

**Table 5.46-- TRADE WINDS, HIGH SURF, AND TEMPERATURES  
IN HAWAIIAN WATERS, BY MONTH**

| Month  | Trade wind frequency 1/<br>(percent) | Expected days of strong trade winds 2/ | Highest surf 3/ (average number of days) |                | Water temperature 4/<br>(°F) |              |
|--------|--------------------------------------|--|--|----------------|------------------------------|--------------|
|        |                                      |  | Flat or 1 foot                           | 6 feet or more | Mean maximum                 | Mean minimum |
| Jan.   | 42                                   | 9                                      | 1  | 19             | 74.7                         | 71.1         |
| Feb.   | 55                                   | 7                                      | 1  | 16             | 75.6                         | 70.3         |
| March  | 61                                   | 10                                     | 1  | 12             | 76.5                         | 71.8         |
| April  | 74                                   | 10                                     | 3  | 7              | 77.7                         | 73.0         |
| May    | 86                                   | 7                                      | 8  | 3              | 79.5                         | 74.7         |
| June   | 91                                   | 7                                      | 15                                       | -              | 81.1                         | 77.7         |
| July   | 95                                   | 10                                     | 16                                       | -              | 81.1                         | 78.3         |
| Aug.   | 94                                   | 7                                      | 15                                       | -              | 81.9                         | 79.2         |
| Sept.  | 83                                   | 4                                      | 10                                       | 2              | 81.9                         | 78.4         |
| Oct.   | 71                                   | 4                                      | 1  | 12             | 81.1                         | 77.2         |
| Nov.   | 64                                   | 8                                      | -  | 19             | 79.3                         | 74.5         |
| Dec.   | 57                                   | 9                                      | -  | 20             | 75.9                         | 71.4         |
| Annual | 73                                   | 92                                     | 71                                       | 110            | 78.6                         | 74.8         |

1/ Mean monthly frequency of trade winds in Hawaiian waters.

2/ Expected number of hazardous days in Hawaiian waters due to strong trade winds.

3/ Observations at Sunset Beach, Oahu. Annual averages were: flat or 1 foot, 71 days; 2-5 feet, 184 days; 6-10 feet, 71 days; 11-15 feet, 26 days; 16 feet or higher, 13 days.

4/ Observations at Kaneohe, Oahu. The mean ranged from 73.0 in January and February to 80.2 in August. Absolute maximums and minimums were respectively 84 (in July, August, and October) and 68 (December and February).

Source: Paul Haraguchi, *Weather in Hawaiian Waters* (Honolulu: Pacific Weather, Inc., 1979), pp. 14, 22, 56, and 74; Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, data provided February 14, 1995.