



NOAA Tide Predictions

NORTH JETTY, WA, 2023

The NOAA Tide Predictions application provides predictions in both graphical and tabular formats, with many user selected options, for over 3000 stations broken down by key areas in each state. Users can also access stations via the Google map interface. Additional information can be found in the help page.

Station Types: The NOAA Tide Predictions application provides predictions from 2 distinct categories of stations at over 3000 locations:

Harmonic - The predicted height values for Harmonic stations are conducted by combining the harmonic constituents into a single tide curve.

Subordinate - The high and low height values for Subordinate stations are obtained by means and differences, and ratios applied to the full harmonic constant predictions at a specific Harmonic station (a Reference station).

Disclaimer: The official Tide prediction tables are published annually on October 1, for the following calendar year. Tide predictions generated prior to the publishing date of the official tables are subject to change. The predictions from the web based NOAA Tidal Predictions are based upon the latest information available as of the date of your request. Tide predictions generated may differ from the official published predictions if information for the station requested has been updated since the publishing date of the official published tables.



StationId: 9440574
 Source: NOAA/NOS/CO-OPS
 Station Type: Subordinate
 Time Zone: LST_LDT
 Datum: MLLW

NORTH JETTY, WA, 2023
 (46 16.4N / 124 04.3W)

Times and Heights of High and Low Waters

| January | | | | | February | | | | | March | | | | | |
|-----------|----------|------|------|-----------|----------|------|--------|-----------|----------|--------|-----|-----------|----------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | |
| h m | ft | cm | h m | ft | cm | h m | ft | cm | h m | ft | cm | h m | ft | cm | |
| 1 | 01:19 AM | 2.7 | 82 | 16 | 06:44 AM | 8.6 | 262 | 1 | 02:46 AM | 4.2 | 128 | 16 | 02:03 AM | 4.3 | 131 |
| | 08:01 AM | 8.8 | 268 | | 01:55 PM | 1.5 | 46 | | 09:03 AM | 8.3 | 253 | | 08:15 AM | 8.9 | 271 |
| Su | 02:51 PM | 0.9 | 27 | M | 08:33 PM | 5.8 | 177 | W | 04:17 PM | 0.4 | 12 | Th | 03:44 PM | 0.0 | 0 |
| | 09:14 PM | 6.4 | 195 | | | | | | 11:00 PM | 6.9 | 210 | | 10:38 PM | 6.7 | 204 |
| 2 | 02:16 AM | 3.2 | 98 | 17 | 01:08 AM | 3.8 | 116 | 2 | 03:45 AM | 4.2 | 128 | 17 | 03:20 AM | 4.0 | 122 |
| | 08:49 AM | 8.9 | 271 | | 07:40 AM | 8.9 | 271 | | 09:55 AM | 8.4 | 256 | | 09:27 AM | 9.2 | 280 |
| M | 03:46 PM | 0.4 | 12 | Tu | 03:01 PM | 0.7 | 21 | Th | 05:02 PM | 0.2 | 6 | F | 04:40 PM | -0.7 | -21 |
| | 10:19 PM | 6.7 | 204 | | 09:51 PM | 6.3 | 192 | | 11:45 PM | 7.3 | 223 | | 11:27 PM | 7.3 | 223 |
| 3 | 03:11 AM | 3.6 | 110 | 18 | 02:21 AM | 4.1 | 125 | 3 | 04:38 AM | 4.0 | 122 | 18 | 04:25 AM | 3.4 | 104 |
| | 09:34 AM | 9.0 | 274 | | 08:40 AM | 9.3 | 283 | | 10:42 AM | 8.5 | 259 | | 10:31 AM | 9.5 | 290 |
| Tu | 04:36 PM | 0.0 | 0 | W | 04:01 PM | 0.0 | 0 | F | 05:42 PM | 0.0 | 0 | Sa | 05:29 PM | -1.1 | -34 |
| | 11:14 PM | 7.1 | 216 | | 10:54 PM | 6.8 | 207 | | | | | | 05:29 PM | -1.1 | -34 |
| 4 | 04:03 AM | 3.9 | 119 | 19 | 03:30 AM | 4.2 | 128 | 4 | 12:24 AM | 7.5 | 229 | 19 | 12:11 AM | 7.8 | 238 |
| | 10:17 AM | 9.0 | 274 | | 09:40 AM | 9.6 | 293 | | 05:24 AM | 3.7 | 113 | | 05:23 AM | 2.7 | 82 |
| W | 05:20 PM | -0.2 | -6 | Th | 04:56 PM | -0.7 | -21 | Sa | 11:25 AM | 8.6 | 262 | Su | 11:29 AM | 9.7 | 296 |
| | | | | | 11:47 PM | 7.3 | 223 | | 06:18 PM | -0.1 | -3 | | 06:14 PM | -1.3 | -40 |
| 5 | 12:01 AM | 7.3 | 223 | 20 | 04:32 AM | 3.9 | 119 | 5 | 12:59 AM | 7.6 | 232 | 20 | 12:51 AM | 8.3 | 253 |
| | 04:52 AM | 4.0 | 122 | | 10:38 AM | 10.0 | 305 | | 06:06 AM | 3.4 | 104 | | 06:16 AM | 1.9 | 58 |
| Th | 10:57 AM | 9.0 | 274 | F | 05:48 PM | -1.2 | -37 | Su | 12:04 PM | 8.6 | 262 | M | 12:22 PM | 9.7 | 296 |
| | 06:01 PM | -0.3 | -9 | | | | | O | 06:50 PM | -0.2 | -6 | | 06:56 PM | -1.2 | -37 |
| 6 | 12:45 AM | 7.5 | 229 | 21 | 12:35 AM | 7.7 | 235 | 6 | 01:31 AM | 7.7 | 235 | 21 | 01:30 AM | 8.6 | 262 |
| | 05:37 AM | 4.0 | 122 | | 05:31 AM | 3.6 | 110 | | 06:46 AM | 3.0 | 91 | | 07:07 AM | 1.3 | 40 |
| F | 11:36 AM | 9.0 | 274 | Sa | 11:33 AM | 10.2 | 311 | M | 12:41 PM | 8.5 | 259 | Tu | 01:13 PM | 9.4 | 287 |
