



NOAA Tide Predictions

NORTH JETTY, WA, 2026

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

NOAA Tide Predictions

NORTH JETTY, WA, 2026
 (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	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 03:41 AM	4.0 122	16 04:20 AM	4.4 134	1 12:27 AM	7.3 223	16 12:22 AM	6.8 207	1 04:35 AM	2.7 82	16 12:05 AM	6.5 198
09:56 AM	9.3 283	10:22 AM	8.0 244	05:36 AM	3.1 94	05:34 AM	3.0 91	10:44 AM	8.1 247	05:25 AM	2.7 82
Th 05:09 PM	-0.9 -27	F 05:30 PM	0.1 3	Su 11:42 AM	8.9 271	M 11:34 AM	8.0 244	Su 05:25 PM	-0.6 -18	M 11:30 AM	7.2 219
11:55 PM	6.8 207			○ 06:32 PM	-1.1 -34	○ 06:13 PM	-0.3 -9	11:59 PM	7.4 226	05:59 PM	0.2 6
2 04:43 AM	3.9 119	17 12:19 AM	6.6 201	2 01:08 AM	7.6 232	17 12:53 AM	7.1 216	2 05:27 AM	2.0 61	17 12:36 AM	6.9 210
10:52 AM	9.4 287	05:08 AM	4.1 125	06:28 AM	2.6 79	06:17 AM	2.5 76	11:36 AM	8.1 247	06:11 AM	1.9 58
F 06:01 PM	-1.2 -37	Sa 11:05 AM	8.2 250	M 12:32 PM	8.8 268	Tu 12:16 PM	8.0 244	M 06:05 PM	-0.5 -15	Tu 12:18 PM	7.4 226
		06:08 PM	-0.2 -6	07:11 PM	-0.9 -27	● 06:45 PM	-0.3 -9			06:34 PM	0.1 3
3 12:45 AM	7.2 219	18 12:56 AM	6.8 207	3 01:47 AM	7.8 238	18 01:21 AM	7.4 226	3 12:35 AM	7.7 235	18 01:06 AM	7.3 223
05:42 AM	3.7 113	05:53 AM	3.9 119	07:16 AM	2.1 64	06:57 AM	1.9 58	06:15 AM	1.4 43	06:54 AM	1.2 37
Sa 11:46 AM	9.4 287	Su 11:46 AM	8.3 253	Tu 01:20 PM	8.4 256	W 12:59 PM	7.9 241	Tu 12:24 PM	8.0 244	W 01:04 PM	7.5 229
○ 06:49 PM	-1.3 -40	● 06:43 PM	-0.3 -5	07:47 PM	-0.5 -15	07:16 PM	-0.1 -3	○ 06:40 PM	-0.3 -9	07:08 PM	0.3 9
4 01:32 AM	7.4 226	19 01:30 AM	7.0 213	4 02:22 AM	8.0 244	19 01:48 AM	7.7 235	4 01:08 AM	7.9 241	19 01:34 AM	7.8 238
06:37 AM	3.4 104	06:35 AM	3.5 107	08:02 AM	1.8 55	07:37 AM	1.4 43	06:59 AM	1.0 30	07:36 AM	0.5 15
Su 12:38 PM	9.3 283	M 12:26 PM	8.3 253	W 02:06 PM	7.8 238	Th 01:42 PM	7.7 235	W 01:09 PM	7.7 235	Th 01:51 PM	7.5 229
07:34 PM	-1.2 -37	07:15 PM	-0.4 -12	08:20 PM	0.0 0	07:46 PM	0.2 6	07:13 PM	0.2 6	● 07:42 PM	0.6 18
5 02:17 AM	7.6 232	20 02:01 AM	7.1 216	5 02:56 AM	8.0 244	20 02:15 AM	8.0 244	5 01:39 AM	8.0 244	20 02:03 AM	8.2 250
07:29 AM	3.1 94	07:15 AM	3.2 98	08:46 AM	1.6 49	08:18 AM	1.0 30	07:39 AM	0.7 21	08:18 AM	0.0 0
M 01:28 PM	8.8 268	Tu 01:06 PM	8.2 250	Th 02:52 PM	7.2 219	F 02:29 PM	7.3 223	Th 01:53 PM	7.2 219	F 02:38 PM	7.3 223
08:15 PM	-0.9 -27	07:45 PM	-0.4 -12	08:51 PM	0.7 21	08:17 PM	0.8 24	07:43 PM	0.8 24	08:17 PM	1.1 34
6 02:59 AM	7.7 235	21 02:30 AM	7.3 223	6 03:28 AM	7.9 241	21 02:45 AM	8.3 253	6 02:08 AM	8.0 244	21 02:34 AM	8.5 259
08:20 AM	2.8 85	07:54 AM	2.8 85	09:30 AM	1.6 49	09:02 AM	0.7 21	08:18 AM	0.6 18	09:01 AM	-0.3 -9
Tu 02:18 PM	8.3 253	W 01:47 PM	8.0 244	F 03:40 PM	6.5 198	Sa 03:20 PM	6.7 204	F 02:36 PM	6.7 204	Sa 03:28 PM	6.9 210
08:54 PM	-0.4 -12	08:14 PM	-0.1 -3	09:21 PM	1.5 46	08:50 PM	1.5 46	08:12 PM	1.5 46	08:52 PM	1.7 52
7 03:40 AM	7.8 238	22 02:58 AM	7.5 229	7 03:59 AM	7.8 238	22 03:19 AM	8.5 259	7 02:35 AM	7.9 241	22 03:08 AM	8.7 265
09:11 AM	2.6 79	08:35 AM	2.4 73	10:16 AM	1.6 49	09:51 AM	0.7 21	08:56 AM	0.7 21	09:47 AM	-0.4 -12
W 03:09 PM	7.5 229	Th 02:31 PM	7.5 229	Sa 04:34 PM	5.8 177	Su 04:19 PM	6.0 183	Sa 03:21 PM	6.2 189	Su 04:22 PM	6.4 195
09:31 PM	0.3 9	08:44 PM	0.3 9	09:53 PM	2.4 73	09:28 PM	2.3 70	08:41 PM	2.2 67	09:31 PM	2.3 70
8 04:19 AM	7.8 238	23 03:27 AM	7.7 235	8 04:31 AM	7.7 235	23 03:59 AM	8.5 259	8 04:01 AM	7.8 238	23 03:46 AM	8.7 265
