



NOAA Tide Predictions

Columbia River entrance (N. Jetty), Washington, 2013

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:mean lower low water (MLLW) which is the chart datum of soundings

NOAA Tide Predictions

Columbia River entrance (N. Jetty),Washington,2013

Times and Heights of High and Low Waters

January					February					March									
Time		Height			Time		Height			Time		Height			Time		Height		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 Tu	03:15 AM	7.3	223		16 W	03:58 AM	8.1	247		1 F	02:33 AM	8.3	253		16 Sa	03:59 AM	7.7	235	
	08:43 AM	3.1	94			09:53 AM	2.1	64			08:50 AM	0.6	18			10:33 AM	0.7	21	
	02:35 PM	7.5	229			03:55 PM	7.0	213			03:12 PM	6.8	207			05:01 PM	6.0	183	
	08:58 PM	0.6	18			09:57 PM	1.1	34			08:46 PM	1.5	46			10:20 PM	2.5	76	
2 W	03:49 AM	7.4	226		17 Th	04:39 AM	8.0	244		2 Sa	03:09 AM	8.3	253		17 Su	04:32 AM	7.4	226	
	09:28 AM	3.0	91			10:48 AM	2.1	64			09:38 AM	0.6	18			11:17 AM	1.0	30	
	03:21 PM	7.1	216			04:52 PM	6.3	192			04:07 PM	6.3	192			05:53 PM	5.6	171	
	09:33 PM	1.0	30			10:39 PM	1.9	58			09:27 PM	2.0	61			11:01 PM	3.0	91	
3 Th	04:25 AM	7.6	232		18 F	05:22 AM	7.8	238		3 Su	03:51 AM	8.2	250		18 M	05:10 AM	7.0	213	
	10:20 AM	2.8	85			11:48 AM	2.1	64			10:35 AM	0.7	21			12:09 PM	1.4	43	
	04:17 PM	6.5	198			05:58 PM	5.7	174			05:12 PM	5.7	174			06:55 PM	5.2	158	
	10:14 PM	1.5	46			11:26 PM	2.6	79			10:18 PM	2.6	79			11:52 PM	3.4	104	
4 F	05:07 AM	7.8	238		19 Sa	06:09 AM	7.7	235		4 M	04:43 AM	7.9	241		19 Tu	06:00 AM	6.6	201	
	11:22 AM	2.5	76			12:54 PM	2.0	61			11:43 AM	0.8	24			01:11 PM	1.6	49	
	05:27 PM	5.9	180			07:11 PM	5.3	162			06:28 PM	5.4	165			08:03 PM	5.1	155	
	11:03 PM	2.1	64								11:24 PM	3.1	94						
5 Sa	05:56 AM	7.9	241		20 Su	12:20 AM	3.2	98		5 Tu	05:48 AM	7.6	232		20 W	12:58 AM	3.7	113	
	12:33 PM	2.1	64			07:01 AM	7.5	229			01:00 PM	0.8	24			07:05 AM	6.3	192	
	06:52 PM	5.5	168			02:00 PM	1.8	55			07:48 PM	5.5	168			02:20 PM	1.6	49	
						08:24 PM	5.3	162								09:10 PM	5.2	158	
6 Su	12:03 AM	2.7	82		21 M	01:23 AM	3.6	110		6 W	12:45 AM	3.4	104		21 Th	02:14 AM	3.7	113	
	06:52 AM	8.2	250			07:55 AM	7.5	229			07:06 AM	7.4	226			08:20 AM	6.2	189	
	01:47 PM	1.5	46			03:02 PM	1.4	43			02:16 PM	0.6	18			03:24 PM	1.5	46	
	08:16 PM	5.5	168			09:30 PM	5.5	168			08:59 PM	5.9	180			10:07 PM	5.6	171	
7 M	01:12 AM	3.2	98		22 Tu	02:26 AM	3.8	116		7 Th	02:07 AM	3.2	98		22 F	03:25 AM	3.4	104	
	07:52 AM	8.4	256			08:48 AM	7.6	232			08:24 AM	7.4	226			09:31 AM	6.3	192	
	02:56 PM	0.8	24			03:55 PM	0.9	27			03:21 PM	0.3	9			04:18 PM	1.2	37	
	09:30 PM	5.9	180			10:26 PM	5.9	180			09:58 PM	6.4	195			10:55 PM	6.1	186	