| O | 06:39 PM | -0.3 | -9 | | 06:35 PM | -1.5 | -46 | | 07:19 PM | -0.1 | -3 | | 07:34 PM | -0.9 | -27 |
| 7 | 01:24 AM | 7.6 | 232 | 22 | 01:20 AM | 8.1 | 247 | 7 | 02:00 AM | 7.8 | 238 | 22 | 02:07 AM | 8.9 | 271 |
| | 06:20 AM | 4.0 | 122 | | 06:26 AM | 3.1 | 94 | | 07:23 AM | 2.7 | 82 | | 07:55 AM | 0.8 | 24 |
| Sa | 12:13 PM | 8.9 | 271 | Su | 12:27 PM | 10.2 | 311 | Tu | 01:17 PM | 8.3 | 253 | W | 02:04 PM | 8.8 | 268 |
| | 07:13 PM | -0.2 | -6 | | 07:20 PM | -1.5 | -46 | | 07:46 PM | 0.0 | 0 | | 08:11 PM | -0.3 | -9 |
| 8 | 02:01 AM | 7.6 | 232 | 23 | 02:03 AM | 8.4 | 256 | 8 | 02:26 AM | 7.9 | 241 | 23 | 02:43 AM | 9.0 | 274 |
| | 07:00 AM | 3.8 | 116 | | 07:19 AM | 2.6 | 79 | | 07:58 AM | 2.4 | 73 | | 08:43 AM | 0.6 | 18 |
| Su | 12:49 AM | 8.7 | 265 | M | 01:20 PM | 9.9 | 302 | W | 01:54 PM | 8.0 | 244 | Th | 02:55 PM | 8.2 | 250 |
| | 07:45 PM | -0.1 | -3 | | 08:02 PM | -1.3 | -40 | | 08:11 PM | 0.3 | 9 | | 08:47 PM | 0.5 | 15 |
| 9 | 02:35 AM | 7.6 | 232 | 24 | 02:44 AM | 8.6 | 262 | 9 | 02:50 AM | 8.0 | 244 | 24 | 03:19 AM | 9.0 | 274 |
| | 07:39 AM | 3.7 | 113 | | 08:11 AM | 2.2 | 67 | | 08:33 AM | 2.1 | 64 | | 09:32 AM | 0.6 | 18 |
| M | 01:26 PM | 8.5 | 259 | Tu | 02:12 PM | 9.4 | 287 | Th | 02:33 PM | 7.6 | 232 | F | 03:49 PM | 7.4 | 226 |
| | 08:14 PM | 0.0 | 0 | | 08:42 PM | -0.9 | -27 | | 08:37 PM | 0.7 | 21 | | 09:23 PM | 1.4 | 43 |
| 10 | 03:07 AM | 7.6 | 232 | 25 | 03:25 AM | 8.7 | 265 | 10 | 03:14 AM | 8.2 | 250 | 25 | 03:55 AM | 8.8 | 268 |
| | 08:17 AM | 3.5 | 107 | | 09:03 AM | 1.9 | 58 | | 09:11 AM | 1.9 | 58 | | 10:24 AM | 0.8 | 24 |
| Tu | 02:03 PM | 8.2 | 250 | W | 03:06 PM | 8.6 | 262 | F | 03:16 PM | 7.1 | 216 | Sa | 04:48 PM | 6.7 | 204 |
| | 08:42 PM | 0.3 | 9 | | 09:21 PM | -0.2 | -6 | | 09:05 PM | 1.3 | 40 | | 10:01 PM | 2.3 | 70 |
| 11 | 03:37 AM | 7.6 | 232 | 26 | 04:05 AM | 8.8 | 268 | 11 | 03:41 AM | 8.4 | 256 | 26 | 04:34 AM | 8.5 | 259 |
| | 08:56 AM | 3.3 | 101 | | 09:58 AM | 1.7 | 52 | | 09:54 AM | 1.7 | 52 | | 11:22 AM | 1.1 | 34 |
| W | 02:42 PM | 7.8 | 238 | Th | 04:03 PM | 7.8 | 238 | Sa | 04:08 PM | 6.6 | 201 | Su | 05:56 PM | 6.1 | 186 |
| | 09:11 PM | 0.6 | 18 | | 10:01 PM | 0.7 | 21 | | 09:37 PM | 2.0 | 61 | | 10:48 PM | 3.3 | 101 |
| 12 | 04:06 AM | 7.7 | 235 | 27 | 04:46 AM | 8.8 | 268 | 12 | 04:14 AM | 8.6 | 262 | 27 | 05:19 AM | 8.1 | 247 |
| | 09:39 AM | 3.1 | 94 | | 10:57 AM | 1.6 | 49 | | 10:47 AM | 1.6 | 49 | | 12:31 PM | 1.3 | 40 |
| Th | 03:28 PM | 7.2 | 219 | F | 05:06 PM | 6.9 | 210 | Su | 05:16 PM | 6.0 | 183 | M | 07:14 PM | 5.8 | 177 |
| | 09:41 PM | 1.1 | 34 | | 10:43 PM | 1.7 | 52 | | 10:18 PM | 2.8 | 85 | | 11:50 PM | 4.0 | 122 |
| 13 | 04:37 AM | 7.8 | 238 | 28 | 05:30 AM | 8.7 | 265 | 13 | 04:57 AM | 8.6 | 262 | 28 | 06:15 AM | 7.7 | 235 |
| | 10:29 AM | 2.9 | 88 | | 12:03 PM | 1.5 | 46 | | 11:57 AM | 1.5 | 46 | | 01:46 PM | 1.3 | 40 |
| F | 04:23 PM | 6.6 | 201 | Sa | 06:18 PM | 6.3 | 192 | M | 06:43 PM | 5.6 | 171 | Tu | 08:34 PM | 6.0 | 183 |
| | 10:17 PM | 1.7 | 52 | | 11:32 PM | 2.7 | 82 | | 11:13 PM | 3.6 | 110 | | | | |
| 14 | 05:13 AM | 8.0 | 244 | 29 | 06:17 AM | 8.5 | 259 | 14 | 05:51 AM | 8.6 | 262 | 29 | 05:18 AM | 8.7 | 265 |
| | 11:31 AM | 2.6 | 79 | | 01:13 PM | 1.4 | 43 | | 01:20 PM | 1.2 | 37 | | 12:29 PM | 0.9 | 27 |
| Sa | 05:34 PM | 6.1 | 186 | Su | 07:38 PM | 6.0 | 183 | Tu | 08:17 PM | 5.7 | 174 | Tu | 07:36 PM | 5.7 | 174 |
| | 11:02 PM | 2.4 | 73 | | | | | | | | | | 11:55 PM | 3.9 | 119 |
| 15 | 05:54 AM | 8.3 | 253 | 30 | 12:31 AM | 3.5 | 107 | 15 | 12:33 AM | 4.2 | 128 | 30 | 01:41 AM | 4.3 | 131 |
| | 12:42 PM | 2.1 | 64 | | 07:09 AM | 8.4 | 256 | | 06:59 AM | 8.7 | 265 | | 07:39 AM | 6.8 | 207 |
| Su | 07:03 PM | 5.7 | 174 | M | 02:22 PM | 1.1 | 34 | W | 02:38 PM | 0.6 | 18 | Th | 03:08 PM | 1.3 | 40 |
| o | 11:58 PM | 3.2 | 98 | | 08:57 PM | 6.1 | 186 | | 09:37 PM | 6.1 | 186 | | 10:03 PM | 6.3 | 192 |
| 31 | 01:39 AM | 4.0 | 122 | 31 | 01:39 AM | 4.0 | 122 | 31 | 03:00 AM | 4.0 | 122 | 31 | 03:00 AM | 4.0 | 122 |
| | 08:06 AM | 8.3 | 253 | | 08:06 AM | 8.3 | 253 | | 09:00 AM | 6.8 | 207 | | 09:00 AM | 6.8 | 207 |
| | 03:24 PM | 0.7 | 21 | Tu | 03:24 PM | 0.7 | 21 | F | 04:05 PM | 1.0 | 30 | | 04:05 PM | 1.0 | 30 |
| | 10:05 PM | 6.5 | 198 | | 10:05 PM | 6.5 | 198 | | 10:53 PM | 6.7 | 204 | | 10:53 PM | 6.7 | 204 |

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.

