APPENDIX A. RAIN GAUGE AND TIDE DATA

Seattle Public Utilities (2019)

Time and Date	RG16 11.01 Rainfall (in.) Total	Qual	Time and Date	RG16 11.01 Rainfall (in.) Total	Qual	Time and Date	RG16 11.01 Rainfall (in.) Total	Qual
8/1/2017 0:00	0	7	9/13/2017 0:00	0	7	10/26/2017 0:00	0	124
8/2/2017 0:00	0	7	9/14/2017 0:00	0	7	10/27/2017 0:00	0	124
8/3/2017 0:00	0	7	9/15/2017 0:00	0	7	10/28/2017 0:00	0	124
8/4/2017 0:00	0	7	9/16/2017 0:00	0	7	10/29/2017 0:00	0.01	124
8/5/2017 0:00	0	7	9/17/2017 0:00	0.06	7	10/30/2017 0:00	0	124
8/6/2017 0:00	0	7	9/18/2017 0:00	0.28	124	10/31/2017 0:00	0	124
8/7/2017 0:00	0	7	9/19/2017 0:00	0.45	124	11/1/2017 0:00	0	7
8/8/2017 0:00	0	7	9/20/2017 0:00	0.02	124	11/2/2017 0:00	0.32	7
8/9/2017 0:00	0	7	9/21/2017 0:00	0.01	124	11/3/2017 0:00	0.43	7
8/10/2017 0:00	0	7	9/22/2017 0:00	0	124	11/4/2017 0:00	0.34	7
8/11/2017 0:00	0	7	9/23/2017 0:00	0	124	11/5/2017 0:00	0.55	7
8/12/2017 0:00	0.01	7	9/24/2017 0:00	0	124	11/6/2017 0:00	0	7
8/13/2017 0:00	0	7	9/25/2017 0:00	0.01	124	11/7/2017 0:00	0	7
8/14/2017 0:00	0	7	9/26/2017 0:00	0	124	11/8/2017 0:00	0.13	7
8/15/2017 0:00	0	7	9/27/2017 0:00	0	124	11/9/2017 0:00	0.26	7
8/16/2017 0:00	0	7	9/28/2017 0:00	0	124	11/10/2017 0:00	0	7
8/17/2017 0:00	0	7	9/29/2017 0:00	0.03	124	11/11/2017 0:00	0.14	7
8/18/2017 0:00	0	7	9/30/2017 0:00	0.06	124	11/12/2017 0:00	0.55	130
8/19/2017 0:00	0	7	10/1/2017 0:00	0	124	11/13/2017 0:00	0.65	7
8/20/2017 0:00	0	7	10/2/2017 0:00	0	124	11/14/2017 0:00	0.06	7
8/21/2017 0:00	0	7	10/3/2017 0:00	0	124	11/15/2017 0:00	0.66	7
8/22/2017 0:00	0	7	10/4/2017 0:00	0	124	11/16/2017 0:00	0.08	7
8/23/2017 0:00	0	7	10/5/2017 0:00	0	124	11/17/2017 0:00	0	7
8/24/2017 0:00	0	7	10/6/2017 0:00	0	124	11/18/2017 0:00	0	7
8/25/2017 0:00	0	7	10/7/2017 0:00	0	124	11/19/2017 0:00	0.41	7
8/26/2017 0:00	0	7	10/8/2017 0:00	0	124	11/20/2017 0:00	0.48	7
8/27/2017 0:00	0	7	10/9/2017 0:00	0	124	11/21/2017 0:00	1.2	124
8/28/2017 0:00	0	7	10/10/2017 0:00	0.01	124	11/22/2017 0:00	0.57	124
8/29/2017 0:00	0	7	10/11/2017 0:00	0.04	124	11/23/2017 0:00	0.1	7
8/30/2017 0:00	0	7	10/12/2017 0:00	0.17	124	11/24/2017 0:00	0.01	7
8/31/2017 0:00	0.02	7	10/13/2017 0:00	0.01	124	11/25/2017 0:00	0.21	7
9/1/2017 0:00	0	7	10/14/2017 0:00	0	124	11/26/2017 0:00	0.2	7
9/2/2017 0:00	0	7	10/15/2017 0:00	0	124	11/27/2017 0:00	0	7
9/3/2017 0:00	0	7	10/16/2017 0:00	0	124	11/28/2017 0:00	0.57	7
9/4/2017 0:00	0	7	10/17/2017 0:00	0.03	124	11/29/2017 0:00	0.02	7
9/5/2017 0:00	0	7	10/18/2017 0:00	1.02	124	11/30/2017 0:00	0.28	7
9/6/2017 0:00	0	7	10/19/2017 0:00	0.62	124	12/1/2017 0:00	0.23	7
9/7/2017 0:00	0	7	10/20/2017 0:00	0.07	124	12/2/2017 0:00	0.65	7
9/8/2017 0:00	0	7	10/21/2017 0:00	1.02	124	12/3/2017 0:00	0.04	7
9/9/2017 0:00	0	7	10/22/2017 0:00	0.01	124	12/4/2017 0:00	0	7
9/10/2017 0:00	0	7	10/23/2017 0:00	0	124	12/5/2017 0:00	0	7
9/11/2017 0:00	0	7	10/24/2017 0:00	0	124	12/6/2017 0:00	0	7
9/12/2017 0:00	0	7	10/25/2017 0:00	0.01	124	12/7/2017 0:00	0	7

Time and Date	RG16 11.01 Rainfall (in.) Total	Qual	Time and Date	RG16 11.01 Rainfall (in.) Total	Qual	Time and Date	RG16 11.01 Rainfall (in.) Total	Qual
12/8/2017 0:00	0	7	1/20/2018 0:00	0.05	7	3/4/2018 0:00	0.06	7
12/9/2017 0:00	0	7	1/21/2018 0:00	0.19	7	3/5/2018 0:00	0	7
12/10/2017 0:00	0	7	1/22/2018 0:00	0.15	7	3/6/2018 0:00	0	7
12/11/2017 0:00	0	7	1/23/2018 0:00	0.84	7	3/7/2018 0:00	0.05	7
12/12/2017 0:00	0	7	1/24/2018 0:00	0.42	7	3/8/2018 0:00	0.47	85
12/13/2017 0:00	0	7	1/25/2018 0:00	0.14	7	3/9/2018 0:00	0	7
12/14/2017 0:00	0	7	1/26/2018 0:00	0.23	7	3/10/2018 0:00	0	7
12/15/2017 0:00	0.02	7	1/27/2018 0:00	0.56	7	3/11/2018 0:00	0	7
12/16/2017 0:00	0.11	7	1/28/2018 0:00	0.04	7	3/12/2018 0:00	0	7
12/17/2017 0:00	0.02	7	1/29/2018 0:00	0.94	7	3/13/2018 0:00	0.16	7
12/18/2017 0:00	0.69	7	1/30/2018 0:00	0	7	3/14/2018 0:00	0.01	7
12/19/2017 0:00	1.22	7	1/31/2018 0:00	0	7	3/15/2018 0:00	0	7
12/20/2017 0:00	0.08	7	2/1/2018 0:00	0.64	7	3/16/2018 0:00	0	7
12/21/2017 0:00	0.04	7	2/2/2018 0:00	0.03	7	3/17/2018 0:00	0	7
12/22/2017 0:00	0.08	7	2/3/2018 0:00	0.11	7	3/18/2018 0:00	0	7
12/23/2017 0:00	0	7	2/4/2018 0:00	0.01	7	3/19/2018 0:00	0	7
12/24/2017 0:00	0	124	2/5/2018 0:00	0	7	3/20/2018 0:00	0	7
12/25/2017 0:00	0.17	124	2/6/2018 0:00	0	7	3/21/2018 0:00	0.13	7
12/26/2017 0:00	0.06	124	2/7/2018 0:00	0	7	3/22/2018 0:00	0.38	7
12/27/2017 0:00	0	7	2/8/2018 0:00	0.06	7	3/23/2018 0:00	0.38	7
12/28/2017 0:00	0.11	7	2/9/2018 0:00	0.04	7	3/24/2018 0:00	0.16	7
12/29/2017 0:00	1.4	7	2/10/2018 0:00	0	7	3/25/2018 0:00	0	7
12/30/2017 0:00	0.07	7	2/11/2018 0:00	0	7	3/26/2018 0:00	0.07	7
12/31/2017 0:00	0	7	2/12/2018 0:00	0	7	3/27/2018 0:00	0.01	7
1/1/2018 0:00	0	7	2/13/2018 0:00	0.18	7	3/28/2018 0:00	0	7
1/2/2018 0:00	0	7	2/14/2018 0:00	0.09	7	3/29/2018 0:00	0	7
1/3/2018 0:00	0	7	2/15/2018 0:00	0.01	7	3/30/2018 0:00	0	7
1/4/2018 0:00	0.12	7	2/16/2018 0:00	0.08	7	3/31/2018 0:00	0	7
1/5/2018 0:00	0.41	7	2/17/2018 0:00	0.29	7	4/1/2018 0:00	0.04	124
1/6/2018 0:00	0.28	7	2/18/2018 0:00	0.02	7	4/2/2018 0:00	0	7
1/7/2018 0:00	0.42	7	2/19/2018 0:00	0	7	4/3/2018 0:00	0	7
1/8/2018 0:00	0.12	7	2/20/2018 0:00	0	7	4/4/2018 0:00	0.27	7
1/9/2018 0:00	0.28	7	2/21/2018 0:00	0	7	4/5/2018 0:00	0.19	7
1/10/2018 0:00	0.11	7	2/22/2018 0:00	0.05	7	4/6/2018 0:00	0.01	7
1/11/2018 0:00	0.91	7	2/23/2018 0:00	0	7	4/7/2018 0:00	0.74	130
1/12/2018 0:00	0.1	7	2/24/2018 0:00	0.02	7	4/8/2018 0:00	0.3	124
1/13/2018 0:00	0	7	2/25/2018 0:00	0.08	124	4/9/2018 0:00	0	7
1/14/2018 0:00	0	7	2/26/2018 0:00	0	7	4/10/2018 0:00	0.2	7
1/15/2018 0:00	0.07	7	2/27/2018 0:00	0.49	124	4/11/2018 0:00	0.27	7
1/16/2018 0:00	0.18	7	2/28/2018 0:00	0.36	7	4/12/2018 0:00	0.11	7
1/17/2018 0:00	0.39	130	3/1/2018 0:00	0.03	7	4/13/2018 0:00	0.41	7
1/18/2018 0:00	0.65	7	3/2/2018 0:00	0.19	7	4/14/2018 0:00	1.81	7
1/19/2018 0:00	0.04	7	3/3/2018 0:00	0	7	4/15/2018 0:00	0.1	7