8 Tu	02:24 AM	3.4	104		23 W	03:24 AM	3.8	116		8 F	03:19 AM	2.7	82		23 Sa	04:25 AM	2.8	85	
	08:52 AM	8.7	265			09:38 AM	7.7	235			09:34 AM	7.6	232			10:32 AM	6.6	201	
	03:57 PM	0.0	0			04:41 PM	0.6	18			04:16 PM	0.0	0			05:03 PM	1.0	30	
	10:34 PM	6.3	192			11:13 PM	6.2	189			10:48 PM	7.0	213			11:35 PM	6.5	198	
9 W	03:32 AM	3.4	104		24 Th	04:17 AM	3.6	110		9 Sa	04:21 AM	2.0	61		24 Su	05:16 AM	2.2	67	
	09:50 AM	9.0	274			10:24 AM	7.8	238			10:34 AM	7.8	238			11:25 AM	6.9	210	
	04:52 PM	-0.6	-18			05:21 PM	0.3	9			05:03 PM	-0.1	-3			05:43 PM	0.9	27	
	11:30 PM	6.8	207			11:55 PM	6.6	201			11:32 PM	7.5	229						
10 Th	04:34 AM	3.2	98		25 F	05:04 AM	3.4	104		10 Su	06:15 AM	1.4	43		25 M	12:11 AM	7.0	213	
	10:46 AM	9.2	280			11:07 AM	8.0	244			12:27 PM	7.9	241			06:02 AM	1.5	46	
	05:43 PM	-1.0	-30			05:58 PM	0.2	6			06:45 PM	-0.1	-3			12:14 PM	7.1	216	
																06:20 PM	0.8	24	
11 F	12:21 AM	7.3	223		26 Sa	12:32 AM	6.8	207		11 M	01:12 AM	7.8	238		26 Tu	12:45 AM	7.4	226	
	05:32 AM	2.9	88			05:47 AM	3.2	98			07:03 AM	0.9	27			06:45 AM	0.9	27	
	11:40 AM	9.3	283			11:48 AM	8.1	247			01:17 PM	7.9	241			01:01 PM	7.3	223	
	06:31 PM	-1.1	-34			06:32 PM	0.1	3			07:25 PM	0.1	3			06:56 PM	0.9	27	
12 Sa	01:08 AM	7.6	232		27 Su	01:07 AM	7.1	216		12 Tu	01:49 AM	8.1	247		27 W	01:17 AM	7.8	238	
	06:26 AM	2.6	79			06:28 AM	2.9	88			07:49 AM	0.6	18			07:27 AM	0.4	12	
	12:32 PM	9.2	280			12:27 PM	8.1	247			02:03 PM	7.7	235			01:47 PM	7.3	223	
	07:15 PM	-1.0	-30			07:03 PM	0.1	3			08:01 PM	0.5	15			07:32 PM	1.0	30	
13 Su	01:53 AM	7.9	241		28 M	01:39 AM	7.3	223		13 W	02:24 AM	8.1	247		28 Th	01:50 AM	8.1	247	
	07:19 AM	2.3	70			07:07 AM	2.7	82			08:32 AM	0.4	12			08:08 AM	-0.1	-3	
	01:23 PM	8.9	271			01:06 PM	8.0	244			02:47 PM	7.3	223			02:33 PM	7.2	219	
	07:57 PM	-0.7	-21			07:33 PM	0.2	6			08:36 PM	0.9	27			08:09 PM	1.3	40	
14 M	02:36 AM	8.1	247		29 Tu	02:09 AM	7.5	229		14 Th	02:57 AM	8.1	247		29 F	02:24 AM	8.4	256	
	08:10 AM	2.2	67			07:46 AM	2.4	73			09:12 AM	0.4	12			08:51 AM	-0.4	-12	
	02:13 PM	8.4	256			01:46 PM	7.8	238			03:31 PM	7.0	213			03:20 PM	7.0	213	
	08:38 PM	-0.2	-6			08:02 PM	0.4	12			09:10 PM	1.4	43			08:48 PM	1.6	49	
15 Tu	03:17 AM	8.2	250		30 W	02:39 AM	7.7	235		15 F	03:28 AM	7.9	241		30 Sa	03:01 AM	8.5	259	
	09:01 AM	2.1	64			08:26 AM	2.1	64			09:52 AM	0.5	15			09:36 AM	-0.5	-15	
	03:03 PM	7.7	235			02:28 PM	7.5	229			04:15 PM	6.5	198			04:11 PM	6.7	204	
	09:17 PM	0.4	12			08:33 PM	0.7	21			09:44 PM	1.9	58			09:30 PM	2.0	61	
16 W					31 Th	03:10 AM	7.9	241							31 Su	03:42 AM	8.4	256	
						09:08 AM	1.9	58								10:25 AM	-0.3	-9	
						03:15 PM	7.0	213								05:06 PM	6.3	192	
						09:07 PM	1.2	37								10:17 PM	2.4	73	



