

**Table 3.23** Water Quality at Public Beaches by Island in Hawai'i: 2004-2011

| Year | Enterococci Density <sup>a</sup> | Island  |                |                |       |        |          |       |        | State Total |
|------|----------------------------------|---------|----------------|----------------|-------|--------|----------|-------|--------|-------------|
|      |                                  | Hawai'i |                |                | Maui  | Lāna'i | Moloka'i | O'ahu | Kaua'i |             |
|      |                                  | Hawai'i | Hilo Shoreline | Kona Shoreline |       |        |          |       |        |             |
| 2004 | Highest                          | 230.0   | 230.0          | 7.3            | 18.2  | (X)    | (X)      | 110.7 | 227.0  | 230.0       |
|      | Mean                             | 3.7     | 4.7            | 2.7            | 2.9   | (X)    | (X)      | 4.5   | 5.4    | 4.1         |
|      | Lowest                           | 0.6     | 0.6            | 1.2            | 1.2   | (X)    | (X)      | 0.3   | 1.0    | 0.3         |
| 2005 | Highest                          | 15.7    | 15.7           | 8.1            | 27.0  | (X)    | (X)      | 47.3  | 243.9  | 243.9       |
|      | Mean                             | 3.9     | 5.2            | 2.2            | 2.1   | (X)    | (X)      | 5.1   | 5/ 4.6 | 4.2         |
|      | Lowest                           | 0.3     | 0.9            | 0.3            | 0.5   | (X)    | (X)      | 0.4   | 0.3    | 0.3         |
| 2006 | Highest                          | 20.1    | 18.1           | 20.0           | 6.1   | (X)    | (X)      | 80.0  | 144.9  | 144.9       |
|      | Mean                             | 2.8     | 6.0            | 2.0            | 3.5   | (X)    | (X)      | 4.6   | 6.5    | 4.6         |
|      | Lowest                           | 1.0     | 0.5            | 1.0            | 1.8   | (X)    | (X)      | 0.7   | 0.6    | 0.5         |
| 2007 | Highest                          | 4.5     | 75.0           | 4.5            | 22.6  | (X)    | (X)      | 475.7 | 700.0  | 700.0       |
|      | Mean                             | 3.7     | 4.1            | 3.2            | 3.4   | (X)    | (X)      | 3.9   | 4.6    | 3.8         |
|      | Lowest                           | 2.3     | 2.3            | 2.3            | 2.3   | (X)    | (X)      | 2.3   | 2.3    | 2.3         |
| 2008 | Highest                          | 64.0    | 10.6           | 64.0           | 4.2   | (X)    | (X)      | 137.0 | 99.9   | 137.0       |
|      | Mean                             | 4.6     | 4.8            | 4.1            | 3.6   | (X)    | (X)      | 4.7   | 5.0    | 4.5         |
|      | Lowest                           | 2.3     | 2.5            | 2.3            | 2.7   | (X)    | (X)      | 2.3   | 2.3    | 2.3         |
| 2009 | Highest                          | 24.9    | 24.9           | 27.1           | 43.3  | (X)    | (X)      | 138.1 | 91.8   | 138.1       |
|      | Mean                             | 4.8     | 5.4            | 3.8            | 4.0   | (X)    | (X)      | 4.9   | 7.1    | 5.0         |
|      | Lowest                           | 2.3     | 2.3            | 2.3            | 2.3   | (X)    | (X)      | 2.3   | 2.3    | 2.3         |
| 2010 | Highest                          | 13.8    | 16.9           | 13.8           | 103.6 | (X)    | (X)      | 7.0   | 106.3  | 106.3       |
|      | Mean                             | 3.9     | 5.3            | 3.9            | 3.8   | (X)    | (X)      | 4.2   | 6.9    | 4.7         |
|      | Lowest                           | 2.3     | 2.3            | 2.3            | 2.3   | (X)    | (X)      | 2.3   | 2.3    | 2.3         |
| 2011 | Highest                          | 26.1    | 26.1           | 19.8           | 57.1  | (X)    | (X)      | 64.0  | 148.3  | 182.2       |
|      | Mean                             | 7.7     | 9.3            | 6.1            | 6.2   | (X)    | (X)      | 5.8   | 10.3   | 7.4         |
|      | Lowest                           | 2.3     | 2.3            | 2.3            | 2.3   | (X)    | (X)      | 2.3   | 2.3    | 2.3         |

<sup>a</sup> Geometric mean, number per 100 ml. The geometric mean standard for Enterococci density was 7 per 100 ml. in 2009 and 35 per 100 ml. in 2010. (X) Not applicable.

**Source:** Hawai'i State, Department of Health, Clean Water Branch, records.