

## Nonopapa, Niihau Island, HI - Dec 1949

| Date |     | High  |     |          |     | Low   |     |       |      |  |      |    |
|------|-----|-------|-----|----------|-----|-------|-----|-------|------|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft  | PM       | ft  | AM    | ft  | PM    | ft   | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Thu | 1:45  | 1.4 | 12:53    | 0.8 | 8:11  | 0.5 | 7:01  | 0.0  | 7:03                                                                                | 5:57 |    |
| 2    | Fri | 2:15  | 1.5 | 1:29     | 0.7 | 9:02  | 0.4 | 7:25  | 0.0  | 7:03                                                                                | 5:57 |    |
| 3    | Sat | 2:45  | 1.6 | 2:05     | 0.6 | 9:48  | 0.3 | 7:50  | -0.1 | 7:04                                                                                | 5:57 |    |
| 4    | Sun | 3:17  | 1.7 | 2:41     | 0.5 | 10:33 | 0.3 | 8:18  | -0.1 | 7:05                                                                                | 5:57 |    |
| 5    | Mon | 3:50  | 1.7 | 3:17     | 0.5 | 11:17 | 0.2 | 8:47  | -0.1 | 7:05                                                                                | 5:57 |    |
| 6    | Tue | 4:26  | 1.7 | 3:55     | 0.4 |       |     | 12:02 | 0.2  | 7:06                                                                                | 5:57 |    |
| 7    | Wed | 5:04  | 1.7 | 4:37     | 0.4 |       |     | 12:50 | 0.2  | 7:07                                                                                | 5:58 |    |
| 8    | Thu | 5:46  | 1.7 | 5:30     | 0.4 |       |     | 1:40  | 0.2  | 7:07                                                                                | 5:58 |    |
| 9    | Fri | 6:30  | 1.7 | 6:43     | 0.4 |       |     | 2:30  | 0.2  | 7:08                                                                                | 5:58 |    |
| 10   | Sat | 7:16  | 1.6 | 8:21     | 0.4 |       |     | 3:16  | 0.1  | 7:09                                                                                | 5:58 |    |
| 11   | Sun | 8:06  | 1.5 | 9:57     | 0.6 | 12:21 | 0.3 | 3:56  | 0.1  | 7:09                                                                                | 5:59 |    |
| 12   | Mon | 8:59  | 1.4 | 11:09    | 0.9 | 1:59  | 0.5 | 4:32  | 0.0  | 7:10                                                                                | 5:59 |   |
| 13   | Tue | 9:54  | 1.2 |          |     | 3:58  | 0.6 | 5:05  | 0.0  | 7:10                                                                                | 5:59 |  |
| 14   | Wed | 12:03 | 1.2 | 10:50 AM | 1.0 | 5:45  | 0.6 | 5:38  | -0.1 | 7:11                                                                                | 6:00 |  |
| 15   | Thu | 12:50 | 1.4 | 11:47 AM | 0.8 | 7:14  | 0.5 | 6:11  | -0.2 | 7:12                                                                                | 6:00 |  |
| 16   | Fri | 1:34  | 1.7 | 12:43    | 0.7 | 8:28  | 0.4 | 6:46  | -0.2 | 7:12                                                                                | 6:00 |  |
| 17   | Sat | 2:17  | 1.9 | 1:38     | 0.6 | 9:30  | 0.2 | 7:24  | -0.3 | 7:13                                                                                | 6:01 |  |
| 18   | Sun | 3:00  | 2.0 | 2:31     | 0.5 | 10:24 | 0.2 | 8:04  | -0.3 | 7:13                                                                                | 6:01 |  |
| 19   | Mon | 3:43  | 2.0 | 3:22     | 0.4 | 11:13 | 0.1 | 8:45  | -0.2 | 7:14                                                                                | 6:02 |  |
| 20   | Tue | 4:26  | 2.0 | 4:13     | 0.4 | 11:59 | 0.1 | 9:28  | -0.2 | 7:14                                                                                | 6:02 |  |
| 21   | Wed | 5:09  | 1.9 | 5:05     | 0.4 |       |     | 12:43 | 0.1  | 7:15                                                                                | 6:03 |  |
| 22   | Thu | 5:51  | 1.8 | 6:02     | 0.4 |       |     | 1:26  | 0.1  | 7:15                                                                                | 6:03 |  |
| 23   | Fri | 6:33  | 1.6 | 7:09     | 0.5 |       |     | 2:08  | 0.1  | 7:16                                                                                | 6:04 |  |
| 24   | Sat | 7:15  | 1.5 | 8:29     | 0.5 |       |     | 2:48  | 0.1  | 7:16                                                                                | 6:04 |  |
| 25   | Sun | 7:56  | 1.3 | 9:56     | 0.7 | 12:41 | 0.4 | 3:26  | 0.1  | 7:17                                                                                | 6:05 |  |
| 26   | Mon | 8:38  | 1.1 | 11:09    | 0.8 | 2:04  | 0.5 | 4:02  | 0.1  | 7:17                                                                                | 6:05 |  |
| 27   | Tue | 9:23  | 1.0 |          |     | 3:54  | 0.6 | 4:35  | 0.1  | 7:18                                                                                | 6:06 |  |
| 28   | Wed | 12:02 | 1.0 | 10:15 AM | 0.8 | 5:48  | 0.6 | 5:08  | 0.0  | 7:18                                                                                | 6:07 |  |
| 29   | Thu | 12:43 | 1.2 | 11:13 AM | 0.7 | 7:25  | 0.5 | 5:40  | 0.0  | 7:18                                                                                | 6:07 |  |
| 30   | Fri | 1:19  | 1.4 | 12:11    | 0.6 | 8:32  | 0.4 | 6:13  | 0.0  | 7:19                                                                                | 6:08 |  |

| Date |     | High |     |      |     | Low  |     |      |      |  |      |   |
|------|-----|------|-----|------|-----|------|-----|------|------|------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|
|      |     | AM   | ft  | PM   | ft  | AM   | ft  | PM   | ft   | Rise                                                                               | Set  | Moon                                                                                |
| 31   | Sat | 1:53 | 1.5 | 1:04 | 0.5 | 9:18 | 0.3 | 6:43 | -0.1 | 7:19                                                                               | 6:08 |  |