

## Astoria (Youngs Bay), OR - Dec 1909

| Date |     | High  |      |          |      | Low   |     |       |      |  |      |    |
|------|-----|-------|------|----------|------|-------|-----|-------|------|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft   | PM       | ft   | AM    | ft  | PM    | ft   | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Wed | 4:20  | 8.0  | 3:14     | 9.0  | 9:37  | 3.7 | 10:28 | 0.0  | 7:37                                                                                | 4:31 |    |
| 2    | Thu | 5:12  | 7.9  | 4:05     | 8.3  | 10:31 | 3.8 | 11:16 | 0.6  | 7:38                                                                                | 4:31 |    |
| 3    | Fri | 6:05  | 7.7  | 5:05     | 7.5  | 11:33 | 3.9 |       |      | 7:39                                                                                | 4:30 |    |
| 4    | Sat | 6:57  | 7.7  | 6:16     | 6.9  | 12:07 | 1.2 | 12:43 | 3.7  | 7:40                                                                                | 4:30 |    |
| 5    | Sun | 7:48  | 7.9  | 7:33     | 6.6  | 1:01  | 1.6 | 1:54  | 3.3  | 7:41                                                                                | 4:30 |    |
| 6    | Mon | 8:35  | 8.1  | 8:48     | 6.5  | 1:56  | 2.0 | 2:58  | 2.6  | 7:42                                                                                | 4:30 |    |
| 7    | Tue | 9:17  | 8.4  | 9:53     | 6.7  | 2:47  | 2.3 | 3:53  | 1.9  | 7:43                                                                                | 4:29 |    |
| 8    | Wed | 9:54  | 8.7  | 10:50    | 7.0  | 3:34  | 2.6 | 4:40  | 1.2  | 7:44                                                                                | 4:29 |    |
| 9    | Thu | 10:29 | 9.0  | 11:40    | 7.3  | 4:18  | 2.9 | 5:23  | 0.6  | 7:45                                                                                | 4:29 |    |
| 10   | Fri | 11:01 | 9.2  |          |      | 5:00  | 3.1 | 6:03  | 0.2  | 7:46                                                                                | 4:29 |    |
| 11   | Sat | 12:26 | 7.5  | 11:33 AM | 9.4  | 5:41  | 3.4 | 6:41  | -0.2 | 7:47                                                                                | 4:29 |    |
| 12   | Sun | 1:11  | 7.7  | 12:06    | 9.6  | 6:22  | 3.6 | 7:19  | -0.4 | 7:48                                                                                | 4:29 |    |
| 13   | Mon | 1:53  | 7.8  | 12:40    | 9.7  | 7:03  | 3.8 | 7:56  | -0.5 | 7:49                                                                                | 4:29 |   |
| 14   | Tue | 2:35  | 7.9  | 1:17     | 9.7  | 7:44  | 3.9 | 8:34  | -0.5 | 7:50                                                                                | 4:29 |  |
| 15   | Wed | 3:17  | 7.9  | 1:57     | 9.6  | 8:26  | 3.9 | 9:12  | -0.5 | 7:51                                                                                | 4:30 |  |
| 16   | Thu | 3:59  | 7.9  | 2:42     | 9.4  | 9:11  | 3.9 | 9:52  | -0.3 | 7:51                                                                                | 4:30 |  |
| 17   | Fri | 4:42  | 7.9  | 3:33     | 9.0  | 10:01 | 3.8 | 10:37 | 0.0  | 7:52                                                                                | 4:30 |  |
| 18   | Sat | 5:28  | 8.0  | 4:34     | 8.3  | 11:01 | 3.6 | 11:26 | 0.5  | 7:53                                                                                | 4:30 |  |
| 19   | Sun | 6:17  | 8.2  | 5:46     | 7.7  |       |     | 12:11 | 3.2  | 7:53                                                                                | 4:31 |  |
| 20   | Mon | 7:08  | 8.5  | 7:09     | 7.2  | 12:22 | 1.0 | 1:27  | 2.6  | 7:54                                                                                | 4:31 |  |
| 21   | Tue | 7:59  | 8.9  | 8:32     | 7.1  | 1:22  | 1.6 | 2:39  | 1.8  | 7:55                                                                                | 4:32 |  |
| 22   | Wed | 8:50  | 9.4  | 9:48     | 7.3  | 2:23  | 2.1 | 3:43  | 0.8  | 7:55                                                                                | 4:32 |  |
| 23   | Thu | 9:39  | 9.9  | 10:55    | 7.6  | 3:22  | 2.5 | 4:41  | 0.0  | 7:56                                                                                | 4:33 |  |
| 24   | Fri | 10:27 | 10.3 | 11:54    | 8.0  | 4:18  | 2.8 | 5:35  | -0.7 | 7:56                                                                                | 4:33 |  |
| 25   | Sat | 11:13 | 10.4 |          |      | 5:12  | 3.1 | 6:25  | -1.0 | 7:56                                                                                | 4:34 |  |
| 26   | Sun | 12:48 | 8.2  | 11:59 AM | 10.5 | 6:05  | 3.3 | 7:12  | -1.2 | 7:57                                                                                | 4:35 |  |
| 27   | Mon | 1:38  | 8.4  | 12:44    | 10.3 | 6:56  | 3.4 | 7:57  | -1.1 | 7:57                                                                                | 4:35 |  |
| 28   | Tue | 2:25  | 8.5  | 1:28     | 10.0 | 7:45  | 3.5 | 8:40  | -0.8 | 7:57                                                                                | 4:36 |  |
| 29   | Wed | 3:11  | 8.5  | 2:12     | 9.5  | 8:33  | 3.5 | 9:20  | -0.4 | 7:57                                                                                | 4:37 |  |
| 30   | Thu | 3:54  | 8.4  | 2:57     | 9.0  | 9:20  | 3.5 | 9:58  | 0.1  | 7:58                                                                                | 4:38 |  |
| 31   | Fri | 4:36  | 8.2  | 3:43     | 8.3  | 10:07 | 3.5 | 10:36 | 0.7  | 7:58                                                                                | 4:38 |  |