

## Columbia River entrance, WA - Jul 1849

| Date |     | High  |     |       |     | Low   |      |          |     |  |      |    |
|------|-----|-------|-----|-------|-----|-------|------|----------|-----|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft  | PM    | ft  | AM    | ft   | PM       | ft  | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Sun | 10:13 | 5.5 | 9:46  | 7.5 | 3:46  | 0.3  | 3:22     | 2.5 | 4:34                                                                                | 8:18 |    |
| 2    | Mon | 11:04 | 5.8 | 10:26 | 7.6 | 4:32  | -0.1 | 4:09     | 2.7 | 4:35                                                                                | 8:18 |    |
| 3    | Tue | 11:50 | 6.0 | 11:03 | 7.6 | 5:14  | -0.3 | 4:55     | 2.8 | 4:36                                                                                | 8:18 |    |
| 4    | Wed |       |     | 12:32 | 6.2 | 5:53  | -0.5 | 5:38     | 2.8 | 4:36                                                                                | 8:17 |    |
| 5    | Thu |       |     | 1:12  | 6.3 | 6:30  | -0.6 | 6:20     | 2.8 | 4:37                                                                                | 8:17 |    |
| 6    | Fri | 12:16 | 7.6 | 1:50  | 6.3 | 7:05  | -0.7 | 7:00     | 2.7 | 4:38                                                                                | 8:17 |    |
| 7    | Sat | 12:51 | 7.5 | 2:25  | 6.4 | 7:37  | -0.7 | 7:39     | 2.6 | 4:39                                                                                | 8:16 |    |
| 8    | Sun | 1:28  | 7.4 | 2:58  | 6.4 | 8:09  | -0.6 | 8:18     | 2.5 | 4:39                                                                                | 8:16 |    |
| 9    | Mon | 2:07  | 7.1 | 3:32  | 6.5 | 8:40  | -0.5 | 8:59     | 2.3 | 4:40                                                                                | 8:15 |    |
| 10   | Tue | 2:50  | 6.8 | 4:07  | 6.6 | 9:14  | -0.2 | 9:45     | 2.2 | 4:41                                                                                | 8:15 |    |
| 11   | Wed | 3:40  | 6.4 | 4:45  | 6.7 | 9:52  | 0.2  | 10:40    | 2.0 | 4:42                                                                                | 8:14 |    |
| 12   | Thu | 4:40  | 5.8 | 5:30  | 6.9 | 10:37 | 0.7  | 11:46    | 1.7 | 4:43                                                                                | 8:14 |   |
| 13   | Fri | 5:52  | 5.4 | 6:21  | 7.2 | 11:32 | 1.3  |          |     | 4:44                                                                                | 8:13 |  |
| 14   | Sat | 7:13  | 5.1 | 7:17  | 7.5 | 12:58 | 1.2  | 12:36    | 1.8 | 4:45                                                                                | 8:12 |  |
| 15   | Sun | 8:33  | 5.2 | 8:15  | 7.8 | 2:08  | 0.6  | 1:43     | 2.1 | 4:46                                                                                | 8:11 |  |
| 16   | Mon | 9:44  | 5.6 | 9:13  | 8.2 | 3:12  | -0.2 | 2:50     | 2.3 | 4:47                                                                                | 8:11 |  |
| 17   | Tue | 10:45 | 6.0 | 10:10 | 8.5 | 4:11  | -0.9 | 3:52     | 2.3 | 4:48                                                                                | 8:10 |  |
| 18   | Wed | 11:41 | 6.5 | 11:04 | 8.7 | 5:05  | -1.4 | 4:51     | 2.1 | 4:49                                                                                | 8:09 |  |
| 19   | Thu |       |     | 12:32 | 6.8 | 5:56  | -1.7 | 5:48     | 1.9 | 4:50                                                                                | 8:08 |  |
| 20   | Fri |       |     | 1:20  | 7.1 | 6:44  | -1.8 | 6:42     | 1.7 | 4:51                                                                                | 8:07 |  |
| 21   | Sat | 12:48 | 8.5 | 2:06  | 7.2 | 7:30  | -1.7 | 7:34     | 1.5 | 4:52                                                                                | 8:06 |  |
| 22   | Sun | 1:38  | 8.1 | 2:50  | 7.3 | 8:12  | -1.4 | 8:25     | 1.4 | 4:53                                                                                | 8:05 |  |
| 23   | Mon | 2:29  | 7.5 | 3:34  | 7.2 | 8:54  | -0.9 | 9:16     | 1.3 | 4:54                                                                                | 8:04 |  |
| 24   | Tue | 3:21  | 6.9 | 4:16  | 7.1 | 9:34  | -0.3 | 10:09    | 1.4 | 4:55                                                                                | 8:03 |  |
| 25   | Wed | 4:16  | 6.1 | 5:00  | 7.0 | 10:16 | 0.5  | 11:06    | 1.4 | 4:56                                                                                | 8:02 |  |
| 26   | Thu | 5:17  | 5.5 | 5:46  | 6.8 | 11:01 | 1.2  |          |     | 4:57                                                                                | 8:01 |  |
| 27   | Fri | 6:25  | 5.0 | 6:35  | 6.7 | 12:09 | 1.4  | 11:53 AM | 1.9 | 4:58                                                                                | 8:00 |  |
| 28   | Sat | 7:37  | 4.8 | 7:27  | 6.7 | 1:16  | 1.2  | 12:51    | 2.4 | 5:00                                                                                | 7:58 |  |
| 29   | Sun | 8:48  | 4.9 | 8:20  | 6.8 | 2:19  | 0.9  | 1:52     | 2.7 | 5:01                                                                                | 7:57 |  |
| 30   | Mon | 9:49  | 5.2 | 9:10  | 6.9 | 3:15  | 0.5  | 2:50     | 2.8 | 5:02                                                                                | 7:56 |  |
| 31   | Tue | 10:41 | 5.6 | 9:57  | 7.1 | 4:04  | 0.1  | 3:43     | 2.8 | 5:03                                                                                | 7:55 |  |