10:03 AM	2.5 76	09:20 AM	2.1 64	11:09 AM	1.8 55	10:52 AM	0.8 24	10:35 AM	0.9 27	10:38 AM	-0.2 -6
Th 04:03 PM	6.7 204	F 03:21 PM	7.0 213	Su 05:37 PM	5.2 158	M 05:31 PM	5.4 165	Su 05:10 PM	5.7 174	M 05:22 PM	5.9 180
10:07 PM	1.1 34	09:17 PM	0.9 27	10:30 PM	3.2 98	10:16 PM	3.2 98	10:11 PM	2.9 88	10:15 PM	3.0 91
9 04:58 AM	7.7 235	24 04:00 AM	8.0 244	9 05:09 AM	7.5 229	24 04:49 AM	8.3 253	9 04:30 AM	7.6 232	24 04:32 AM	8.4 256
11:00 AM	2.4 73	10:11 AM	1.8 55	12:13 PM	1.9 58	12:08 PM	0.9 27	11:19 AM	1.2 37	11:39 AM	0.2 6
F 05:03 PM	5.9 180	Sa 04:19 PM	6.2 189	M 06:53 PM	4.9 149	Tu 06:56 PM	5.1 155	M 06:08 PM	5.2 158	Tu 06:33 PM	5.5 168
10:46 PM	1.9 58	09:54 PM	1.7 52	11:21 PM	4.0 122	11:23 PM	3.9 119	10:47 PM	3.5 107	11:12 PM	3.6 110
10 05:38 AM	7.6 232	25 04:38 AM	8.2 250	10 05:55 AM	7.2 219	25 05:54 AM	8.0 244	10 05:05 AM	7.3 223	25 05:29 AM	7.9 241
12:02 PM	2.2 67	11:13 AM	1.7 52	01:25 PM	1.8 55	01:33 PM	0.8 24	12:14 PM	1.6 49	12:54 PM	0.5 15
Sa 06:12 PM	5.3 162	Su 05:32 PM	5.6 171	Tu 08:16 PM	4.9 149	W 08:24 PM	5.3 162	Tu 07:18 PM	4.9 149	W 07:51 PM	5.4 165
○ 11:30 PM	2.8 85	10:39 PM	2.6 79					11:37 PM	4.1 125	○	
11 06:20 AM	7.6 232	26 05:25 AM	8.3 253	11 12:33 AM	4.5 137	26 12:55 AM	4.3 131	11 05:52 AM	6.9 210	26 12:30 AM	4.0 122
01:09 PM	2.0 61	12:29 PM	1.4 43	06:55 AM	7.1 216	07:13 AM	7.8 238	01:27 PM	1.7 52	06:42 AM	7.4 226
Su 07:30 PM	5.0 152	M 07:00 PM	5.2 158	W 02:35 PM	1.5 46	Th 02:48 PM	0.4 12	W 08:38 PM	4.9 149	Th 02:14 PM	0.6 18
		○ 11:39 PM	3.5 107	09:31 PM	5.3 162	09:31 PM	5.3 162	○		09:08 PM	5.6 171
12 12:23 AM	3.6 110	27 06:22 AM	8.4 256	12 01:53 AM	4.6 140	27 02:23 AM	4.1 125	12 12:52 AM	4.5 137	27 02:02 AM	3.9 119
07:06 AM	7.6 232	01:49 PM	1.0 30	08:02 AM	7.1 216	08:35 AM	7.8 238	06:58 AM	6.6 201	08:08 AM	7.0 213
M 02:14 PM	1.6 49	Tu 08:31 PM	5.3 162	Th 03:33 PM	1.1 34	F 03:50 PM	-0.1 -3	Th 02:44 PM	1.6 49	F 03:25 PM	0.4 12
08:49 PM	5.2 158			10:27 PM	5.7 174	10:33 PM	6.4 195	09:51 PM	5.1 155	10:12 PM	6.1 186
13 01:26 AM	4.1 125	28 12:58 AM	4.1 125	13 03:02 AM	4.5 137	28 03:35 AM	3.5 107	13 02:21 AM	4.5 137	28 03:23 AM	3.3 101
07:56 AM	7.6 232	07:29 AM	8.4 256	09:06 AM	7.3 223	09:45 AM	8.0 244	08:18 AM	6.5 198	09:31 AM	7.0 213
Tu 03:13 PM	1.2 37	W 03:02 PM	0.4 12	F 04:21 PM	0.6 18	Sa 04:41 PM	-0.4 -12	F 03:48 PM	1.2 37	Sa 04:23 PM	0.2 6
09:57 PM	5.5 168	09:49 PM	5.7 174	11:11 PM	6.2 189	11:19 PM	6.9 210	10:47 PM	5.6 171	11:02 PM	6.7 204
14 02:29 AM	4.4 134	29 02:22 AM	4.3 131	14 04:00 AM	4.1 125	29 03:36 AM	4.1 125	14 03:36 AM	4.1 125	29 04:29 AM	2.5 76
08:47 AM	7.7 235	08:40 AM	8.6 262	10:01 AM	7.5 229	09:34 AM	6.6 201	09:34 AM	6.6 201	10:39 AM	7.1 216
W 04:04 PM	0.8 24	Th 04:05 PM	-0.2 -6	Sa 05:03 PM	0.2 6	Sa 04:39 PM	0.8 24	Sa 04:39 PM	0.8 24	Su 05:11 PM	0.0 0
10:52 PM	6.0 183	10:51 PM	6.3 192	11:49 PM	6.5 198	11:30 PM	6.0 183	11:30 PM	6.0 183	11:45 PM	7.2 219
15 03:27 AM	4.5 137	30 03:35 AM	4.1 125	15 04:49 AM	3.6 110	30 04:35 AM	3.4 104	15 04:35 AM	3.4 104	30 05:25 AM	1.7 52
09:36 AM	7.9 241	09:47 AM	8.8 268	10:49 AM	7.8 238	10:36 AM	6.9 210	10:36 AM	6.9 210	11:37 AM	7.2 219
Th 04:49 PM	0.4 12	F 05:00 PM	-0.7 -21	Su 05:39 PM	-0.1 -3	Su 05:21 PM	0.4 12	Su 05:21 PM	0.4 12	M 05:52 PM	0.1 3
11:39 PM	6.3 192	11:42 PM	6.8 207								
		31 04:39 AM	3.6 110							31 12:22 AM	7.6 232
		10:48 AM	8.9 271							06:13 AM	0.9 27
		Sa 05:48 PM	-1.0 -30							Tu 12:27 PM	7.2 219
