Hawaiian Geography at the Census Bureau

American Association of Geographers 2024 Annual Meeting 316A (Maui) 10:40 AM - 12:00 PM

Joshua Coutts

Madeline Sovich



CT 56.02



Overview

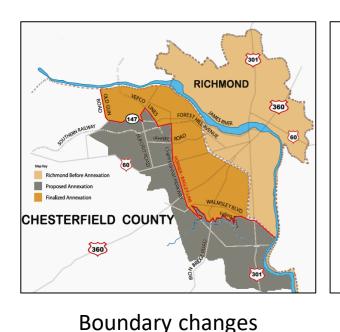
- How the Census Bureau collects geography
- Census Bureau Geography in the State of Hawaii
- Hawaiian Home Lands





Boundary and Annexation Survey (BAS)

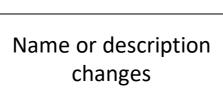
Annual opportunity for tribal, state, and local governments to submit:

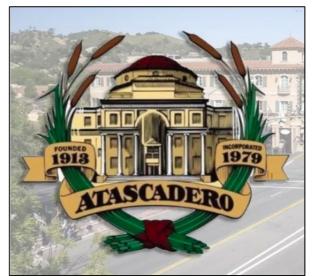


(de/annexations, corrections)

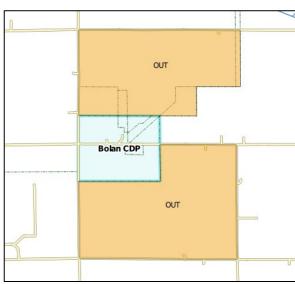
Shafter Flats

Honolulu Makai





Status updates (new reservation or trust status, dis/incorporations, mergers, consolidations)



Updates to Census
Designated Places (CDPs)