Columbia River entrance (N. Jetty), Washington, 2013

Times and Heights of High and Low Waters

April					May					June																																																																																																																																																																																																																																																																																																																																																																																																																		
Time		Height			Time		Height			Time		Height			Time		Height																																																																																																																																																																																																																																																																																																																																																																																																											
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	11:21 AM	-0.1	-3			12:07 PM	0.0	0			11:29 AM	0.8	24			07:29 AM	5.9	180			06:22 AM	5.5	168																																																																																																																																																																																																																																																																																																																																																																																																					
	06:09 PM	5.9	180			07:02 PM	6.4	195			06:36 PM	5.9	180			01:34 PM	1.0	30			12:18 PM	1.3	40																																																																																																																																																																																																																																																																																																																																																																																																					
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2 Tu	05:25 AM	7.6	232		2 Th	12:25 AM	2.8	85		17 F	05:42 AM	6.0	183		2 Su	02:35 AM	1.5	46		17 M	01:34 AM	2.1	64																																																																																																																																																																																																																																																																																																																																																																																																					
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	07:19 PM	5.8	177			01:10 PM	0.4	12			07:26 PM	6.1	186			02:31 PM	1.5	46			01:13 PM	1.8	55																																																																																																																																																																																																																																																																																																																																																																																																					
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3 W	12:25 AM	3.1	94		3 F	01:41 AM	2.6	79		18 Sa	01:04 AM	3.1	94		3 M	03:39 AM	1.0	30		18 Tu	02:42 AM	1.4	43																																																																																																																																																																																																																																																																																																																																																																																																					
	06:35 AM	7.1	216			07:46 AM	6.2	189			06:54 AM	5.6	171			09:54 AM	5.6	171			09:00 AM	5.1	155																																																																																																																																																																																																																																																																																																																																																																																																					
	01:38 PM	0.5	15			02:14 PM	0.8	24			01:12 PM	1.5	46			03:25 PM	1.9	58			02:14 PM	2.2	67																																																																																																																																																																																																																																																																																																																																																																																																					
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	09:34 PM	6.3	192			09:54 PM	7.3	223			09:04 PM	6.8	207			10:44 PM	7.8	238			09:49 PM	8.0	244																																																																																																																																																																																																																																																																																																																																																																																																					
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10 W	01:12 AM	8.0	244		10 F	01:07 AM	7.9	241		25 Sa	12:43 AM	8.8	268		10 M	01:46 AM	7.5	229		25 Tu	02:09 AM	8.6	262																																																																																																																																																																																																																																																																																																																																																																																																					
	07:30 AM	-0.2	-6			07:50 AM	-0.5	-15			07:35 AM	-1.5	-46			08:40 AM	-0.4	-12			08:56 AM	-1.6	-49																																																																																																																																																																																																																																																																																																																																																																																																					
	01:51 PM	7.0	213			02:21 PM	6.4	195			02:15 PM	6.7	204			03:23 PM	6.2	189			03:38 PM	7.1	216																																																																																																																																																																																																																																																																																																																																																																																																					
	07:30 PM	1.4	43			07:37 PM	2.5	76			07:24 PM	2.4	73			08:32 PM	3.0	91			09:00 PM	2.0	61																																																																																																																																																																																																																																																																																																																																																																																																					
11 Th	01:45 AM	8.0	244		11 Sa	01:39 AM	7.7	235		26 Su	01:30 AM	8.8	268		11 Tu	02:21 AM	7.3	223		26 W	03:02 AM	8.2	250																																																																																																																																																																																																																																																																																																																																																																																																					
	08:10 AM	-0.3	-9			08:26 AM	-0.5	-15			09:13 AM	-0.3	-9			09:42 AM	-1.3	-40																																																																																																																																																																																																																																																																																																																																																																																																										
	02:34 PM	6.8	207			03:02 PM	6.3	192			03:07 PM	6.8	207			04:25 PM	7.3	223																																																																																																																																																																																																																																																																																																																																																																																																										