Referenced to Station: Astoria (9439040) Time offset in mins (high: -44 low: -60) Height offset in feet (high: +0.3 low: +0.03)



NORTH JETTY, WA, 2023
 (46 16.4N / 124 04.3W)

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | |
|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|
| Time | Height | Time | Height | Time | Height | Time | Height | Time | Height | Time | Height |
| h m | ft cm | h m | ft cm | h m | ft cm | h m | ft cm | h m | ft cm | h m | ft cm |
| 1 04:05 AM | 3.4 104 | 16 04:08 AM | 2.3 70 | 1 04:26 AM | 2.1 64 | 16 04:52 AM | 0.4 12 | 1 05:25 AM | 0.1 3 | 16 06:16 AM | -1.0 -30 |
| 10:08 AM | 6.9 210 | 10:14 AM | 7.7 235 | 10:33 AM | 6.4 195 | 11:08 AM | 7.0 213 | 11:58 AM | 6.4 195 | 12:51 PM | 6.8 207 |
| Sa 04:50 PM | 0.8 24 | Su 04:41 PM | -0.1 -3 | M 04:33 PM | 1.2 37 | Tu 04:48 PM | 1.1 34 | Th 05:02 PM | 2.5 76 | F 05:49 PM | 2.9 88 |
| 11:32 PM | 7.1 216 | 11:20 PM | 7.9 241 | 11:11 PM | 7.6 232 | 11:19 PM | 8.8 268 | 11:19 PM | 8.6 262 | | |
| 2 04:57 AM | 2.7 82 | 17 05:06 AM | 1.3 40 | 2 05:12 AM | 1.3 40 | 17 05:44 AM | -0.4 -12 | 2 06:10 AM | -0.5 -15 | 17 12:02 AM | 8.8 268 |
| 11:03 AM | 6.9 210 | 11:17 AM | 7.9 241 | 11:26 AM | 6.7 204 | 12:05 PM | 7.2 219 | 12:50 PM | 6.6 201 | 07:01 AM | -1.1 -34 |
| Su 05:28 PM | 0.6 18 | M 05:27 PM | 0.0 0 | Tu 05:11 PM | 1.3 40 | W 05:33 PM | 1.5 46 | F 05:48 PM | 2.9 88 | Sa 01:41 PM | 6.9 210 |
| | | 11:59 PM | 8.5 259 | 11:41 PM | 7.9 241 | 11:57 PM | 9.1 277 | 11:56 PM | 9.0 274 | 06:36 PM | 3.2 98 |
| 3 12:06 AM | 7.4 226 | 18 05:59 AM | 0.3 9 | 3 05:55 AM | 0.6 18 | 18 06:31 AM | -0.9 -27 | 3 06:55 AM | -1.0 -30 | 18 12:40 AM | 8.7 265 |
| 05:42 AM | 2.0 61 | 12:14 PM | 8.0 244 | 12:16 PM | 6.9 210 | 12:58 PM | 7.2 219 | 01:41 PM | 6.8 207 | 07:43 AM | -1.0 -30 |
| M 11:51 AM | 7.3 223 | Tu 06:09 PM | 0.3 9 | W 05:48 PM | 1.6 49 | Th 06:16 PM | 2.0 61 | Sa 06:34 PM | 3.1 94 | Su 02:27 PM | 7.0 213 |
| 06:03 PM | 0.5 15 | | | | | | | | | ● 07:21 PM | 3.4 104 |
| 4 12:35 AM | 7.7 235 | 19 12:36 AM | 8.9 271 | 4 12:10 AM | 8.3 253 | 19 12:32 AM | 9.1 277 | 4 12:36 AM | 9.3 283 | 19 01:18 AM | 8.5 259 |
| 06:23 AM | 1.4 43 | 06:47 AM | -0.4 -12 | 06:36 AM | 0.0 0 | 07:16 AM | -1.1 -34 | 07:41 AM | -1.4 -43 | 08:22 AM | -0.9 -27 |
| Tu 12:34 PM | 7.5 229 | W 01:06 PM | 7.9 241 | Th 01:03 PM | 7.0 213 | F 01:49 PM | 7.2 219 | Su 02:31 PM | 7.0 213 | M 03:10 PM | 6.9 210 |
| 06:35 PM | 0.7 21 | 01:49 PM | 0.7 21 | 06:25 PM | 1.9 58 | ● 06:58 PM | 2.5 76 | ○ 07:22 PM | 3.3 101 | ○ 08:04 PM | 3.4 104 |
| 5 01:02 AM | 8.0 244 | 20 01:11 AM | 9.1 277 | 5 12:39 AM | 8.6 262 | 20 01:07 AM | 9.0 274 | 5 01:19 AM | 9.4 287 | 20 01:55 AM | 8.3 253 |
| 07:02 AM | 0.8 24 | 07:33 AM | -0.8 -24 | 07:16 AM | -0.5 -15 | 07:59 AM | -1.1 -34 | 08:27 AM | -1.5 -46 | 08:59 AM | -0.7 -21 |
| W 01:16 PM | 7.5 229 | Th 01:56 PM | 7.8 238 | F 01:49 PM | 7.1 216 | Sa 02:37 PM | 7.2 219 | M 03:21 PM | 7.0 213 | Tu 03:51 PM | 6.9 210 |
| 07:06 PM | 0.9 27 | ● 07:28 PM | 1.3 40 | ○ 07:03 PM | 2.3 70 | ○ 07:40 PM | 2.9 88 | 08:12 PM | 3.3 101 | 08:46 PM | 3.4 104 |
| 6 01:27 AM | 8.3 253 | 21 01:44 AM | 9.2 280 | 6 01:09 AM | 8.9 271 | 21 01:42 AM | 8.8 268 | 6 02:06 AM | 9.4 287 | 21 02:33 AM | 8.0 244 |
| 07:39 AM | 0.4 12 | 08:17 AM | -1.0 -30 | 07:56 AM | -0.8 -24 | 08:39 AM | -0.9 -27 | 09:14 AM | -1.5 -46 | 09:34 AM | -0.5 -15 |
| Th 01:58 PM | 7.4 226 | F 02:45 PM | 7.6 232 | Sa 02:37 PM | 7.1 216 | Su 03:24 PM | 7.1 216 | Tu 04:10 PM | 7.1 216 | W 04:30 PM | 6.8 207 |
| ○ 07:37 PM | 1.3 40 | 08:06 PM | 1.9 58 | 07:41 PM | 2.7 82 | 08:21 PM | 3.3 101 | 09:03 PM | 3.3 101 | 09:28 PM | 3.3 101 |
| 7 01:52 AM | 8.5 259 | 22 02:17 AM | 9.0 274 | 7 01:42 AM | 9.2 280 | 22 02:16 AM | 8.6 262 | 7 02:56 AM | 9.1 277 | 22 03:12 AM | 7.7 235 |
| 08:15 AM | 0.0 0 | 08:58 AM | -0.9 -27 | 08:37 AM | -1.0 -30 | 09:19 AM | -0.6 -18 | 10:01 AM | -1.4 -43 | 10:07 AM | -0.2 -6 |
| F 02:41 PM | 7.3 223 | Sa 03:34 PM | 7.3 223 | Su 03:25 PM | 7.0 213 | M 04:11 PM | 6.9 210 | W 05:01 PM | 7.1 216 | Th 05:08 PM | 6.7 204 |
| 08:08 PM | 1.7 52 | 08:44 PM | 2.5 76 | 08:22 PM | 3.0 91 | 09:02 PM | 3.5 107 | 09:59 PM | 3.2 98 | 10:11 PM | 3.2 98 |
| 8 02:18 AM | 8.8 268 | 23 02:49 AM | 8.8 268 | 8 02:20 AM | 9.2 280 | 23 02:52 AM | 8.2 250 | 8 03:52 AM | 8.7 265 | 23 03:54 AM | 7.2 219 |