										06:29 PM	0.4 12

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)



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

NOAA Tide Predictions

NORTH JETTY, WA, 2026
 (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 12:55 AM	7.8 238	16 12:15 AM	7.8 238	1 12:42 AM	8.0 244	16 12:06 AM	8.7 265	1 01:08 AM	7.8 238	16 01:21 AM	9.0 274
06:57 AM	0.4 12	06:31 AM	0.0 0	07:16 AM	-0.5 -15	06:58 AM	-1.3 -40	08:11 AM	-0.5 -15	08:28 AM	-1.9 -58
W 01:14 PM	7.1 216	Th 12:53 PM	6.9 210	F 01:48 PM	6.4 195	Sa 01:37 PM	6.6 201	M 03:03 PM	6.1 186	Tu 03:15 PM	6.7 204
07:04 PM	0.8 24	06:29 PM	1.3 40	07:02 PM	2.4 73	06:40 PM	2.7 82	07:53 PM	3.6 110	08:15 PM	2.9 88
2 01:26 AM	8.0 244	17 12:47 AM	8.3 253	2 01:11 AM	8.0 244	17 12:49 AM	9.0 274	2 01:41 AM	7.7 235	17 02:14 AM	8.7 265
08:38 AM	0.0 0	07:16 AM	-0.6 -18	07:54 AM	-0.5 -15	07:48 AM	-1.6 -49	08:46 AM	-0.4 -12	09:16 AM	-1.7 -52
Th 01:58 PM	6.9 210	F 01:43 PM	7.0 213	Sa 02:31 PM	6.3 192	Su 02:31 PM	6.6 201	Tu 03:43 PM	6.1 186	W 04:04 PM	6.8 207
07:37 PM	1.3 40	07:09 PM	1.7 52	07:37 PM	2.9 88	07:31 PM	2.9 88	08:32 PM	3.6 110	09:10 PM	2.7 82
3 01:54 AM	8.0 244	18 01:21 AM	8.7 265	3 01:39 AM	7.9 241	18 01:34 AM	9.1 277	3 02:16 AM	7.5 229	18 03:09 AM	8.2 250
08:16 AM	-0.1 -3	08:01 AM	-1.1 -34	08:29 AM	-0.4 -12	09:20 AM	-1.7 -52	09:20 AM	-0.3 -9	10:02 AM	-1.4 -43
F 02:41 PM	6.7 204	Sa 02:35 PM	6.9 210	Su 03:14 PM	6.2 189	M 03:25 PM	6.6 201	W 04:21 PM	6.0 183	Th 04:51 PM	6.9 210
08:08 PM	1.8 55	07:50 PM	2.1 64	08:12 PM	3.2 98	08:22 PM	3.1 94	09:12 PM	3.6 110	10:07 PM	2.5 76
4 02:20 AM	8.0 244	19 01:59 AM	8.9 271	4 02:07 AM	7.8 238	19 02:23 AM	8.9 271	4 02:54 AM	7.3 223	19 04:05 AM	7.5 229
08:51 AM	-0.1 -3	09:37 AM	-1.2 -37	09:30 AM	-0.2 -6	09:29 AM	-1.5 -46	09:53 AM	-0.2 -6	10:47 AM	-0.8 -24
Sa 03:24 PM	6.4 195	Su 03:28 PM	6.7 204	M 03:56 PM	6.0 183	Tu 04:20 PM	6.5 198	Th 05:00 PM	5.9 180	F 05:38 PM	6.9 210
08:38 PM	2.4 73	08:34 PM	2.6 79	08:47 PM	3.5 107	09:16 PM	3.2 98	09:54 PM	3.5 107	11:06 PM	2.3 70
5 02:46 AM	7.9 241	20 02:40 AM	8.9 271	5 02:37 AM	7.6 232	20 03:15 AM	8.5 259	5 03:36 AM	7.0 213	20 05:04 AM	6.7 204
09:26 AM	0.0 0	09:30 AM	-1.1 -34	09:38 AM	0.0 0	10:20 AM	-1.2 -37	10:28 AM	0.0 0	11:32 AM	-0.2 -6
Su 04:07 PM	6.1 186	M 04:24 PM	6.4 195	Tu 04:40 PM	5.8 177	W 05:14 PM	6.5 198	F 05:38 PM	5.9 180	Sa 06:24 PM	7.0 213
09:09 PM	2.9 88	09:21 PM	3.0 91	09:24 PM	3.7 113	10:14 PM	3.2 98	10:41 PM	3.4 104		
6 03:13 AM	7.7 235	21 03:25 AM	8.6 262	6 03:12 AM	7.4 226	21 04:12 AM	7.9 241	6 04:24 AM	6.6 201	21 12:09 AM	2.1 64
10:01 AM	0.4 12	10:30 AM	-0.8 -24	10:14 AM	0.3 9	11:13 AM	-0.7 -21	11:06 AM	0.2 6	06:09 AM	5.9 180
M 04:53 PM	5.7 174	Tu 05:24 PM	6.1 186	W 05:26 PM	5.6 171	Th 06:10 PM	6.5 198	Sa 06:17 PM	6.0 183	Su 12:19 PM	0.6 18
09:42 PM	3.3 101	10:14 PM	3.3 101	10:06 PM	3.8 116	11:19 PM	3.1 94	11:37 PM	3.1 94	07:10 PM	7.1 216
7 03:43 AM	7.5 229	22 04:18 AM	8.1 247	7 03:53 AM	7.1 216	22 05:16 AM	7.1 216	7 05:21 AM	6.1 186	22 01:16 AM	1.7 52
10:40 AM	0.7 21	11:30 AM	-0.3 -9	10:56 AM	0.5 15	12:09 PM	-0.2 -6	11:50 AM	0.6 18	07:19 AM	5.3 162
Tu 05:46 PM	5.4 165	W 06:28 PM	5.9 180	Th 06:15 PM	5.5 168	F 07:05 PM	6.6 201	Su 06:58 PM	6.2 189	M 01:08 PM	1.3 40
10:21 PM	3.7 113	11:19 PM	3.6 110	10:57 PM	3.9 119					07:56 PM	7.2 219
8 04:21 AM	7.2 219	23 05:21 AM	7.5 229	8 04:42 AM	6.7 204	23 12:30 AM	2.9 88	8 12:43 AM	2.8 85	23 02:23 AM	1.3 40