	08:05 PM	1.8	55			08:14 PM	2.8	85			08:16 PM	2.4	73			09:11 PM	3.0	91			09:56 PM	1.9	58																																																																																																																																																																																																																																																																																																																																																																																																					
12 F	02:16 AM	7.9	241		12 Su	02:11 AM	7.6	232		27 M	02:19 AM	8.7	265		12 W	02:58 AM	7.1	216		27 Th	03:57 AM	7.6	232																																																																																																																																																																																																																																																																																																																																																																																																					
	08:48 AM	-0.2	-6			09:01 AM	-0.3	-9			09:12 AM	-1.6	-49			09:44 AM	-0.1	-3			10:27 AM	-0.7	-21																																																																																																																																																																																																																																																																																																																																																																																																					
	03:16 PM	6.6	201			03:43 PM	6.2	189			03:58 PM	6.9	210			04:35 PM	6.3	192			05:12 PM	7.4	226																																																																																																																																																																																																																																																																																																																																																																																																					
	08:40 PM	2.1	64			08:51 PM	2.9	88			09:10 PM	2.4	73			09:52 PM	3.0	91			10:54 PM	1.7	52																																																																																																																																																																																																																																																																																																																																																																																																					
13 Sa	02:45 AM	7.7	235		13 M	02:43 AM	7.4	226		28 Tu	03:11 AM	8.3	253		13 Th	03:38 AM	6.8	207		28 F	04:55 AM	6.9	210																																																																																																																																																																																																																																																																																																																																																																																																					
	09:25 AM	0.0	0			09:36 AM	-0.1	-3			10:01 AM	-1.3	-40			10:16 AM	0.2	6			11:13 AM	-0.1	-3																																																																																																																																																																																																																																																																																																																																																																																																					
	03:58 PM	6.3	192			04:23 PM	6.1	186			04:49 PM	6.9	210			05:12 PM	6.3	192			05:59 PM	7.4	226																																																																																																																																																																																																																																																																																																																																																																																																					
	09:15 PM	2.5	76			09:29 PM	3.1	94			10:07 PM	2.4	73			10:36 PM	2.9	88			11:55 PM	1.6	49																																																																																																																																																																																																																																																																																																																																																																																																					
14 Su	03:16 AM	7.5	229		14 Tu	03:18 AM	7.2	219		29 W	04:06 AM	7.8	238		14 F	04:23 AM	6.4	195		29 Sa	05:57 AM	6.1	186																																																																																																																																																																																																																																																																																																																																																																																																					
	10:01 AM	0.2	6			10:10 AM	0.2	6			10:51 AM	-0.8	-24			10:51 AM	0.5	15			12:00 PM	0.7	21																																																																																																																																																																																																																																																																																																																																																																																																					
	04:42 PM	6.0	183			05:04 PM	6.0	183			05:41 PM	7.0	213			05:50 PM	6.4	195			06:48 PM	7.4	226																																																																																																																																																																																																																																																																																																																																																																																																					
	09:52 PM	2.8	85			10:11 PM	3.2	98			11:09 PM	2.4	73			11:28 PM	2.8	85																																																																																																																																																																																																																																																																																																																																																																																																										
15 M	03:49 AM	7.2	219		15 W	03:58 AM	6.8	207		30 Th	05:07 AM	7.1	216		15 Sa	05:16 AM	6.0	183		30 Su	12:59 AM	1.5	46																																																																																																																																																																																																																																																																																																																																																																																																					
	10:40 AM	0.5	15			10:47 AM	0.5	15			11:43 AM	-0.2	-6			11:31 AM	0.9	27			07:06 AM	5.5	168																																																																																																																																																																																																																																																																																																																																																																																																					
	05:28 PM	5.7	174			05:48 PM	5.9	180			06:35 PM	7.0	213			06:32 PM	6.6	201			12:51 PM	1.4	43																																																																																																																																																																																																																																																																																																																																																																																																					
	10:33 PM	3.1	94			10:59 PM	3.3	101											07:38 PM		7.4	226																																																																																																																																																																																																																																																																																																																																																																																																						
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StationId:9440574
Source:NOAA/NOS/CO-OPS
Station Type:Subordinate
Time Zone:LST/LDT
Datum:mean lower low water (MLLW) which is the chart datum of soundings

