US HARBORS www.USHarbors.com

# Empire, OR - Dec 1819

| Date | | High | | | | Low | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AM | ft | PM | ft | AM | ft | PM | ft | Rise | Set | Moon |
| 1 | Wed | 12:36 | 5.7 | 11:36 AM | 7.5 | 5:50 | 2.9 | 6:50 | -1.0 | 7:36 | 4:49 | |
| 2 | Thu | 1:23 | 5.7 | 12:13 | 7.4 | 6:32 | 3.1 | 7:29 | -0.9 | 7:37 | 4:49 | |
| 3 | Fri | 2:07 | 5.7 | 12:50 | 7.1 | 7:12 | 3.3 | 8:07 | -0.7 | 7:38 | 4:49 | |
| 4 | Sat | 2:49 | 5.6 | 1:27 | 6.9 | 7:52 | 3.5 | 8:46 | -0.4 | 7:40 | 4:49 | |
| 5 | Sun | 3:32 | 5.5 | 2:06 | 6.6 | 8:34 | 3.6 | 9:26 | 0.0 | 7:41 | 4:48 | |
| 6 | Mon | 4:15 | 5.4 | 2:47 | 6.2 | 9:20 | 3.7 | 10:08 | 0.4 | 7:42 | 4:48 | |
| 7 | Tue | 5:00 | 5.4 | 3:34 | 5.8 | 10:15 | 3.7 | 10:51 | 0.8 | 7:43 | 4:48 | |
| 8 | Wed | 5:46 | 5.4 | 4:29 | 5.3 | 11:22 | 3.7 | 11:37 | 1.2 | 7:44 | 4:48 | |
| 9 | Thu | 6:31 | 5.6 | 5:37 | 4.9 | | | 12:37 | 3.4 | 7:44 | 4:48 | |
| 10 | Fri | 7:13 | 5.8 | 6:57 | 4.6 | 12:24 | 1.6 | 1:46 | 2.9 | 7:45 | 4:48 | |
| 11 | Sat | 7:53 | 6.1 | 8:17 | 4.5 | 1:13 | 2.0 | 2:44 | 2.2 | 7:46 | 4:48 | |
| 12 | Sun | 8:30 | 6.5 | 9:28 | 4.7 | 2:02 | 2.3 | 3:34 | 1.4 | 7:47 | 4:48 | |
| 13 | Mon | 9:07 | 6.8 | 10:30 | 4.9 | 2:51 | 2.7 | 4:19 | 0.6 | 7:48 | 4:48 | |
| 14 | Tue | 9:45 | 7.2 | 11:25 | 5.2 | 3:40 | 2.9 | 5:03 | -0.1 | 7:49 | 4:48 | |
| 15 | Wed | 10:25 | 7.5 | | | 4:29 | 3.1 | 5:46 | -0.8 | 7:49 | 4:49 | |
| 16 | Thu | 12:16 | 5.5 | 11:07 AM | 7.8 | 5:17 | 3.2 | 6:29 | -1.2 | 7:50 | 4:49 | |
| 17 | Fri | 1:04 | 5.7 | 11:51 AM | 7.9 | 6:05 | 3.2 | 7:14 | -1.5 | 7:51 | 4:49 | |
| 18 | Sat | 1:52 | 5.8 | 12:39 | 8.0 | 6:54 | 3.2 | 7:59 | -1.6 | 7:52 | 4:49 | |
| 19 | Sun | 2:39 | 6.0 | 1:28 | 7.8 | 7:44 | 3.1 | 8:46 | -1.4 | 7:52 | 4:50 | |
| 20 | Mon | 3:27 | 6.0 | 2:22 | 7.5 | 8:40 | 3.1 | 9:33 | -1.0 | 7:53 | 4:50 | |
| 21 | Tue | 4:15 | 6.2 | 3:19 | 6.9 | 9:41 | 3.0 | 10:22 | -0.4 | 7:53 | 4:51 | |
| 22 | Wed | 5:04 | 6.3 | 4:23 | 6.2 | 10:52 | 2.8 | 11:13 | 0.3 | 7:54 | 4:51 | |
| 23 | Thu | 5:54 | 6.5 | 5:36 | 5.5 | | | 12:08 | 2.4 | 7:54 | 4:52 | |
| 24 | Fri | 6:44 | 6.7 | 7:00 | 5.0 | 12:06 | 1.0 | 1:25 | 1.9 | 7:55 | 4:52 | |
| 25 | Sat | 7:33 | 6.9 | 8:27 | 4.8 | 1:01 | 1.7 | 2:35 | 1.2 | 7:55 | 4:53 | |
| 26 | Sun | 8:21 | 7.1 | 9:48 | 4.9 | 1:58 | 2.4 | 3:36 | 0.5 | 7:55 | 4:54 | |
| 27 | Mon | 9:08 | 7.2 | 10:56 | 5.1 | 2:57 | 2.8 | 4:29 | 0.0 | 7:56 | 4:54 | |
| 28 | Tue | 9:52 | 7.3 | 11:51 | 5.3 | 3:54 | 3.2 | 5:16 | -0.4 | 7:56 | 4:55 | |
| 29 | Wed | 10:35 | 7.3 | | | 4:47 | 3.4 | 5:59 | -0.6 | 7:56 | 4:56 | |
| 30 | Thu | 12:37 | 5.5 | 11:17 AM | 7.2 | 5:35 | 3.4 | 6:38 | -0.7 | 7:56 | 4:56 | |

| Date | | High | | | | Low | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AM | ft | PM | ft | AM | ft | PM | ft | Rise | Set | Moon |
| 31 | Fri | **1:17** | 5.6 | **11:57 AM** | 7.2 | **6:19** | 3.4 | **7:15** | -0.6 | 7:57 | 4:57 | ◯ |