

## Astoria, OR - Jun 1857

| Date |     | High  |     |       |     | Low   |      |       |     |  |      |    |
|------|-----|-------|-----|-------|-----|-------|------|-------|-----|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft  | PM    | ft  | AM    | ft   | PM    | ft  | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Mon | 8:40  | 6.1 | 9:13  | 8.0 | 2:52  | 1.9  | 2:45  | 1.6 | 4:33                                                                                | 8:05 |    |
| 2    | Tue | 9:48  | 6.1 | 9:52  | 8.2 | 3:50  | 1.2  | 3:31  | 2.0 | 4:32                                                                                | 8:06 |    |
| 3    | Wed | 10:48 | 6.3 | 10:28 | 8.4 | 4:40  | 0.6  | 4:15  | 2.4 | 4:32                                                                                | 8:07 |    |
| 4    | Thu | 11:42 | 6.5 | 11:01 | 8.6 | 5:25  | 0.1  | 4:58  | 2.8 | 4:31                                                                                | 8:08 |    |
| 5    | Fri |       |     | 12:30 | 6.8 | 6:07  | -0.3 | 5:40  | 3.1 | 4:31                                                                                | 8:09 |    |
| 6    | Sat |       |     | 1:16  | 6.9 | 6:47  | -0.6 | 6:22  | 3.4 | 4:31                                                                                | 8:10 |    |
| 7    | Sun | 12:06 | 8.8 | 1:59  | 7.0 | 7:25  | -0.7 | 7:03  | 3.5 | 4:30                                                                                | 8:10 |    |
| 8    | Mon | 12:39 | 8.8 | 2:41  | 7.1 | 8:02  | -0.7 | 7:44  | 3.6 | 4:30                                                                                | 8:11 |    |
| 9    | Tue | 1:14  | 8.8 | 3:21  | 7.0 | 8:38  | -0.8 | 8:24  | 3.6 | 4:30                                                                                | 8:12 |    |
| 10   | Wed | 1:52  | 8.8 | 4:01  | 7.0 | 9:14  | -0.8 | 9:05  | 3.5 | 4:29                                                                                | 8:12 |    |
| 11   | Thu | 2:33  | 8.6 | 4:39  | 7.0 | 9:50  | -0.7 | 9:50  | 3.4 | 4:29                                                                                | 8:13 |    |
| 12   | Fri | 3:19  | 8.4 | 5:19  | 7.0 | 10:28 | -0.6 | 10:40 | 3.1 | 4:29                                                                                | 8:13 |   |
| 13   | Sat | 4:11  | 7.9 | 6:00  | 7.2 | 11:10 | -0.3 | 11:40 | 2.8 | 4:29                                                                                | 8:14 |  |
| 14   | Sun | 5:13  | 7.3 | 6:43  | 7.5 | 11:56 | 0.2  |       |     | 4:29                                                                                | 8:14 |  |
| 15   | Mon | 6:26  | 6.7 | 7:28  | 7.9 | 12:48 | 2.3  | 12:48 | 0.7 | 4:29                                                                                | 8:15 |  |
| 16   | Tue | 7:47  | 6.4 | 8:16  | 8.4 | 2:00  | 1.6  | 1:44  | 1.3 | 4:29                                                                                | 8:15 |  |
| 17   | Wed | 9:09  | 6.3 | 9:04  | 8.9 | 3:08  | 0.7  | 2:42  | 1.9 | 4:29                                                                                | 8:16 |  |
| 18   | Thu | 10:24 | 6.5 | 9:53  | 9.4 | 4:11  | -0.2 | 3:41  | 2.4 | 4:29                                                                                | 8:16 |  |
| 19   | Fri | 11:30 | 6.8 | 10:44 | 9.7 | 5:09  | -0.9 | 4:39  | 2.7 | 4:29                                                                                | 8:16 |  |
| 20   | Sat |       |     | 12:30 | 7.1 | 6:05  | -1.5 | 5:37  | 3.0 | 4:29                                                                                | 8:17 |  |
| 21   | Sun |       |     | 1:25  | 7.3 | 6:58  | -1.8 | 6:34  | 3.0 | 4:29                                                                                | 8:17 |  |
| 22   | Mon | 12:25 | 9.8 | 2:17  | 7.5 | 7:49  | -1.8 | 7:30  | 3.0 | 4:30                                                                                | 8:17 |  |
| 23   | Tue | 1:16  | 9.6 | 3:07  | 7.6 | 8:37  | -1.7 | 8:24  | 2.9 | 4:30                                                                                | 8:17 |  |
| 24   | Wed | 2:06  | 9.2 | 3:54  | 7.6 | 9:22  | -1.5 | 9:17  | 2.7 | 4:30                                                                                | 8:17 |  |
| 25   | Thu | 2:57  | 8.7 | 4:39  | 7.6 | 10:05 | -1.1 | 10:09 | 2.6 | 4:31                                                                                | 8:17 |  |
| 26   | Fri | 3:49  | 8.0 | 5:22  | 7.6 | 10:45 | -0.5 | 11:04 | 2.5 | 4:31                                                                                | 8:17 |  |
| 27   | Sat | 4:43  | 7.3 | 6:04  | 7.6 | 11:25 | 0.1  |       |     | 4:32                                                                                | 8:17 |  |
| 28   | Sun | 5:44  | 6.5 | 6:46  | 7.6 | 12:02 | 2.3  | 12:06 | 0.8 | 4:32                                                                                | 8:17 |  |
| 29   | Mon | 6:51  | 5.9 | 7:28  | 7.7 | 1:06  | 2.0  | 12:51 | 1.5 | 4:32                                                                                | 8:17 |  |
| 30   | Tue | 8:05  | 5.6 | 8:10  | 7.8 | 2:10  | 1.6  | 1:40  | 2.2 | 4:33                                                                                | 8:17 |  |