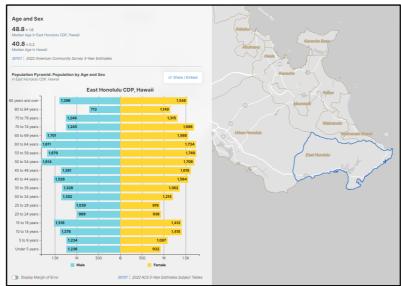




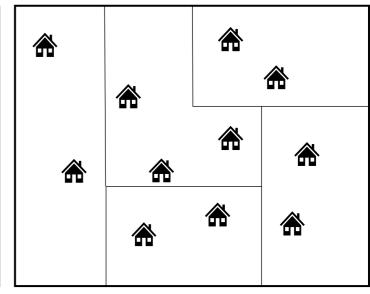
Purpose of BAS



Data collected through BAS



Used to tabulate data from censuses, surveys, programs, and operations

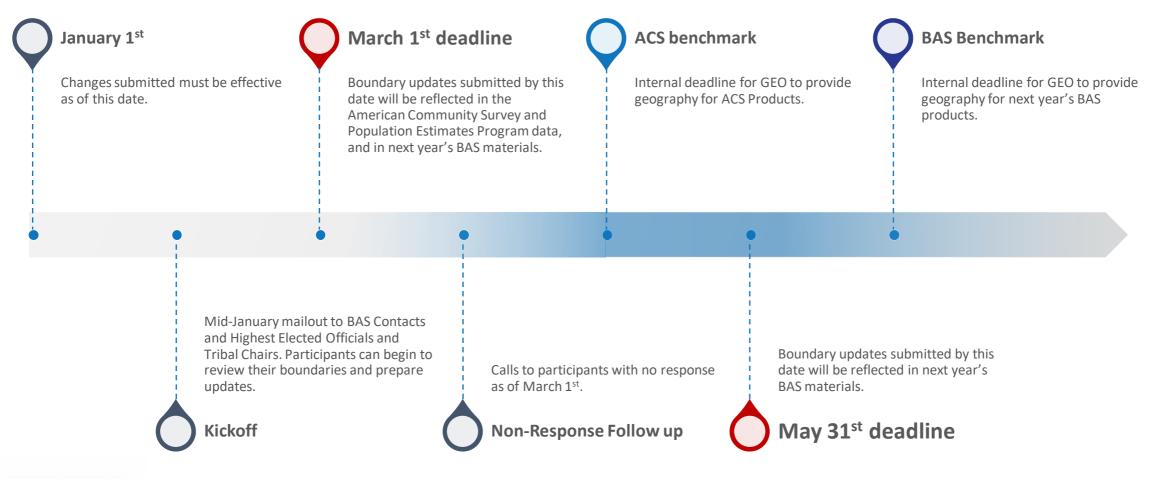


Used to establish housing and population counts





BAS Timeline







BAS Geographies

Federally recognized reservations

Federally recognized off-reservation trust lands

States

Counties or county equivalents, such as boroughs or parishes

Minor civil divisions, such as towns and townships

Incorporated places, such as cities, towns, and villages

Consolidated cities

Hawaiian Home Lands

Alaskan Native Regional Corporations

Census Designated Places





Geographic Data Products

TIGER/Line Shapefiles



BAS Partnership Shapefiles

Adams County (53001)	☐ Grays Harbor County (53027)	☐ Pierce County (53053)
☐ Asotin County (53003)	✓ Island County (53029)	San Juan County (53055)
☐ Benton County (53005)	☐ Jefferson County (53031)	Skagit County (53057)
☐ Chelan County (53007)	☐ King County (53033)	☐ Skamania County (53059)
☐ Clallam County (53009)	☐ Kitsap County (53035)	☐ Snohomish County (53061)
☐ Clark County (53011)	☐ Kittitas County (53037)	☐ Spokane County (53063)
☐ Columbia County (53013)	☐ Klickitat County (53039)	☐ Stevens County (53065)
☐ Cowlitz County (53015)	Lewis County (53041)	☐ Thurston County (53067)
☐ Douglas County (53017)	☐ Lincoln County (53043)	☐ Wahkiakum County (53069)
☐ Ferry County (53019)	☐ Mason County (53045)	☐ Walla Walla County (53071)
☐ Franklin County (53021)	Okanogan County (53047)	☐ Whatcom County (53073)
☐ Garfield County (53023)	☐ Pacific County (53049)	☐ Whitman County (53075)
☐ Grant County (53025)	Pend Oreille County (53051)	☐ Yakima County (53077)





Partnership Programs



Boundary and Annexation Survey



Participant Statistical Areas Program



Memorandums of Understanding



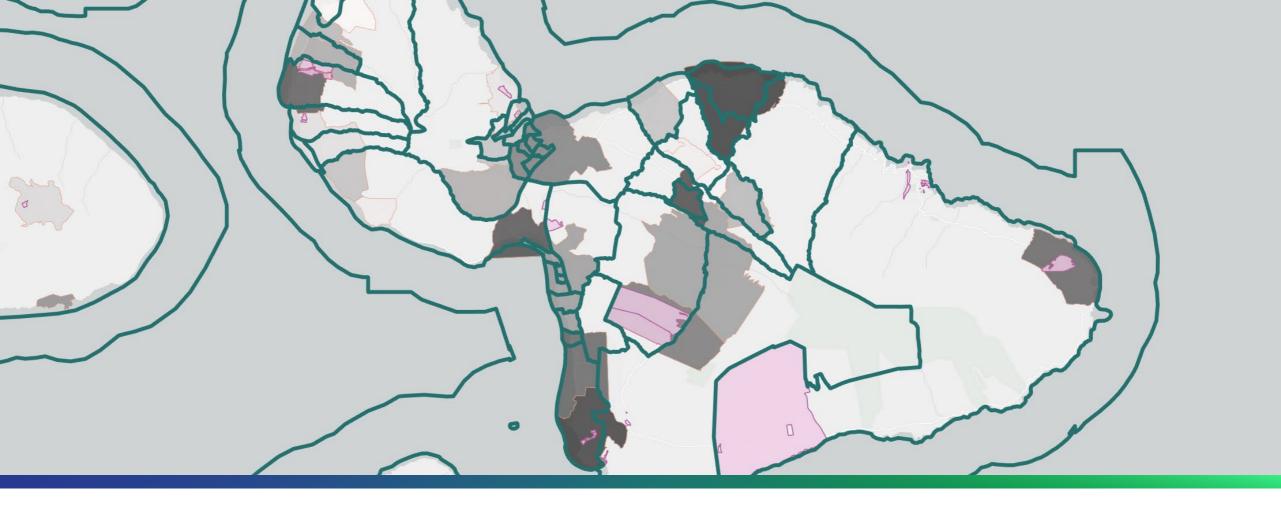
State Agreements and Consolidated County
Agreements



