

Layer Name: Oahu Land Use 1998

File Name: lu98_oah

Status: Complete

Geog. Extent: Island of Oahu only

Projection: Universal Transverse Mercator, Zone 4, Meters

Datum: NAD83 HARN

Description from USGS Dataset FGDC Metadata:

This is a vector GIS coverage (ESRI ArcInfo format) of the land use of the island of Oahu, 1998, derived from multiple sources of digital orthophotos.

The USGS National Water-Quality Assessment Program (NAWQA) is designed to describe the status and trends in the quality of the Nation's ground- and surface-water resources and to provide a sound understanding of the natural and human factors that affect the quality of these resources (Leahy and others, 1990).

The Oahu NAWQA program began in October 1998. The land-use data provided here are intended for analysis in conjunction with the Oahu NAWQA water-quality data.

The land uses identified are those that involve surface modification through human activity. These are referred to herein as agriculture, developed (urban), or barren-mining. Other land uses, including conservation, forest, natural areas, wetlands, water, and barren (sand, rock, or soil), and unmanaged vegetation are identified as "other". This coverage is derived from 1-meter ground resolution digital orthophotos (DOQs) and intended for use at 1:24,000-scale or smaller.

References:

Leahy, P.P., Rosenshein, J.S., and Knopman, D.S., 1990, Implementation Plan for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 90-174. U.S. Geological Survey, Reston, VA, 10 p.

Data Source/History :

This coverage was generated by the the USGS Oahu NAWQA staff in Oahu, Hawaii, in 2001 and 2002, using 1998 digital orthophotos.

NOTE:

Appropriate use of this product is best limited to applications where remotely sensed imagery is an appropriate base for generalized land-use maps restricted to agriculture, developed, and barren-mining areas at least 2 hectares in area or larger. The land-use map is intended for use at 1:24,000-scale or smaller.

Data Set Credit:

Klasner, F.L., and Mikami, C.D., 2002, Land Use on the Island of Oahu, Hawaii, 1998: U.S. Geological Survey Water-Resources Investigations Report 02-4301. Prepared in cooperation with Natural Resources Conservation Service, U.S.D.A., U.S. Fish & Wildlife Service, State of Hawaii-Department of Agriculture, State of Hawaii-Department of Forestry & Wildlife, City and County of Honolulu, and others.

Attributes: Polygons

FID	Feature ID
ISLE	Island of Islet
Land_Use	Unique identifier for each land use type; summarizes land use code in successively detailed fields LEVEL1, LEVEL2, LEVEL3, and LEVEL4
LEVEL1	Identifier for 1st level of detail in land use type
LEVEL2	Identifier for 2nd level of detail in land use type
LEVEL3	Identifier for 3rd level of detail in land use type
LEVEL4	Identifier for 4th level of detail in land use type

Attribute Values:

ISLE	
Ford	Ford Island
Mokauea	Mokauea Island
Mokuoloe	Mokuoloe Island
Oahu	Island of Oahu
Sand	Sand Island

LAND_USE (See more detailed descriptions in FGDC metadata in ArcCatalog)

aa	agriculture, abandoned
al	agriculture, livestock
ap-g	agriculture, planted/cultivated, grasses
ap-gb	agriculture, planted/cultivated, grasses, biomass
ap-gy	agriculture, planted/cultivated, grasses, pasture/grazing
ap-h	agriculture, planted/cultivated, horticulture
ap-o	agriculture, planted/cultivated, orchard
ap-ob	agriculture, planted/cultivated, orchard, banana
ap-oc	agriculture, planted/cultivated, orchard, coffee
ap-og	agriculture, planted/cultivated, orchard, guava
ap-om	agriculture, planted/cultivated, orchard, macadamia nuts
ap-op	agriculture, planted/cultivated, orchard, papaya
ap-ou	agriculture, planted/cultivated, orchard, coconut
ap-r	agriculture, planted/cultivated, row crops
ap-rc	agriculture, planted/cultivated, row crops, corn
ap-rm	agriculture, planted/cultivated, row crops, mixed fruit/vegetable
ap-rp	agriculture, planted/cultivated, row crops, pineapple
ap-rw	agriculture, planted/cultivated, row crops, wetland
ap-s	agriculture, planted/cultivated, shade houses
aq	agriculture, aquaculture
as	agriculture, small-scale rural
bm	barren, mining
dc-h+	developed, commercial, high-density, multi-story
dc-hs	developed, commercial, high-density, low-story
dc-l	developed, commercial, low-density
dc-m+	developed, commercial, moderate-density, multi-story
dc-ms	developed, commercial, moderate-density, low-story
dm	developed, manufacturing/industrial
do-mg	developed, open space, maintained vegetation, golf course

do-mm	developed, open space, maintained vegetation, multi-purpose
do-r	developed, open space, recreation
do-v	developed, open space, vacant
dr-h+	developed, residential, high-density, multi-story
dr-hs	developed, residential, high-density, low-story
dr-l	developed, residential, low-density
dr-m+	developed, residential, moderate-density, multi-story
dr-ms	developed, residential, moderate-density, low-story
ds-e	developed, social services, education
ds-g	developed, social services, government
du-a	developed, public infrastructure, airport
du-c	developed, public infrastructure, automotive
du-p	developed, public infrastructure, port
du-u	developed, public infrastructure, utilities
du-wl	developed, public infrastructure, waste management, landfill
du-ws	developed, public infrastructure, waste management, sewage treatment
other	all areas not encompassed in the above class definitions, including water, wetland, forest, shrubland, herbaceous, and barren (other than mining)

LEVEL1 Identifier for first level of detail in land use type
(See USGS FGDC Compliant metadata for detailed description)

agriculture
barren
developed
other

LEVEL2 Identifier for second level of detail in land use type
(See USGS FGDC Compliant metadata for detailed description)

abandoned
aquaculture
commercial
livestock
manufacturing/industrial
mining
open space
planted/cultivated
public infrastructure
residential
small-scale/rural
social services

LEVEL3 Identifier for third level of detail in land use type
(See USGS FGDC Compliant metadata for detailed description)
airport
automotive
education
government
grasses
high density
horticulture
low density
maintained vegetation
moderate density
orchard
port
recreation
row crops
shade houses
utilities
vacant
waste management

LEVEL4 Identifier for fourth level of detail in land use type
(See USGS FGDC Compliant metadata for detailed description)
banana
biomass
coconut
coffee
corn
golf courses
guava
landfill
low-story
macadamia nuts
mixed fruit/vegetable
multi-purpose
multi-story
papaya
pasture/grazing
pineapple
sewage treatment
wetland

Note: May 2024 – Hawaii Statewide GIS Program staff removed extraneous fields that had been added as part of the 2016 GIS database conversion and were no longer needed.

NOTE: For more detailed explanations of methodology, history, attributes, etc., please see oahu_lu98_fgdc.txt

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