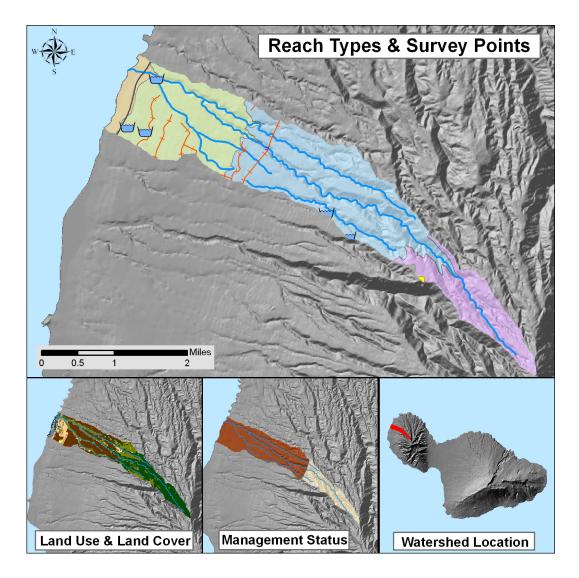
DAR Watershed Code: 61008

Kahana, Maui



WATERSHED FEATURES

Kahana watershed occurs on the island of Maui. The Hawaiian meaning of the name is "cutting". The area of the watershed is 5.2 square mi (13.5 square km), with maximum elevation of 4475 ft (1364 m). The watershed's DAR cluster code is 5, meaning that the watershed is medium size, steep in the upper watershed, and with little embayment. The percent of the watershed in the different land use districts is as follows: 64.9% agricultural, 28.9% conservation, 0% rural, and 6.2% urban.

Land Stewardship: Percentage of the land in the watershed managed or controlled by the corresponding agency or entity. Note that this is not necessarily ownership.

<u>Military</u>	Federal	<u>State</u>	<u>OHA</u>	<u>County</u>	Nature Conservancy	Other Private
0.0	0.0	0.2	0.0	0.0	0.0	99.8

Land Management Status: Percentage of the watershed in the categories of biodiversity protection and management created by the Hawaii GAP program.

Permanent Biodiversity	Managed for Multiple	Protected but	
Protection	Uses	<u>Unmanaged</u>	<u>Unprotected</u>
27.8	0.2	0.0	72.0

Land Use: Areas of the various categories of land use. These data are based on NOAA C-CAP remote sensing project.

	Percent	<u>Square mi</u>	<u>Square km</u>
High Intensity Developed	0.2	0.01	0.02
Low Intensity Developed	3.1	0.16	0.42
Cultivated	28.8	1.50	3.89
Grassland	7.2	0.37	0.97
Scrub/Shrub	22.1	1.15	2.98
Evergreen Forest	37.1	1.94	5.01
Palustrine Forested	0.0	0.00	0.00
Palustrine Scrub/Shrub	0.0	0.00	0.00
Palustrine Emergent	0.0	0.00	0.00
Estuarine Forested	0.0	0.00	0.00
Bare Land	0.7	0.04	0.10
Unconsolidated Shoreline	0.2	0.01	0.03
Water	0.5	0.03	0.07
Unclassified	0.0	0.00	0.00

STREAM FEATURES

Kahana is a perennial stream. Total stream length is 17 mi (27.4 km). The terminal stream order is 3.

Reach Type Percentages: The percentage of the stream's channel length in each of the reach type categories.

<u>Estuary</u>	Lower	Middle	<u>Upper</u>	Headwaters			
0.0	3.2	31.5	57.0	8.4			
The following stream(s) occur in the watershed:							
Kahana		Kahanai	ki	Mailepai	Pulepule		

BIOTIC SAMPLING EFFORT

Biotic samples were gathered in the following year(s): None

BIOTA INFORMATION

None

HISTORIC RANKINGS

Historic Rankings: These are rankings of streams from historical studies. "Yes" means the stream was considered worthy of protection by that method. Some methods include non-biotic data in their determination. See Atlas Key for details.