NOAA Tide Predictions

Columbia River entrance (N. Jetty),Washington,2013

Times and Heights of High and Low Waters

July					August					September				
Time		Height			Time		Height			Time		Height		
h m		ft cm			h m		ft cm			h m		ft cm		
1 M	02:06 AM	1.2	37		1 Th	03:39 AM	0.6	18		1 Su	04:47 AM	0.3	9	
	08:19 AM	5.1	155			10:08 AM	4.9	149			11:19 AM	5.6	171	
	01:46 PM	2.0	61			03:08 PM	2.9	88			04:39 PM	2.4	73	
	08:29 PM	7.4	226			09:30 PM	6.7	204			10:47 PM	6.4	195	
2 Tu	03:11 AM	0.8	24		2 F	04:34 AM	0.2	6		2 M	05:29 AM	0.1	3	
	09:30 AM	5.1	155			11:05 AM	5.2	158			11:59 AM	5.9	180	
	02:44 PM	2.4	73			04:08 PM	2.9	88			05:28 PM	2.0	61	
	09:19 PM	7.4	226			10:22 PM	6.8	207			11:35 PM	6.7	204	
3 W	04:11 AM	0.4	12		3 Sa	05:22 AM	-0.1	-3		3 Tu	06:06 AM	0.0	0	
	10:34 AM	5.2	158			11:53 AM	5.5	168			12:35 PM	6.3	192	
	03:40 PM	2.7	82			05:01 PM	2.7	82			06:11 PM	1.6	49	
	10:07 PM	7.4	226			11:10 PM	6.9	210						
4 Th	05:03 AM	0.0	0		4 Su	06:04 AM	-0.3	-9		4 W	12:19 AM	6.8	207	
	11:30 AM	5.5	168			12:35 PM	5.8	177			06:40 AM	0.0	0	
	04:34 PM	2.8	85			05:49 PM	2.5	76			01:07 PM	6.6	201	
	10:51 PM	7.4	226			11:54 PM	7.1	216			06:52 PM	1.2	37	
5 F	05:49 AM	-0.3	-9		5 M	06:42 AM	-0.4	-12		5 Th	01:01 AM	6.9	210	
	12:19 PM	5.7	174			01:13 PM	6.1	186			07:13 AM	0.0	0	
	05:23 PM	2.9	88			06:33 PM	2.3	70			01:38 PM	6.8	207	
	11:33 PM	7.5	229								07:31 PM	0.8	24	
6 Sa	06:31 AM	-0.5	-15		6 Tu	12:36 AM	7.1	216		6 F	01:42 AM	6.8	207	
	01:03 PM	5.9	180			07:16 AM	-0.4	-12			07:44 AM	0.2	6	
	06:09 PM	2.9	88			01:48 PM	6.3	192			02:07 PM	7.1	216	
						07:14 PM	2.0	61			08:08 PM	0.5	15	
7 Su	12:13 AM	7.4	226		7 W	01:15 AM	7.1	216		7 Sa	02:23 AM	6.7	204	
	07:09 AM	-0.6	-18			07:48 AM	-0.4	-12			08:14 AM	0.4	12	
	01:44 PM	6.1	186			02:20 PM	6.5	198			02:36 PM	7.3	223	
	06:53 PM	2.8	85			07:53 PM	1.8	55			08:46 PM	0.2	6	
8 M	12:52 AM	7.4	226		8 Th	01:54 AM	7.0	213		8 Su	03:05 AM	6.5	198	
	07:44 AM	-0.6	-18			08:17 AM	-0.2	-6			08:46 AM	0.8	24	
	02:21 PM	6.2	189			02:50 PM	6.6	201			03:06 PM	7.5	229	
	07:34 PM	2.7	82			08:31 PM	1.5	46			09:26 PM	0.0	0	
9 Tu	01:29 AM	7.3	223		9 F	02:33 AM	6.9	210		9 M	03:51 AM	6.1	186	
	08:17 AM	-0.5	-15			08:46 AM	0.0	0			09:21 AM	1.1	34	
	02:56 PM	6.3	192			03:18 PM	6.8	207			03:40 PM	7.5	229	
	08:13 PM	2.6	79			09:08 PM	1.3	40			10:10 PM	0.0	0	
10 W	02:06 AM	7.2	219		10 Sa	03:14 AM	6.6	201		10 Tu	04:42 AM	5.7	174	
	08:47 AM	-0.4	-12			09:15 AM	0.2	6			10:01 AM	1.6	49	
	03:29 PM	6.4	195			03:47 PM	7.0	213			04:20 PM	7.5	229	
	08:52 PM	2.5	76			09:48 PM	1.1	34			11:01 PM	0.1	3	
11 Th	02:44 AM	7.0	213		11 Su	03:57 AM	6.2	189		11 W	05:42 AM	5.3	162	
	09:16 AM	-0.2	-6			09:47 AM	0.6	18			10:49 AM	2.1	64	
	04:00 PM	6.5	198			04:19 PM	7.2	219			05:08 PM	7.3	223	
	09:31 PM	2.3	70			10:31 PM	0.9	27						
12 F	03:24 AM	6.8	207		12 M	04:47 AM	5.7	174		12 Th	12:04 AM	0.2	6	
	09:45 AM	0.1	3			10:23 AM	1.1	34			06:55 AM	5.0	152	
	04:30 PM	6.7	204			04:56 PM	7.3	223			11:51 AM	2.6	79	
	10:12 PM	2.1	64			11:23 PM	0.8	24			06:10 PM	6.9	210	
13 Sa	04:08 AM	6.4	195		13 Tu	05:47 AM	5.2	158		13 F	01:19 AM	0.3	9	
	10:17 AM	0.4	12			11:07 AM	1.6	49			08:12 AM	5.0	152	
	05:03 PM	6.9	210			05:41 PM	7.3	223			01:10 PM	2.8	85	
	10:58 PM	1.9	58								07:27 PM	6.7	204	
14 Su	04:58 AM	5.9	180		14 W	12:26 AM	0.7	21		14 Sa	02:36 AM	0.2	6	
	10:53 AM	0.8	24			07:02 AM	4.8	146			09:24 AM	5.3	162	
	05:40 PM	7.0	213			12:03 PM	2.2	67			02:33 PM	2.7	82	
	11:53 PM	1.7	52			06:37 PM	7.2	219			08:48 PM	6.7	204	
15 M	06:00 AM	5.3	162		15 Th	01:41 AM	0.6	18		15 Su	03:44 AM	-0.1	-3	
	11:37 AM	1.4	43			08:24 AM	4.7	143			10:24 AM	5.9	180	
	06:24 PM	7.2	219			01:14 PM	2.6	79			03:48 PM	2.1	64	
						07:45 PM	7.2	219			10:02 PM	6.9	210	
31 W	02:35 AM	0.8	24		31 Sa	03:57 AM	0.6	18		30 M	03:58 AM	0.9	27	
	09:01 AM	4.7	143			10:32 AM	5.2	158			10:36 AM	5.9	180	
	02:04 PM	2.8	85			03:43 PM	2.8	85			04:14 PM	2.3	70	
	08:35 PM	6.7	204			09:54 PM	6.2	189			10:20 PM	6.0	183	

