

## Astoria, OR - Dec 1887

| Date |     | High  |      |          |      | Low   |     |       |      |  |      |    |
|------|-----|-------|------|----------|------|-------|-----|-------|------|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft   | PM       | ft   | AM    | ft  | PM    | ft   | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Thu | 2:00  | 7.8  | 1:04     | 9.3  | 7:23  | 3.1 | 8:12  | -0.4 | 7:37                                                                                | 4:31 |    |
| 2    | Fri | 2:40  | 7.9  | 1:37     | 9.3  | 8:02  | 3.2 | 8:47  | -0.4 | 7:38                                                                                | 4:30 |    |
| 3    | Sat | 3:21  | 7.8  | 2:13     | 9.3  | 8:41  | 3.3 | 9:23  | -0.4 | 7:39                                                                                | 4:30 |    |
| 4    | Sun | 4:03  | 7.8  | 2:54     | 9.1  | 9:22  | 3.4 | 10:01 | -0.2 | 7:40                                                                                | 4:30 |    |
| 5    | Mon | 4:47  | 7.8  | 3:42     | 8.7  | 10:10 | 3.4 | 10:45 | 0.1  | 7:42                                                                                | 4:29 |    |
| 6    | Tue | 5:34  | 7.8  | 4:39     | 8.2  | 11:07 | 3.4 | 11:35 | 0.5  | 7:43                                                                                | 4:29 |    |
| 7    | Wed | 6:26  | 7.9  | 5:50     | 7.6  |       |     | 12:16 | 3.2  | 7:44                                                                                | 4:29 |    |
| 8    | Thu | 7:21  | 8.2  | 7:12     | 7.2  | 12:34 | 0.9 | 1:32  | 2.7  | 7:45                                                                                | 4:29 |    |
| 9    | Fri | 8:15  | 8.6  | 8:36     | 7.2  | 1:39  | 1.3 | 2:45  | 2.0  | 7:46                                                                                | 4:29 |    |
| 10   | Sat | 9:08  | 9.1  | 9:52     | 7.4  | 2:42  | 1.6 | 3:51  | 1.0  | 7:47                                                                                | 4:29 |    |
| 11   | Sun | 9:58  | 9.7  | 10:58    | 7.7  | 3:42  | 1.8 | 4:49  | 0.1  | 7:48                                                                                | 4:29 |    |
| 12   | Mon | 10:46 | 10.1 | 11:57    | 8.1  | 4:37  | 2.0 | 5:42  | -0.6 | 7:48                                                                                | 4:29 |   |
| 13   | Tue | 11:32 | 10.4 |          |      | 5:30  | 2.2 | 6:33  | -1.1 | 7:49                                                                                | 4:29 |  |
| 14   | Wed | 12:51 | 8.4  | 12:17    | 10.5 | 6:22  | 2.4 | 7:21  | -1.3 | 7:50                                                                                | 4:29 |  |
| 15   | Thu | 1:42  | 8.5  | 1:02     | 10.4 | 7:13  | 2.6 | 8:07  | -1.3 | 7:51                                                                                | 4:29 |  |
| 16   | Fri | 2:32  | 8.6  | 1:46     | 10.1 | 8:02  | 2.8 | 8:51  | -1.1 | 7:52                                                                                | 4:29 |  |
| 17   | Sat | 3:20  | 8.6  | 2:31     | 9.6  | 8:51  | 2.9 | 9:34  | -0.7 | 7:52                                                                                | 4:30 |  |
| 18   | Sun | 4:06  | 8.5  | 3:17     | 9.0  | 9:39  | 3.0 | 10:14 | -0.1 | 7:53                                                                                | 4:30 |  |
| 19   | Mon | 4:52  | 8.3  | 4:05     | 8.3  | 10:29 | 3.2 | 10:55 | 0.5  | 7:54                                                                                | 4:30 |  |
| 20   | Tue | 5:38  | 8.2  | 4:58     | 7.6  | 11:23 | 3.2 | 11:38 | 1.1  | 7:54                                                                                | 4:31 |  |
| 21   | Wed | 6:25  | 8.1  | 6:00     | 7.0  |       |     | 12:24 | 3.2  | 7:55                                                                                | 4:31 |  |
| 22   | Thu | 7:13  | 8.1  | 7:12     | 6.5  | 12:26 | 1.7 | 1:31  | 3.0  | 7:55                                                                                | 4:32 |  |
| 23   | Fri | 8:01  | 8.1  | 8:27     | 6.4  | 1:18  | 2.2 | 2:38  | 2.5  | 7:56                                                                                | 4:32 |  |
| 24   | Sat | 8:48  | 8.3  | 9:37     | 6.5  | 2:14  | 2.6 | 3:37  | 1.9  | 7:56                                                                                | 4:33 |  |
| 25   | Sun | 9:32  | 8.6  | 10:39    | 6.8  | 3:09  | 2.9 | 4:29  | 1.3  | 7:56                                                                                | 4:34 |  |
| 26   | Mon | 10:14 | 8.8  | 11:32    | 7.2  | 4:01  | 3.1 | 5:16  | 0.7  | 7:57                                                                                | 4:34 |  |
| 27   | Tue | 10:52 | 9.1  |          |      | 4:50  | 3.3 | 5:58  | 0.3  | 7:57                                                                                | 4:35 |  |
| 28   | Wed | 12:19 | 7.5  | 11:30 AM | 9.3  | 5:36  | 3.4 | 6:39  | -0.1 | 7:57                                                                                | 4:36 |  |
| 29   | Thu | 1:03  | 7.8  | 12:07    | 9.5  | 6:21  | 3.4 | 7:18  | -0.4 | 7:57                                                                                | 4:37 |  |
| 30   | Fri | 1:44  | 8.0  | 12:44    | 9.6  | 7:05  | 3.4 | 7:55  | -0.6 | 7:57                                                                                | 4:37 |  |
| 31   | Sat | 2:24  | 8.2  | 1:23     | 9.6  | 7:47  | 3.3 | 8:33  | -0.7 | 7:58                                                                                | 4:38 |  |