Multi-Attribute Prioritization of Streams - Potential Heritage Streams (1998): No Hawaii Stream Assessment Rank (1990): not ranked U.S. Fish and Wildlife Service High Quality Stream (1988): No The Nature Conservancy- Priority Aquatic Sites (1985): No National Park Service - Nationwide Rivers Inventory (1982): No

Current DAR Decision Rule Status: The following criteria are used by DAR to consider the biotic importance of streams. "Yes" means that watershed has that quality.

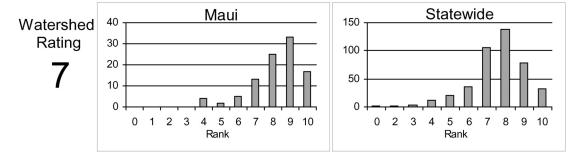
Unranked due to no data

CURRENT WATERSHED AND STREAM RATINGS

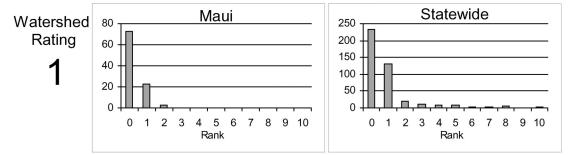
The current watershed and stream ratings are based on the data contained in the DAR Aquatic Surveys Database. The ratings provide the score for the individual watershed or stream, the distribution of ratings for that island, and the distribution of ratings statewide. This allows a better understanding of the meaning of a particular ranking and how it compares to other streams. The ratings are standardized to range from 0 to 10 (0 is lowest and 10 is highest rating) for each variable and the totals are also standardized so that the rating is not the average of each component rating. These ratings are subject to change as more data are entered into the DAR Aquatic Surveys Database and can be automatically recalculated as the data improve. In addition to the ratings, we have also provided an estimate of the confidence level of the ratings. This is called rating strength. The higher the rating strength the more likely the data and rankings represent the actual condition of the watershed, stream, and aquatic biota.

WATERSHED RATING: Kahana, Maui

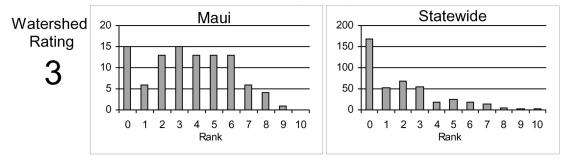
Land Cover Rating: Rating is based on a scoring sytem where in general forested lands score positively and developed lands score negatively.



<u>Shallow Waters Rating</u>: Rating is based on a combination of the extent of estuarine and shallow marine areas associated with the watershed and stream.

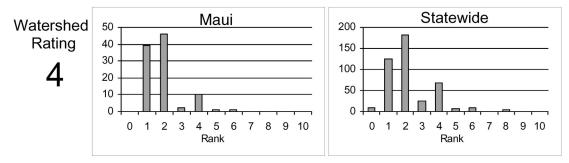


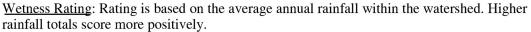
<u>Stewardship Rating</u>: Rating is based on a scoring system where higher levels of land and biodiversity protection within the watershed score positively.

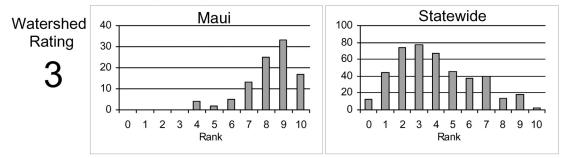


WATERSHED RATING (Cont): Kahana, Maui

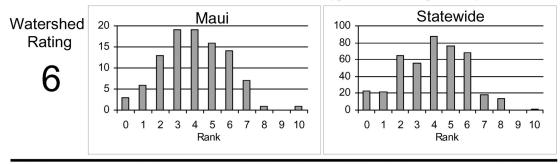
<u>Size Rating</u>: Rating is based on the watershed area and total stream length. Larger watersheds and streams score more positively.



