































Columbia River entrance, WA - Jan 2018

| Date | | High | | | | Low | | | |  | |  |
|------|-----|-------|-----|----------|-----|-------|-----|-------|------|---|------|---|
| | | AM | ft | PM | ft | AM | ft | PM | ft | Rise | Set | Moon |
| 1 | Mon | 12:02 | 7.2 | 11:17 AM | 9.6 | 5:08 | 3.1 | 6:14 | -1.3 | 7:59 | 4:40 |  |
| 2 | Tue | 12:54 | 7.6 | 12:08 | 9.7 | 6:03 | 3.0 | 7:02 | -1.5 | 7:59 | 4:41 |  |
| 3 | Wed | 1:43 | 7.8 | 12:58 | 9.5 | 6:57 | 2.8 | 7:48 | -1.4 | 7:59 | 4:42 |  |
| 4 | Thu | 2:31 | 7.9 | 1:49 | 9.1 | 7:50 | 2.7 | 8:33 | -1.1 | 7:58 | 4:43 |  |
| 5 | Fri | 3:18 | 8.0 | 2:42 | 8.5 | 8:43 | 2.6 | 9:18 | -0.5 | 7:58 | 4:44 |  |
| 6 | Sat | 4:05 | 8.0 | 3:38 | 7.7 | 9:38 | 2.6 | 10:02 | 0.2 | 7:58 | 4:45 |  |
| 7 | Sun | 4:52 | 7.9 | 4:38 | 6.9 | 10:37 | 2.5 | 10:49 | 0.9 | 7:58 | 4:47 |  |
| 8 | Mon | 5:41 | 7.8 | 5:46 | 6.2 | 11:43 | 2.4 | 11:41 | 1.7 | 7:58 | 4:48 |  |
| 9 | Tue | 6:31 | 7.8 | 7:01 | 5.7 | | | 12:52 | 2.2 | 7:57 | 4:49 |  |
| 10 | Wed | 7:22 | 7.8 | 8:17 | 5.6 | 12:37 | 2.4 | 2:00 | 1.8 | 7:57 | 4:50 |  |
| 11 | Thu | 8:13 | 7.9 | 9:26 | 5.8 | 1:35 | 3.0 | 3:00 | 1.3 | 7:56 | 4:51 |  |
| 12 | Fri | 9:01 | 8.0 | 10:25 | 6.2 | 2:32 | 3.3 | 3:53 | 0.8 | 7:56 | 4:53 |  |
| 13 | Sat | 9:46 | 8.1 | 11:15 | 6.5 | 3:26 | 3.5 | 4:39 | 0.4 | 7:55 | 4:54 |  |
| 14 | Sun | 10:27 | 8.2 | 11:59 | 6.8 | 4:15 | 3.6 | 5:20 | 0.1 | 7:55 | 4:55 |  |
| 15 | Mon | 11:07 | 8.2 | | | 5:01 | 3.6 | 5:58 | 0.0 | 7:54 | 4:56 |  |
| 16 | Tue | 12:39 | 7.0 | 11:44 AM | 8.3 | 5:45 | 3.5 | 6:33 | -0.1 | 7:54 | 4:58 |  |
| 17 | Wed | 1:17 | 7.1 | 12:20 | 8.2 | 6:26 | 3.4 | 7:06 | -0.1 | 7:53 | 4:59 |  |
| 18 | Thu | 1:52 | 7.2 | 12:55 | 8.1 | 7:04 | 3.3 | 7:37 | -0.1 | 7:52 | 5:00 |  |
| 19 | Fri | 2:24 | 7.2 | 1:31 | 8.0 | 7:42 | 3.1 | 8:07 | 0.0 | 7:51 | 5:02 |  |
| 20 | Sat | 2:55 | 7.2 | 2:09 | 7.7 | 8:19 | 3.0 | 8:36 | 0.2 | 7:51 | 5:03 |  |
| 21 | Sun | 3:25 | 7.3 | 2:51 | 7.3 | 8:58 | 2.8 | 9:08 | 0.6 | 7:50 | 5:05 |  |
| 22 | Mon | 3:57 | 7.4 | 3:40 | 6.8 | 9:42 | 2.7 | 9:43 | 1.1 | 7:49 | 5:06 |  |
| 23 | Tue | 4:33 | 7.5 | 4:39 | 6.2 | 10:36 | 2.5 | 10:26 | 1.7 | 7:48 | 5:07 |  |
| 24 | Wed | 5:16 | 7.6 | 5:54 | 5.7 | 11:42 | 2.3 | 11:20 | 2.4 | 7:47 | 5:09 |  |
| 25 | Thu | 6:07 | 7.8 | 7:20 | 5.5 | | | 12:58 | 1.8 | 7:46 | 5:10 |  |
| 26 | Fri | 7:06 | 8.0 | 8:44 | 5.7 | 12:27 | 3.0 | 2:11 | 1.2 | 7:45 | 5:12 |  |
| 27 | Sat | 8:09 | 8.4 | 9:55 | 6.1 | 1:41 | 3.3 | 3:17 | 0.4 | 7:44 | 5:13 |  |
| 28 | Sun | 9:11 | 8.7 | 10:55 | 6.7 | 2:52 | 3.4 | 4:16 | -0.3 | 7:43 | 5:15 |  |
| 29 | Mon | 10:10 | 9.1 | 11:48 | 7.2 | 3:57 | 3.3 | 5:09 | -0.8 | 7:42 | 5:16 | |
| 30 | Tue | 11:06 | 9.3 | | | 4:57 | 3.0 | 5:59 | -1.2 | 7:41 | 5:18 | |
| 31 | Wed | 12:36 | 7.6 | 11:59 AM | 9.3 | 5:53 | 2.6 | 6:45 | -1.3 | 7:39 | 5:19 | |