Tribal Consultations







Census Bureau Geography





Geography Hierarchy **Nation Zip Code Tabulation Areas** Regions **Urban Areas Core Based Statistical Areas Divisions Combined Statistical Areas Metropolitan Divisions** States **New England City and Town Areas** (NECTAs) Places Counties **Congressional Districts** Hawaiian Home Lands **County Subdivisions Census Tracts** Public Use Microdata Areas **Consolidated Cities School Districts Voting Districts Block Groups Urban Growth Areas State Legislative Districts Census Blocks**



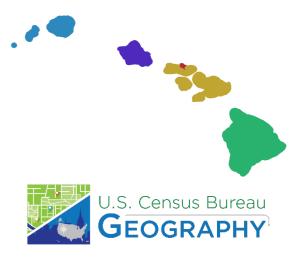


Counties and Islands

Hawaii has 5 counties.

Some cover more than one island. Honolulu County covers the islands in the northern part of Hawaii.





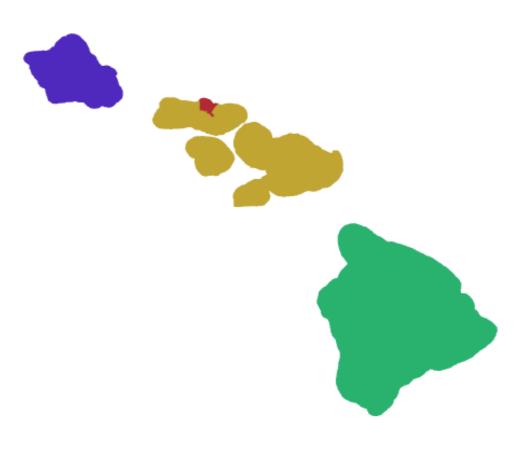
Counties and Islands



Hawaii has 5 counties.

Some cover more than one island. Honolulu County covers the islands in the northern part of Hawaii.

Molokai Island technically has two counties as it includes Kalawao County as well as Maui County.







Census Designated Places (CDP)

Definition

- Delineated to provide data for settled concentrations of population that are identifiable by name but are not legally incorporated under state laws
- Statistical counterparts of incorporated places

Relationships

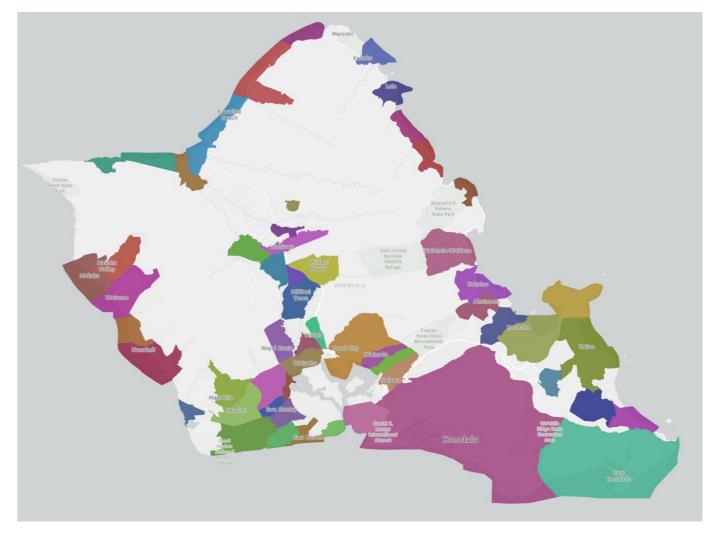
- Nest within states
- Hawaii has no incorporated places

Criteria

- Densely settled
- Named community
- No legally defined boundaries
- No minimum population or housing unit threshold