| 08:51 AM | -0.3 -9 | 09:39 AM | -0.6 -18 | 09:21 AM | -1.0 -30 | 09:57 AM | -0.3 -9 | 10:51 AM | -1.0 -30 | 10:40 AM | 0.1 3 |
| Sa 03:25 PM | 7.1 216 | Su 04:24 PM | 6.9 210 | M 04:17 PM | 6.8 207 | Tu 04:57 PM | 6.7 204 | Th 05:51 PM | 7.1 216 | F 05:44 PM | 6.7 204 |
| 08:40 PM | 2.2 67 | 09:22 PM | 3.0 91 | 09:06 PM | 3.3 101 | 09:45 PM | 3.7 113 | 11:00 PM | 3.0 91 | 10:59 PM | 3.1 94 |
| 9 02:47 AM | 9.0 274 | 24 03:23 AM | 8.4 256 | 9 03:03 AM | 9.1 277 | 24 03:31 AM | 7.8 238 | 9 04:53 AM | 8.0 244 | 24 04:42 AM | 6.7 204 |
| 09:30 AM | -0.4 -12 | 10:21 AM | -0.1 -3 | 10:08 AM | -0.9 -27 | 10:37 AM | 0.1 3 | 11:42 AM | -0.6 -18 | 11:15 AM | 0.5 15 |
| Su 04:14 PM | 6.8 207 | M 05:16 PM | 6.6 201 | Tu 05:12 PM | 6.7 204 | W 05:44 PM | 6.5 198 | F 06:43 PM | 7.3 223 | Sa 06:22 PM | 6.8 207 |
| 09:15 PM | 2.7 82 | 10:03 PM | 3.5 107 | 09:57 PM | 3.5 107 | 10:33 PM | 3.8 116 | 07:34 PM | 7.6 232 | 11:54 PM | 2.9 88 |
| 10 03:22 AM | 9.0 274 | 25 03:59 AM | 8.0 244 | 10 03:53 AM | 8.8 268 | 25 04:15 AM | 7.3 223 | 10 12:09 AM | 2.7 82 | 25 05:38 AM | 6.1 186 |
| 10:14 AM | -0.2 -6 | 11:07 AM | 0.4 12 | 11:02 AM | -0.6 -18 | 11:20 AM | 0.5 15 | 06:03 AM | 7.3 223 | 11:54 AM | 0.9 27 |
| M 05:10 PM | 6.4 195 | Tu 06:12 PM | 6.3 192 | W 06:11 PM | 6.6 201 | Th 06:33 PM | 6.4 195 | Sa 12:36 PM | 0.0 0 | Su 07:00 PM | 6.9 210 |
| 09:56 PM | 3.2 98 | 10:52 PM | 3.9 119 | 10:58 PM | 3.6 110 | 11:29 PM | 3.8 116 | ● 07:34 PM | 7.6 232 | | |
| 11 04:04 AM | 8.9 271 | 26 04:43 AM | 7.4 226 | 11 04:53 AM | 8.3 253 | 26 05:08 AM | 6.8 207 | 11 01:22 AM | 2.1 64 | 26 12:56 AM | 2.5 76 |
| 11:07 AM | 0.0 0 | 12:01 PM | 0.9 27 | 12:03 PM | -0.2 -6 | 12:07 PM | 0.8 24 | 07:19 AM | 6.7 204 | 06:47 AM | 5.6 171 |
| Tu 06:15 PM | 6.1 186 | W 07:13 PM | 6.1 186 | Th 07:12 PM | 6.6 201 | F 07:22 PM | 6.5 198 | Su 01:32 PM | 0.5 15 | M 12:40 PM | 1.5 46 |
| 10:49 PM | 3.7 113 | 11:55 PM | 4.1 125 | | | | | 08:24 PM | 7.9 241 | ● 07:39 PM | 7.2 219 |
| 12 04:58 AM | 8.5 259 | 27 05:40 AM | 6.9 210 | 12 12:13 AM | 3.5 107 | 27 12:35 AM | 3.6 110 | 12 02:34 AM | 1.4 43 | 27 02:02 AM | 2.0 61 |
| 12:16 PM | 0.3 9 | 01:03 PM | 1.2 37 | 06:06 AM | 7.7 235 | 06:14 AM | 6.2 189 | 08:37 AM | 6.3 192 | 08:07 AM | 5.3 162 |
| W 07:30 PM | 6.0 183 | Th 08:15 PM | 6.2 189 | F 01:09 PM | 0.1 3 | Sa 12:59 PM | 1.1 34 | M 02:27 PM | 1.1 34 | Tu 01:32 PM | 2.0 61 |
| | | ○ 08:12 PM | 6.9 210 | ● 08:12 PM | 6.9 210 | ○ 08:09 PM | 6.6 201 | 09:12 PM | 8.3 253 | 08:21 PM | 7.5 229 |
| 13 12:03 AM | 4.0 122 | 28 01:11 AM | 4.0 122 | 13 01:35 AM | 3.1 94 | 28 01:46 AM | 3.2 98 | 13 03:39 AM | 0.6 18 | 28 03:05 AM | 1.3 40 |
| 06:07 AM | 8.0 244 | 06:56 AM | 6.4 195 | 07:28 AM | 7.2 219 | 07:31 AM | 5.8 177 | 09:52 AM | 6.2 189 | 09:27 AM | 5.3 162 |
| Th 01:35 PM | 0.4 12 | F 02:07 PM | 1.3 40 | Sa 02:13 PM | 0.3 9 | Su 01:52 PM | 1.4 43 | Tu 03:21 PM | 1.6 49 | W 02:29 PM | 2.5 76 |
| ● 08:43 PM | 6.2 189 | 09:11 PM | 6.4 195 | 09:07 PM | 7.3 223 | 08:53 PM | 6.9 210 | 09:58 PM | 8.6 262 | 09:05 PM | 7.9 241 |
| 14 01:35 AM | 3.9 119 | 29 02:28 AM | 3.6 110 | 14 02:50 AM | 2.3 70 | 29 02:51 AM | 2.5 76 | 14 04:36 AM | -0.1 -3 | 29 04:03 AM | 0.6 18 |
| 07:32 AM | 7.7 235 | 08:18 AM | 6.2 189 | 08:50 AM | 6.9 210 | 08:49 AM | 5.7 174 | 10:59 AM | 6.3 192 | 10:39 AM | 5.6 171 |
| F 02:48 PM | 0.3 9 | Sa 03:04 PM | 1.3 40 | Su 03:10 PM | 0.5 15 | M 02:43 PM | 1.6 49 | W 04:12 PM | 2.1 64 | Th 03:26 PM | 2.9 88 |
| 09:45 PM | 6.7 204 | 09:58 PM | 6.7 204 | 09:56 PM | 7.9 241 | 09:33 PM | 7.3 223 | 10:41 PM | 8.8 268 | 09:51 PM | 8.3 253 |
| 15 02:59 AM | 3.2 98 | 30 03:32 AM | 2.9 88 | 15 03:55 AM | 1.3 40 | 30 03:48 AM | 1.7 52 | 15 05:28 AM | -0.7 -21 | 30 04:57 AM | -0.2 -6 |
| 08:59 AM | 7.6 232 | 09:31 AM | 6.3 192 | 10:03 AM | 6.9 210 | 09:59 AM | 5.8 177 | 11:58 AM | 6.6 201 | 11:42 AM | 6.0 183 |
| Sa 03:50 PM | 0.1 3 | Su 03:51 PM | 1.2 37 | M 04:02 PM | 0.7 21 | Tu 03:31 PM | 1.9 58 | Th 05:01 PM | 2.5 76 | F 04:23 PM | 3.2 98 |
| 10:36 PM | 7.3 223 | 10:38 PM | 7.1 216 | 10:39 PM | 8.4 256 | 10:09 PM | 7.8 238 | 11:22 PM | 8.9 271 | 10:38 PM | 8.7 265 |
| | | | | | | 31 04:38 AM | 0.9 27 | | | | |
| | | | | | | 11:01 AM | 6.1 186 | | | | |
| | | | | | | W 04:17 PM | 2.2 67 | | | | |
| | | | | | | 10:44 PM | 8.2 250 | | | | |