11:28 AM	1.1 34	12:36 PM	0.1 3	11:45 AM	0.7 21	06:27 AM	6.4 195	06:31 AM	5.5 168	08:34 AM	4.9 149
W 06:47 PM	5.1 155	Th 07:34 PM	5.9 180	F 07:08 PM	5.5 168	Sa 01:05 PM	0.4 12	M 12:39 PM	1.0 30	Tu 01:59 PM	2.0 61
11:13 PM	4.1 125					07:58 PM	6.8 207	07:41 PM	6.6 201	08:42 PM	7.3 223
9 05:09 AM	6.7 204	24 12:37 AM	3.6 110	9 12:02 AM	3.8 116	24 01:44 AM	2.4 73	9 01:53 AM	2.1 64	24 03:26 AM	0.8 24
12:31 PM	1.3 40	06:38 AM	6.8 207	05:44 AM	6.2 189	07:44 AM	5.8 177	07:51 AM	5.2 158	09:47 AM	4.9 149
Th 07:54 PM	5.1 155	F 01:45 PM	0.4 12	Sa 12:42 PM	0.9 27	Su 02:01 PM	0.9 27	Tu 01:34 PM	1.6 49	W 02:53 PM	2.6 79
		08:38 PM	6.2 189	07:59 PM	5.7 174	08:49 PM	7.0 213	08:25 PM	7.1 216	09:27 PM	7.4 226
10 12:25 AM	4.3 131	25 02:00 AM	3.2 98	10 01:18 AM	3.5 107	25 02:53 AM	1.8 55	10 02:59 AM	1.3 40	25 04:21 AM	0.3 9
06:14 AM	6.3 192	08:01 AM	6.4 195	07:00 AM	5.8 177	08:59 AM	5.5 168	09:13 AM	5.1 155	10:53 AM	5.1 155
F 01:43 PM	1.4 43	Sa 02:48 PM	0.5 15	Su 01:41 PM	1.1 34	M 02:53 PM	1.3 40	W 02:31 PM	2.1 64	Th 03:46 PM	3.1 94
08:59 PM	5.2 158	09:34 PM	6.6 201	08:47 PM	6.0 183	09:35 PM	7.3 223	09:11 PM	7.6 232	10:10 PM	7.5 229
11 01:51 AM	4.1 125	26 03:14 AM	2.5 76	11 02:30 AM	2.9 88	26 03:54 AM	1.0 30	11 04:00 AM	0.4 12	26 05:11 AM	-0.1 -3
07:37 AM	6.0 183	09:19 AM	6.2 189	08:22 AM	5.6 171	10:09 AM	5.5 168	10:28 AM	5.3 162	11:50 AM	5.4 165
Sa 02:48 PM	1.2 37	Su 03:43 PM	0.6 18	M 02:37 PM	1.2 37	Tu 03:42 PM	1.8 55	Th 03:29 PM	2.5 76	F 04:37 PM	3.4 104
09:52 PM	5.6 171	10:22 PM	7.1 216	09:30 PM	6.5 198	10:16 PM	7.6 232	09:58 PM	8.1 247	10:52 PM	7.5 229
12 03:05 AM	3.5 107	27 04:16 AM	1.6 49	12 03:33 AM	2.0 61	27 04:47 AM	0.4 12	12 04:57 AM	-0.4 -12	27 05:56 AM	-0.4 -12
08:58 AM	6.1 186	10:27 AM	6.3 192	09:38 AM	5.7 174	11:10 AM	5.6 171	11:35 AM	5.7 174	12:40 PM	5.7 174
Su 03:42 PM	1.0 30	M 04:29 PM	0.8 24	Tu 03:29 PM	1.4 43	W 04:27 PM	2.2 67	F 04:26 PM	2.9 88	Sa 05:25 PM	3.5 107
10:34 PM	6.1 186	11:03 PM	7.5 229	10:09 PM	7.1 216	10:54 PM	7.8 238	10:47 PM	8.6 262	11:32 PM	7.6 232
13 04:05 AM	2.7 82	28 05:08 AM	0.8 24	13 04:28 AM	1.0 30	28 05:34 AM	-0.1 -3	13 05:52 AM	-1.1 -34	28 06:38 AM	-0.5 -15
10:07 AM	6.3 192	11:24 AM	6.4 195	10:45 AM	5.9 180	12:03 PM	5.8 177	12:35 PM	6.0 183	01:24 PM	5.9 180
M 04:28 PM	0.8 24	Tu 05:11 PM	1.1 34	W 04:17 PM	1.7 52	Th 05:10 PM	2.6 79	Sa 05:24 PM	3.1 94	Su 06:12 PM	3.6 110
11:10 PM	6.7 204	11:39 PM	7.8 238	10:47 PM	7.7 235	11:30 PM	7.9 241	11:37 PM	8.9 271		
14 04:57 AM	1.8 55	29 05:55 AM	0.2 6	14 05:19 AM	0.0 0	29 06:16 AM	-0.5 -15	14 06:46 AM	-1.6 -49	29 12:11 AM	7.6 232
11:07 AM	6.6 201	12:16 PM	6.4 195	11:46 AM	6.2 189	12:52 PM	6.0 183	01:31 PM	6.3 192	07:17 AM	-0.6 -18
Tu 05:10 PM	0.8 24	W 05:50 PM	1.5 46	Th 05:04 PM	2.0 61	F 05:52 PM	3.0 91	Su 06:21 PM	3.2 98	M 02:05 PM	6.0 183
11:43 PM	7.2 219			11:26 PM	8.3 253					06:56 PM	3.5 107
15 05:45 AM	0.8 24	30 12:12 AM	7.9 241	15 06:09 AM	-0.8 -24	30 12:03 AM	7.9 241	15 12:28 AM	9.0 274	30 12:49 AM	7.6 232
12:01 PM	6.8 207	06:37 AM	-0.2 -6	12:43 PM	6.4 195	06:57 AM	-0.6 -18	07:38 AM	-1.8 -55	07:53 AM	-0.7 -21
W 05:50 PM	1.0 30	Th 01:03 PM	6.5 198	F 05:52 PM	2.4 73	Sa 01:38 PM	6.1 186	M 02:24 PM	6.5 198	Tu 02:44 PM	6.1 186
		06:26 PM	2.0 61			06:33 PM	3.3 101	07:19 PM	3.1 94	07:38 PM	3.4 104
						31 12:35 AM	7.8 238				
						07:35 AM	-0.6 -18				
						Su 02:21 PM	6.2 189				
						07:14 PM	3.5 107				