Update Program

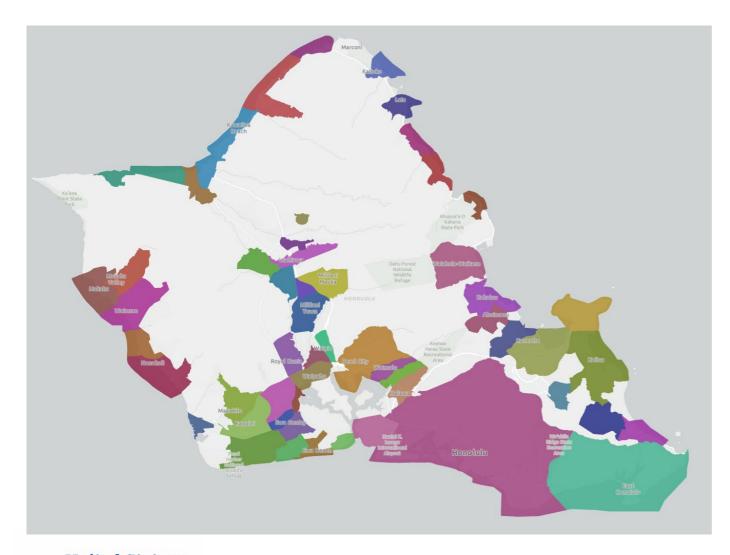
- Boundary and Annexation Survey (BAS)
- Participant Statistical Area Program (PSAP)







CDPs in the Real World



The United States Department of Agriculture (USDA) uses data from CDPs to determine grant eligibility criteria.

Some USDA grants include:

- Community Connect Grants
- Rural Energy for America Program
- Equipment Grant Program
- Rural Community Development Initiative
- Rural Business Development Grants
- Water and Waste Disposal Loan and Grant Program
- Community Facilities Loan and Grant Program

Partnership with the communities, counties, state of Hawaii, and federal agencies is vital to create CDPs that provide meaningful data products.





Census Tracts

Definition

 Small, relatively permanent statistical subdivisions of a county or equivalent entity that are updated by local participants

Nesting Relationship

Nest within counties

Coverage

Continuous

Stakeholders

 State and local partners, generally county or regional planning agencies, following Census Bureau criteria and guidelines

Min Pop/Housing

Population: 1,200

Housing: 480

Optimum

• Population: 4,000

Housing: 1,600

Max Pop/Housing

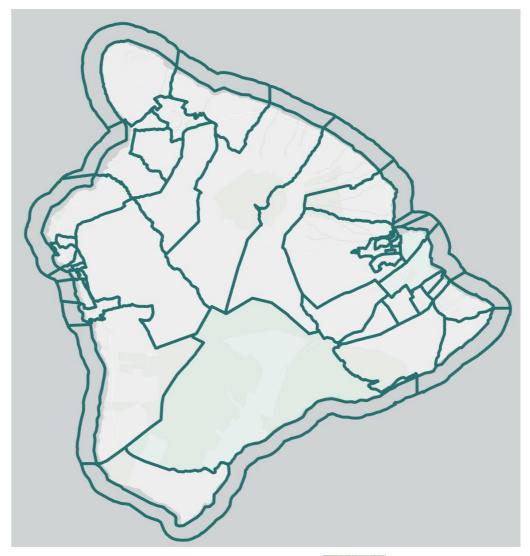
Pop: 8,000

Housing: 3,200

Updates

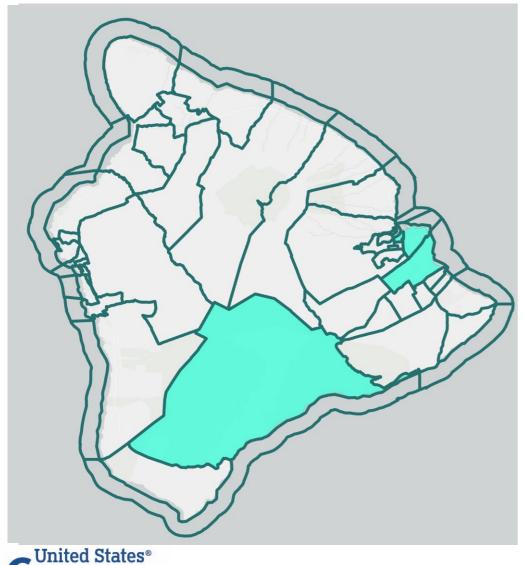
Participant Statistical Areas Program (PSAP)







Census Tracts in the Real World



FEMA Community Disaster Resilience Zones (CDRZ)

FEMA uses Census Tracts and American Community Survey 5-year estimates to create and designate resilience zones which identifies disadvantaged communities most at-risk to natural hazards.