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.

Referenced to Station: Astoria (9439040) Time offset in mins (high: -44 low: -60) Height offset in feet (high: +0.3 low: +0.03)



NORTH JETTY, WA, 2023
 (46 16.4N / 124 04.3W)

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | |
|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|
| Time | Height | Time | Height | Time | Height | Time | Height | Time | Height | Time | Height |
| h m | ft cm | h m | ft cm | h m | ft cm | h m | ft cm | h m | ft cm | h m | ft cm |
| 1 05:49 AM | -0.8 -24 | 16 06:46 AM | -0.9 -27 | 1 12:08 AM | 9.1 277 | 16 12:53 AM | 7.8 238 | 1 01:50 AM | 8.7 265 | 16 01:56 AM | 7.2 219 |
| 12:38 PM | 6.4 195 | 01:27 PM | 6.8 207 | 07:11 AM | -1.9 -58 | 07:35 AM | -0.8 -24 | 08:08 AM | -1.4 -43 | 07:54 AM | 0.2 6 |
| Sa 05:20 PM | 3.3 101 | Su 06:21 PM | 3.2 98 | Tu 01:54 PM | 7.0 213 | W 02:11 PM | 7.0 213 | F 02:37 PM | 8.2 250 | Sa 02:16 PM | 7.6 232 |
| 11:27 PM | 9.1 277 | | | 07:00 PM | 2.3 70 | 07:31 PM | 2.0 61 | 08:29 PM | -0.1 -3 | 08:19 PM | 0.4 12 |
| 2 06:39 AM | -1.3 -40 | 17 12:24 AM | 8.3 253 | 2 01:03 AM | 9.3 283 | 17 01:31 AM | 7.7 235 | 2 02:41 AM | 8.3 253 | 17 02:33 AM | 7.0 213 |
| 01:30 PM | 6.7 204 | 07:26 AM | -0.9 -27 | 07:56 AM | -2.0 -61 | 08:04 AM | -0.7 -21 | 08:47 AM | -0.8 -24 | 08:20 AM | 0.6 18 |
| Su 06:15 PM | 3.3 101 | M 02:08 PM | 6.9 210 | W 02:37 PM | 7.4 226 | Th 02:40 PM | 7.0 213 | Sa 03:14 PM | 8.4 256 | Su 02:38 PM | 7.8 238 |
| | | 07:06 PM | 3.1 94 | 07:53 PM | 1.8 55 | 08:08 PM | 1.7 52 | 09:18 PM | -0.4 -12 | 08:51 PM | 0.2 6 |
| 3 12:17 AM | 9.3 283 | 18 01:04 AM | 8.2 250 | 3 01:56 AM | 9.1 277 | 18 02:08 AM | 7.5 229 | 3 03:34 AM | 7.7 235 | 18 03:13 AM | 6.7 204 |
| 07:28 AM | -1.7 -52 | 08:03 AM | -0.9 -27 | 08:38 AM | -1.9 -58 | 08:31 AM | -0.5 -15 | 09:24 AM | -0.1 -3 | 08:46 AM | 1.1 34 |
| M 02:18 PM | 6.9 210 | Tu 02:46 PM | 6.9 210 | Th 03:17 PM | 7.7 235 | F 03:06 PM | 7.1 216 | Su 03:51 PM | 8.4 256 | M 03:01 PM | 8.0 244 |
| 07:10 PM | 3.1 94 | 07:49 PM | 2.9 88 | 08:46 PM | 1.2 37 | 08:43 PM | 1.4 43 | 10:08 PM | -0.5 -15 | 09:25 PM | 0.0 0 |
| 4 01:08 AM | 9.4 287 | 19 01:43 AM | 8.0 244 | 4 02:49 AM | 8.7 265 | 19 02:45 AM | 7.2 219 | 4 04:29 AM | 7.0 213 | 19 03:55 AM | 6.4 195 |
| 08:15 AM | -1.9 -58 | 08:36 AM | -0.8 -24 | 09:19 AM | -1.6 -49 | 08:57 AM | -0.2 -6 | 10:03 AM | 0.8 24 | 09:15 AM | 1.7 52 |
| Tu 03:05 PM | 7.1 216 | W 03:21 PM | 6.9 210 | F 03:57 PM | 7.9 241 | Sa 03:30 PM | 7.2 219 | M 04:29 PM | 8.3 253 | Tu 03:28 PM | 8.1 247 |
| 08:04 PM | 2.9 88 | 08:29 PM | 2.7 82 | 09:38 PM | 0.8 24 | 09:18 PM | 1.2 37 | 11:00 PM | -0.3 -9 | 10:02 PM | 0.1 3 |
| 5 02:01 AM | 9.3 283 | 20 02:20 AM | 7.8 238 | 5 03:43 AM | 8.1 247 | 20 03:23 AM | 6.8 207 | 5 05:28 AM | 6.3 192 | 20 04:45 AM | 6.0 183 |
| 09:01 AM | -1.9 -58 | 09:05 AM | -0.6 -18 | 08:38 AM | -1.0 -30 | 09:22 AM | 0.3 9 | 10:44 AM | 1.7 52 | 09:48 AM | 2.3 70 |
| W 03:50 PM | 7.3 223 | Th 03:52 PM | 6.9 210 | Sa 04:37 PM | 8.1 247 | Su 03:53 PM | 7.4 226 | Tu 05:10 PM | 8.0 244 | W 04:02 PM | 8.1 247 |
| 08:58 PM | 2.5 76 | 09:07 PM | 2.5 76 | 10:31 PM | 0.6 18 | 09:53 PM | 1.0 30 | 11:58 PM | 0.1 3 | 10:48 PM | 0.2 6 |
| 6 02:54 AM | 9.0 274 | 21 02:58 AM | 7.4 226 | 6 04:40 AM | 7.3 223 | 21 04:04 AM | 6.4 195 | 6 06:36 AM | 5.8 177 | 21 05:47 AM | 5.5 168 |
| 09:45 AM | -1.7 -52 | 09:33 AM | -0.4 -12 | 10:38 AM | -0.1 -3 | 09:48 AM | 0.8 24 | 11:33 AM | 2.6 79 | 10:29 AM | 2.9 88 |
| Th 04:34 PM | 7.5 229 | F 04:22 PM | 6.9 210 | Su 05:18 PM | 8.1 247 | M 04:17 PM | 7.5 229 | W 05:57 PM | 7.6 232 | Th 04:45 PM | 8.0 244 |
| 09:52 PM | 2.2 67 | 04:45 PM | 2.3 70 | 11:28 PM | 0.5 15 | 10:32 PM | 0.9 27 | 0 | | 11:50 PM | 0.4 12 |
| 7 03:50 AM | 8.5 259 | 22 03:37 AM | 7.0 213 | 7 05:42 AM | 6.5 198 | 22 04:52 AM | 5.9 180 | 7 01:06 AM | 0.4 12 | 22 07:06 AM | 5.3 162 |
| 10:28 AM | -1.3 -40 | 10:00 AM | -0.1 -3 | 11:20 AM | 0.8 24 | 10:19 AM | 1.5 46 | 07:51 AM | 5.5 168 | 11:27 AM | 3.5 107 |
| F 05:18 PM | 7.7 235 | Sa 04:49 PM | 7.0 213 | M 06:01 PM | 8.1 247 | Tu 04:48 PM | 7.7 235 | Th 12:36 PM | 3.3 101 | F 05:43 PM | 7.7 235 |
| 10:50 PM | 1.8 55 | 10:26 PM | 2.1 64 | | | 11:19 PM | 0.8 24 | 06:55 PM | 7.1 216 | 0 | |
| 8 04:49 AM | 7.7 235 | 23 04:20 AM | 6.5 198 | 8 12:32 AM | 0.5 15 | 23 05:54 AM | 5.4 165 | 8 02:21 AM | 0.5 15 | 23 01:14 AM | 0.5 15 |