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, 2026
 (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 01:27 AM	7.5 229	16 02:08 AM	8.3 253	1 02:34 AM	7.0 213	16 03:37 AM	6.6 201	1 03:57 AM	6.0 183	16 05:01 AM	5.3 162
08:27 AM	-0.7 -21	09:55 AM	-1.7 -52	08:58 AM	-0.6 -18	09:35 AM	0.0 0	09:26 AM	1.1 34	10:02 AM	2.5 76
W 03:19 PM	6.1 186	Th 03:35 PM	7.0 213	Sa 03:37 PM	6.6 201	Su 04:06 PM	7.3 223	Tu 03:48 PM	7.7 235	W 04:14 PM	7.0 213
08:18 PM	3.2 98	08:58 PM	1.8 55	09:17 PM	1.5 46	10:12 PM	0.4 12	10:20 PM	-0.1 -3	11:06 PM	0.5 15
2 02:04 AM	7.4 226	17 03:00 AM	7.8 238	2 03:16 AM	6.7 204	17 04:28 AM	6.0 183	2 04:52 AM	5.5 168	17 06:00 AM	4.9 149
08:58 AM	-0.7 -21	09:35 AM	-1.3 -40	09:26 AM	-0.3 -9	10:08 AM	0.8 24	10:02 AM	1.8 55	10:42 AM	3.1 94
Th 03:52 PM	6.2 189	F 04:16 PM	7.1 216	Su 04:04 PM	6.9 210	M 04:39 PM	7.2 219	W 04:26 PM	7.7 235	Th 04:51 PM	6.6 201
08:58 PM	3.0 91	09:50 PM	1.5 46	09:58 PM	1.2 37	10:59 PM	0.5 15	11:15 PM	0.1 3		
3 02:43 AM	7.2 219	18 03:53 AM	7.1 216	3 04:02 AM	6.2 189	18 05:22 AM	5.3 162	3 05:59 AM	4.9 149	18 12:01 AM	0.9 27
09:28 AM	-0.6 -18	10:13 AM	-0.6 -18	09:56 AM	0.3 9	10:42 AM	1.7 52	10:47 AM	2.5 76	07:08 AM	4.6 140
F 04:23 PM	6.2 189	Sa 04:55 PM	7.2 219	M 04:33 PM	7.1 216	Tu 05:13 PM	7.0 213	Th 05:14 PM	7.6 232	F 11:36 AM	3.7 113
09:38 PM	2.7 82	10:42 PM	1.3 40	10:43 PM	1.0 30	11:52 PM	0.7 21			0 05:40 PM	6.2 189
4 03:25 AM	6.9 210	19 04:47 AM	6.3 192	4 04:55 AM	5.6 171	19 06:25 AM	4.7 143	4 12:25 AM	0.3 9	19 01:12 AM	1.2 37
09:58 AM	-0.4 -12	10:51 AM	0.1 3	11:30 AM	1.0 30	11:22 AM	2.5 76	07:19 AM	4.6 140	08:23 AM	4.6 140
Sa 04:53 PM	6.4 195	Su 05:35 PM	7.2 219	Tu 05:08 PM	7.3 223	W 05:53 PM	6.7 204	F 11:48 AM	3.2 98	Sa 12:52 PM	4.0 122
10:21 PM	2.4 73	11:37 PM	1.2 37	11:38 PM	0.8 24			0 06:15 PM	7.3 223	06:49 PM	5.8 177
5 04:11 AM	6.4 195	20 05:46 AM	5.5 168	5 06:00 AM	5.0 152	20 12:54 AM	1.0 30	5 01:50 AM	0.3 9	20 02:27 AM	1.1 34
10:30 AM	0.0 0	11:29 AM	1.0 30	11:11 AM	1.8 55	07:38 AM	4.4 134	08:45 AM	4.6 140	09:32 AM	4.8 146
Su 05:24 PM	6.6 201	M 06:15 PM	7.1 216	W 05:50 PM	7.5 229	Th 12:15 PM	3.2 98	Sa 01:16 PM	3.6 110	Su 02:16 PM	3.8 116
11:10 PM	2.1 64					0 06:41 PM	6.4 195	07:34 PM	7.0 213	08:11 PM	5.7 174
6 05:05 AM	5.9 180	21 12:38 AM	1.2 37	6 12:46 AM	0.7 21	21 02:05 AM	1.0 30	6 03:10 AM	0.0 0	21 03:30 AM	0.8 24
11:06 AM	0.6 18	06:52 AM	4.9 149	07:20 AM	4.5 137	08:57 AM	4.4 134	10:01 AM	5.0 152	10:26 AM	5.3 162
M 05:59 PM	6.8 207	Tu 12:13 PM	1.9 58	Th 12:05 PM	2.6 79	F 01:26 PM	3.7 113	Su 02:48 PM	3.4 104	M 03:27 PM	3.4 104
		0 06:57 PM	7.0 213	0 06:44 PM	7.5 229	0 07:42 PM	6.2 189	08:58 PM	7.0 213	09:26 PM	5.9 180
7 12:08 AM	1.8 55	22 01:43 AM	1.0 30	7 02:05 AM	0.4 12	22 03:16 AM	0.8 24	7 04:15 AM	-0.5 -15	22 04:20 AM	0.5 15
06:11 AM	5.3 162	08:07 AM	4.5 137	08:50 AM	4.4 134	10:09 AM	4.7 143	10:59 AM	5.6 171	11:08 AM	5.7 174
Tu 11:49 AM	1.3 40	W 01:05 PM	2.7 82	F 01:17 PM	3.2 98	Sa 02:43 PM	3.8 116	M 04:03 PM	2.8 85	Tu 04:23 PM	2.7 82
0 06:40 PM	7.2 219	07:44 PM	6.9 210	07:50 PM	7.5 229	08:51 PM	6.2 189	10:14 PM	7.2 219	10:26 PM	6.2 189
8 01:16 AM	1.3 40	23 02:50 AM	0.8 24	8 03:23 AM	0.0 0	23 04:15 AM	0.5 15	8 05:09 AM	-0.9 -27	23 05:01 AM	0.2 6
07:30 AM	4.8 146	09:24 AM	4.5 137	10:12 AM	4.8 146	11:06 AM	5.1 155	11:47 AM	6.2 189	11:43 AM	6.1 186
W 12:41 PM	2.0 61	Th 02:06 PM	3.3 101	Sa 02:42 AM	3.5 107	Su 03:50 PM	3.5 107	Tu 05:05 PM	2.0 61	W 05:11 PM	1.9 58