Time and Date	RG16 11.01 Rainfall (in.) Total	Qual	Time and Date	RG16 11.01 Rainfall (in.) Total	Qual	Time and Date	RG16 11.01 Rainfall (in.) Total	Qual
4/16/2018 0:00	0.28	7	5/29/2018 0:00	0	7	7/11/2018 0:00	0	7
4/17/2018 0:00	0	7	5/30/2018 0:00	0	7	7/12/2018 0:00	0	7
4/18/2018 0:00	0	7	5/31/2018 0:00	0	7	7/13/2018 0:00	0	7
4/19/2018 0:00	0	7	6/1/2018 0:00	0	7	7/14/2018 0:00	0	7
4/20/2018 0:00	0	7	6/2/2018 0:00	0	7	7/15/2018 0:00	0	7
4/21/2018 0:00	0.08	7	6/3/2018 0:00	0.02	7	7/16/2018 0:00	0	7
4/22/2018 0:00	0	7	6/4/2018 0:00	0.01	7	7/17/2018 0:00	0	7
4/23/2018 0:00	0	7	6/5/2018 0:00	0	7	7/18/2018 0:00	0	7
4/24/2018 0:00	0	7	6/6/2018 0:00	0	7	7/19/2018 0:00	0	7
4/25/2018 0:00	0	7	6/7/2018 0:00	0	7	7/20/2018 0:00	0	7
4/26/2018 0:00	0	7	6/8/2018 0:00	0.23	7	7/21/2018 0:00	0	7
4/27/2018 0:00	0	7	6/9/2018 0:00	0.11	7	7/22/2018 0:00	0	7
4/28/2018 0:00	0.37	7	6/10/2018 0:00	0.08	7	7/23/2018 0:00	0	7
4/29/2018 0:00	0	7	6/11/2018 0:00	0	7	7/24/2018 0:00	0	7
4/30/2018 0:00	0	7	6/12/2018 0:00	0	7	7/25/2018 0:00	0	7
5/1/2018 0:00	0	7	6/13/2018 0:00	0.11	7	7/26/2018 0:00	0	7
5/2/2018 0:00	0	7	6/14/2018 0:00	0	7	7/27/2018 0:00	0	7
5/3/2018 0:00	0	7	6/15/2018 0:00	0	7	7/28/2018 0:00	0	7
5/4/2018 0:00	0	7	6/16/2018 0:00	0	7	7/29/2018 0:00	0	7
5/5/2018 0:00	0.01	7	6/17/2018 0:00	0	7	7/30/2018 0:00	0	7
5/6/2018 0:00	0	7	6/18/2018 0:00	0	7	7/31/2018 0:00	0	7
5/7/2018 0:00	0	7	6/19/2018 0:00	0	7	8/1/2018 0:00	0	7
5/8/2018 0:00	0.01	7	6/20/2018 0:00	0	7	8/2/2018 0:00	0.01	7
5/9/2018 0:00	0	7	6/21/2018 0:00	0	7	8/3/2018 0:00	0.03	7
5/10/2018 0:00	0	7	6/22/2018 0:00	0.03	7	8/4/2018 0:00	0	7
5/11/2018 0:00	0	7	6/23/2018 0:00	0.08	7	8/5/2018 0:00	0	7
5/12/2018 0:00	0	7	6/24/2018 0:00	0.12	7	8/6/2018 0:00	0	7
5/13/2018 0:00	0	7	6/25/2018 0:00	0	7	8/7/2018 0:00	0	7
5/14/2018 0:00	0	7	6/26/2018 0:00	0	7	8/8/2018 0:00	0	7
5/15/2018 0:00	0	7	6/27/2018 0:00	0	7	8/9/2018 0:00	0	7
5/16/2018 0:00	0	7	6/28/2018 0:00	0	7	8/10/2018 0:00	0	7
5/17/2018 0:00	0	7	6/29/2018 0:00	0	7	8/11/2018 0:00	0.01	7
5/18/2018 0:00	0	7	6/30/2018 0:00	0.01	7	8/12/2018 0:00	0	7
5/19/2018 0:00	0.01	7	7/1/2018 0:00	0	7	8/13/2018 0:00	0	7
5/20/2018 0:00	0	7	7/2/2018 0:00	0	7	8/14/2018 0:00	0	7
5/21/2018 0:00	0	7	7/3/2018 0:00	0	7	8/15/2018 0:00	0	7
5/22/2018 0:00	0	7	7/4/2018 0:00	0	7	8/16/2018 0:00	0	7
5/23/2018 0:00	0	7	7/5/2018 0:00	0	7	8/17/2018 0:00	0	7
5/24/2018 0:00	0	7	7/6/2018 0:00	0	7	8/18/2018 0:00	0	7
5/25/2018 0:00	0	7	7/7/2018 0:00	0	7	8/19/2018 0:00	0	7
5/26/2018 0:00	0	7	7/8/2018 0:00	0	7	8/20/2018 0:00	0	7
5/27/2018 0:00	0	7	7/9/2018 0:00	0	7	8/21/2018 0:00	0	7
5/28/2018 0:00	0	7	7/10/2018 0:00	0	7	8/22/2018 0:00	0	7

8/23/2018 0:00	0	7	10/5/2018 0:00	0.36	7	11/17/2018 0:00	0	7
8/24/2018 0:00	0	7	10/6/2018 0:00	0	7	11/18/2018 0:00	0	7
8/25/2018 0:00	0	7	10/7/2018 0:00	0.04	7	11/19/2018 0:00	0	7
8/26/2018 0:00	0.04	7	10/8/2018 0:00	0.22	7	11/20/2018 0:00	0	7
8/27/2018 0:00	0	7	10/9/2018 0:00	0.09	7	11/21/2018 0:00	0.13	7
8/28/2018 0:00	0	7	10/10/2018 0:00	0	7	11/22/2018 0:00	0.52	7
8/29/2018 0:00	0	7	10/11/2018 0:00	0	7	11/23/2018 0:00	0.56	7
8/30/2018 0:00	0	7	10/12/2018 0:00	0	7	11/24/2018 0:00	0	7
8/31/2018 0:00	0	7	10/13/2018 0:00	0	7	11/25/2018 0:00	0.01	7
9/1/2018 0:00	0	7	10/14/2018 0:00	0	7	11/26/2018 0:00	1.4	7
9/2/2018 0:00	0	7	10/15/2018 0:00	0	7	11/27/2018 0:00	0.7	7
9/3/2018 0:00	0	7	10/16/2018 0:00	0	7	11/28/2018 0:00	0.25	7
9/4/2018 0:00	0	7	10/17/2018 0:00	0	7	11/29/2018 0:00	0.01	7
9/5/2018 0:00	0	7	10/18/2018 0:00	0	7	11/30/2018 0:00	0.2	7
9/6/2018 0:00	0	7	10/19/2018 0:00	0	7	12/1/2018 0:00	0.04	7
9/7/2018 0:00	0.06	7	10/20/2018 0:00	0	7	12/2/2018 0:00	0.05	7
9/8/2018 0:00	0.01	7	10/21/2018 0:00	0	7	12/3/2018 0:00	0	7
9/9/2018 0:00	0.19	7	10/22/2018 0:00	0	7	12/4/2018 0:00	0	7
9/10/2018 0:00	0.01	7	10/23/2018 0:00	0.02	7	12/5/2018 0:00	0	7
9/11/2018 0:00	0.03	7	10/24/2018 0:00	0	7	12/6/2018 0:00	0	7
9/12/2018 0:00	0	7	10/25/2018 0:00	0.5	7	12/7/2018 0:00	0	7
9/13/2018 0:00	0.18	7	10/26/2018 0:00	0.34	7	12/8/2018 0:00	0.01	7
9/14/2018 0:00	0.18	7	10/27/2018 0:00	0.89	7	12/9/2018 0:00	0.55	7
9/15/2018 0:00	0.09	7	10/28/2018 0:00	0.4	7	12/10/2018 0:00	0.09	7
9/16/2018 0:00	0.23	7	10/29/2018 0:00	0	7	12/11/2018 0:00	0.57	7
9/17/2018 0:00	0	7	10/30/2018 0:00	0.04	7	12/12/2018 0:00	0.09	7
9/18/2018 0:00	0	7	10/31/2018 0:00	0.01	7	12/13/2018 0:00	0.24	7
9/19/2018 0:00	0.01	7	11/1/2018 0:00	0.05	7	12/14/2018 0:00	0	7
9/20/2018 0:00	0.22	7	11/2/2018 0:00	0.22	7	12/15/2018 0:00	0.09	7
9/21/2018 0:00	0.06	7	11/3/2018 0:00	0.16	7	12/16/2018 0:00	0.5	7
9/22/2018 0:00	0.05	7	11/4/2018 0:00	0.15	7	12/17/2018 0:00	0.61	7
9/23/2018 0:00	0	7	11/5/2018 0:00	0.01	7	12/18/2018 0:00	0.6	7
9/24/2018 0:00	0	7	11/6/2018 0:00	0.08	7	12/19/2018 0:00	0.01	7
9/25/2018 0:00	0	7	11/7/2018 0:00	0.04	7	12/20/2018 0:00	0.23	7
9/26/2018 0:00	0	7	11/8/2018 0:00	0	7	12/21/2018 0:00	0.01	7
9/27/2018 0:00	0	7	11/9/2018 0:00	0.08	7	12/22/2018 0:00	0.34	7
9/28/2018 0:00	0	7	11/10/2018 0:00	0	7	12/23/2018 0:00	0.74	7
9/29/2018 0:00	0.1	7	11/11/2018 0:00	0	7	12/24/2018 0:00	0.01	7
9/30/2018 0:00	0.02	7	11/12/2018 0:00	0	7	12/25/2018 0:00	0	7
10/1/2018 0:00	0.31	7	11/13/2018 0:00	0	7	12/26/2018 0:00	0.11	7
10/2/2018 0:00	0	7	11/14/2018 0:00	0.04	7	12/27/2018 0:00	0.05	7
10/3/2018 0:00	0	7	11/15/2018 0:00	0.02	7	12/28/2018 0:00	0.43	7
10/4/2018 0:00	0	7	11/16/2018 0:00	0	7	12/29/2018 0:00	0.61	7