| 11:13 AM | -0.6 -18 | 10:29 AM | 0.4 12 | 06:51 AM | 5.8 177 | 10:57 AM | 2.2 67 | 09:09 AM | 5.6 171 | 08:31 AM | 5.3 162 |
| Sa 06:03 PM | 7.8 238 | Su 05:18 PM | 7.1 216 | Tu 12:08 PM | 1.7 52 | W 05:27 PM | 7.7 235 | F 01:54 PM | 3.6 110 | Sa 12:55 PM | 3.8 116 |
| 11:53 PM | 1.5 46 | 11:11 PM | 1.9 58 | 06:48 PM | 7.9 241 | | | 08:06 PM | 6.9 210 | 07:01 PM | 7.4 226 |
| 9 05:54 AM | 6.9 210 | 24 05:10 AM | 6.0 183 | 9 01:41 AM | 0.4 12 | 24 12:21 AM | 0.8 24 | 9 03:30 AM | 0.4 12 | 24 02:39 AM | 0.3 9 |
| 11:59 AM | 0.2 6 | 11:01 AM | 1.0 30 | 08:08 AM | 5.4 165 | 07:14 AM | 5.0 152 | 10:17 AM | 5.9 180 | 09:45 AM | 5.7 174 |
| Su 06:50 PM | 8.0 244 | M 05:49 PM | 7.3 223 | W 01:07 PM | 2.6 79 | Th 11:48 AM | 2.9 88 | Sa 03:10 PM | 3.5 107 | Su 02:31 PM | 3.6 110 |
| | | | | 07:42 PM | 7.7 235 | 06:19 PM | 7.7 235 | 09:19 PM | 6.9 210 | 08:30 PM | 7.4 226 |
| 10 01:01 AM | 1.2 37 | 25 12:05 AM | 1.7 52 | 10 02:52 AM | 0.2 6 | 25 01:42 AM | 0.7 21 | 10 04:28 AM | 0.1 3 | 25 03:48 AM | -0.2 -6 |
| 07:06 AM | 6.2 189 | 06:14 AM | 5.4 165 | 09:28 AM | 5.5 168 | 08:45 AM | 5.0 152 | 11:10 AM | 6.3 192 | 10:41 AM | 6.3 192 |
| M 12:49 PM | 1.0 30 | Tu 11:41 AM | 1.7 52 | Th 02:15 PM | 3.1 94 | F 01:02 PM | 3.5 107 | Su 04:13 PM | 3.1 94 | M 03:47 PM | 2.8 85 |
| 07:38 PM | 8.1 247 | 06:27 PM | 7.5 229 | 08:41 PM | 7.6 232 | 07:25 PM | 7.7 235 | 10:22 PM | 7.0 213 | 09:51 PM | 7.7 235 |
| 11 02:11 AM | 0.8 24 | 26 01:09 AM | 1.4 43 | 11 03:58 AM | 0.0 0 | 26 03:03 AM | 0.3 9 | 11 05:14 AM | -0.1 -3 | 26 04:43 AM | -0.6 -18 |
| 08:23 AM | 5.8 177 | 07:34 AM | 5.0 152 | 10:38 AM | 5.8 177 | 10:06 AM | 5.3 162 | 11:52 AM | 6.7 204 | 11:26 AM | 7.0 213 |
| Tu 01:45 PM | 1.8 55 | W 12:31 PM | 2.4 73 | F 03:24 PM | 3.3 101 | Sa 02:33 PM | 3.6 110 | M 05:05 PM | 2.5 76 | Tu 04:49 PM | 1.9 58 |
| 08:28 PM | 8.2 250 | 07:13 PM | 7.6 232 | 09:42 PM | 7.6 232 | 08:42 PM | 7.8 238 | 11:14 PM | 7.2 219 | 10:58 PM | 8.1 247 |
| 12 03:18 AM | 0.2 6 | 27 02:21 AM | 1.0 30 | 12 04:55 AM | -0.3 -9 | 27 04:13 AM | -0.3 -9 | 12 05:53 AM | -0.3 -9 | 27 05:31 AM | -0.9 -27 |
| 09:40 AM | 5.7 174 | 09:01 AM | 5.0 152 | 11:35 AM | 6.2 189 | 11:08 AM | 5.9 180 | 12:28 PM | 6.9 210 | 12:07 PM | 7.6 232 |
| W 02:44 PM | 2.5 76 | Th 01:36 PM | 3.0 91 | Sa 04:26 PM | 3.2 98 | Su 03:51 PM | 3.3 101 | Tu 05:50 PM | 2.0 61 | W 05:44 PM | 0.9 27 |
| 09:18 PM | 8.3 253 | 08:08 PM | 7.9 241 | 10:38 PM | 7.6 232 | 09:57 PM | 8.1 247 | 11:59 PM | 7.4 226 | 11:56 PM | 8.3 253 |
| 13 04:18 AM | -0.2 -6 | 28 03:31 AM | 0.4 12 | 13 05:43 AM | -0.6 -18 | 28 05:10 AM | -1.0 -30 | 13 06:27 AM | -0.4 -12 | 28 06:15 AM | -0.9 -27 |
| 10:50 AM | 5.9 180 | 10:22 AM | 5.3 162 | 12:22 PM | 6.5 198 | 11:58 AM | 6.4 195 | 01:00 PM | 7.1 216 | 12:44 PM | 8.1 247 |
| Th 03:43 PM | 2.9 88 | F 02:49 PM | 3.4 104 | Su 05:20 PM | 3.0 91 | M 04:57 PM | 2.7 82 | W 06:31 PM | 1.5 46 | Th 06:35 PM | 0.0 0 |
| 10:08 PM | 8.3 253 | 09:08 PM | 8.2 250 | 11:29 PM | 7.7 235 | 11:04 PM | 8.5 259 | | | | |
| 14 05:13 AM | -0.6 -18 | 29 04:33 AM | -0.3 -9 | 14 06:25 AM | -0.7 -21 | 29 06:01 AM | -1.4 -43 | 14 12:40 AM | 7.4 226 | 29 12:50 AM | 8.4 256 |
| 11:50 AM | 6.3 192 | 11:27 AM | 5.8 177 | 01:03 PM | 6.7 204 | 12:42 PM | 6.9 210 | 06:58 AM | -0.3 -9 | 06:55 AM | -0.7 -21 |
| F 04:39 PM | 3.1 94 | Sa 04:00 PM | 3.5 107 | M 06:08 PM | 2.7 82 | Tu 05:55 PM | 1.9 58 | Th 01:28 PM | 7.3 223 | F 01:21 PM | 8.6 262 |
| 10:56 PM | 8.3 253 | 10:11 PM | 8.5 259 | | | | | 07:09 PM | 1.0 30 | 07:24 PM | -0.7 -21 |
| 15 06:01 AM | -0.8 -24 | 30 05:30 AM | -1.0 -30 | 15 12:13 AM | 7.8 238 | 30 12:03 AM | 8.8 268 | 15 01:18 AM | 7.4 226 | 30 01:42 AM | 8.2 250 |
| 12:41 PM | 6.5 198 | 12:22 PM | 6.3 192 | 07:02 AM | -0.8 -24 | 06:46 AM | -1.7 -52 | 07:27 AM | -0.1 -3 | 07:35 AM | -0.2 -6 |
| Sa 05:32 PM | 3.2 98 | Su 05:04 PM | 3.2 98 | Tu 01:39 PM | 6.9 210 | W 01:22 PM | 7.4 226 | F 01:53 PM | 7.4 226 | Sa 01:56 PM | 8.8 268 |
| 11:41 PM | 8.3 253 | 11:11 PM | 8.9 271 | 06:51 PM | 2.3 70 | 06:48 PM | 1.1 34 | 07:45 PM | 0.7 21 | 08:11 PM | -1.1 -34 |
| | | 31 06:22 AM | -1.5 -46 | | | 31 12:57 AM | 8.9 271 | | | | |
| | | 01:10 PM | 6.7 204 | | | 07:28 AM | -1.7 -52 | | | | |
| | | M 06:04 PM | 2.8 85 | | | Th 02:00 PM | 7.8 238 | | | | |
| | | | | | | 07:40 PM | 0.4 12 | | | | |

