

## Astoria, OR - Jul 2003

| Date |     | High  |     |       |     | Low   |      |       |      |  |      |    |
|------|-----|-------|-----|-------|-----|-------|------|-------|------|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft  | PM    | ft  | AM    | ft   | PM    | ft   | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Tue | 2:21  | 8.8 | 4:19  | 7.2 | 9:42  | -1.1 | 9:31  | 3.2  | 5:27                                                                                | 9:10 |    |
| 2    | Wed | 3:02  | 8.7 | 4:56  | 7.2 | 10:17 | -1.1 | 10:14 | 3.0  | 5:27                                                                                | 9:10 |    |
| 3    | Thu | 3:45  | 8.5 | 5:33  | 7.3 | 10:53 | -1.0 | 10:59 | 2.7  | 5:28                                                                                | 9:10 |    |
| 4    | Fri | 4:33  | 8.2 | 6:11  | 7.4 | 11:31 | -0.7 | 11:51 | 2.4  | 5:29                                                                                | 9:09 |    |
| 5    | Sat | 5:28  | 7.6 | 6:52  | 7.7 |       |      | 12:12 | -0.3 | 5:29                                                                                | 9:09 |    |
| 6    | Sun | 6:32  | 7.0 | 7:36  | 7.9 | 12:51 | 2.1  | 12:58 | 0.3  | 5:30                                                                                | 9:09 |    |
| 7    | Mon | 7:48  | 6.4 | 8:24  | 8.3 | 2:00  | 1.6  | 1:51  | 1.0  | 5:31                                                                                | 9:08 |    |
| 8    | Tue | 9:11  | 6.1 | 9:15  | 8.7 | 3:12  | 1.0  | 2:50  | 1.7  | 5:32                                                                                | 9:08 |    |
| 9    | Wed | 10:32 | 6.1 | 10:09 | 9.0 | 4:22  | 0.2  | 3:53  | 2.2  | 5:32                                                                                | 9:07 |    |
| 10   | Thu | 11:45 | 6.4 | 11:03 | 9.3 | 5:25  | -0.5 | 4:56  | 2.6  | 5:33                                                                                | 9:07 |    |
| 11   | Fri |       |     | 12:48 | 6.8 | 6:24  | -1.1 | 5:57  | 2.8  | 5:34                                                                                | 9:06 |    |
| 12   | Sat |       |     | 1:44  | 7.2 | 7:18  | -1.5 | 6:56  | 2.8  | 5:35                                                                                | 9:05 |   |
| 13   | Sun | 12:49 | 9.6 | 2:35  | 7.4 | 8:09  | -1.8 | 7:52  | 2.7  | 5:36                                                                                | 9:05 |  |
| 14   | Mon | 1:40  | 9.5 | 3:23  | 7.6 | 8:57  | -1.8 | 8:46  | 2.6  | 5:37                                                                                | 9:04 |  |
| 15   | Tue | 2:30  | 9.2 | 4:08  | 7.6 | 9:41  | -1.6 | 9:36  | 2.4  | 5:38                                                                                | 9:03 |  |
| 16   | Wed | 3:18  | 8.8 | 4:51  | 7.7 | 10:21 | -1.3 | 10:25 | 2.2  | 5:39                                                                                | 9:03 |  |
| 17   | Thu | 4:06  | 8.3 | 5:31  | 7.6 | 10:59 | -0.8 | 11:14 | 2.1  | 5:40                                                                                | 9:02 |  |
| 18   | Fri | 4:55  | 7.6 | 6:09  | 7.6 | 11:35 | -0.2 |       |      | 5:41                                                                                | 9:01 |  |
| 19   | Sat | 5:47  | 6.9 | 6:47  | 7.5 | 12:04 | 2.0  | 12:10 | 0.4  | 5:42                                                                                | 9:00 |  |
| 20   | Sun | 6:44  | 6.2 | 7:26  | 7.5 | 12:59 | 1.9  | 12:48 | 1.1  | 5:43                                                                                | 8:59 |  |
| 21   | Mon | 7:51  | 5.7 | 8:07  | 7.5 | 1:59  | 1.7  | 1:32  | 1.9  | 5:44                                                                                | 8:58 |  |
| 22   | Tue | 9:06  | 5.4 | 8:52  | 7.6 | 3:04  | 1.4  | 2:24  | 2.5  | 5:45                                                                                | 8:57 |  |
| 23   | Wed | 10:21 | 5.5 | 9:39  | 7.7 | 4:07  | 1.0  | 3:24  | 3.0  | 5:46                                                                                | 8:56 |  |
| 24   | Thu | 11:28 | 5.8 | 10:28 | 7.8 | 5:05  | 0.5  | 4:25  | 3.3  | 5:47                                                                                | 8:55 |  |
| 25   | Fri |       |     | 12:25 | 6.2 | 5:56  | 0.0  | 5:22  | 3.4  | 5:48                                                                                | 8:54 |  |
| 26   | Sat |       |     | 1:13  | 6.6 | 6:43  | -0.4 | 6:15  | 3.3  | 5:49                                                                                | 8:53 |  |
| 27   | Sun | 12:02 | 8.3 | 1:56  | 6.8 | 7:26  | -0.7 | 7:04  | 3.2  | 5:51                                                                                | 8:52 |  |
| 28   | Mon | 12:46 | 8.5 | 2:36  | 7.0 | 8:06  | -1.1 | 7:50  | 2.9  | 5:52                                                                                | 8:50 |  |
| 29   | Tue | 1:29  | 8.7 | 3:13  | 7.2 | 8:44  | -1.3 | 8:34  | 2.6  | 5:53                                                                                | 8:49 |  |
| 30   | Wed | 2:12  | 8.7 | 3:47  | 7.4 | 9:20  | -1.4 | 9:17  | 2.2  | 5:54                                                                                | 8:48 |  |
| 31   | Thu | 2:55  | 8.7 | 4:20  | 7.5 | 9:54  | -1.4 | 10:00 | 1.8  | 5:55                                                                                | 8:47 |  |