12/30/2018 0:00	0	7	2/11/2019 0:00	1.24	7	3/26/2019 0:00	0.04	7
12/31/2018 0:00	0	7	2/12/2019 0:00	1.15	7	3/27/2019 0:00	0	7
1/1/2019 0:00	0	7	2/13/2019 0:00	0	7	3/28/2019 0:00	0	7
1/2/2019 0:00	0.01	7	2/14/2019 0:00	0.14	7	3/29/2019 0:00	0	7
1/3/2019 0:00	0.73	7	2/15/2019 0:00	0.01	7	3/30/2019 0:00	0	7
1/4/2019 0:00	0.13	7	2/16/2019 0:00	0.27	7	3/31/2019 0:00	0	7
1/5/2019 0:00	0.07	7	2/17/2019 0:00	0	7	4/1/2019 0:00	0	7
1/6/2019 0:00	0.4	7	2/18/2019 0:00	0.07	7	4/2/2019 0:00	0	7
1/7/2019 0:00	0	7	2/19/2019 0:00	0.02	7	4/3/2019 0:00	0.01	7
1/8/2019 0:00	0.2	7	2/20/2019 0:00	0.24	7	4/4/2019 0:00	0.06	7
1/9/2019 0:00	0.26	7	2/21/2019 0:00	0	7	4/5/2019 0:00	0.42	7
1/10/2019 0:00	0.12	7	2/22/2019 0:00	0.13	7	4/6/2019 0:00	0.25	7
1/11/2019 0:00	0	7	2/23/2019 0:00	0.11	7	4/7/2019 0:00	0.23	7
1/12/2019 0:00	0	7	2/24/2019 0:00	0.01	7	4/8/2019 0:00	0.08	7
1/13/2019 0:00	0	7	2/25/2019 0:00	0	7	4/9/2019 0:00	0.18	7
1/14/2019 0:00	0	7	2/26/2019 0:00	0	7	4/10/2019 0:00	0.13	7
1/15/2019 0:00	0	7	2/27/2019 0:00	0	7	4/11/2019 0:00	0.59	130
1/16/2019 0:00	0	7	2/28/2019 0:00	0	7	4/12/2019 0:00	0.16	7
1/17/2019 0:00	0.11	7	3/1/2019 0:00	0	7	4/13/2019 0:00	0.05	7
1/18/2019 0:00	0.34	7	3/2/2019 0:00	0	7	4/14/2019 0:00	0.01	7
1/19/2019 0:00	0.09	7	3/3/2019 0:00	0	7	4/15/2019 0:00	0	7
1/20/2019 0:00	0	7	3/4/2019 0:00	0	7	4/16/2019 0:00	0.13	7
1/21/2019 0:00	0	7	3/5/2019 0:00	0	7	4/17/2019 0:00	0	7
1/22/2019 0:00	0.57	7	3/6/2019 0:00	0.11	7	4/18/2019 0:00	0.09	7
1/23/2019 0:00	0.16	7	3/7/2019 0:00	0.17	7	4/19/2019 0:00	0.19	7
1/24/2019 0:00	0.09	7	3/8/2019 0:00	0.09	7	4/20/2019 0:00	0.01	7
1/25/2019 0:00	0	7	3/9/2019 0:00	0	7	4/21/2019 0:00	0	7
1/26/2019 0:00	0	7	3/10/2019 0:00	0	7	4/22/2019 0:00	0.12	7
1/27/2019 0:00	0	7	3/11/2019 0:00	0.31	7	4/23/2019 0:00	0	7
1/28/2019 0:00	0	7	3/12/2019 0:00	0.47	7	4/24/2019 0:00	0	7
1/29/2019 0:00	0	7	3/13/2019 0:00	0	7	4/25/2019 0:00	0	7
1/30/2019 0:00	0	7	3/14/2019 0:00	0	7	4/26/2019 0:00	0	7
1/31/2019 0:00	0	7	3/15/2019 0:00	0	7	4/27/2019 0:00	0	7
2/1/2019 0:00	0.51	7	3/16/2019 0:00	0	7	4/28/2019 0:00	0	7
2/2/2019 0:00	0.02	7	3/17/2019 0:00	0	7	4/29/2019 0:00	0	7
2/3/2019 0:00	0.07	7	3/18/2019 0:00	0	7	4/30/2019 0:00	0	7
2/4/2019 0:00	0	7	3/19/2019 0:00	0	7	5/1/2019 0:00	0	7
2/5/2019 0:00	0.08	7	3/20/2019 0:00	0	7	5/2/2019 0:00	0	7
2/6/2019 0:00	0	7	3/21/2019 0:00	0	7	5/3/2019 0:00	0	7
2/7/2019 0:00	0	7	3/22/2019 0:00	0.01	7	5/4/2019 0:00	0	7
2/8/2019 0:00	0.18	7	3/23/2019 0:00	0	7	5/5/2019 0:00	0	7
2/9/2019 0:00	0.12	7	3/24/2019 0:00	0	7	5/6/2019 0:00	0	7
2/10/2019 0:00	0.14	7	3/25/2019 0:00	0.17	7	5/7/2019 0:00	0	7

Time and Date	RG16 11.01 Rainfall (in.) Total	Qual	Time and Date	RG16 11.01 Rainfall (in.) Total	Qual
5/8/2019 0:00	0	7	6/20/2019 0:00	0.17	7
5/9/2019 0:00	0	7	6/21/2019 0:00	0	7
5/10/2019 0:00	0	7	6/22/2019 0:00	0	7
5/11/2019 0:00	0	7	6/23/2019 0:00	0.01	7
5/12/2019 0:00	0	7	6/24/2019 0:00	0.01	7
5/13/2019 0:00	0	7	6/25/2019 0:00	0	7
5/14/2019 0:00	0.13	7	6/26/2019 0:00	0.01	7
5/15/2019 0:00	0.02	7	6/27/2019 0:00	0.05	7
5/16/2019 0:00	0.14	7	6/28/2019 0:00	0	7
5/17/2019 0:00	0.15	7	6/29/2019 0:00	0	7
5/18/2019 0:00	0	7	6/30/2019 0:00	0	7
5/19/2019 0:00	0	7	7/1/2019 0:00	0	7
5/20/2019 0:00	0.06	7	7/2/2019 0:00	0.26	7
5/21/2019 0:00	0	7	7/3/2019 0:00	0.01	7
5/22/2019 0:00	0	7	7/4/2019 0:00	0	7
5/23/2019 0:00	0	7	7/5/2019 0:00	0	7
5/24/2019 0:00	0	7	7/6/2019 0:00	0	7
5/25/2019 0:00	0.26	7	7/7/2019 0:00	0.01	7
5/26/2019 0:00	0	7	7/8/2019 0:00	0.01	7
5/27/2019 0:00	0	7	7/9/2019 0:00	0.13	7
5/28/2019 0:00	0	7	7/10/2019 0:00	0.14	7
5/29/2019 0:00	0	7	7/11/2019 0:00	0	7
5/30/2019 0:00	0	7	7/12/2019 0:00	0	7
5/31/2019 0:00	0	7	7/13/2019 0:00	0	7
6/1/2019 0:00	0	7	7/14/2019 0:00	0	7
6/2/2019 0:00	0	7	7/15/2019 0:00	0.03	7
6/3/2019 0:00	0	7	7/16/2019 0:00	0	7
6/4/2019 0:00	0	7	7/17/2019 0:00	0.05	7
6/5/2019 0:00	0	7	7/18/2019 0:00	0.11	7
6/6/2019 0:00	0	7	7/19/2019 0:00	0	7
6/7/2019 0:00	0.11	7	7/20/2019 0:00	0	7
6/8/2019 0:00	0	7	7/21/2019 0:00	0	7
6/9/2019 0:00	0	7	7/22/2019 0:00	0	7
6/10/2019 0:00	0	7	7/23/2019 0:00	0	7
6/11/2019 0:00	0	7	7/24/2019 0:00	0	7
6/12/2019 0:00	0	7	7/25/2019 0:00	0	7
6/13/2019 0:00	0	7	7/26/2019 0:00	0	7
6/14/2019 0:00	0	7	7/27/2019 0:00	0	7
6/15/2019 0:00	0	7	7/28/2019 0:00	0	7
6/16/2019 0:00	0	7	7/29/2019 0:00	0	7
6/17/2019 0:00	0	7	7/30/2019 0:00	0	7
6/18/2019 0:00	0.02	7	7/31/2019 0:00	0	7
6/19/2019 0:00	0.17	7			

Drainage and Wastewater Line of Business

System Operations Planning & Analysis (SOPA)

Flow and Rain Data Request Intake Form

Seattle Public Utilities

DATE OF REQUEST: 06 August 2019

Project Information -

Contact Name:	Thai Do	Phone:	206.812.5407
Dept./Organization:	Windward Environmental LLC	Email: if external	thaid@windwardenv.com
Project Name	Lower Duwamish Waterway Slip 4 EAA (Long Term Monitoring & Reporting)		
Charge # (if requests require over an hour of time to complete)			
SPU Project Specifier (If external)			

Allow a minimum of one week to compile your data request.

Description -

These questions help us make sure that you receive all the data available to meet your needs, however, only complete them if you are comfortable disclosing that information.

1. Will this data be use for a PDR (Public Disclosure Request)?

   No

2. Please provide a brief description of the Project.

   Visual inspections, review of data generated by others with potential to impact remedy performance,and evaluations of storm flows that occur between monitoring periods will be perfomed for the City ofSeattle, as described in the Slip 4 EAA Quality Assurance Project Plan and Long Term Monitoring and Reporting Plan, to verify that the remedy remains protective of human health and the environment.

3. Who will use the information and for what purpose (modeling, research, pre-construction, etc.)?

   We will be using the information to include in our long-term monitoring data report to show any occurrences of 100-yr storm events within the Slip 4 EAA monitoring period.

Data Retrieval (All ADS and rain data in PST all year; all data is raw unless otherwise noted)-

4. Please indicate the site(s), parameter(s), and sample rate(s) you need data.

Site(s) Name	Parameter(s) (i.e. flow, depth, rain, etc.)	Sample rate (i.e. daily, hourly, 5 min, etc.)
RG16 (Station 45-S016, Metro King County, East Marginal Way	rainfall	Daily (24-hr period

5. Please indicate the time frame of record you need (when to when).

   August 1, 2017 through July 31, 2019

6. Is this a re-occurring request (receive data monthly)? If yes, what is the end date?

   No

Comments or Special Instruction (i.e. data format, delivery instructions, etc.) -

Allison Crowley (City of Seattle) is the Project Manager that we are working with on this project. Please provide data as an Excel table or PDF document.