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Referred to Station: Astoria (9439040) Time offset in mins (high: -44 low: -60) Height offset in feet (high: +0.3 low: +0.03)



NORTH JETTY, WA, 2023
 (46 16.4N / 124 04.3W)

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | |
|--|--|--|--|--|---|--|---|--|---|--|---|
| Time | Height | Time | Height | Time | Height | Time | Height | Time | Height | Time | Height |
| h m | ft cm | h m | ft cm | h m | ft cm | h m | ft cm | h m | ft cm | h m | ft cm |
| 1 02:33 AM 08:13 AM Su 02:31 PM 08:57 PM | 7.9 241 0.5 15 8.9 271 -1.2 -37 | 16 02:25 AM 07:47 AM M 01:53 PM 08:29 PM | 7.0 213 1.9 58 8.5 259 -0.5 -15 | 1 04:07 AM 09:06 AM W 03:04 PM 10:04 PM | 7.2 219 3.1 94 8.6 262 -0.4 -12 | 16 02:54 AM 07:41 AM Th 01:34 PM 08:39 PM | 7.0 213 3.7 113 9.3 283 -0.7 -21 | 1 03:40 AM 08:33 AM F 02:18 PM 09:22 PM | 7.3 223 3.9 119 8.3 253 0.2 6 | 16 03:31 AM 08:30 AM Sa 02:21 PM 09:18 PM | 7.6 232 3.7 113 9.2 280 -0.6 -18 |
| 2 03:24 AM 09:31 AM M 03:06 PM 09:43 PM | 7.4 226 2.7 37 8.8 268 -1.0 -30 | 17 03:08 AM 08:18 AM Tu 02:20 PM 09:05 PM | 6.8 207 2.3 70 8.7 265 -0.5 -15 | 2 05:00 AM 09:50 AM Th 03:43 PM 10:51 PM | 6.8 207 3.6 110 8.1 247 0.1 3 | 17 03:45 AM 08:29 AM F 02:21 PM 09:28 PM | 6.9 210 3.8 116 9.0 274 -0.4 -12 | 2 04:26 AM 09:20 AM Sa 03:02 PM 10:03 PM | 7.1 216 4.0 122 7.7 235 0.7 21 | 17 04:18 AM 09:27 AM Su 03:18 PM 10:05 PM | 7.7 235 3.5 107 8.6 262 -0.2 -6 |
| 3 04:18 AM 09:31 AM Tu 03:42 PM 10:30 PM | 6.9 210 2.0 61 8.5 259 -0.5 -15 | 18 03:54 AM 08:52 AM W 02:53 PM 09:45 PM | 6.6 201 2.8 85 8.7 265 -0.4 -12 | 3 05:56 AM 10:41 AM F 04:29 PM 11:44 PM | 6.6 201 3.9 119 7.5 229 0.7 21 | 18 04:40 AM 09:25 AM Sa 03:16 PM 10:24 PM | 6.8 207 3.9 119 8.5 259 0.0 0 | 3 05:13 AM 10:15 AM Su 03:54 PM 10:47 PM | 7.0 213 4.0 122 7.1 216 1.1 34 | 18 05:06 AM 10:32 AM M 04:23 PM 10:56 PM | 7.8 238 3.2 98 7.9 241 0.4 12 |
| 4 05:15 AM 10:13 AM W 04:22 PM 11:23 PM | 6.4 195 2.7 82 8.0 244 0.0 0 | 19 04:46 AM 09:31 AM Th 03:33 PM 10:33 PM | 6.3 192 3.3 101 8.6 262 -0.2 -6 | 4 06:56 AM 11:45 AM Sa 05:28 PM | 6.4 195 4.1 125 6.9 210 | 19 05:38 AM 10:36 AM Su 04:24 PM 11:27 PM | 6.8 207 3.9 119 7.8 238 0.3 9 | 4 06:00 AM 11:19 AM M 04:58 PM 11:35 PM | 7.0 213 3.9 119 6.5 198 1.6 49 | 19 05:56 AM 11:44 AM Tu 05:39 PM 11:50 PM | 8.0 244 2.8 85 7.1 216 1.1 34 |
| 5 06:18 AM 11:04 AM Th 05:08 PM | 6.1 186 3.4 104 7.4 226 | 20 05:47 AM 10:40 AM F 04:22 PM 11:36 PM | 6.0 183 3.7 113 8.2 250 0.2 6 | 5 12:45 AM 06:56 AM Su 12:01 PM 05:44 PM | 1.1 34 6.4 195 4.0 122 6.3 192 | 20 06:37 AM 11:58 AM M 05:47 PM | 7.1 216 3.5 107 7.3 223 | 5 06:47 AM 12:30 PM Tu 06:15 PM | 7.2 219 3.5 107 6.0 183 | 20 06:46 AM 12:59 PM W 07:01 PM | 8.4 256 2.1 64 6.7 204 |
| 6 12:26 AM 07:29 AM F 12:11 PM 06:09 PM | 0.6 18 5.9 180 3.8 116 6.8 207 | 21 06:58 AM 11:29 AM Sa 05:27 PM | 5.9 180 3.9 119 7.7 235 | 6 12:47 AM 07:52 AM M 01:17 PM 07:07 PM | 1.3 40 6.7 204 3.6 110 6.1 186 | 21 12:32 AM 07:32 AM Tu 01:18 PM 07:13 PM | 0.7 21 7.5 229 2.7 82 6.9 210 | 6 12:28 AM 07:31 AM W 01:37 PM 07:35 PM | 1.9 58 7.4 226 2.9 88 5.9 180 | 21 12:48 AM 07:37 AM Th 02:09 PM 08:22 PM | 1.8 55 8.7 265 1.3 40 6.5 198 |
