

































## Nonopapa, Niihau Island, HI - Dec 2053

| Date |     | High  |     |          |     | Low   |     |       |      |  |      |    |
|------|-----|-------|-----|----------|-----|-------|-----|-------|------|---|------|---|
|      |     | AM    | ft  | PM       | ft  | AM    | ft  | PM    | ft   | Rise  | Set  | Moon  |
| 1    | Mon | 8:28  | 1.5 | 10:10    | 0.8 | 1:21  | 0.3 | 3:59  | 0.1  | 7:03  | 5:56 |    |
| 2    | Tue | 9:30  | 1.3 | 11:23    | 1.0 | 2:57  | 0.5 | 4:48  | 0.0  | 7:04  | 5:57 |    |
| 3    | Wed | 10:32 | 1.2 |          |     | 4:37  | 0.5 | 5:31  | 0.0  | 7:04  | 5:57 |    |
| 4    | Thu | 12:19 | 1.2 | 11:30 AM | 1.1 | 6:06  | 0.5 | 6:09  | 0.0  | 7:05  | 5:57 |    |
| 5    | Fri | 1:05  | 1.4 | 12:23    | 1.0 | 7:19  | 0.4 | 6:43  | -0.1 | 7:06  | 5:57 |    |
| 6    | Sat | 1:45  | 1.5 | 1:10     | 0.9 | 8:19  | 0.4 | 7:15  | -0.1 | 7:06  | 5:57 |    |
| 7    | Sun | 2:23  | 1.6 | 1:53     | 0.8 | 9:09  | 0.3 | 7:46  | -0.1 | 7:07  | 5:58 |    |
| 8    | Mon | 2:58  | 1.7 | 2:34     | 0.7 | 9:52  | 0.3 | 8:17  | -0.1 | 7:08  | 5:58 |    |
| 9    | Tue | 3:32  | 1.7 | 3:13     | 0.7 | 10:32 | 0.2 | 8:48  | -0.1 | 7:08  | 5:58 |    |
| 10   | Wed | 4:06  | 1.7 | 3:51     | 0.6 | 11:10 | 0.2 | 9:20  | 0.0  | 7:09  | 5:58 |    |
| 11   | Thu | 4:40  | 1.7 | 4:30     | 0.6 | 11:47 | 0.2 | 9:53  | 0.0  | 7:09  | 5:59 |    |
| 12   | Fri | 5:14  | 1.6 | 5:11     | 0.6 |       |     | 12:26 | 0.2  | 7:10  | 5:59 |   |
| 13   | Sat | 5:48  | 1.5 | 5:59     | 0.5 |       |     | 1:08  | 0.2  | 7:11  | 5:59 |  |
| 14   | Sun | 6:24  | 1.5 | 6:59     | 0.5 |       |     | 1:51  | 0.2  | 7:11  | 6:00 |  |
| 15   | Mon | 7:02  | 1.4 | 8:18     | 0.6 |       |     | 2:37  | 0.1  | 7:12  | 6:00 |  |
| 16   | Tue | 7:44  | 1.2 | 9:46     | 0.7 | 12:33 | 0.4 | 3:23  | 0.1  | 7:12  | 6:01 |  |
| 17   | Wed | 8:33  | 1.1 | 10:58    | 0.8 | 1:56  | 0.5 | 4:06  | 0.1  | 7:13  | 6:01 |  |
| 18   | Thu | 9:30  | 1.0 | 11:50    | 1.0 | 3:46  | 0.6 | 4:47  | 0.0  | 7:13  | 6:01 |  |
| 19   | Fri | 10:31 | 0.9 |          |     | 5:24  | 0.6 | 5:25  | 0.0  | 7:14  | 6:02 |  |
| 20   | Sat | 12:33 | 1.2 | 11:31 AM | 0.8 | 6:43  | 0.5 | 6:02  | -0.1 | 7:14  | 6:02 |  |
| 21   | Sun | 1:13  | 1.4 | 12:28    | 0.8 | 7:47  | 0.4 | 6:40  | -0.2 | 7:15  | 6:03 |  |
| 22   | Mon | 1:53  | 1.6 | 1:22     | 0.7 | 8:42  | 0.3 | 7:20  | -0.2 | 7:15  | 6:03 |  |
| 23   | Tue | 2:34  | 1.7 | 2:13     | 0.7 | 9:32  | 0.2 | 8:01  | -0.3 | 7:16  | 6:04 |  |
| 24   | Wed | 3:16  | 1.9 | 3:04     | 0.7 | 10:20 | 0.1 | 8:45  | -0.3 | 7:16  | 6:04 |  |
| 25   | Thu | 3:59  | 1.9 | 3:56     | 0.6 | 11:06 | 0.0 | 9:30  | -0.2 | 7:17  | 6:05 |  |
| 26   | Fri | 4:43  | 1.9 | 4:50     | 0.6 | 11:53 | 0.0 | 10:17 | -0.2 | 7:17  | 6:06 |  |
| 27   | Sat | 5:27  | 1.9 | 5:49     | 0.7 |       |     | 12:40 | 0.0  | 7:18  | 6:06 |  |
| 28   | Sun | 6:13  | 1.7 | 6:55     | 0.7 |       |     | 1:28  | 0.0  | 7:18  | 6:07 |  |
| 29   | Mon | 7:00  | 1.6 | 8:11     | 0.7 | 12:05 | 0.1 | 2:16  | 0.0  | 7:18  | 6:07 |  |
| 30   | Tue | 7:50  | 1.3 | 9:35     | 0.9 | 1:14  | 0.3 | 3:06  | 0.0  | 7:19  | 6:08 |  |
| 31   | Wed | 8:45  | 1.1 | 10:56    | 1.0 | 2:42  | 0.5 | 4:01  | 0.0  | 7:19  | 6:09 |  |