

## Astoria (Youngs Bay), OR - Dec 1837

| Date |     | High  |      |          |      | Low   |     |       |      |  |      |    |
|------|-----|-------|------|----------|------|-------|-----|-------|------|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft   | PM       | ft   | AM    | ft  | PM    | ft   | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Fri | 3:54  | 7.7  | 2:35     | 9.7  | 8:59  | 3.9 | 9:55  | -0.6 | 7:45                                                                                | 4:38 |    |
| 2    | Sat | 4:45  | 7.7  | 3:30     | 9.2  | 9:54  | 3.8 | 10:46 | -0.2 | 7:46                                                                                | 4:38 |    |
| 3    | Sun | 5:37  | 7.7  | 4:34     | 8.5  | 10:59 | 3.7 | 11:41 | 0.3  | 7:47                                                                                | 4:37 |    |
| 4    | Mon | 6:31  | 7.9  | 5:50     | 7.8  |       |     | 12:14 | 3.4  | 7:48                                                                                | 4:37 |    |
| 5    | Tue | 7:25  | 8.3  | 7:13     | 7.3  | 12:40 | 0.8 | 1:32  | 2.7  | 7:49                                                                                | 4:37 |    |
| 6    | Wed | 8:16  | 8.7  | 8:34     | 7.1  | 1:39  | 1.3 | 2:44  | 1.9  | 7:50                                                                                | 4:37 |    |
| 7    | Thu | 9:04  | 9.2  | 9:48     | 7.2  | 2:36  | 1.7 | 3:47  | 0.9  | 7:51                                                                                | 4:36 |    |
| 8    | Fri | 9:49  | 9.6  | 10:53    | 7.5  | 3:30  | 2.2 | 4:43  | 0.1  | 7:52                                                                                | 4:36 |    |
| 9    | Sat | 10:31 | 9.9  | 11:49    | 7.7  | 4:20  | 2.6 | 5:33  | -0.5 | 7:53                                                                                | 4:36 |    |
| 10   | Sun | 11:11 | 10.0 |          |      | 5:09  | 3.0 | 6:19  | -0.8 | 7:54                                                                                | 4:36 |    |
| 11   | Mon | 12:41 | 8.0  | 11:50 AM | 10.0 | 5:56  | 3.4 | 7:03  | -0.9 | 7:55                                                                                | 4:36 |    |
| 12   | Tue | 1:29  | 8.1  | 12:28    | 9.9  | 6:42  | 3.7 | 7:45  | -0.8 | 7:56                                                                                | 4:36 |   |
| 13   | Wed | 2:15  | 8.1  | 1:06     | 9.6  | 7:26  | 3.9 | 8:24  | -0.5 | 7:57                                                                                | 4:36 |  |
| 14   | Thu | 2:59  | 8.0  | 1:44     | 9.3  | 8:09  | 4.0 | 9:01  | -0.2 | 7:57                                                                                | 4:37 |  |
| 15   | Fri | 3:40  | 7.9  | 2:22     | 8.9  | 8:51  | 4.0 | 9:36  | 0.1  | 7:58                                                                                | 4:37 |  |
| 16   | Sat | 4:21  | 7.8  | 3:02     | 8.5  | 9:34  | 4.0 | 10:11 | 0.5  | 7:59                                                                                | 4:37 |  |
| 17   | Sun | 5:01  | 7.7  | 3:47     | 7.9  | 10:21 | 3.9 | 10:46 | 0.9  | 8:00                                                                                | 4:37 |  |
| 18   | Mon | 5:40  | 7.7  | 4:39     | 7.3  | 11:14 | 3.8 | 11:25 | 1.4  | 8:00                                                                                | 4:38 |  |
| 19   | Tue | 6:21  | 7.7  | 5:44     | 6.7  |       |     | 12:16 | 3.6  | 8:01                                                                                | 4:38 |  |
| 20   | Wed | 7:02  | 7.9  | 7:02     | 6.3  | 12:09 | 1.9 | 1:24  | 3.1  | 8:02                                                                                | 4:39 |  |
| 21   | Thu | 7:44  | 8.2  | 8:24     | 6.2  | 1:00  | 2.4 | 2:30  | 2.5  | 8:02                                                                                | 4:39 |  |
| 22   | Fri | 8:26  | 8.6  | 9:40     | 6.4  | 1:55  | 2.9 | 3:29  | 1.8  | 8:03                                                                                | 4:39 |  |
| 23   | Sat | 9:08  | 9.0  | 10:45    | 6.8  | 2:51  | 3.4 | 4:21  | 1.0  | 8:03                                                                                | 4:40 |  |
| 24   | Sun | 9:50  | 9.4  | 11:42    | 7.2  | 3:46  | 3.7 | 5:10  | 0.3  | 8:03                                                                                | 4:41 |  |
| 25   | Mon | 10:34 | 9.8  |          |      | 4:39  | 4.0 | 5:57  | -0.3 | 8:04                                                                                | 4:41 |  |
| 26   | Tue | 12:33 | 7.6  | 11:19 AM | 10.1 | 5:31  | 4.1 | 6:44  | -0.7 | 8:04                                                                                | 4:42 |  |
| 27   | Wed | 1:21  | 7.9  | 12:05    | 10.3 | 6:23  | 4.1 | 7:29  | -1.0 | 8:04                                                                                | 4:43 |  |
| 28   | Thu | 2:07  | 8.1  | 12:53    | 10.4 | 7:14  | 3.9 | 8:14  | -1.2 | 8:05                                                                                | 4:43 |  |
| 29   | Fri | 2:51  | 8.2  | 1:43     | 10.3 | 8:05  | 3.7 | 8:58  | -1.1 | 8:05                                                                                | 4:44 |  |
| 30   | Sat | 3:35  | 8.3  | 2:36     | 9.9  | 8:57  | 3.4 | 9:41  | -0.8 | 8:05                                                                                | 4:45 |  |
| 31   | Sun | 4:19  | 8.5  | 3:31     | 9.3  | 9:52  | 3.1 | 10:22 | -0.4 | 8:05                                                                                | 4:46 |  |