| 7 01:38 AM 08:40 AM Sa 01:33 PM 07:28 PM | 0.9 27 5.9 180 3.9 119 6.4 195 | 22 12:52 AM 08:10 AM Su 01:01 PM 06:52 PM | 0.4 12 6.1 186 3.9 119 7.3 223 | 7 01:44 AM 08:39 AM Tu 02:21 PM 08:21 PM | 1.4 43 7.0 213 2.9 88 6.2 189 | 22 01:33 AM 08:23 AM W 02:27 PM 08:33 PM | 0.9 27 8.1 247 1.7 52 6.9 210 | 7 01:20 AM 08:12 AM Th 02:36 PM 08:48 PM | 2.3 70 7.8 238 2.1 64 6.0 183 | 22 01:46 AM 08:26 AM F 03:11 PM 09:35 PM | 2.4 73 9.1 277 0.5 15 6.7 204 |
| 8 02:48 AM 09:42 AM Su 02:50 PM 08:50 PM | 0.9 27 6.2 189 3.5 107 6.4 195 | 23 02:09 AM 09:13 AM M 02:29 PM 08:23 PM | 0.4 12 6.5 198 3.3 101 7.2 219 | 8 02:32 AM 09:18 AM W 03:14 PM 09:23 PM | 1.4 43 7.4 226 2.0 61 6.4 195 | 23 02:28 AM 09:08 AM Th 03:26 PM 09:42 PM | 1.2 37 8.7 265 0.7 21 7.1 216 | 8 02:10 AM 08:50 AM F 03:26 PM 09:52 PM | 2.6 79 8.2 250 1.3 40 6.3 192 | 23 02:43 AM 09:13 AM Sa 04:06 PM 10:38 PM | 2.9 88 9.4 287 -0.2 -6 7.1 216 |
| 9 03:45 AM 10:31 AM M 03:53 PM 09:58 PM | 0.7 21 6.6 201 2.9 88 6.5 198 | 24 03:14 AM 10:05 AM Tu 03:40 PM 09:43 PM | 0.2 6 7.2 219 2.3 70 7.3 223 | 9 03:14 AM 09:52 AM Th 04:00 PM 10:16 PM | 1.5 46 7.8 238 1.3 40 6.6 201 | 24 03:18 AM 09:50 AM F 04:19 PM 10:43 PM | 1.5 46 9.2 280 -0.2 -6 7.4 226 | 9 02:58 AM 09:26 AM Sa 04:12 PM 10:48 PM | 3.0 91 8.6 262 0.6 18 6.6 201 | 24 03:37 AM 09:59 AM Su 04:57 PM 11:34 PM | 3.3 101 9.6 293 -0.6 -18 7.4 226 |
| 10 04:31 AM 11:11 AM Tu 04:44 PM 10:53 PM | 0.6 18 7.0 213 2.1 64 6.8 207 | 25 04:08 AM 10:49 AM W 04:39 PM 10:50 PM | 0.1 3 7.8 238 1.1 34 7.6 232 | 10 03:53 AM 10:22 AM F 04:41 PM 11:05 PM | 1.7 52 8.2 250 0.6 18 6.9 210 | 25 04:05 AM 10:30 AM Sa 05:08 PM 11:38 PM | 1.9 58 9.6 293 -0.8 -24 7.6 232 | 10 03:45 AM 10:01 AM Su 04:56 PM 11:39 PM | 3.3 101 9.0 274 0.0 0 7.0 213 | 25 04:29 AM 10:42 AM M 05:43 PM | 3.5 107 9.6 293 -0.8 -24 |
| 11 05:09 AM 11:44 AM W 05:28 PM 11:40 PM | 0.5 15 7.3 223 1.4 43 7.0 213 | 26 04:56 AM 11:29 AM Th 05:32 PM 11:49 PM | 0.1 3 8.5 259 0.1 3 7.8 238 | 11 04:29 AM 10:50 AM Sa 05:20 PM 11:50 PM | 2.0 61 8.5 259 0.0 0 7.1 216 | 26 04:51 AM 11:08 AM Su 05:55 PM | 2.4 73 9.7 296 -1.2 -37 | 11 04:30 AM 10:38 AM M 05:39 PM | 3.6 110 9.3 283 -0.5 -15 | 26 12:24 AM 05:19 AM Tu 11:24 AM 06:27 PM | 7.6 232 3.7 113 9.5 290 -0.8 -24 |
| 12 05:43 AM 12:14 PM Th 06:08 PM | 0.5 15 7.6 232 0.8 24 | 27 05:39 AM 12:06 PM F 06:22 PM | 0.4 12 9.0 274 -0.7 -21 | 12 05:06 AM 11:18 AM Su 05:58 PM | 2.3 70 8.8 268 -0.4 -12 | 27 12:30 AM 05:36 AM M 11:46 AM 06:39 PM | 7.7 235 2.8 85 9.7 296 -1.2 -37 | 12 12:27 AM 05:16 AM Tu 11:16 AM 06:22 PM | 7.3 223 3.8 116 9.6 293 -0.8 -24 | 27 01:10 AM 06:06 AM W 12:05 PM 07:07 PM | 7.8 238 3.8 116 9.4 287 -0.7 -21 |
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| 15 01:44 AM 07:16 AM Su 01:28 PM 07:55 PM | 7.1 216 1.4 43 8.3 253 -0.3 -9 | 30 02:25 AM 07:43 AM M 01:52 PM 08:37 PM | 7.7 235 2.0 61 9.3 283 -1.3 -40 | 15 02:06 AM 06:59 AM W 12:54 PM 07:55 PM | 7.2 219 3.4 104 9.3 283 -0.8 -24 | 30 02:54 AM 07:48 AM Th 01:38 PM 08:42 PM | 7.5 229 3.8 116 8.8 268 -0.3 -9 | 15 02:45 AM 07:38 AM F 01:29 PM 08:32 PM | 7.6 232 3.8 116 9.6 293 -0.9 -27 | 30 03:11 AM 08:15 AM Sa 02:03 PM 08:51 PM | 7.7 235 3.7 113 8.4 256 0.2 6 |
| | | 31 03:16 AM 08:24 AM Tu 02:28 PM 09:21 PM | 7.4 226 2.6 79 9.1 277 -1.0 -30 | | | | | 31 03:48 AM 08:57 AM Su 02:43 PM 09:21 PM | 7.6 232 3.6 110 7.9 241 0.7 21 | | |

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