.gov is based on 2010 census data, the population and housing unit values in this layer will not match the information found on the census website. This layer has more current population and housing unit data (as of February 2023).

History: Projected from GCS NAD83 Decimal Degrees to UTM Zone 4 NAD83 HARN. Removed extraneous fields (see below); added 2020 population and housing data as described above.

Deleted the following fields:

STATEFP20	2020 Census State FIPS Code (all set to "15" – Hawaii)
MTFCC20	MAF/TIGER feature class code (all set to G6120 – Urban Area)
FUNCSTAT20	2020 Census Functional Status (all set to "S" – Statistical Entity)

*Attributes on following page*

Attributes:	Polygons:
PUMACE20	2020 Census public use microdata area code
GEOID20	2020 Census nation-based PUMA code – concatenation of FIPS code and PUMA code
NAME20	2020 Census Urban Area Name
NAMELSAD20	2020 Census Name and the translated legal/statistical area description for public use microdata area
PUMA_SName	PUMA Short Name (by GIS Program)
ALAND20	Land area (square meters)
AWATER20	Water area (square meters)
INTPTLAT20	2020 latitude of the internal point
INTPTLONG20	2020 longitude of the internal point
POP	2020 Census population of the 2020 Census Urban Area
HOUSEHOLDS	2020 Census housing unit count of the 2020 Census Urban Area
Shape_Length	Perimeter of the polygon in meters (calculated by the software)
Shape_Area	Area of the polygons in meters (calculated by the software)

Contact: Statewide GIS Program  
Office of Planning and Sustainable Development  
State of Hawaii  
PO Box 2359, Honolulu, Hi. 96804  
Phone: (808) 587-2846, email: [gis@hawaii.gov](mailto:gis@hawaii.gov)