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 (Tongue Point), Oreg. (9439040) Height offset in feet (low:+0.10 high: -1.00) Time offset in mins (low:-60 high: -44)



StationId:9440574
Source:NOAA/NOS/CO-OPS
Station Type:Subordinate
Time Zone:LST/LDT
Datum:mean lower low water (MLLW) which is the chart datum of soundings

NOAA Tide Predictions

Columbia River entrance (N. Jetty),Washington,2013

Times and Heights of High and Low Waters

October					November					December													
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 Tu	04:43 AM	0.8	24	16 W	05:01 AM	0.5	15	1 F	05:14 AM	1.8	55	16 Sa	04:58 AM	2.2	67	1 Su	04:19 AM	2.8	85	16 M	12:09 AM	6.7	204
	11:15 AM	6.4	195		11:29 AM	7.2	235		11:36 AM	7.9	241		11:13 AM	8.5	259		10:35 AM	8.8	268		05:17 AM	3.3	101
	05:03 PM	1.6	49		05:37 PM	0.7	6		06:03 PM	0.1	3		05:53 PM	-0.6	-18		05:26 PM	-0.6	-18		11:23 AM	8.4	256
	11:12 PM	6.3	192		11:54 PM	6.9	210								06:17 PM		-0.3	-9					
2 W	05:22 AM	0.7	21	17 Th	05:45 AM	0.7	21	2 Sa	12:28 AM	6.6	201	17 Su	12:21 AM	6.8	207	2 M	12:03 AM	6.8	207	17 Tu	12:52 AM	6.9	210
	11:50 AM	6.8	207		12:09 PM	8.0	244		05:55 AM	1.9	58		05:39 AM	2.5	76		05:08 AM	2.9	88		06:00 AM	3.4	104
	05:47 PM	1.0	30		06:24 PM	-0.3	-9		12:11 PM	8.2	250		11:49 AM	8.4	256		11:19 AM	9.1	277		12:00 PM	8.3	253
	11:59 PM	6.5	198			06:46 PM	-0.5		-15	06:33 PM	-0.6		-18	06:12 PM	-1.0		-30	06:53 PM	-0.3		-9		
3 Th	05:59 AM	0.7	21	18 F	12:45 AM	7.0	213	3 Su	01:16 AM	6.7	204	18 M	01:06 AM	6.8	207	3 Tu	12:53 AM	7.0	213	18 W	01:31 AM	6.9	210
	12:22 PM	7.1	216		06:27 AM	1.0	30		06:19 AM	2.8	85		05:58 AM	2.9	88		06:40 AM	3.4	104				
	06:28 PM	0.5	15		12:46 PM	8.2	250		12:22 PM	8.2	250		12:04 PM	9.2	280		12:35 PM	8.1	247				
					07:09 PM	-0.7	-21		06:28 PM	-0.9	-27		07:11 PM	-0.5	-15		06:58 PM	-1.2	-37		07:27 PM	-0.1	-3
4 F	12:44 AM	6.7	204	19 Sa	01:32 AM	6.9	210	4 M	01:03 AM	6.8	207	19 Tu	01:48 AM	6.7	204	4 W	01:42 AM	7.2	219	19 Th	02:09 AM	7.0	213
	06:34 AM	0.8	24		07:06 AM	1.3	40		06:18 AM	2.2	67		06:59 AM	3.0	91		06:49 AM	2.9	88		07:20 AM	3.5	107
	12:53 PM	7.5	229		01:21 PM	8.1	247		12:26 PM	8.7	265		12:56 PM	8.0	244		12:52 PM	9.2	280		01:10 PM	8.0	244
	07:08 PM	0.0	0		07:50 PM	-0.8	-24		07:11 PM	-1.1	-34		07:47 PM	-0.3	-9		07:45 PM	-1.2	-37		07:59 PM	0.1	3
5 Sa	01:28 AM	6.7	204	20 Su	02:17 AM	6.8	207	5 Tu	01:52 AM	6.8	207	20 W	02:29 AM	6.6	201	5 Th	02:30 AM	7.3	223	20 F	02:44 AM	7.0	213
