

## Astoria (Youngs Bay), OR - Nov 1831

| Date |     | High  |     |       |      | Low   |     |       |      |  |      |    |
|------|-----|-------|-----|-------|------|-------|-----|-------|------|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft  | PM    | ft   | AM    | ft  | PM    | ft   | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Tue | 10:52 | 8.9 | 11:15 | 7.9  | 4:36  | 0.7 | 5:12  | 0.5  | 7:03                                                                                | 5:09 |    |
| 2    | Wed | 11:29 | 9.1 |       |      | 5:19  | 0.9 | 5:57  | 0.1  | 7:04                                                                                | 5:07 |    |
| 3    | Thu | 12:03 | 8.0 | 12:03 | 9.2  | 5:58  | 1.3 | 6:38  | -0.2 | 7:05                                                                                | 5:06 |    |
| 4    | Fri | 12:47 | 8.0 | 12:35 | 9.1  | 6:35  | 1.6 | 7:16  | -0.4 | 7:07                                                                                | 5:04 |    |
| 5    | Sat | 1:30  | 7.9 | 1:05  | 9.0  | 7:11  | 2.0 | 7:53  | -0.3 | 7:08                                                                                | 5:03 |    |
| 6    | Sun | 2:12  | 7.8 | 1:33  | 8.9  | 7:46  | 2.4 | 8:27  | -0.2 | 7:10                                                                                | 5:02 |    |
| 7    | Mon | 2:53  | 7.7 | 2:01  | 8.8  | 8:20  | 2.8 | 9:00  | 0.0  | 7:11                                                                                | 5:00 |    |
| 8    | Tue | 3:35  | 7.5 | 2:31  | 8.6  | 8:56  | 3.1 | 9:33  | 0.2  | 7:13                                                                                | 4:59 |    |
| 9    | Wed | 4:18  | 7.2 | 3:06  | 8.3  | 9:34  | 3.4 | 10:09 | 0.5  | 7:14                                                                                | 4:58 |    |
| 10   | Thu | 5:06  | 7.1 | 3:47  | 7.9  | 10:19 | 3.7 | 10:52 | 0.9  | 7:16                                                                                | 4:56 |    |
| 11   | Fri | 5:58  | 7.0 | 4:40  | 7.5  | 11:16 | 3.8 | 11:46 | 1.2  | 7:17                                                                                | 4:55 |    |
| 12   | Sat | 6:54  | 7.0 | 5:49  | 7.1  |       |     | 12:27 | 3.8  | 7:18                                                                                | 4:54 |   |
| 13   | Sun | 7:50  | 7.2 | 7:11  | 6.8  | 12:49 | 1.4 | 1:42  | 3.4  | 7:20                                                                                | 4:53 |  |
| 14   | Mon | 8:41  | 7.7 | 8:31  | 7.0  | 1:54  | 1.4 | 2:49  | 2.7  | 7:21                                                                                | 4:52 |  |
| 15   | Tue | 9:26  | 8.2 | 9:40  | 7.3  | 2:53  | 1.4 | 3:47  | 1.8  | 7:23                                                                                | 4:51 |  |
| 16   | Wed | 10:08 | 8.7 | 10:41 | 7.7  | 3:45  | 1.4 | 4:38  | 0.9  | 7:24                                                                                | 4:50 |  |
| 17   | Thu | 10:47 | 9.3 | 11:36 | 8.1  | 4:34  | 1.5 | 5:27  | 0.0  | 7:26                                                                                | 4:49 |  |
| 18   | Fri | 11:27 | 9.8 |       |      | 5:21  | 1.6 | 6:15  | -0.7 | 7:27                                                                                | 4:48 |  |
| 19   | Sat | 12:28 | 8.4 | 12:07 | 10.2 | 6:08  | 1.8 | 7:02  | -1.2 | 7:28                                                                                | 4:47 |  |
| 20   | Sun | 1:20  | 8.5 | 12:49 | 10.4 | 6:55  | 2.0 | 7:49  | -1.4 | 7:30                                                                                | 4:46 |  |
| 21   | Mon | 2:11  | 8.6 | 1:33  | 10.3 | 7:43  | 2.3 | 8:37  | -1.4 | 7:31                                                                                | 4:45 |  |
| 22   | Tue | 3:04  | 8.5 | 2:20  | 10.1 | 8:33  | 2.5 | 9:26  | -1.2 | 7:32                                                                                | 4:44 |  |
| 23   | Wed | 3:57  | 8.4 | 3:10  | 9.6  | 9:26  | 2.8 | 10:16 | -0.7 | 7:34                                                                                | 4:43 |  |
| 24   | Thu | 4:53  | 8.3 | 4:07  | 8.9  | 10:24 | 3.0 | 11:11 | -0.1 | 7:35                                                                                | 4:43 |  |
| 25   | Fri | 5:51  | 8.2 | 5:12  | 8.2  | 11:30 | 3.1 |       |      | 7:36                                                                                | 4:42 |  |
| 26   | Sat | 6:50  | 8.2 | 6:27  | 7.6  | 12:10 | 0.5 | 12:44 | 3.0  | 7:38                                                                                | 4:41 |  |
| 27   | Sun | 7:49  | 8.4 | 7:46  | 7.2  | 1:12  | 1.0 | 1:59  | 2.6  | 7:39                                                                                | 4:40 |  |
| 28   | Mon | 8:43  | 8.6 | 9:00  | 7.2  | 2:13  | 1.4 | 3:06  | 1.9  | 7:40                                                                                | 4:40 |  |
| 29   | Tue | 9:32  | 8.9 | 10:05 | 7.3  | 3:08  | 1.6 | 4:04  | 1.2  | 7:41                                                                                | 4:39 |  |
| 30   | Wed | 10:15 | 9.2 | 11:01 | 7.6  | 3:58  | 1.9 | 4:54  | 0.6  | 7:43                                                                                | 4:39 |  |