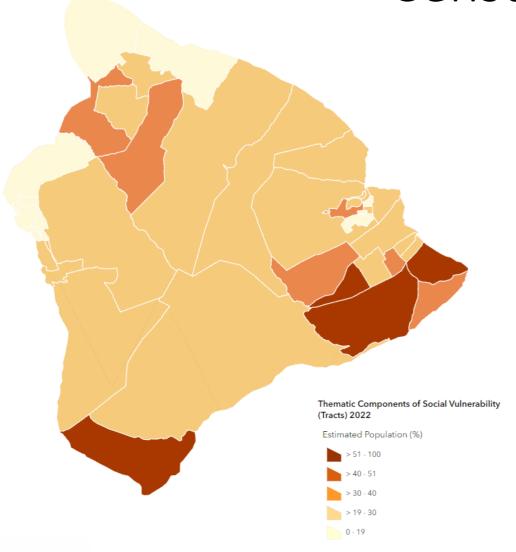








Census Tracts in the Real World



Community Resilience Estimates

The Census Bureau produces the Community Resilience Estimates (CRE) as an easily understood metric of the social vulnerability of every neighborhood in the United States to the impacts of disasters, including COVID-19.





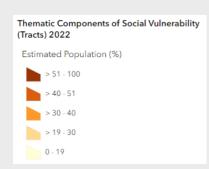


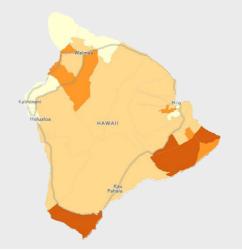


Census Tracts in the Real World













Urban Areas

Definition

- Densely developed cores of census blocks that meet minimum housing unit density requirements
- Adjacent territories containing nonresidential urban land uses
- Lower density territories that link outlying densely settled territories with the densely settled cores

Relationship

- Nest within the nation
- Can cross state lines

Criteria

- The territory identified must encompass at least 2,000 housing units or at least 5,000 persons
- The term "rural" encompasses all population, housing, and territory not included within an urban area

Updates

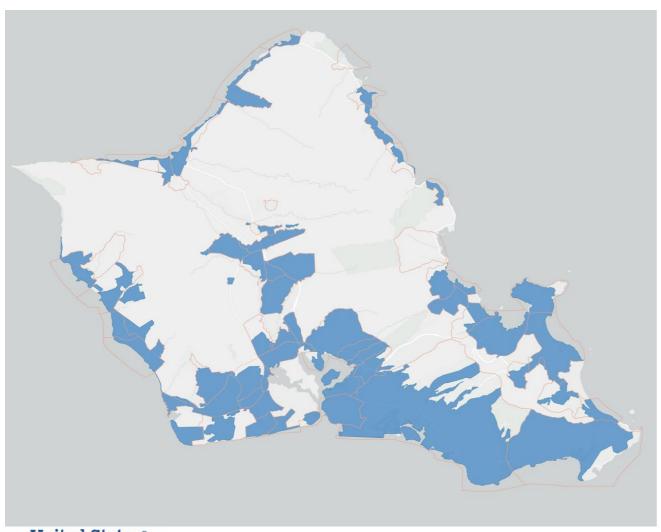
• Delineated after each decennial census







Urban Areas in the Real World



U.S. Department of Transportation (USDOT) Federal Highway Administration (FHWA) uses the Census Urban Area Designation rather than the CDP unit eligibility for these programs:

- Metropolitan Planning Organizations (MPOs)
- Transportation Management Areas
- Metropolitan Planning Program funding from State Departments of Transportation to MPOs
- Surface Transportation Block Grant Program
- Highway Performance Monitoring System
- National Highway Freight Program
- Congestion Mitigation and Air Quality Improvement Program





Hawaiian Home Lands (HHLs)

What are they?

Areas held in trust for Native Hawaiians by the state of Hawaii, pursuant to the Hawaiian Homes Commission Act of 1920, as amended.

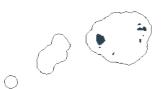
Treated as equivalent to off-reservation trust land areas in Census Bureau data.