3pm requests: Send completed form to 3pm lead

All other requests: Send completed form to kara.peck@seattle.gov

Seattle Public Utilities

Reference:

Rain Gage Quality Codes	
1	Raw data provisional and subject to change
7	Verified good quality; final data
9	ADS verified good quality; final data
85	Bad or test data point removed
124	Reading point transposed from nearby sensor
130	Records estimated but not transposed

NOAA (2019)

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2019

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: 9447029
Source: NOAA/NOS/CO-OPS
Station Type: Subordinate
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2019

Times and Heights of High and Low Waters

January

	Time	Height (ft)	Height (cm)
1	02:30	9.0	274
	07:14	5.9	180
Tu	13:03	11.5	351
	20:17	0.1	3
2	03:41	10.0	305
	08:29	6.6	201
W	13:45	11.2	341
	20:58	-0.6	-18
3	04:36	10.8	329
	09:33	7.0	213
Th	14:25	10.9	332
	21:35	-1.1	-34
4	05:20	11.4	347
	10:27	7.2	219
F	15:04	10.6	323
	22:10	-1.3	-40
5	05:56	11.7	357
	11:13	7.2	219
Sa	15:42	10.3	314
	22:45	-1.3	-40
6	06:27	11.8	360
	11:54	7.1	216
Su	16:20	10.0	305
●	23:19	-1.2	-37
7	06:55	11.8	360
	12:31	7.0	213
M	16:59	9.7	296
	23:55	-1.0	-30
8	07:21	11.8	360
	13:08	6.7	204
Tu	17:41	9.4	287
9	00:31	-0.6	-18
	07:49	11.8	360
W	13:45	6.4	195
	18:24	9.0	274
10	01:08	0.0	0
	08:20	11.8	360
Th	14:26	5.9	180
	19:12	8.6	262
11	01:46	0.8	24
	08:54	11.7	357
F	15:11	5.4	165
	20:06	8.1	247
12	02:25	1.8	55
	09:29	11.6	354
Sa	16:00	4.7	143
	21:11	7.7	235
13	03:07	3.0	91
	10:05	11.4	347
Su	16:51	3.9	119
	22:29	7.5	229
14	03:54	4.3	131
	10:43	11.3	344
M	17:44	2.9	88
◐			
15	00:00	7.7	235
	04:54	5.6	171
Tu	11:23	11.1	338
	18:34	1.8	55

	Time	Height (ft)	Height (cm)
16	01:37	8.4	256
	06:09	6.7	204
W	12:05	11.0	335
	19:22	0.6	18
17	02:57	9.4	287
	07:28	7.4	226
Th	12:50	11.0	335
	20:09	-0.6	-18
18	03:53	10.4	317
	08:38	7.6	232
F	13:38	11.1	338
	20:55	-1.6	-49
19	04:37	11.2	341
	09:36	7.6	232
Sa	14:27	11.3	344
	21:42	-2.5	-76
20	05:18	11.9	363
	10:28	7.3	223
Su	15:18	11.4	347
	22:28	-3.0	-91
21	05:57	12.3	375
	11:17	6.9	210
M	16:11	11.4	347
○	23:15	-3.0	-91
22	06:36	12.6	384
	12:07	6.3	192
Tu	17:05	11.2	341
23	00:02	-2.6	-79
	07:15	12.7	387
W	12:58	5.6	171
	18:03	10.8	329
24	00:49	-1.8	-55
	07:54	12.7	387
Th	13:51	4.8	146
	19:04	10.1	308
25	01:36	-0.5	-15
	08:34	12.6	384
F	14:48	3.9	119
	20:11	9.4	287
26	02:25	1.1	34
	09:15	12.4	378
Sa	15:47	3.1	94
	21:28	8.7	265
27	03:17	2.9	88
	09:58	12.1	369
Su	16:50	2.3	70
◑	23:00	8.4	256
28	04:18	4.7	143
	10:44	11.6	354
M	17:52	1.5	46
29	00:51	8.6	262
	05:36	6.1	186
Tu	11:33	11.1	338
	18:51	0.9	27
30	02:30	9.5	290
	07:11	7.0	213
W	12:25	10.7	326
	19:45	0.3	9
31	03:38	10.3	314
	08:36	7.2	219
Th	13:17	10.3	314
	20:32	-0.1	-3

February

	Time	Height (ft)	Height (cm)
1	04:27	11.0	335
	09:40	7.1	216
F	14:07	10.1	308
	21:13	-0.4	-12
2	05:05	11.4	347
	10:27	6.9	210
Sa	14:54	9.9	302
	21:51	-0.6	-18
3	05:36	11.5	351
	11:05	6.7	204
Su	15:36	9.8	299
	22:27	-0.6	-18
4	06:01	11.5	351
	11:36	6.4	195
M	16:16	9.8	299
●	23:02	-0.5	-15
5	06:22	11.5	351
	12:04	6.0	183
Tu	16:55	9.7	296
	23:36	-0.3	-9
6	06:43	11.5	351
	12:33	5.6	171
W	17:35	9.6	293
7	00:10	0.1	3
	07:07	11.6	354
Th	13:05	5.1	155
	18:17	9.4	287
8	00:44	0.7	21
	07:34	11.6	354
F	13:39	4.5	137
	19:02	9.1	277
9	01:19	1.5	46
	08:03	11.5	351
Sa	14:18	3.9	119
	19:52	8.8	268
10	01:56	2.6	79
	08:34	11.4	347
Su	15:01	3.3	101
	20:50	8.5	259
11	02:35	3.8	116
	09:07	11.2	341
M	15:49	2.6	79
	21:59	8.3	253
12	03:20	5.2	158
	09:43	10.9	332
Tu	16:42	1.9	58
◐	23:24	8.4	256
13	04:19	6.4	195
	10:26	10.6	323
W	17:40	1.1	34
14	01:06	8.8	268
	05:42	7.3	223
Th	11:17	10.4	317
	18:40	0.3	9
15	02:35	9.7	296
	07:15	7.7	235
F	12:16	10.4	317
	19:37	-0.6	-18

	Time	Height (ft)	Height (cm)
16	03:31	10.5	320
	08:29	7.5	229
Sa	13:17	10.6	323
	20:32	-1.4	-43
17	04:13	11.2	341
	09:26	7.0	213
Su	14:18	10.8	329
	21:23	-2.0	-61
18	04:50	11.7	357
	10:14	6.3	192
M	15:15	11.1	338
	22:12	-2.3	-70
19	05:25	12.1	369
	11:00	5.4	165
Tu	16:12	11.3	344
○	22:59	-2.1	-64
20	05:59	12.3	375
	11:46	4.5	137
W	17:08	11.2	341
	23:45	-1.4	-43
21	06:35	12.4	378
	12:32	3.5	107
Th	18:06	10.9	332
22	00:31	-0.4	-12
	07:10	12.4	378
F	13:21	2.7	82
	19:05	10.4	317
23	01:17	1.0	30
	07:47	12.2	372
Sa	14:10	2.0	61
	20:09	9.9	302
24	02:05	2.6	79
	08:26	11.8	360
Su	15:03	1.5	46
	21:20	9.4	287
25	02:58	4.3	131
	09:07	11.3	344
M	15:58	1.2	37
	22:46	9.1	277
26	04:02	5.8	177
	09:54	10.6	323
Tu	16:58	1.1	34
◑			
27	00:32	9.2	280
	05:31	6.8	207
W	10:48	9.9	302
	18:02	1.0	30
28	02:07	9.8	299
	07:21	7.1	216
Th	11:52	9.4	287
	19:04	0.9	27

March

	Time	Height (ft)	Height (cm)
1	03:11	10.4	317
	08:41	6.8	207
F	12:59	9.1	277
	20:00	0.7	21
2	03:56	10.8	329
	09:34	6.3	192
Sa	13:59	9.1	277
	20:48	0.5	15
3	04:30	10.9	332
	10:12	5.9	180
Su	14:51	9.2	280
	21:29	0.4	12
4	04:56	11.0	335
	10:42	5.5	168
M	15:35	9.4	287
	22:06	0.4	12
5	05:16	11.0	335
	11:06	5.0	152
Tu	16:14	9.5	290
	22:41	0.5	15
6	05:34	11.0	335
	11:30	4.5	137
W	16:53	9.6	293
●	23:14	0.8	24
7	05:54	11.1	338
	11:56	3.9	119
Th	17:32	9.7	296
	23:47	1.3	40
8	06:17	11.1	338
	12:25	3.2	98
F	18:12	9.7	296
9	00:21	2.0	61
	06:43	11.1	338
Sa	12:58	2.5	76
	18:56	9.7	296
10	00:57	2.8	85
	08:11	11.0	335
Su	14:35	1.9	58
	20:44	9.6	293
11	02:34	3.8	116
	08:40	10.8	329
M	15:16	1.4	43
	21:39	9.4	287
12	03:16	4.9	149
	09:12	10.5	320
Tu	16:02	1.0	30
	22:43	9.3	283
13	04:05	6.0	183
	09:49	10.2	311
W	16:55	0.7	21
14	00:01	9.2	280
	05:12	6.9	210
Th	10:37	9.8	299
◐	17:56	0.4	12
15	01:35	9.5	290
	06:44	7.4	226
F	11:42	9.5	290
	19:03	0.0	0

	Time	Height (ft)	Height (cm)
16	02:57	10.0	305
	08:17	7.2	219
Sa	12:58	9.5	290
	20:08	-0.4	-12
17	03:53	10.6	323
	09:24	6.5	198
Su	14:11	9.7	296
	21:09	-0.8	-24
18	04:34	11.1	338
	10:14	5.6	171
M	15:18	10.1	308
	22:03	-1.0	-30
19	05:09	11.5	351
	10:57	4.4	134
Tu	16:19	10.6	323
	22:54	-0.8	-24
20	05:42	11.7	357
	11:40	3.3	101
W	17:17	10.9	332
	23:41	-0.3	-9
21	06:14	11.9	363
	12:22	2.1	64
Th	18:13	11.0	335
○			
22	00:27	0.5	15
	06:48	11.9	363
F	13:05	1.2	37
	19:09	10.9	332
23	01:13	1.7	52
	07:22	11.8	360
Sa	13:48	0.5	15
	20:07	10.7	326
24	02:00	3.0	91
	07:58	11.4	347
Su	14:33	0.1	3
	21:06	10.5	320
25	02:50	4.3	131
	08:36	10.9	332
M	15:20	0.0	0
	22:11	10.1	308
26	03:46	5.5	168
	09:18	10.2	311
Tu	16:10	0.2	6
	23:25	9.9	302
27	04:58	6.4	195
	10:06	9.4	287
W	17:05	0.7	21
28	00:53	9.8	299
	06:41	6.8	207
Th	11:07	8.6	262
◑	18:07	1.1	34
29	02:18	10.0	305
	08:24	6.5	198
F	12:22	8.1	247
	19:14	1.4	43
30	03:20	10.2	311
	09:29	5.9	180
Sa	13:41	8.0	244
	20:18	1.5	46
31	04:03	10.4	317
	10:11	5.2	158
Su	14:49	8.2	250
	21:13	1.5	46

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: Seattle (9447130) Time offset in mins (high: 10 low: 11) Height offset in feet (high: *0.97 low: *0.95)

StationId: 9447029
Source: NOAA/NOS/CO-OPS
Station Type: Subordinate
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2019

Times and Heights of High and Low Waters

April

	Time	Height ft	Height cm
	h m		
1	04:34	10.5	320
	10:43	4.6	140
M	15:44	8.6	262
	21:59	1.5	46
2	04:57	10.5	320
	11:08	4.0	122
Tu	16:30	8.9	271
	22:38	1.7	52
3	05:17	10.6	323
	11:30	3.3	101
W	17:11	9.3	283
	23:14	1.9	58
4	05:37	10.6	323
	11:53	2.6	79
Th	17:50	9.6	293
	23:49	2.4	73
5	05:59	10.7	326
	12:19	1.8	55
F	18:29	9.9	302
●			
6	00:24	3.0	91
	06:24	10.7	326
Sa	12:49	1.1	34
	19:10	10.1	308
7	01:00	3.7	113
	06:50	10.7	326
Su	13:22	0.4	12
	19:54	10.3	314
8	01:39	4.4	134
	07:18	10.5	320
M	14:00	-0.2	-6
	20:42	10.4	317
9	02:21	5.3	162
	07:49	10.2	311
Tu	14:41	-0.5	-15
	21:35	10.3	314
10	03:08	6.0	183
	08:24	9.9	302
W	15:28	-0.6	-18
	22:36	10.2	311
11	04:07	6.7	204
	09:07	9.5	290
Th	16:22	-0.5	-15
	23:47	10.1	308
12	05:23	7.0	213
	10:06	9.0	274
F	17:23	-0.2	-6
◐			
13	01:05	10.2	311
	06:56	6.8	207
Sa	11:26	8.6	262
	18:31	0.0	0
14	02:13	10.5	320
	08:16	6.1	186
Su	12:53	8.5	259
	19:40	0.2	6
15	03:05	10.8	329
	09:12	4.9	149
M	14:14	8.8	268
	20:44	0.3	9

