

Layer Name: On-Site Sewage Disposal Systems (osds) for the island of Maui (2010)  
File Name: osds\_mau (see also osds layers for Hawaii, Kauai, Molokai and Oahu)  
Status: Complete  
Layer Type: Point  
Geog. Extent: The island of Maui (see also osds layers for Hawaii, Kauai, Molokai and Oahu)  
Projection: Universal Trans Mercator, Zone 4 (Meters)  
Datum: NAD 83 HARN

*Please note - if you are using data in the [State's web services](#) or downloading from the [State's geoportal](#), the data is served and exported in WGS84 coordinates, although it is stored internally in UTM coordinates.*

Description: Approximate location, type, effluent, nitrogen, and phosphorus flux of On-Site Sewage Disposal Systems  
Source: Hawaii State Department of Health, May, 2017  
History: Developed in 2010 as part of the Hawaii State Department of Health source water protection program to assess the health and environmental risks posed by On-Site Sewage Disposal Systems. Sources: Maui county dwelling, sewer system, and TMK data; Hawaii State Department of Health Individual Wastewater System and cesspool data; private wastewater system data.

Note: Please see the following reports for additional information:

Oahu: Human and Environmental Risk Ranking of Onsite Sewage Disposal Systems:

[http://health.hawaii.gov/wastewater/files/2015/09/OSDS\\_OAHU.pdf](http://health.hawaii.gov/wastewater/files/2015/09/OSDS_OAHU.pdf)

Neighbor Islands: Human Health and Environmental Risk Ranking of Onsite Sewage Disposal Systems for the Hawaiian Islands of Kauai, Molokai, Maui and Hawaii - Final

[http://health.hawaii.gov/wastewater/files/2015/09/OSDS\\_NI.pdf](http://health.hawaii.gov/wastewater/files/2015/09/OSDS_NI.pdf)

**Attribute Descriptions on following pages**

**Attributes:**

FID	Feature ID
SHAPE	Feature Geometry
ISLAND	Island
TMK	Unique 9 digit Tax Map Key Number <b>1<sup>st</sup> Digit: Division County</b> 2 = Maui <b>2<sup>nd</sup> Digit: Zone</b> Maui 1 = Hana 2 = Makawao 3 = Wailuku 4 = Lahaina  <b>3<sup>rd</sup> Digit: Section</b> <b>4<sup>th</sup>-6<sup>th</sup> Digits: Plat</b> <b>7<sup>th</sup> – 9<sup>th</sup> Digits: Parcel</b>
OWNER	Owner as listed in the TMK database
BLDGVAL	Total building value as listed in the TMK database
BLDEXEM	Total building value tax exemption as listed in the TMK database
PITTCODE	PITT Code – used to identify the tax rate applied to the property as listed in the TMK database  Maui County: 100's – Improved Residential 200's – Apartment 300's – Commercial 400's – Industrial 500's - Agricultural and Rural 600's – Conservation 700's - Hotel and Resort 1000's – Commercialized Residential 0 - Timeshare

**Attributes (continued):**

HOMEOWNER	Homeowner exemption applied – Yes, No, or Unknown
GISACRES	Parcel acreage calculated by the GIS
OSDS_QTY	The quantity of OSDS within the TMK parcel
CLASS_I	The quantity of Class I OSDS within the TMK parcel. Class I OSDS are those systems where the effluent is subjected to soil treatment
CLASS_II	The quantity of Class II OSDS within the TMK parcel. Class II OSDS are septic systems discharging to a seepage pit.
CLASS_III	The quantity of Class III OSDS within the TMK parcel. Class III OSDS are aerobic systems discharging to a seepage pit.
CLASS_IV	The quantity of Class IV OSDS within the TMK parcel. Class IV OSDS are cesspools.
EFFLUENT	The total effluent flux in million gallons per day discharged within the TMK parcel.
N_FLUX	The total nitrogen flux in kilograms per day discharged within the TMK parcel.
P_FLUX	The total phosphorus flux in kilograms per day discharged within the TMK parcel.
COMMERCIAL	The type of commercial activity the effluent flux was based on.
SOURCE	The source database for the OSDS information/estimates
NO_STRUCT	Number of structures located within the TMK parcel
TTL_BDRMS	Number of bedrooms within the parcel. This number is used to estimate the volume of wastewater effluent disposed of by assuming 200 gallons per day per bedroom for non-commercial parcels.
NO_BATH	The total number of bathrooms within the TMK parcel
PRMT_NO	The permit number for Wastewater Treatment Plant
PRMT_ID	The permit identification for the Wastewater Treatment plant
UIC_NO	The Underground Injection Control permit number for those plants that dispose of the treated effluent by subsurface injection
INJECT	Indicator of whether or not the Wastewater Treatment Plant injects the effluent into the subsurface (Yes or No)
WWTP	The Wastewater Treatment Plant name
CLASS	Wastewater Treatment Plant class (Class 1 through 4, see <a href="#">Hawaii Administrative Rules, Title 11, Chapter 61</a> )
TYPE	Wastewater Treatment Plant (Reuse, WWTP, non-domestic)
OWNER_TYP	Owner type (public or private)
WWTP_OWNER	Owner of the Wastewater Treatment Plant

**Attributes (continued):**

CONTACT	Point of contact for the Wastewater treatment plant
ENG	The Wastewater Treatment Plant Engineer
OP_DRC	Wastewater Treatment Plant operator grade (Class 1 through 4, see <a href="#">Hawaii Administrative Rules, Title 11, Chapter 61</a> )
COMMENTS	Comments for the record

**Notes:**

1. At the request of the Counties, the "Owner" field has been removed for posting of this layer to the website in light of privacy and security concerns. Small or individual land owner information can be cross-referenced to other publicly available databases, or by contacting the respective county.
2. This layer is for informational purposes only. Users should contact the State Department of Health (contact info below) for a specific inquiry. Please note this study was conducted several years ago and many properties may have upgraded their cesspool to septic tank system.

**Contact info:**

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

Robert Whittier  
Hawaii State Department of Health, Environmental Management Division  
919 Ala Moana Blvd., Suite 300, Honolulu, Hi 96814; (808) 586-4304  
email: [Robert.Whittier@doh.hawaii.gov](mailto:Robert.Whittier@doh.hawaii.gov)