Table 5.08-- HAWAIIAN PERENNIAL STREAMS, BY ISLAND: 2006 TO 2014

[Perennial means fresh waters flowing year-round in all or part of natural channels, portions of which may be modified by humans. Flow in perennial streams may vary seasonally. Perennial streams may be subdivided into longitudinal zones, based on elevation and gradient: (1) headwater zone (elevation above 800 m (2600 ft) or gradient above 30 percent or both); (2) mid-zone (elevation between 50-800 m (165-2600 ft), or gradient between 5 and and 30 percent or both); and (3) terminal zone (elevation below 50 m (165 ft) or gradient below 5 percent or both). Perennial streams may be either continuous or interrupted. Continuous perennial streams discharge continuously to the ocean in their natural state, and contain water in the entire length of the stream channel year-round. Interrupted perennial streams usually flow perennially in their upper reaches but only seasonally in parts of their middle or lower reaches, due to either downward seepage of surface flow (naturally interrupted) or to man-made water diversions (artificially interrupted) (HAR §11-54-1). Hawaii State Department of Health Clean Water Branch assessed coastal waters for the following conventional pollutants: enterococci, total nitrogen, nitrate+nitrite, ammonia, total phosphorus, turbidity, and chlorophyll a]

| Island | Total number of streams 1/ | Number of impaired 2/ | Percentage of total impaired streams | Island percentage of total impaired streams |
|---|---------------------------------------|--------------------------------------|---|--|
| 2006 | | | | |
| State total | 168 | 91 | 54.2 | 100.0 |
| Kauai Oahu Molokai Lanai Maui Hawaii 2008-2010 State total | 29 50 6 - 48 35 168 | 20 44 1 - 10 16 92 | 69.0 88.0 16.7 0.0 20.8 45.7 54.8 | 22.0 48.4 1.1 0.0 11.0 17.6 100.0 |
| Kauai Oahu Molokai Lanai Maui Hawaii | 29 50 6 - 48 35 | 20 44 1 - 11 16 | 69.0 88.0 16.7 0.0 22.9 45.7 | 21.7 47.8 1.1 0.0 12.0 17.4 |

Continued on next page.

Table 5.08-- HAWAIIAN PERENNIAL STREAMS, BY ISLAND: 2006 TO 2014 -- Con.

| Island | Total number of streams 1/ | Number of impaired 2/ | Percentage of total impaired streams | Island percentage of total impaired streams |
|--|----------------------------------|--------------------------------------|---|--|
| 2012 | | | | |
| State total | 168 | 91 | 54.2 | 100.0 |
| Kauai Oahu Molokai Lanai Maui Hawaii 2014 State total | 29 50 6 - 48 35 | 20 43 1 - 11 16 92 | 69.0 86.0 16.7 0.0 22.9 45.7 54.4 | 22.0 47.3 1.1 0.0 12.1 17.6 |
| Kauai Oahu Molokai Lanai Maui Hawaii | 30 50 6 - 48 35 | 21 43 1 - 11 16 | 70.0 86.0 16.7 0.0 22.9 45.7 | 22.8 46.7 1.1 0.0 12.0 17.4 |

1/ Number of streams is based on individual stream not wet/dry season.

2/ Impaired streams for one of more conventional pollutants.

Source: Hawaii State Department of Health, Clean Water Branch, records.