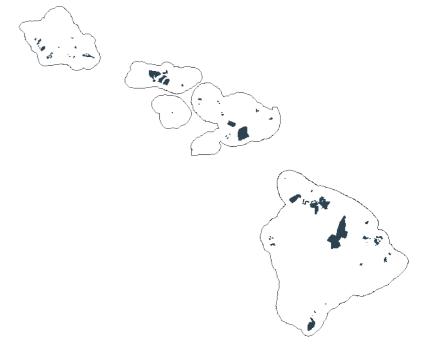




Hawaiian Home Lands

Definition Areas held in trust for Native Hawaiians by the state of Hawaii Relationship Within Hawaii Delineated by Census for the **Initial Creation** first time in 2000 **Date** State Officials Source Federal Law Boundary and Annexation **Updates** Survey (BAS)

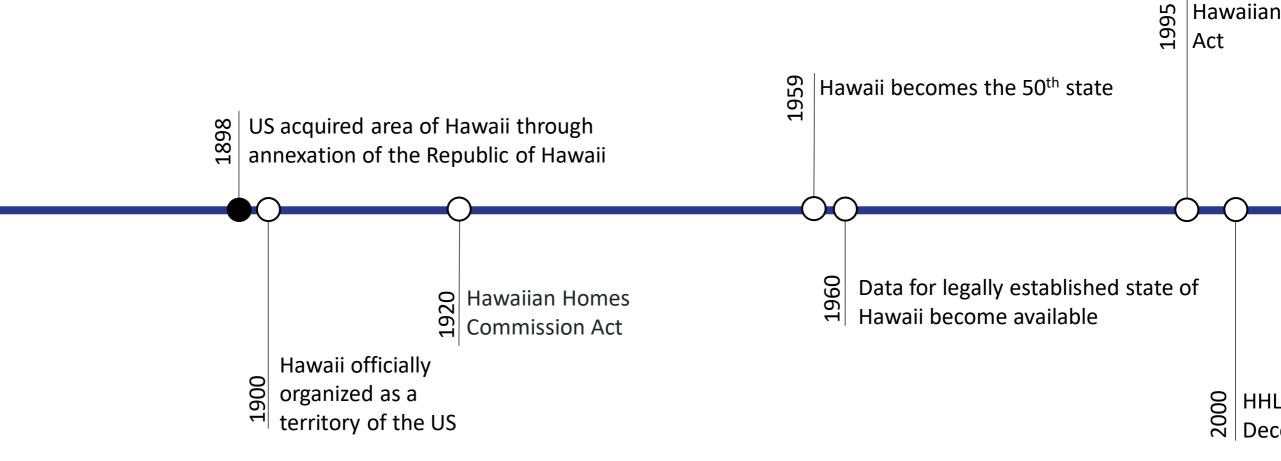








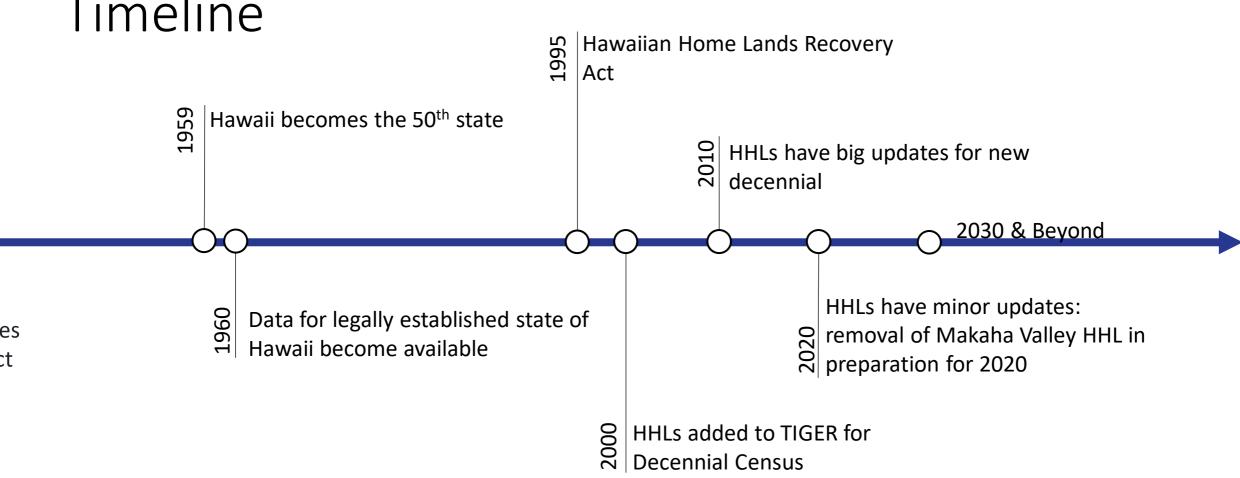
Timeline







Timeline







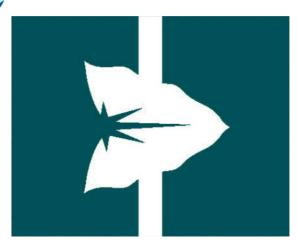
Hawaiian Home Lands

How are they collected?