	Time	Height ft	Height cm
	h m		
16	03:45	11.1	338
	09:57	3.6	110
Tu	15:25	9.4	287
	21:41	0.7	21
17	04:21	11.4	347
	10:38	2.3	70
W	16:28	10.0	305
	22:33	1.2	37
18	04:54	11.6	354
	11:18	1.0	30
Th	17:26	10.5	320
	23:22	2.0	61
19	05:26	11.6	354
	11:58	-0.1	-3
F	18:21	10.8	329
○			
20	00:10	2.9	88
	06:00	11.5	351
Sa	12:37	-0.9	-27
	19:15	11.0	335
21	00:57	3.9	119
	06:34	11.1	338
Su	13:17	-1.3	-40
	20:09	11.1	338
22	01:47	4.9	149
	07:10	10.6	323
M	13:59	-1.3	-40
	21:03	11.0	335
23	02:41	5.7	174
	07:49	10.0	305
Tu	14:41	-1.0	-30
	21:59	10.8	329
24	03:42	6.3	192
	08:32	9.2	280
W	15:27	-0.5	-15
	22:59	10.6	323
25	04:58	6.6	201
	09:23	8.4	256
Th	16:17	0.3	9
26	00:05	10.4	317
	06:38	6.4	195
F	10:28	7.7	235
◑	17:14	1.0	30
27	01:11	10.2	311
	08:03	5.8	177
Sa	11:49	7.2	219
	18:18	1.7	52
28	02:06	10.2	311
	08:57	5.1	155
Su	13:13	7.2	219
	19:24	2.2	67
29	02:49	10.3	314
	09:34	4.3	131
M	14:29	7.5	229
	20:24	2.5	76
30	03:21	10.3	314
	10:03	3.5	107
Tu	15:30	8.0	244
	21:16	2.8	85

May

	Time	Height ft	Height cm
	h m		
1	03:48	10.4	317
	10:27	2.6	79
W	16:21	8.5	259
	22:01	3.2	98
2	04:13	10.5	320
	10:50	1.8	55
Th	17:06	9.1	277
	22:41	3.7	113
3	04:37	10.5	320
	11:15	0.8	24
F	17:47	9.7	296
	23:21	4.2	128
4	05:03	10.5	320
	11:44	0.0	0
Sa	18:28	10.2	311
●			
5	00:00	4.8	146
	05:30	10.5	320
Su	12:16	-0.8	-24
	19:10	10.6	323
6	00:42	5.4	165
	05:59	10.4	317
M	12:52	-1.5	-46
	19:54	10.9	332
7	01:26	5.9	180
	06:32	10.2	311
Tu	13:32	-1.8	-55
	20:42	11.1	338
8	02:14	6.4	195
	07:08	9.9	302
W	14:16	-1.9	-58
	21:34	11.1	338
9	03:09	6.7	204
	07:51	9.5	290
Th	15:04	-1.7	-52
	22:31	11.0	335
10	04:13	6.8	207
	08:45	9.0	274
F	15:58	-1.2	-37
	23:32	11.0	335
11	05:31	6.5	198
	09:55	8.4	256
Sa	16:57	-0.5	-15
12	00:33	11.0	335
	06:53	5.8	177
Su	11:22	7.9	241
◐	18:02	0.3	9
13	01:28	11.1	338
	08:00	4.6	140
M	12:54	7.8	238
	19:10	1.1	34
14	02:15	11.3	344
	08:53	3.2	98
Tu	14:21	8.2	250
	20:16	1.9	58
15	02:56	11.4	347
	09:37	1.7	52
W	15:37	8.9	271
	21:17	2.7	82

	Time	Height ft	Height cm
	h m		
16	03:33	11.5	351
	10:17	0.4	12
Th	16:42	9.6	293
	22:13	3.5	107
17	04:07	11.5	351
	10:56	-0.8	-24
F	17:41	10.3	314
	23:06	4.4	134
18	04:41	11.3	344
	11:34	-1.6	-49
Sa	18:33	10.9	332
○	23:57	5.1	155
19	05:16	11.0	335
	12:11	-2.1	-64
Su	19:23	11.2	341
20	00:48	5.7	174
	05:52	10.6	323
M	12:50	-2.2	-67
	20:10	11.4	347
21	01:40	6.2	189
	06:30	10.0	305
Tu	13:29	-2.0	-61
	20:56	11.4	347
22	02:35	6.5	198
	07:10	9.3	283
W	14:10	-1.5	-46
	21:42	11.3	344
23	03:34	6.6	201
	07:56	8.6	262
Th	14:53	-0.8	-24
	22:29	11.1	338
24	04:43	6.4	195
	08:48	7.9	241
F	15:38	0.0	0
	23:17	10.8	329
25	06:00	6.0	183
	09:52	7.3	223
Sa	16:28	0.9	27
26	00:05	10.7	326
	07:11	5.4	165
Su	11:09	6.8	207
◑	17:23	1.8	55
27	00:50	10.6	323
	08:03	4.6	140
M	12:33	6.7	204
	18:23	2.7	82
28	01:32	10.5	320
	08:42	3.6	110
Tu	13:56	7.0	213
	19:24	3.5	107
29	02:08	10.5	320
	09:12	2.7	82
W	15:09	7.6	232
	20:24	4.2	128
30	02:41	10.5	320
	09:40	1.6	49
Th	16:09	8.3	253
	21:18	4.8	146
31	03:11	10.6	323
	10:08	0.5	15
F	16:59	9.1	277
	22:07	5.4	165

June

	Time	Height ft	Height cm
	h m		
1	03:41	10.6	323
	10:38	-0.5	-15
Sa	17:44	9.9	302
	22:54	5.9	180
2	04:11	10.6	323
	11:11	-1.4	-43
Su	18:26	10.5	320
	23:39	6.3	192
3	04:43	10.5	320
	11:48	-2.2	-67
M	19:09	11.0	335
●			
4	00:26	6.6	201
	05:19	10.5	320
Tu	12:28	-2.7	-82
	19:53	11.4	347
5	01:15	6.8	207
	05:59	10.3	314
W	13:12	-2.9	-88
	20:39	11.6	354
6	02:07	6.9	210
	06:44	10.0	305
Th	13:58	-2.7	-82
	21:27	11.7	357
7	03:04	6.7	204
	07:38	9.5	290
F	14:47	-2.2	-67
	22:16	11.7	357
8	04:08	6.3	192
	08:41	8.8	268
Sa	15:39	-1.4	-43
	23:06	11.7	357
9	05:18	5.6	171
	09:56	8.1	247
Su	16:35	-0.2	-6
	23:56	11.6	354
10	06:29	4.5	137
	11:23	7.6	232
M	17:35	1.1	34
◐			
11	00:44	11.6	354
	07:32	3.2	98
Tu	12:58	7.6	232
	18:41	2.5	76
12	01:29	11.6	354
	08:26	1.7	52
W	14:32	8.0	244
	19:50	3.7	113
13	02:11	11.5	351
	09:13	0.4	12
Th	15:54	8.9	271
	20:58	4.7	143
14	02:50	11.4	347
	09:55	-0.8	-24
F	17:01	9.8	299
	22:01	5.5	168
15	03:28	11.2	341
	10:34	-1.6	-49
Sa	17:56	10.5	320
	22:59	6.1	186

	Time	Height ft	Height cm
	h m		
16	04:05	10.9	332
	11:12	-2.1	-64
Su	18:44	11.0	335
	23:53	6.5	198
17	04:43	10.5	320
	11:49	-2.3	-70
M	19:26	11.3	344
○			
18	00:44	6.7	204
	05:22	10.1	308
Tu	12:26	-2.2	-67
	20:05	11.5	351
19	01:33	6.7	204
	06:02	9.6	293
W	13:05	-1.9	-58
	20:40	11.4	347
20	02:21	6.6	201
	06:45	9.1	277
Th	13:44	-1.5	-46
	21:16	11.4	347
21	03:10	6.4	195
	07:31	8.5	259
F	14:24	-0.8	-24
	21:51	11.3	344
22	04:01	6.1	186
	08:23	8.0	244
Sa	15:05	0.0	0
	22:28	11.1	338
23	04:56	5.6	171
	09:21	7.4	226
Su	15:49	0.9	27
	23:07	11.0	335
24	05:51	4.9	149
	10:30	7.0	213
M	16:35	2.0	61
	23:46	10.9	332
25	06:44	4.1	125
	11:49	6.7	204
Tu	17:26	3.2	98
◑			
26	00:24	10.8	329
	07:31	3.2	98
W	13:15	6.9	210
	18:24	4.3	131
27	01:03	10.7	326
	08:11	2.1	64
Th	14:42	7.5	229
	19:29	5.3	162
28	01:40	10.6	323
	08:49	1.0	30
F	15:54	8.4	256
	20:35	6.1	186
29	02:16	10.6	323
	09:26	-0.2	-6
Sa	16:51	9.3	283
	21:36	6.6	201
30	02:52	10.6	323
	10:04	-1.2	-37
Su	17:37	10.1	308
	22:31	6.9	210

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: Seattle (9447130) Time offset in mins (high: 10 low: 11) Height offset in feet (high: *0.97 low: *0.95)

StationId: 9447029
Source: NOAA/NOS/CO-OPS
Station Type: Subordinate
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2019