07:28 PM	7.5 229	08:35 PM	6.8 207	09:03 PM	7.6 232	09:56 PM	6.4 195	11:17 PM	7.5 229	11:17 PM	6.5 198
9 02:29 AM	0.8 24	24 03:52 AM	0.5 15	9 04:31 AM	-0.6 -18	24 05:04 AM	0.1 3	9 05:56 AM	-1.1 -34	24 05:38 AM	0.0 0
08:57 AM	4.7 143	10:34 AM	4.8 146	11:18 AM	5.3 162	11:50 AM	5.5 168	12:28 PM	6.7 204	12:14 PM	6.5 198
Th 01:44 PM	2.7 82	F 03:11 PM	3.6 110	Su 04:00 PM	3.3 101	M 04:46 PM	3.1 94	W 06:00 PM	1.2 37	Th 05:54 PM	1.2 37
08:23 PM	7.8 238	09:29 PM	6.9 210	10:14 PM	7.8 238	10:51 PM	6.6 201				
10 03:38 AM	0.1 3	25 04:46 AM	0.1 3	10 05:29 AM	-1.1 -34	25 05:45 AM	-0.3 -9	10 12:12 AM	7.5 229	25 12:04 AM	6.7 204
10:18 AM	4.9 149	11:32 AM	5.2 158	12:11 PM	5.8 177	12:28 PM	5.8 177	06:37 AM	-1.0 -30	06:12 AM	0.0 0
F 02:55 PM	3.1 94	Sa 04:11 PM	3.6 110	M 05:07 PM	2.8 85	Tu 05:35 PM	2.6 79	Th 01:05 PM	7.1 216	F 12:42 PM	6.9 210
09:22 PM	8.1 247	10:22 PM	7.0 213	11:19 PM	8.1 247	11:38 PM	6.9 210	06:49 PM	0.5 15	06:35 PM	0.6 18
11 04:42 AM	-0.6 -18	26 05:34 AM	-0.2 -6	11 06:20 AM	-1.5 -46	26 06:21 AM	-0.5 -15	11 01:02 AM	7.4 226	26 12:48 AM	6.8 207
11:27 AM	5.3 162	12:20 PM	5.6 171	12:58 PM	6.3 192	01:01 PM	6.1 186	07:15 AM	-0.7 -21	06:45 AM	0.2 6
Sa 04:04 PM	3.3 101	Su 05:05 PM	3.5 107	Tu 06:07 PM	2.2 67	W 06:19 PM	2.1 64	F 01:40 PM	7.4 226	Sa 01:09 PM	7.3 223
10:23 PM	8.4 256	11:10 PM	7.1 216					0 07:35 PM	0.0 0	0 07:15 PM	0.0 0
12 05:41 AM	-1.2 -37	27 06:16 AM	-0.5 -15	12 12:16 AM	8.2 250	27 12:21 AM	7.0 213	12 01:50 AM	7.2 219	27 01:33 AM	6.8 207
12:26 PM	5.8 177	01:02 PM	5.8 177	07:05 AM	-1.7 -52	06:54 AM	-0.7 -21	07:50 AM	-0.2 -6	07:18 AM	0.6 18
Su 05:10 PM	3.2 98	M 05:54 PM	3.2 98	W 01:40 PM	6.7 204	Th 01:31 PM	6.4 195	Sa 02:13 PM	7.5 229	Su 01:36 PM	7.7 235
11:23 PM	8.6 262	11:55 PM	7.2 219	0 07:01 PM	1.6 49	07:00 PM	1.6 49	08:19 PM	-0.3 -9	07:55 PM	-0.5 -15
13 06:35 AM	-1.6 -49	28 06:54 AM	-0.7 -21	13 01:10 AM	8.1 247	28 01:03 AM	7.1 216	13 02:36 AM	6.8 207	28 02:18 AM	6.7 204
01:19 PM	6.2 189	01:39 PM	6.0 183	07:47 AM	-1.6 -49	07:25 AM	-0.6 -18	08:24 AM	0.4 12	07:51 AM	1.0 30
M 06:12 PM	3.0 91	Tu 06:39 PM	3.0 91	Th 02:19 PM	7.0 213	F 01:58 PM	6.6 201	Su 02:44 PM	7.5 229	M 02:05 PM	8.0 244
				07:52 PM	1.1 34	0 07:39 PM	1.1 34	09:00 PM	-0.4 -12	08:35 PM	-0.8 -24
14 12:20 AM	8.7 265	29 12:36 AM	7.3 223	14 02:00 AM	7.8 238	29 01:43 AM	7.0 213	14 03:23 AM	6.3 192	29 03:05 AM	6.4 195
07:25 AM	-1.9 -58	07:29 AM	-0.8 -24	08:25 AM	-1.2 -37	07:55 AM	-0.4 -12	08:56 AM	1.1 34	08:26 AM	1.6 49
Tu 02:07 PM	6.5 198	W 02:13 PM	6.1 186	F 02:57 PM	7.2 219	Sa 02:24 PM	6.9 210	M 03:14 PM	7.4 226	Tu 02:37 PM	8.2 250
0 07:10 PM	2.6 79	0 07:21 PM	2.6 79	08:40 PM	0.7 21	08:17 PM	0.6 18	09:40 PM	-0.2 -6	09:18 PM	-0.9 -27
15 01:15 AM	8.6 262	30 01:16 AM	7.3 223	15 02:49 AM	7.3 223	30 02:25 AM	6.8 207	15 04:10 AM	5.8 177	30 03:57 AM	6.1 186
08:12 AM	-1.9 -58	08:00 AM	-0.9 -27	09:01 AM	-0.7 -21	08:24 AM	-0.1 -3	09:28 AM	1.8 55	09:04 AM	2.1 64
W 02:52 PM	6.8 207	Th 02:43 PM	6.3 192	Sa 03:32 PM	7.3 223	Su 02:49 PM	7.2 219	Tu 03:43 PM	7.3 223	W 03:14 PM	8.2 250
08:06 PM	2.2 67	08:00 PM	2.3 70	09:26 PM	0.4 12	08:55 PM	0.2 6	10:21 PM	0.1 3	10:06 PM	-0.7 -21
		31 01:54 AM	7.2 219			31 03:09 AM	6.5 198				
		08:30 AM	-0.8 -24			08:54 AM	0.4 12				
		F 03:11 PM	6.4 195			M 03:16 PM	7.5 229				
		08:39 PM	1.9 58			09:35 PM	0.0 0				

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.