The Census Bureau obtains the names and boundaries for HHLs from state officials.

The names of the home lands are based in part from the traditional ahupua'a names of the Crown and government lands of the Kingdom of Hawai'i from which the lands were designated, or from the local name for an area.









Hawaiian Home Lands Updates

Lead up to 2010 saw major updates to Hawaiian Home Lands:

- Name changes.
- Merges & Consolidations.
- New HHLs established.

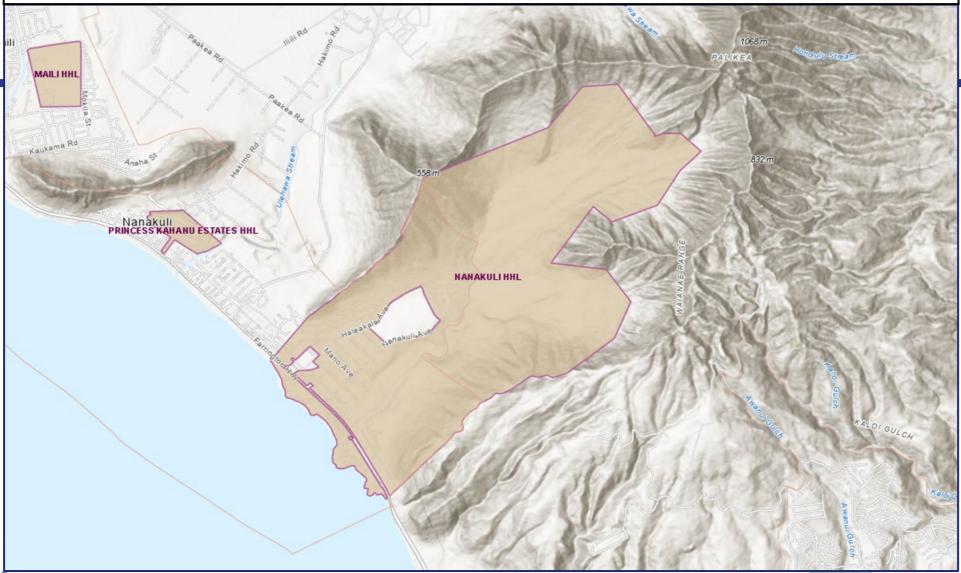
2010 Census Hawaiian Home Lands

https://tigerweb.geo.census.gov/tigerweb2020/





Nanakuli Hawaiian Home Land in TIGER as of the 2020 Census







U.S. Federal Survey of Hawaiian Home Lands





- Researching all title(s) of origin and investigating all necessary land records to determine exact legal boundaries as first recorded.
- Ascertaining the actual location of HHL boundaries on the ground.
- Providing the necessary data and information to list each parcel in the BLM official land records system.



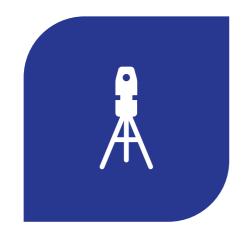
Source: https://www.doi.gov/hawaiian/land-survey





Hawaiian Home Lands

Looking Forward 2030



Land Surveys Are Ongoing



BAS Is Annual Let's Not Wait Until 2030



Build Partnership and Communication Throughout Decade





Sources for more information

Census Bureau References:

- Boundary and Annexation Survey https://www.census.gov/programs-surveys/bas.html
- TIGER Web https://tigerweb.geo.census.gov/tigerweb/
- TIGER/Line Files https://www.census.gov/geographies/mapping-files/time-series/geo/tiger-line-file.html
- Geographic Change Notes https://www.census.gov/programs-surveys/geography/technical-documentation/boundary-change-notes.html
- Geography Definitions https://tigerweb.geo.census.gov/tigerwebmain/TIGERweb_geography.html

Additional References:

- Department of Hawaiian Home Lands https://dhhl.hawaii.gov/
- State of Hawai'i Office of Planning https://planning.hawaii.gov/
- Department of Interior Native Hawaiian Office https://www.doi.gov/hawaiian
- DOI Hawaiian Home Lands Maps https://www.doi.gov/hawaiian/home-land-maps