Times and Heights of High and Low Waters

July

	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	03:30	10.6 323	**16**	04:27	10.0 305	**1**	04:48	10.8 329	**16**	00:47	5.3 162
	10:44	-2.1 -64		11:30	-1.8 -55		11:52	-3.0 -91		05:46	9.4 287
M	18:18	10.8 329	Tu	19:14	11.2 341	Th	19:10	11.6 354	F	12:24	-0.4 -12
	23:21	7.1 216	○			●				19:25	10.8 329
2	04:11	10.7 326	**17**	00:37	6.6 201	**2**	00:39	5.8 177	**17**	01:16	4.8 146
	11:25	-2.8 -85		05:08	9.7 296		05:42	10.7 326		06:26	9.3 283
Tu	18:59	11.3 344	W	12:07	-1.7 -52	F	12:39	-2.8 -85	Sa	12:58	0.0 0
●				19:44	11.2 341		19:48	11.8 360		19:49	10.8 329
3	00:10	7.0 213	**18**	01:16	6.3 192	**3**	01:28	5.0 152	**18**	01:46	4.3 131
	04:56	10.6 323		05:50	9.4 287		06:39	10.5 320		07:08	9.1 277
W	12:09	-3.2 -98	Th	12:44	-1.4 -43	Sa	13:25	-2.1 -64	Su	13:32	0.7 21
	19:40	11.7 357		20:10	11.2 341		20:26	12.0 366		20:15	10.8 329
4	01:00	6.8 207	**19**	01:53	6.1 186	**4**	02:19	4.2 128	**19**	02:20	3.8 116
	05:44	10.5 320		06:33	9.1 277		07:39	10.0 305		07:53	8.9 271
Th	12:55	-3.2 -98	F	13:21	-1.0 -30	Su	14:13	-1.0 -30	M	14:07	1.5 46
	20:21	11.9 363		20:37	11.2 341		21:05	12.0 366		20:43	10.8 329
5	01:51	6.4 195	**20**	02:30	5.7 174	**5**	03:13	3.3 101	**20**	02:57	3.2 98
	06:38	10.2 311		07:17	8.8 268		08:44	9.4 287		08:42	8.6 262
F	13:42	-2.9 -88	Sa	13:58	-0.4 -12	M	15:01	0.5 15	Tu	14:44	2.5 76
	21:04	12.0 366		21:06	11.1 338		21:45	11.9 363		21:14	10.6 323
6	02:46	5.8 177	**21**	03:09	5.2 158	**6**	04:10	2.4 73	**21**	03:38	2.6 79
	07:37	9.7 296		08:05	8.4 256		09:56	8.8 268		09:37	8.4 256
Sa	14:30	-2.0 -61	Su	14:35	0.4 12	Tu	15:53	2.1 64	W	15:23	3.7 113
	21:47	12.0 366		21:38	11.1 338		22:28	11.6 354		21:47	10.4 317
7	03:45	5.1 155	**22**	03:52	4.7 143	**7**	05:10	1.7 52	**22**	04:24	2.1 64
	08:42	9.0 274		08:58	7.9 241		11:20	8.4 256		10:41	8.2 250
Su	15:20	-0.8 -24	M	15:14	1.4 43	W	16:51	3.9 119	Th	16:08	4.8 146
	22:30	12.0 366		22:11	11.0 335	◐	23:13	11.2 341		22:23	10.0 305
8	04:48	4.2 128	**23**	04:37	4.0 122	**8**	06:12	1.0 30	**23**	05:15	1.6 49
	09:57	8.3 253		09:59	7.5 229		13:02	8.4 256		11:58	8.2 250
M	16:13	0.7 21	Tu	15:54	2.6 79	Th	18:04	5.4 165	F	17:05	6.0 183
	23:14	11.9 363		22:46	10.8 329				◑	23:05	9.8 299
9	05:53	3.1 94	**24**	05:26	3.3 101	**9**	00:03	10.7 326	**24**	06:11	1.0 30
	11:23	7.8 238		11:10	7.3 223		07:14	0.4 12		13:30	8.5 259
Tu	17:11	2.4 73	W	16:40	3.9 119	F	14:46	9.0 274	Sa	18:24	6.8 207
◐	23:59	11.7 357		23:23	10.6 323		19:35	6.3 192		23:56	9.5 290
10	06:55	1.9 58	**25**	06:17	2.5 76	**10**	00:58	10.3 314	**25**	07:11	0.4 12
	13:01	7.8 238		12:33	7.3 223		08:13	-0.1 -3		14:59	9.1 277
W	18:17	4.0 122	Th	17:35	5.1 155	Sa	16:03	9.8 299	Su	19:54	7.1 216
			◑				21:04	6.6 201			
11	00:44	11.5 351	**26**	00:02	10.4 317	**11**	01:54	9.9 302	**26**	00:55	9.5 290
	07:53	0.7 21		07:08	1.6 49		09:06	-0.5 -15		08:10	-0.4 -12
Th	14:44	8.3 253	F	14:07	7.8 238	Su	16:58	10.4 317	M	16:00	9.8 299
	19:33	5.3 162		18:45	6.2 189		22:13	6.5 198		21:07	6.9 210
12	01:31	11.2 341	**27**	00:45	10.2 311	**12**	02:49	9.7 296	**27**	01:56	9.7 296
	08:45	-0.3 -9		07:58	0.6 18		09:53	-0.8 -24		09:06	-1.1 -34
F	16:08	9.3 283	Sa	15:32	8.7 265	M	17:41	10.8 329	Tu	16:43	10.4 317
	20:52	6.2 189		20:05	6.9 210		23:04	6.2 189		22:01	6.5 198
13	02:16	10.9 332	**28**	01:30	10.2 311	**13**	03:39	9.6 293	**28**	02:56	10.1 308
	09:31	-1.0 -30		08:46	-0.4 -12		10:35	-0.9 -27		09:58	-1.7 -52
Sa	17:10	10.1 308	Su	16:32	9.5 290	Tu	18:15	10.9 332	W	17:19	10.9 332
	22:03	6.6 201		21:16	7.2 219		23:44	5.9 180		22:47	5.7 174
14	03:01	10.6 323	**29**	02:17	10.3 314	**14**	04:25	9.5 290	**29**	03:53	10.5 320
	10:13	-1.5 -46		09:33	-1.4 -43		11:13	-0.8 -24		10:47	-2.0 -61
Su	17:59	10.8 329	M	17:17	10.3 314	W	18:42	10.9 332	Th	17:54	11.3 344
	23:03	6.7 204		22:14	7.1 216					23:31	4.9 149
15	03:44	10.3 314	**30**	03:06	10.5 320	**15**	00:17	5.6 171	**30**	04:49	10.8 329
	10:53	-1.8 -55		10:20	-2.2 -67		05:06	9.4 287		11:34	-2.0 -61
M	18:40	11.1 338	Tu	17:56	10.9 332	Th	11:49	-0.7 -21	F	18:28	11.5 351
	23:53	6.7 204		23:04	6.9 210	○	19:04	10.8 329	●		
			31	03:56	10.7 326				**31**	00:16	3.9 119
				11:06	-2.8 -85					05:44	10.9 332
			W	18:33	11.3 344				Sa	12:20	-1.4 -43
				23:52	6.4 195					19:03	11.7 357

September

	Time	Height		Time	Height
	h m	ft cm		h m	ft cm
1	01:02	2.9 88	**16**	01:05	2.5 76
	06:41	10.8 329		07:03	9.6 293
Su	13:07	-0.5 -15	M	13:07	2.3 70
	19:39	11.8 360		19:19	10.5 320
2	01:49	2.0 61	**17**	01:37	1.9 58
	07:41	10.4 317		07:45	9.6 293
M	13:54	0.8 24	Tu	13:43	3.1 94
	20:17	11.6 354		19:47	10.4 317
3	02:38	1.2 37	**18**	02:12	1.4 43
	08:44	10.0 305		08:31	9.5 290
Tu	14:43	2.3 70	W	14:21	4.0 122
	20:56	11.3 344		20:16	10.1 308
4	03:30	0.7 21	**19**	02:51	1.0 30
	09:54	9.6 293		09:23	9.4 287
W	15:37	3.9 119	Th	15:02	5.0 152
	21:39	10.8 329		20:48	9.8 299
5	04:25	0.5 15	**20**	03:35	0.7 21
	11:15	9.3 283		10:23	9.3 283
Th	16:41	5.3 162	F	15:52	5.9 180
	22:27	10.2 311		21:24	9.4 287
6	05:25	0.4 12	**21**	04:26	0.6 18
	12:51	9.3 283		11:34	9.2 280
F	18:07	6.2 189	Sa	16:57	6.7 204
◐	23:24	9.5 290		22:11	9.1 277
7	06:29	0.5 15	**22**	05:25	0.4 12
	14:26	9.7 296		12:58	9.4 287
Sa	19:53	6.5 198	Su	18:26	7.0 213
			◑	23:16	8.8 268
8	00:31	9.0 274	**23**	06:30	0.2 6
	07:35	0.5 15		14:18	9.8 299
Su	15:36	10.1 308	M	19:57	6.8 207
	21:15	6.1 186			
9	01:42	8.8 268	**24**	00:33	8.8 268
	08:36	0.4 12		07:36	-0.1 -3
M	16:25	10.5 320	Tu	15:15	10.2 311
	22:10	5.6 171		21:00	6.1 186
10	02:47	8.8 268	**25**	01:48	9.1 277
	09:28	0.3 9		08:39	-0.4 -12
Tu	17:03	10.6 323	W	15:58	10.7 326
	22:50	5.1 155		21:47	5.2 158
11	03:41	9.0 274	**26**	02:55	9.6 293
	10:13	0.3 9		09:34	-0.6 -18
W	17:31	10.6 323	Th	16:34	11.1 338
	23:22	4.7 143		22:29	4.0 122
12	04:26	9.2 280	**27**	03:56	10.2 311
	10:52	0.4 12		10:26	-0.5 -15
Th	17:53	10.6 323	F	17:07	11.4 347
	23:48	4.2 128		23:11	2.8 85
13	05:06	9.3 283	**28**	04:53	10.6 323
	11:27	0.6 18		11:14	-0.1 -3
F	18:11	10.5 320	Sa	17:40	11.6 354
			●	23:52	1.6 49
14	00:12	3.7 113	**29**	05:49	10.9 332
	05:45	9.4 287		12:01	0.7 21
Sa	12:00	1.0 30	Su	18:14	11.7 357
○	18:31	10.5 320			
15	00:37	3.1 94	**30**	00:35	0.5 15
	06:23	9.5 290		06:46	11.0 335
Su	12:34	1.6 49	M	12:48	1.8 55
	18:54	10.6 323		18:50	11.6 354

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: Seattle (9447130) Time offset in mins (high: 10 low: 11) Height offset in feet (high: *0.97 low: *0.95)

StationId: 9447029
Source: NOAA/NOS/CO-OPS
Station Type: Subordinate
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2019