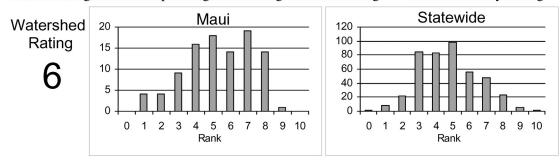




<u>Reach Diversity Rating</u>: Rating is based on the types and amounts of different stream reaches available in the watershed. More area in different reach types score more positively.

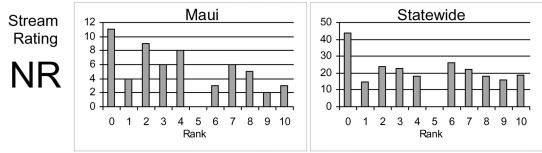


<u>Total Watershed Rating</u>: Rating is based on combination of <u>Land Cover Rating</u>, <u>Shallow</u> <u>Waters Rating</u>, <u>Stewardship Rating</u>, <u>Size Rating</u>, <u>Wetness Rating</u>, and <u>Reach Diversity Rating</u>.

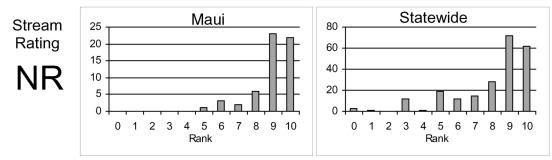


BIOLOGICAL RATING: Kahana, Maui

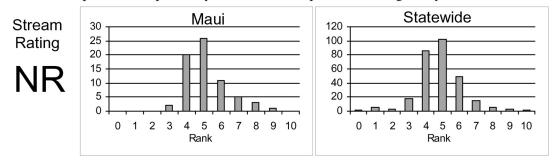
<u>Native Species Rating</u>: Rating is based on the number of native species observed in the watershed.



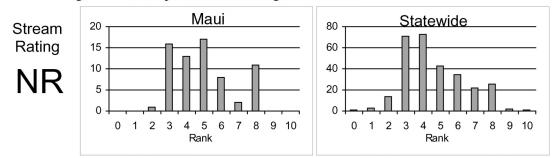
Introduced Genera Rating: Rating is based on the number of introduced genera observed in the watershed.



<u>All Species' Score Rating:</u> Rating is based on the Hawaii Stream Assessment scoring system where native species score positively and introduced species score negatively.

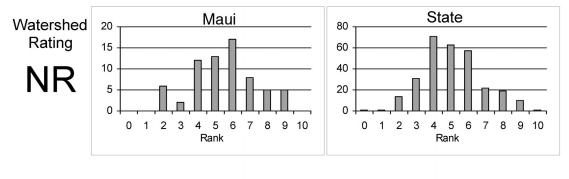


<u>Total Biological Rating</u>: Rating is the combination of the <u>Native Species Rating</u>, <u>Introduced</u> <u>Genera Rating</u>, and the <u>All Species' Score Rating</u>.



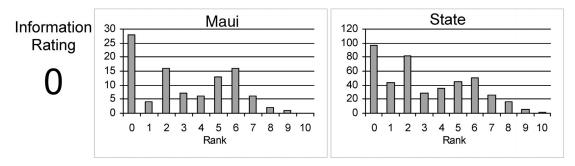
OVERALL RATING: Kahana, Maui

Overall Rating: Rating is a combination of the <u>Total Watershed Rating</u> and the <u>Total Biological</u> <u>Rating</u>.



RATING STRENGTH: Kahana, Maui

<u>Rating Strength</u>: Represents an estimate of the overall study effort in the stream and is a combination of the number of studies, number of different reaches surveyed, and the number of different survey types.



REFERENCES

None

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