	07:09 AM	1.0	30		07:45 AM	1.7	52		07:02 AM	2.4	73		07:37 AM	3.2	98		07:41 AM	2.9	88		07:58 AM	3.5	107
	01:24 PM	7.7	235		01:54 PM	8.0	244		01:07 PM	8.7	265		01:29 PM	7.8	238		01:42 PM	8.9	271		01:46 PM	7.7	235
	07:47 PM	-0.4	-12		08:30 PM	-0.7	-21		07:56 PM	-1.1	-34		08:22 PM	0.0	0		08:32 PM	-1.0	-30		08:30 PM	0.4	12
6 Su	02:13 AM	6.7	204	21 M	03:01 AM	6.6	201	6 W	02:41 AM	6.7	204	21 Th	03:09 AM	6.5	198	6 F	03:19 AM	7.4	226	21 Sa	03:18 AM	7.0	213
	07:44 AM	1.3	40		08:22 AM	2.1	64		07:49 AM	2.6	79		08:17 AM	3.4	104		08:37 AM	2.9	88		08:38 AM	3.4	104
	01:57 PM	8.0	244		02:26 PM	7.8	238		01:51 PM	8.5	259		02:04 PM	7.5	229		02:35 PM	8.4	256		02:24 PM	7.4	226
	08:27 PM	-0.7	-21		09:09 PM	-0.5	-15		08:44 PM	-0.9	-27		08:57 PM	0.3	9		09:19 PM	-0.5	-15		09:00 PM	0.7	21
7 M	02:58 AM	6.5	198	22 Tu	03:45 AM	6.3	192	7 Th	03:33 AM	6.6	201	22 F	03:50 AM	6.4	195	7 Sa	04:09 AM	7.5	229	22 Su	03:52 AM	7.0	213
	08:21 AM	1.6	49		09:00 AM	2.5	76		08:42 AM	2.8	85		08:59 AM	3.6	110		09:36 AM	2.8	85		09:20 AM	3.4	104
	02:32 PM	8.1	247		02:59 PM	7.5	229		02:41 PM	8.1	247		02:43 PM	7.1	216		03:33 PM	7.8	238		03:06 PM	7.0	213
	09:09 PM	-0.7	-21		09:47 PM	-0.1	-3		09:35 PM	-0.5	-15		09:32 PM	0.7	21		10:09 PM	0.1	3		09:31 PM	1.0	30
8 Tu	03:47 AM	6.3	192	23 W	04:30 AM	6.0	183	8 F	04:29 AM	6.6	201	23 Sa	04:32 AM	6.3	192	8 Su	05:01 AM	7.6	232	23 M	04:27 AM	7.1	216
	09:02 AM	1.9	58		09:39 AM	2.9	88		09:41 AM	3.0	91		09:47 AM	3.7	113		10:41 AM	2.7	82		10:08 AM	3.3	101
	03:10 PM	8.0	244		03:33 PM	7.1	216		03:38 PM	7.6	232		03:27 PM	6.7	204		04:39 PM	7.0	213		03:54 PM	6.5	198
	09:55 PM	-0.6	-18		10:27 PM	0.3	9		10:31 PM	0.0	0		10:11 PM	1.1	34		11:02 PM	0.8	24		10:06 PM	1.5	46
9 W	04:39 AM	6.0	183	24 Th	05:17 AM	5.8	177	9 Sa	05:29 AM	6.6	201	24 Su	05:17 AM	6.4	195	9 M	05:55 AM	7.7	235	24 Tu	05:06 AM	7.2	219
	09:48 AM	2.3	70		10:23 AM	3.2	98		10:51 AM	3.0	91		10:43 AM	3.7	113		11:51 AM	2.5	76		11:03 AM	3.1	94
	03:55 PM	7.8	238		04:12 PM	6.7	204		04:47 PM	6.9	210		04:22 PM	6.2	189		05:53 PM	6.4	195		04:54 PM	6.0	183
	10:47 PM	-0.4	-12		11:10 PM	0.7	21		11:32 PM	0.5	15		10:56 PM	1.5	46		11:58 PM	1.4	43		10:48 PM	2.0	61
10 Th	05:39 AM	5.7	174	25 F	06:10 AM	5.6	171	10 Su	06:30 AM	6.8	207	25 M	06:05 AM	6.5	198	10 Tu	06:50 AM	7.9	241	25 W	05:49 AM	7.4	226
	10:43 AM	2.7	82		11:15 AM	3.5	107		12:07 PM	2.8	85		11:48 AM	3.5	107		01:04 PM	2.1	64		12:08 PM	2.8	85
	04:48 PM	7.3	223		05:00 PM	6.2	189		06:08 PM	6.3	192		05:32 PM	5.7	174		07:12 PM	6.0	183		06:10 PM	5.5	168