Times and Heights of High and Low Waters

October

	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	01:19	-0.2 -6	**16**	01:01	0.1 3	**1**	02:18	-1.5 -46	**16**	00:50	-1.7 -52
	07:44	11.0 335		07:41	10.4 317		09:40	11.4 347		08:11	11.4 347
Tu	13:37	3.1 94	W	13:23	4.9 149	F	15:23	6.5 198	Sa	13:47	7.1 216
	19:27	11.2 341		18:52	10.2 311		20:07	9.4 287		18:19	9.6 293
2	02:04	-0.7 -21	**17**	01:36	-0.3 -9	**2**	03:05	-0.9 -27	**17**	01:36	-1.5 -46
	08:44	10.8 329		08:26	10.5 320		10:41	11.1 338		09:03	11.4 347
W	14:28	4.3 131	Th	14:05	5.6 171	Sa	16:41	6.7 204	Su	14:48	7.1 216
	20:06	10.7 326		19:21	9.9 302		21:01	8.5 259		19:08	9.1 277
3	02:52	-0.7 -21	**18**	02:16	-0.5 -15	**3**	02:56	0.0 0	**18**	02:26	-1.0 -30
	09:49	10.5 320		09:16	10.5 320		10:45	10.9 332		09:59	11.4 347
Th	15:27	5.4 165	F	14:52	6.3 192	Su	17:19	6.4 195	M	16:00	6.9 210
	20:50	10.0 305		19:54	9.5 290		21:09	7.8 238		20:15	8.5 259
4	03:42	-0.4 -12	**19**	03:00	-0.6 -18	**4**	03:52	0.9 27	**19**	03:22	-0.2 -6
	11:02	10.3 314		10:12	10.4 317		11:48	10.8 329		10:56	11.3 344
F	16:41	6.2 189	Sa	15:49	6.8 207	M	18:42	5.7 174	Tu	17:19	6.2 189
	21:42	9.2 280		20:34	9.1 277	◐	22:33	7.2 219	◑	21:42	7.9 241
5	04:38	0.1 3	**20**	03:51	-0.4 -12	**5**	04:56	1.8 55	**20**	04:24	0.6 18
	12:25	10.2 311		11:18	10.3 314		12:43	10.7 326		11:51	11.4 347
Sa	18:22	6.5 198	Su	17:02	7.0 213	Tu	19:38	4.9 149	W	18:29	5.0 152
◐	22:46	8.4 256		21:30	8.6 262					23:17	7.8 238
6	05:41	0.7 21	**21**	04:49	-0.1 -3	**6**	00:03	7.2 219	**21**	05:31	1.6 49
	13:45	10.2 311		12:29	10.4 317		06:03	2.4 73		12:39	11.6 354
Su	20:02	6.1 186	M	18:33	6.8 207	W	13:26	10.7 326	Th	19:23	3.6 110
			◑	22:51	8.2 250		20:18	4.0 122			
7	00:06	7.9 241	**22**	05:55	0.3 9	**7**	01:23	7.5 229	**22**	00:48	8.2 250
	06:49	1.2 37		13:35	10.6 323		07:07	2.9 88		06:39	2.5 76
M	14:48	10.4 317	Tu	19:51	6.1 186	Th	14:00	10.7 326	F	13:21	11.8 360
	21:06	5.4 165					20:49	3.2 98		20:08	2.0 61
8	01:29	7.8 238	**23**	00:22	8.1 247	**8**	02:27	8.1 247	**23**	02:09	8.9 271
	07:56	1.5 46		07:04	0.6 18		08:01	3.4 104		07:44	3.3 101
Tu	15:34	10.5 320	W	14:27	10.9 332	F	14:27	10.7 326	Sa	14:00	11.9 363
	21:51	4.7 143		20:46	4.9 149		21:14	2.3 70		20:50	0.5 15
9	02:41	8.1 247	**24**	01:46	8.5 259	**9**	03:19	8.8 268	**24**	03:18	9.8 299
	08:54	1.6 49		08:10	0.8 24		08:48	3.9 119		08:43	4.2 128
W	16:08	10.5 320	Th	15:09	11.2 341	Sa	14:52	10.7 326	Su	14:36	11.9 363
	22:24	4.0 122		21:30	3.6 110		21:37	1.5 46		21:30	-0.8 -24
10	03:38	8.5 259	**25**	02:59	9.1 277	**10**	04:03	9.4 287	**25**	04:18	10.7 326
	09:43	1.8 55		09:09	1.1 34		09:30	4.4 134		09:39	5.0 152
Th	16:33	10.5 320	F	15:46	11.5 351	Su	15:17	10.7 326	M	15:12	11.9 363
	22:51	3.4 104		22:10	2.1 64		22:01	0.7 21		22:09	-1.7 -52
11	04:24	8.9 271	**26**	04:03	9.9 302	**11**	04:43	9.9 302	**26**	05:12	11.4 347
	10:23	2.0 61		10:03	1.7 52		10:09	4.9 149		10:32	5.7 174
F	16:53	10.5 320	Sa	16:20	11.7 357	M	15:42	10.7 326	Tu	15:49	11.6 354
	23:14	2.7 82		22:50	0.7 21		22:27	-0.1 -3	●	22:48	-2.3 -70
12	05:05	9.3 283	**27**	05:02	10.5 320	**12**	05:21	10.4 317	**27**	06:03	11.8 360
	11:00	2.4 73		10:54	2.4 73		10:47	5.5 168		11:25	6.2 189
Sa	17:13	10.5 320	Su	16:53	11.8 360	Tu	16:08	10.6 323	W	16:26	11.2 341
	23:36	2.0 61		23:30	-0.5 -15	○	22:58	-0.8 -24		23:28	-2.5 -76
13	05:44	9.6 293	**28**	05:58	11.1 338	**13**	06:00	10.9 332	**28**	06:51	12.0 366
	11:35	2.9 88		11:43	3.3 101		11:27	6.0 183		12:18	6.6 201
Su	17:35	10.5 320	M	17:28	11.7 357	W	16:36	10.5 320	Th	17:06	10.6 323
○			●				23:31	-1.3 -40			
14	00:01	1.3 40	**29**	00:10	-1.4 -43	**14**	06:40	11.2 341	**29**	00:08	-2.2 -67
	06:21	9.9 302		06:53	11.4 347		12:09	6.5 198		07:38	12.1 369
M	12:09	3.5 107	Tu	12:33	4.3 131	Th	17:06	10.2 311	F	13:14	6.9 210
	17:59	10.5 320		18:03	11.4 347					17:49	10.0 305
15	00:29	0.7 21	**30**	00:51	-1.8 -55	**15**	00:09	-1.6 -49	**30**	00:50	-1.7 -52
	07:00	10.2 311		07:48	11.6 354		07:23	11.4 347		08:24	12.0 366
Tu	12:45	4.2 128	W	13:24	5.2 158	F	12:55	6.9 210	Sa	14:14	6.9 210
	18:25	10.4 317		18:41	10.9 332		17:40	10.0 305		18:35	9.2 280
			31	01:34	-1.9 -58						
				08:43	11.5 351						
			Th	14:20	6.0 183						
				19:22	10.2 311						

December

	Time	Height		Time	Height
	h m	ft cm		h m	ft cm
1	01:34	-0.9 -27	**16**	01:19	-1.9 -58
	09:10	11.7 357		08:45	12.2 372
Su	15:21	6.7 204	M	14:35	6.7 204
	19:29	8.4 256		19:06	9.3 283
2	02:19	0.0 0	**17**	02:07	-1.1 -34
	09:57	11.5 351		09:31	12.2 372
M	16:36	6.3 192	Tu	15:39	6.1 186
	20:33	7.7 235		20:16	8.6 262
3	03:08	1.1 34	**18**	02:59	0.1 3
	10:44	11.3 344		10:18	12.1 369
Tu	17:49	5.6 171	W	16:47	5.1 155
	21:51	7.1 216		21:39	8.0 244
4	04:02	2.2 67	**19**	03:56	1.4 43
	11:29	11.1 338		11:05	12.1 369
W	18:45	4.7 143	Th	17:53	3.8 116
◐	23:20	6.9 210	◑	23:15	7.8 238
5	05:01	3.2 98	**20**	05:00	2.9 88
	12:11	11.0 335		11:51	12.1 369
Th	19:27	3.8 116	F	18:51	2.4 73
6	00:50	7.2 219	**21**	00:55	8.2 250
	06:05	4.2 128		06:11	4.3 131
F	12:48	11.0 335	Sa	12:35	12.0 366
	20:00	2.8 85		19:42	0.9 27
7	02:10	7.9 241	**22**	02:26	9.1 277
	07:09	5.0 152		07:24	5.4 165
Sa	13:22	10.9 332	Su	13:18	11.9 363
	20:29	1.8 55		20:28	-0.4 -12
8	03:12	8.7 265	**23**	03:39	10.1 308
	08:07	5.6 171		08:33	6.2 189
Su	13:53	10.9 332	M	14:00	11.8 360
	20:56	0.8 24		21:10	-1.4 -43
9	04:01	9.6 293	**24**	04:36	11.1 338
	08:59	6.2 189		09:35	6.7 204
M	14:24	10.9 332	Tu	14:41	11.6 354
	21:25	-0.1 -3		21:50	-2.0 -61
10	04:43	10.3 314	**25**	05:25	11.7 357
	09:45	6.7 204		10:32	7.0 213
Tu	14:54	10.8 329	W	15:22	11.2 341
	21:56	-1.0 -30		22:30	-2.3 -70
11	05:21	11.0 335	**26**	06:07	12.1 369
	10:29	7.0 213		11:24	7.1 216
W	15:25	10.8 329	Th	16:04	10.8 329
	22:31	-1.7 -52	●	23:09	-2.2 -67
12	05:58	11.5 351	**27**	06:46	12.2 372
	11:13	7.2 219		12:13	7.1 216
Th	15:59	10.7 326	F	16:46	10.4 317
○	23:08	-2.1 -64		23:48	-1.9 -58
13	06:36	11.8 360	**28**	07:22	12.2 372
	11:58	7.4 226		13:01	6.9 210
F	16:37	10.5 320	Sa	17:31	9.8 299
	23:49	-2.4 -73			
14	07:17	12.0 366	**29**	00:28	-1.4 -43
	12:45	7.3 223		07:57	12.1 369
Sa	17:19	10.3 314	Su	13:49	6.6 201
				18:17	9.3 283
15	00:32	-2.3 -70	**30**	01:08	-0.6 -18
	08:00	12.2 372		08:31	12.0 366
Su	13:37	7.1 216	M	14:38	6.3 192
	18:08	9.9 302		19:08	8.7 265
			31	01:48	0.3 9
				09:07	11.8 360
			Tu	15:30	5.8 177
				20:03	8.0 244

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: Seattle (9447130) Time offset in mins (high: 10 low: 11) Height offset in feet (high: *0.97 low: *0.95)

NOAA (2018)

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2018

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: 9447029
Source: NOAA/NOS/CO-OPS
Station Type: Subordinate
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2018

