

## Astoria, OR - Jul 1977

| Date |     | High  |     |       |     | Low   |      |       |     |  |      |    |
|------|-----|-------|-----|-------|-----|-------|------|-------|-----|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft  | PM    | ft  | AM    | ft   | PM    | ft  | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Fri | 1:25  | 9.9 | 2:54  | 8.0 | 8:32  | -1.9 | 8:28  | 1.9 | 5:27                                                                                | 9:10 |    |
| 2    | Sat | 2:16  | 9.7 | 3:42  | 8.2 | 9:19  | -1.8 | 9:21  | 1.7 | 5:28                                                                                | 9:10 |    |
| 3    | Sun | 3:07  | 9.4 | 4:28  | 8.3 | 10:03 | -1.6 | 10:13 | 1.6 | 5:28                                                                                | 9:09 |    |
| 4    | Mon | 3:58  | 8.9 | 5:13  | 8.3 | 10:46 | -1.2 | 11:05 | 1.5 | 5:29                                                                                | 9:09 |    |
| 5    | Tue | 4:50  | 8.2 | 5:58  | 8.2 | 11:27 | -0.6 | 11:59 | 1.5 | 5:30                                                                                | 9:09 |    |
| 6    | Wed | 5:45  | 7.5 | 6:43  | 8.1 |       |      | 12:09 | 0.1 | 5:30                                                                                | 9:08 |    |
| 7    | Thu | 6:44  | 6.8 | 7:29  | 8.0 | 12:56 | 1.5  | 12:54 | 0.8 | 5:31                                                                                | 9:08 |    |
| 8    | Fri | 7:50  | 6.2 | 8:17  | 7.9 | 1:58  | 1.5  | 1:43  | 1.5 | 5:32                                                                                | 9:07 |    |
| 9    | Sat | 9:01  | 5.9 | 9:07  | 7.9 | 3:04  | 1.3  | 2:38  | 2.1 | 5:33                                                                                | 9:07 |    |
| 10   | Sun | 10:12 | 5.9 | 9:57  | 8.0 | 4:07  | 0.9  | 3:37  | 2.5 | 5:33                                                                                | 9:06 |    |
| 11   | Mon | 11:16 | 6.1 | 10:45 | 8.1 | 5:04  | 0.5  | 4:34  | 2.7 | 5:34                                                                                | 9:06 |    |
| 12   | Tue |       |     | 12:11 | 6.5 | 5:55  | 0.1  | 5:27  | 2.8 | 5:35                                                                                | 9:05 |    |
| 13   | Wed |       |     | 12:59 | 6.8 | 6:40  | -0.2 | 6:16  | 2.7 | 5:36                                                                                | 9:05 |   |
| 14   | Thu | 12:13 | 8.3 | 1:42  | 7.0 | 7:21  | -0.5 | 7:03  | 2.6 | 5:37                                                                                | 9:04 |  |
| 15   | Fri | 12:53 | 8.4 | 2:21  | 7.2 | 7:59  | -0.7 | 7:47  | 2.5 | 5:38                                                                                | 9:03 |  |
| 16   | Sat | 1:31  | 8.5 | 2:58  | 7.4 | 8:34  | -0.8 | 8:29  | 2.3 | 5:39                                                                                | 9:02 |  |
| 17   | Sun | 2:09  | 8.5 | 3:32  | 7.5 | 9:08  | -0.9 | 9:09  | 2.1 | 5:40                                                                                | 9:01 |  |
| 18   | Mon | 2:48  | 8.4 | 4:05  | 7.6 | 9:40  | -0.8 | 9:48  | 1.9 | 5:41                                                                                | 9:01 |  |
| 19   | Tue | 3:27  | 8.2 | 4:37  | 7.8 | 10:12 | -0.7 | 10:29 | 1.7 | 5:42                                                                                | 9:00 |  |
| 20   | Wed | 4:10  | 7.9 | 5:10  | 7.9 | 10:44 | -0.4 | 11:12 | 1.5 | 5:43                                                                                | 8:59 |  |
| 21   | Thu | 4:58  | 7.5 | 5:46  | 8.1 | 11:20 | 0.0  |       |     | 5:44                                                                                | 8:58 |  |
| 22   | Fri | 5:53  | 6.9 | 6:28  | 8.2 | 12:02 | 1.3  | 12:00 | 0.6 | 5:45                                                                                | 8:57 |  |
| 23   | Sat | 7:00  | 6.4 | 7:18  | 8.4 | 1:02  | 1.1  | 12:50 | 1.2 | 5:46                                                                                | 8:56 |  |
| 24   | Sun | 8:19  | 6.0 | 8:15  | 8.5 | 2:13  | 0.9  | 1:52  | 1.8 | 5:47                                                                                | 8:55 |  |
| 25   | Mon | 9:41  | 6.0 | 9:19  | 8.7 | 3:28  | 0.5  | 3:04  | 2.2 | 5:48                                                                                | 8:54 |  |
| 26   | Tue | 10:56 | 6.3 | 10:23 | 8.9 | 4:37  | -0.1 | 4:16  | 2.3 | 5:50                                                                                | 8:52 |  |
| 27   | Wed |       |     | 12:00 | 6.8 | 5:40  | -0.7 | 5:23  | 2.2 | 5:51                                                                                | 8:51 |  |
| 28   | Thu |       |     | 12:56 | 7.3 | 6:36  | -1.2 | 6:24  | 1.9 | 5:52                                                                                | 8:50 |  |
| 29   | Fri | 12:21 | 9.4 | 1:46  | 7.7 | 7:26  | -1.6 | 7:21  | 1.6 | 5:53                                                                                | 8:49 |  |
| 30   | Sat | 1:15  | 9.4 | 2:32  | 8.0 | 8:13  | -1.7 | 8:15  | 1.3 | 5:54                                                                                | 8:48 |  |
| 31   | Sun | 2:06  | 9.2 | 3:15  | 8.2 | 8:57  | -1.6 | 9:06  | 1.0 | 5:55                                                                                | 8:46 |  |