	11:48 PM	0.0	0								11:48 PM		1.9	58							11:40 PM	2.5	76
11 F	06:46 AM	5.6	171	26 Sa	12:01 AM	1.1	34	11 M	12:36 AM	0.9	27	26 Tu	06:55 AM	6.7	204	11 W	12:57 AM	2.0	61	26 Th	06:37 AM	7.6	232
	11:51 AM	2.9	88		07:06 AM	5.5	168		07:29 AM	7.1	216		12:57 PM	3.1	94		07:44 AM	8.1	247		01:17 PM	2.3	70
	05:55 PM	6.8	207		12:19 PM	3.6	110		01:23 PM	2.3	70		06:53 PM	5.5	168		02:13 PM	1.5	46		07:33 PM	5.4	165
					06:02 PM	5.8	177		07:31 PM	6.1	186						08:28 PM	5.9	180				
12 Sa	12:58 AM	0.3	9	27 Su	12:59 AM	1.4	43	12 Tu	01:38 AM	1.3	40	27 W	12:45 AM	2.2	67	12 Th	01:56 AM	2.5	76	27 F	12:40 AM	3.0	91
	07:56 AM	5.7	174		08:04 AM	5.7	174		08:24 AM	7.6	232		07:42 AM	7.1	216		08:35 AM	8.3	253		07:29 AM	7.9	241
	01:12 PM	2.9	88		01:31 PM	3.4	104		02:33 PM	1.5	46		02:02 PM	2.4	73		03:14 PM	0.8	24		02:23 PM	1.6	49
	07:17 PM	6.4	195		07:21 PM	5.5	168		08:45 PM	6.2	189		08:10 PM	5.5	168		09:35 PM	6.1	186		08:50 PM	5.5	168
13 Su	02:09 AM	0.5	15	28 M	02:00 AM	1.6	49	13 W	02:35 AM	1.5	46	28 Th	01:42 AM	2.5	76	13 F	02:52 AM	2.8	85	28 Sa	01:46 AM	3.3	101
	09:01 AM	6.1	186		08:57 AM	6.0	183		09:12 AM	8.0	244		08:27 AM	7.5	229		09:22 AM	8.4	256		08:22 AM	8.3	253
	02:33 PM	2.5	76		02:41 PM	3.0	91		03:32 PM	0.8	24		03:00 PM	1.6	49		04:07 PM	0.3	9		03:23 PM	0.8	24
	08:42 PM	6.3	192		08:40 PM	5.5	168		09:49 PM	6.4	195		09:18 PM	5.8	177		10:32 PM	6.3	192		09:56 PM	5.9	180
14 M	03:15 AM	0.5	15	29 Tu	02:56 AM	1.7	52	14 Th	03:27 AM	1.7	52	29 F	02:37 AM	2.6	79	14 Sa	03:44 AM	3.0	91	29 Su	02:50 AM	3.4	104
	09:57 AM	6.7	204		09:43 AM	6.5	198		09:56 AM	8.3	253		09:10 AM	8.0	244		10:05 AM	8.5	259		09:15 AM	8.7	265
	03:44 PM	1.8	55		03:42 PM	2.3	70		04:24 PM	0.1	3		03:52 PM	0.8	24		04:55 PM	-0.1	-3		04:18 PM	0.1	3
	09:56 PM	6.5	198		09:48 PM	5.7	174		10:45 PM	6.6	201		10:17 PM	6.1	186		11:23 PM	6.6	201		10:55 PM	6.3	192
15 Tu	04:11 AM	0.5	15	30 W	03:46 AM	1.7	52	15 F	04:14 AM	2.0	61	30 Sa	03:29 AM	2.8	85	15 Su	04:32 AM	3.2	98	30 M	03:51 AM	3.4	104
	10:46 AM	7.3	223		10:24 AM	6.9	210		10:36 AM	8.5	259		09:52 AM	8.5	259		10:45 AM	8.5	259		10:08 AM	9.0	274
	04:44 PM	0.9	27		04:34 PM	1.5	46		05:10 PM	-0.4	-12		04:40 PM	0.0	0		05:37 PM	-0.3	-9		05:09 PM	-0.5	-15
	10:59 PM	6.7	204		10:46 PM	6.0	183		11:35 PM	6.7	204		11:11 PM	6.5	198						11:48 PM	6.8	207
16 W				31 Th	04:32 AM	1.7	52									31 Tu	04:49 AM	3.3	101				
					11:01 AM	7.4	226										11:00 AM	9.3	283				
					05:20 PM	0.8	24										05:58 PM	-1.0	-30				
					11:38 PM	6.3	192																