

## Astoria (Youngs Bay), OR - Nov 1881

| Date |     | High  |     |          |      | Low   |     |       |      |  |      |    |
|------|-----|-------|-----|----------|------|-------|-----|-------|------|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft  | PM       | ft   | AM    | ft  | PM    | ft   | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Tue | 8:59  | 8.2 | 9:12     | 7.4  | 2:30  | 0.8 | 3:17  | 1.4  | 7:04                                                                                | 5:07 |    |
| 2    | Wed | 9:48  | 8.8 | 10:18    | 7.7  | 3:26  | 1.0 | 4:16  | 0.5  | 7:05                                                                                | 5:06 |    |
| 3    | Thu | 10:32 | 9.3 | 11:17    | 7.9  | 4:17  | 1.2 | 5:09  | -0.3 | 7:07                                                                                | 5:05 |    |
| 4    | Fri | 11:13 | 9.7 |          |      | 5:04  | 1.5 | 5:58  | -0.9 | 7:08                                                                                | 5:03 |    |
| 5    | Sat | 12:10 | 8.1 | 11:52 AM | 9.8  | 5:50  | 1.8 | 6:44  | -1.1 | 7:09                                                                                | 5:02 |    |
| 6    | Sun | 1:00  | 8.1 | 12:30    | 9.8  | 6:33  | 2.2 | 7:28  | -1.2 | 7:11                                                                                | 5:00 |    |
| 7    | Mon | 1:47  | 8.1 | 1:07     | 9.6  | 7:16  | 2.5 | 8:10  | -1.0 | 7:12                                                                                | 4:59 |    |
| 8    | Tue | 2:34  | 8.0 | 1:44     | 9.3  | 7:59  | 2.8 | 8:50  | -0.6 | 7:14                                                                                | 4:58 |    |
| 9    | Wed | 3:20  | 7.8 | 2:21     | 8.9  | 8:41  | 3.1 | 9:30  | -0.2 | 7:15                                                                                | 4:57 |    |
| 10   | Thu | 4:06  | 7.6 | 3:00     | 8.4  | 9:24  | 3.3 | 10:09 | 0.3  | 7:17                                                                                | 4:55 |    |
| 11   | Fri | 4:53  | 7.4 | 3:44     | 7.9  | 10:11 | 3.5 | 10:51 | 0.8  | 7:18                                                                                | 4:54 |    |
| 12   | Sat | 5:41  | 7.2 | 4:35     | 7.3  | 11:05 | 3.6 | 11:37 | 1.2  | 7:20                                                                                | 4:53 |   |
| 13   | Sun | 6:31  | 7.2 | 5:41     | 6.7  |       |     | 12:10 | 3.5  | 7:21                                                                                | 4:52 |  |
| 14   | Mon | 7:21  | 7.3 | 6:58     | 6.4  | 12:30 | 1.6 | 1:21  | 3.2  | 7:22                                                                                | 4:51 |  |
| 15   | Tue | 8:10  | 7.6 | 8:16     | 6.3  | 1:26  | 2.0 | 2:28  | 2.7  | 7:24                                                                                | 4:50 |  |
| 16   | Wed | 8:54  | 8.0 | 9:26     | 6.5  | 2:21  | 2.2 | 3:26  | 1.9  | 7:25                                                                                | 4:49 |  |
| 17   | Thu | 9:34  | 8.4 | 10:26    | 6.8  | 3:12  | 2.4 | 4:16  | 1.2  | 7:27                                                                                | 4:48 |  |
| 18   | Fri | 10:11 | 8.8 | 11:18    | 7.2  | 3:59  | 2.5 | 5:02  | 0.5  | 7:28                                                                                | 4:47 |  |
| 19   | Sat | 10:47 | 9.2 |          |      | 4:44  | 2.7 | 5:45  | -0.1 | 7:29                                                                                | 4:46 |  |
| 20   | Sun | 12:07 | 7.5 | 11:23 AM | 9.5  | 5:28  | 2.9 | 6:27  | -0.5 | 7:31                                                                                | 4:45 |  |
| 21   | Mon | 12:53 | 7.8 | 12:00    | 9.8  | 6:12  | 3.1 | 7:10  | -0.9 | 7:32                                                                                | 4:44 |  |
| 22   | Tue | 1:39  | 7.9 | 12:40    | 10.0 | 6:57  | 3.2 | 7:52  | -1.0 | 7:33                                                                                | 4:43 |  |
| 23   | Wed | 2:24  | 8.0 | 1:23     | 10.0 | 7:43  | 3.2 | 8:35  | -1.0 | 7:35                                                                                | 4:43 |  |
| 24   | Thu | 3:11  | 8.0 | 2:09     | 9.8  | 8:30  | 3.2 | 9:19  | -0.9 | 7:36                                                                                | 4:42 |  |
| 25   | Fri | 3:58  | 8.0 | 3:00     | 9.4  | 9:22  | 3.1 | 10:05 | -0.5 | 7:37                                                                                | 4:41 |  |
| 26   | Sat | 4:47  | 8.1 | 3:58     | 8.8  | 10:19 | 3.0 | 10:54 | 0.0  | 7:39                                                                                | 4:41 |  |
| 27   | Sun | 5:38  | 8.2 | 5:04     | 8.1  | 11:25 | 2.9 | 11:48 | 0.5  | 7:40                                                                                | 4:40 |  |
| 28   | Mon | 6:32  | 8.4 | 6:21     | 7.5  |       |     | 12:38 | 2.5  | 7:41                                                                                | 4:39 |  |
| 29   | Tue | 7:26  | 8.7 | 7:42     | 7.1  | 12:47 | 1.2 | 1:53  | 1.9  | 7:42                                                                                | 4:39 |  |
| 30   | Wed | 8:20  | 9.0 | 9:01     | 7.1  | 1:49  | 1.7 | 3:02  | 1.2  | 7:44                                                                                | 4:38 |  |