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, 2026
 (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			
h m	ft	cm	h m	ft	cm	h m	ft	cm	h m	ft	cm	h m	ft	cm		
1	04:54 AM	5.6	171	16	05:36 AM	5.3	162	1	06:24 AM	7.2	219	16	05:30 AM	6.8	207	
	09:47 AM	2.7	82		10:14 AM	3.7	113		12:11 PM	2.8	85		11:18 AM	3.3	101	
Th	03:58 PM	8.0	244	F	04:05 PM	6.8	207	Su	04:58 PM	6.9	210	M	04:24 PM	6.1	186	
	11:03 PM	-0.3	-9		11:15 PM	0.8	24	☉		11:16 PM	1.2	37	Tu	06:09 PM	6.2	189
2	06:01 AM	5.2	158	17	06:36 AM	5.1	155	2	12:06 AM	0.4	12	17	06:38 AM	6.0	183	
	10:40 AM	3.2	98		11:08 AM	4.0	122		07:04 AM	6.2	189		12:03 PM	3.7	113	
F	04:52 PM	7.5	229	Sa	04:54 PM	6.3	192	M	12:26 PM	3.3	101	Tu	05:39 PM	5.7	174	
								☉	06:24 PM	6.3	192	☉				
3	12:13 AM	0.1	3	18	12:15 AM	1.2	37	3	01:12 AM	0.6	18	18	12:13 AM	1.5	46	
	07:16 AM	5.1	155		07:40 AM	5.1	155		08:52 AM	6.7	204		07:25 AM	6.3	192	
Sa	11:54 AM	3.6	110	Su	12:22 PM	4.1	125	Tu	01:44 PM	2.5	76	W	01:15 PM	3.1	94	
☉	06:02 PM	7.0	213	☉	06:01 PM	5.8	177		07:48 PM	6.1	186		07:03 PM	5.4	165	
4	01:33 AM	0.3	9	19	01:24 AM	1.3	40	4	02:10 AM	0.8	24	19	01:10 AM	1.7	52	
	08:32 AM	5.3	162		08:41 AM	5.3	162		08:52 AM	7.2	219		08:46 AM	6.8	207	
Su	01:27 PM	3.6	110	M	01:44 PM	3.9	119	W	02:50 PM	1.6	49	Th	02:17 PM	2.3	70	
	07:30 PM	6.6	201		07:25 PM	5.5	168		09:01 PM	6.2	189		08:21 PM	5.5	168	
5	02:47 AM	0.2	6	20	02:28 AM	1.2	37	5	03:00 AM	1.0	30	20	02:03 AM	2.0	61	
	09:37 AM	5.7	174		09:32 AM	5.7	174		08:05 AM	7.7	235		09:32 AM	8.3	253	
M	02:52 PM	3.0	91	Tu	02:55 PM	3.2	98	Th	03:46 PM	0.7	21	F	03:11 PM	1.3	40	
	08:57 PM	6.5	198		08:47 PM	5.6	171		10:03 PM	6.3	192		09:29 PM	5.8	177	
6	03:49 AM	0.0	0	21	03:21 AM	1.1	34	6	03:45 AM	1.3	40	21	02:52 AM	2.3	70	
	10:30 AM	6.3	192		10:14 AM	6.1	186		10:13 AM	8.0	244		09:54 AM	7.9	241	
Tu	04:01 PM	2.1	64	W	03:53 PM	2.4	73	F	04:34 PM	0.0	0	Sa	04:01 PM	0.4	12	
	10:11 PM	6.7	204		09:55 PM	5.8	177		10:57 PM	6.5	198		10:29 PM	6.2	189	
7	04:39 AM	-0.1	-3	22	04:06 AM	1.0	30	7	04:26 AM	1.7	52	22	03:39 AM	2.6	79	
	11:14 AM	6.9	210		10:49 AM	6.7	204		10:48 AM	8.3	253		10:01 AM	8.5	259	
W	04:58 PM	1.2	37	Th	04:43 PM	1.5	46	Sa	05:18 PM	-0.5	-15	Su	04:48 PM	-0.4	-12	
	11:12 PM	6.9	210		10:53 PM	6.1	186		11:46 PM	6.6	201		11:24 PM	6.5	198	
8	05:23 AM	-0.1	-3	23	04:47 AM	1.0	30	8	05:05 AM	2.2	67	23	04:27 AM	2.9	88	
	11:52 AM	7.4	226		11:20 AM	7.2	219		11:21 AM	8.3	253		10:41 AM	8.9	271	
Th	05:49 PM	0.3	9	F	05:28 PM	0.6	18	Su	05:59 PM	-0.7	-21	M	05:36 PM	-1.0	-30	
					11:46 PM	6.4	195									
9	12:05 AM	7.0	213	24	05:26 AM	1.2	37	9	12:33 AM	6.7	204	24	12:17 AM	6.8	207	
	06:03 AM	0.2	6		11:50 AM	7.7	235		05:44 AM	2.7	82		05:15 AM	3.2	98	
F	12:27 PM	7.7	235	Sa	06:11 PM	-0.1	-3	M	11:51 AM	8.3	253	Tu	11:22 AM	9.3	283	
	06:34 PM	-0.3	-9					☉	06:37 PM	-0.7	-21	☉	06:23 PM	-1.3	-40	
10	12:54 AM	6.9	210	25	12:35 AM	6.6	201	10	01:17 AM	6.6	201	25	01:09 AM	6.9	210	
	06:40 AM	0.6	18		06:04 AM	1.5	46		06:21 AM	3.1	94		06:04 AM	3.4	104	
Sa	01:00 PM	7.9	241	Su	12:21 PM	8.2	250	Tu	12:21 PM	8.2	250	W	12:07 PM	9.4	287	
●	07:17 PM	-0.6	-18		06:53 PM	-0.7	-21		07:14 PM	-0.6	-18		07:12 PM	-1.5	-46	
11	01:40 AM	6.8	207	26	01:24 AM	6.7	204	11	02:01 AM	6.5	198	26	02:00 AM	6.9	210	
	07:15 AM	1.2	37		06:43 AM	1.9	58		06:58 AM	3.5	107		06:55 AM	3.5	107	
Su	01:30 PM	8.0	244	M	12:54 PM	8.6	262	W	12:51 PM	8.0	244	Th	12:54 PM	9.3	283	
	07:57 PM	-0.8	-24	☉	07:36 PM	-1.2	-37		07:50 PM	-0.3	-9		08:50 PM	-1.4	-43	
12	02:26 AM	6.6	201	27	02:13 AM	6.7	204	12	02:44 AM	6.3	192	27	02:52 AM	6.9	210	
	07:49 AM	1.8	55		07:23 AM	2.3	70		07:35 AM	3.7	113		07:48 AM	3.5	107	
M	01:59 PM	7.9	241	Tu	01:29 PM	8.8	268	Th	01:23 PM	7.8	238	F	01:45 PM	9.0	274	
	08:35 PM	-0.7	-21		08:21 PM	-1.3	-40		08:25 PM	0.0	0		08:50 PM	-1.1	-34	
13	03:10 AM	6.3	192	28	03:04 AM	6.6	201	13	03:27 AM	6.2	189	28	03:44 AM	6.9	210	
	08:23 AM	2.4	73		08:06 AM	2.7	82		08:14 AM	3.9	119		08:44 AM	3.5	107	
Tu	02:27 PM	7.7	235	W	02:09 PM	8.9	271	F	01:57 PM	7.5	229	Sa	02:40 PM	8.4	256	
	09:11 PM	-0.4	-12		09:08 PM	-1.2	-37		09:00 PM	0.3	9		09:40 PM	-0.6	-18	
14	03:56 AM	6.0	183	29	03:57 AM	6.4	195	14	04:12 AM	6.0	183	29	04:37 AM	6.9	210	
	08:56 AM	2.9	88		08:52 AM	3.1	94		08:56 AM	4.0	122		09:46 AM	3.4	104	
W	02:55 PM	7.5	229	Th	02:53 PM	8.7	265	Sa	02:37 PM	7.1	216	Su	03:41 PM	7.7	235	
	09:48 PM	-0.1	-3		09:58 PM	-0.9	-27		09:39 PM	0.6	18		10:33 PM	0.0	0	
15	04:44 AM	5.7	174	30	04:54 AM	6.2	189	15	04:59 AM	5.8	177	30	05:31 AM	7.0	213	
	09:32 AM	3.3	101		09:43 AM	3.4	104		09:47 AM	4.1	125		10:56 AM	3.2	98	
Th	03:27 PM	7.2	219	F	03:44 PM	8.2	250	Su	03:24 PM	6.7	204	M	04:51 PM	6.8	207	
	10:28 PM	0.4	12		10:54 PM	-0.5	-15		10:24 PM	0.9	27		11:28 PM	0.6	18	
16	05:48 AM	5.8	177	31	05:56 AM	6.0	183	16	06:24 AM	7.2	219	16	06:38 AM	6.0	183	
	10:50 AM	4.0	122		10:46 AM	3.6	110		12:11 PM	2.8	85		12:03 PM	3.7	113	
M	04:24 PM	6.1	186	Sa	04:44 PM	7.6	232	Tu	06:09 PM	6.2	189	W	05:03 PM	5.8	177	
	11:16 PM	1.2	37		11:58 PM	0.0	0	☉					11:05 PM	1.7	52	
17	06:38 AM	6.0	183					17	12:25 AM	1.2	37	17	06:10 AM	7.1	216	
	12:03 PM	3.7	113						07:16 AM	7.5	229		12:27 PM	2.8	85	
Tu	05:39 PM	5.7	174					W	01:25 PM	2.2	67	Th	06:22 PM	5.4	165	
☉									07:30 PM	5.8	177	☉	11:57 PM	2.3	70	
18	12:13 AM	1.5	46					18	01:21 AM	1.8	55	18	06:54 AM	7.5	229	
	07:25 AM	6.3	192						08:05 AM	7.8	238		11:35 PM	2.1	64	
W	01:15 PM	3.1	94					Th	02:31 PM	1.4	43	F	07:48 PM	5.3	162	
	07:03 PM	5.4	165						08:46 PM	5.7	174					
19	01:10 AM	1.7	52					19	02:15 AM	2.3	70	19	12:56 AM	2.9	88	
	08:46 AM	6.8	207						08:51 AM	8.1	247		07:41 AM	7.9	241	
Th	02:17 PM	2.3	70					F	03:28 PM	0.6	18	Sa	02:38 PM	1.2	37	
	08:21 PM	5.5	168						09:52 PM	6.0	183		09:08 PM	5.5	168	
20	02:03 AM	2.0	61					20	03:05 AM	2.8	85	20	01:58 AM	3.4	104	
	09:32 AM	8.3	253						09:32 AM	8.3	253		08:30 AM	8.4	256	
F	03:11 PM	1.3	40					Sa	04:17 PM	0.1	3	Su	03:36 PM	0.4	12	
	09															