Times and Heights of High and Low Waters

January

	Time	Height	
	h m	ft	cm
1	05:06	11.8	360
	10:17	7.0	213
M	15:17	11.8	360
	22:26	-3.1	-94
2	05:52	12.4	378
	11:12	6.9	210
Tu	16:07	11.6	354
○	23:13	-3.3	-101
3	06:37	12.7	387
	12:06	6.6	201
W	17:00	11.3	344
4	00:00	-2.9	-88
	07:21	12.8	390
Th	13:01	6.2	189
	17:56	10.7	326
5	00:48	-2.2	-67
	08:05	12.8	390
F	13:59	5.6	171
	18:55	10.0	305
6	01:36	-1.1	-34
	08:49	12.6	384
Sa	14:59	5.0	152
	20:01	9.2	280
7	02:25	0.4	12
	09:33	12.4	378
Su	16:03	4.2	128
	21:15	8.4	256
8	03:17	2.0	61
	10:17	12.1	369
M	17:08	3.4	104
◑	22:43	7.9	241
9	04:15	3.7	113
	11:02	11.7	357
Tu	18:10	2.5	76
10	00:28	8.0	244
	05:24	5.2	158
W	11:48	11.3	344
	19:05	1.7	52
11	02:09	8.7	265
	06:46	6.3	192
Th	12:33	11.0	335
	19:52	0.9	27
12	03:23	9.6	293
	08:07	6.9	210
F	13:17	10.7	326
	20:33	0.3	9
13	04:16	10.4	317
	09:14	7.1	216
Sa	13:59	10.4	317
	21:09	-0.2	-6
14	04:57	10.9	332
	10:06	7.2	219
Su	14:38	10.2	311
	21:43	-0.5	-15
15	05:30	11.3	344
	10:47	7.1	216
M	15:17	10.1	308
	22:16	-0.8	-24

	Time	Height	
	h m	ft	cm
16	05:57	11.5	351
	11:22	7.0	213
Tu	15:54	10.0	305
	22:50	-0.9	-27
17	06:21	11.6	354
	11:53	6.8	207
W	16:32	9.9	302
●	23:24	-0.9	-27
18	06:45	11.7	357
	12:25	6.5	198
Th	17:11	9.7	296
	23:59	-0.7	-21
19	07:11	11.8	360
	12:59	6.1	186
F	17:51	9.5	290
20	00:35	-0.4	-12
	07:41	11.9	363
Sa	13:36	5.7	174
	18:35	9.2	280
21	01:13	0.2	6
	08:12	11.9	363
Su	14:17	5.1	155
	19:25	8.9	271
22	01:51	1.1	34
	08:46	11.9	363
M	15:03	4.4	134
	20:23	8.5	259
23	02:32	2.3	70
	09:21	11.8	360
Tu	15:54	3.6	110
	21:32	8.2	250
24	03:19	3.6	110
	10:00	11.6	354
W	16:49	2.7	82
◐	22:55	8.1	247
25	04:14	5.0	152
	10:42	11.4	347
Th	17:47	1.6	49
26	00:31	8.5	259
	05:26	6.2	189
F	11:30	11.3	344
	18:45	0.5	15
27	02:07	9.3	283
	06:50	7.0	213
Sa	12:22	11.3	344
	19:40	-0.6	-18
28	03:19	10.3	314
	08:09	7.3	223
Su	13:17	11.3	344
	20:33	-1.6	-49
29	04:11	11.2	341
	09:15	7.1	216
M	14:13	11.4	347
	21:23	-2.3	-70
30	04:55	11.8	360
	10:11	6.7	204
Tu	15:09	11.5	351
	22:11	-2.6	-79
31	05:35	12.2	372
	11:02	6.2	189
W	16:03	11.4	347
○	22:58	-2.5	-76

February

	Time	Height	
	h m	ft	cm
1	06:13	12.5	381
	11:51	5.5	168
Th	16:58	11.2	341
	23:45	-2.0	-61
2	06:51	12.6	384
	12:40	4.8	146
F	17:54	10.7	326
3	00:30	-1.1	-34
	07:28	12.5	381
Sa	13:29	4.2	128
	18:51	10.2	311
4	01:15	0.1	3
	08:05	12.4	378
Su	14:20	3.5	107
	19:52	9.5	290
5	02:01	1.6	49
	08:43	12.0	366
M	15:13	3.0	91
	20:59	8.9	271
6	02:49	3.1	94
	09:23	11.6	354
Tu	16:09	2.5	76
	22:18	8.4	256
7	03:43	4.7	143
	10:05	11.1	338
W	17:07	2.1	64
◑	23:58	8.4	256
8	04:52	6.1	186
	10:52	10.5	320
Th	18:06	1.7	52
9	01:46	8.9	271
	06:28	6.9	210
F	11:44	10.0	305
	19:02	1.3	40
10	03:02	9.7	296
	08:04	7.2	219
Sa	12:39	9.7	296
	19:53	0.8	24
11	03:52	10.3	314
	09:10	7.0	213
Su	13:33	9.6	293
	20:37	0.5	15
12	04:30	10.7	326
	09:56	6.8	207
M	14:22	9.6	293
	21:17	0.1	3
13	04:58	11.0	335
	10:30	6.5	198
Tu	15:06	9.6	293
	21:54	-0.1	-3
14	05:22	11.1	338
	10:58	6.2	189
W	15:47	9.8	299
	22:29	-0.3	-9
15	05:43	11.3	344
	11:24	5.8	177
Th	16:26	9.8	299
●	23:03	-0.3	-9

	Time	Height	
	h m	ft	cm
16	06:05	11.4	347
	11:52	5.2	158
F	17:05	9.9	302
	23:38	0.0	0
17	06:29	11.6	354
	12:23	4.6	140
Sa	17:47	9.9	302
18	00:14	0.4	12
	06:56	11.7	357
Su	12:59	3.9	119
	18:31	9.7	296
19	00:51	1.1	34
	07:26	11.7	357
M	13:38	3.2	98
	19:21	9.5	290
20	01:30	2.1	64
	07:58	11.6	354
Tu	14:21	2.5	76
	20:17	9.3	283
21	02:11	3.3	101
	08:32	11.4	347
W	15:10	1.9	58
	21:22	9.0	274
22	02:58	4.7	143
	09:11	11.1	338
Th	16:04	1.3	40
	22:41	8.9	271
23	03:58	5.9	180
	09:57	10.8	329
F	17:05	0.7	21
◐			
24	00:17	9.1	277
	05:18	6.9	210
Sa	10:53	10.5	320
	18:10	0.1	3
25	01:55	9.7	296
	06:52	7.2	219
Su	11:59	10.4	317
	19:14	-0.5	-15
26	03:02	10.5	320
	08:13	6.9	210
M	13:07	10.4	317
	20:13	-1.0	-30
27	03:50	11.1	338
	09:13	6.3	192
Tu	14:12	10.6	323
	21:07	-1.4	-43
28	04:29	11.6	354
	10:03	5.5	168
W	15:11	10.8	329
	21:57	-1.4	-43

March

	Time	Height	
	h m	ft	cm
1	05:04	11.9	363
	10:48	4.6	140
Th	16:07	10.9	332
	22:43	-1.1	-34
2	05:37	12.0	366
	11:31	3.7	113
F	17:01	10.8	329
○	23:28	-0.4	-12
3	06:09	12.0	366
	12:13	2.9	88
Sa	17:55	10.6	323
4	00:12	0.5	15
	06:42	11.9	363
Su	12:56	2.3	70
	18:48	10.3	314
5	00:55	1.7	52
	07:16	11.7	357
M	13:39	1.8	55
	19:44	9.9	302
6	01:39	3.0	91
	07:51	11.2	341
Tu	14:23	1.5	46
	20:43	9.5	290
7	02:26	4.4	134
	08:28	10.7	326
W	15:11	1.5	46
	21:50	9.2	280
8	03:20	5.6	171
	09:09	10.1	308
Th	16:02	1.5	46
	23:13	9.0	274
9	04:33	6.5	198
	09:58	9.4	287
F	16:59	1.6	49
◑			
10	00:53	9.2	280
	06:21	7.0	213
Sa	10:57	8.9	271
	18:02	1.6	49
11	03:13	9.6	293
	08:58	6.8	207
Su	13:05	8.6	262
	20:03	1.4	43
12	04:04	10.0	305
	09:54	6.3	192
M	14:11	8.6	262
	20:58	1.2	37
13	04:40	10.3	314
	10:32	5.9	180
Tu	15:08	8.8	268
	21:44	0.9	27
14	05:07	10.6	323
	11:00	5.4	165
W	15:56	9.1	277
	22:25	0.7	21
15	05:29	10.7	326
	11:24	4.8	146
Th	16:39	9.4	287
	23:02	0.7	21

	Time	Height	
	h m	ft	cm
16	05:50	10.9	332
	11:48	4.1	125
F	17:20	9.7	296
	23:39	0.8	24
17	06:13	11.0	335
	12:16	3.4	104
Sa	18:01	10.0	305
●			
18	00:15	1.2	37
	06:39	11.2	341
Su	12:48	2.5	76
	18:44	10.2	311
19	00:52	1.8	55
	07:07	11.3	344
M	13:24	1.7	52
	19:30	10.3	314
20	01:32	2.6	79
	07:37	11.2	341
Tu	14:03	0.9	27
	20:20	10.3	314
21	02:13	3.6	110
	08:10	11.1	338
W	14:47	0.4	12
	21:16	10.1	308
22	02:59	4.6	140
	08:47	10.8	329
Th	15:35	0.0	0
	22:20	9.9	302
23	03:53	5.7	174
	09:30	10.4	317
F	16:30	-0.1	-3
	23:35	9.8	299
24	05:02	6.5	198
	10:23	9.9	302
Sa	17:32	0.0	0
◐			
25	01:04	9.8	299
	06:33	6.8	207
Su	11:32	9.4	287
	18:40	0.0	0
26	02:28	10.2	311
	08:07	6.5	198
M	12:52	9.2	280
	19:49	0.0	0
27	03:28	10.7	326
	09:16	5.7	174
Tu	14:10	9.3	283
	20:53	-0.1	-3
28	04:13	11.1	338
	10:07	4.7	143
W	15:20	9.7	296
	21:49	0.0	0
29	04:50	11.3	344
	10:50	3.6	110
Th	16:21	10.0	305
	22:40	0.3	9
30	05:22	11.5	351
	11:30	2.6	79
F	17:16	10.3	314
	23:26	0.9	27
31	05:52	11.5	351
	12:07	1.7	52
Sa	18:08	10.5	320
○			

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: Seattle (9447130) Time offset in mins (high: 10 low: 11) Height offset in feet (high: *0.97 low: *0.95)

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2018

Times and Heights of High and Low Waters

April

	Time	Height		Time	Height
	h m	ft / cm		h m	ft / cm
1	00:10	1.7 / 52	**16**	05:45	11.0 / 335
	06:22	11.4 / 347		12:15	0.2 / 6
Su	12:45	1.0 / 30	M	18:42	10.6 / 323
	18:58	10.6 / 323	●		
2	00:53	2.6 / 79	**17**	00:31	3.6 / 110
	06:53	11.2 / 341		06:16	11.0 / 335
M	13:22	0.5 / 15	Tu	12:53	-0.6 / -18
	19:47	10.5 / 320		19:30	10.8 / 329
3	01:37	3.6 / 110	**18**	01:15	4.3 / 131
	07:25	10.8 / 329		06:50	10.9 / 332
Tu	14:00	0.2 / 6	W	13:35	-1.2 / -37
	20:37	10.4 / 317		20:22	11.0 / 335
4	02:21	4.6 / 140	**19**	02:03	5.1 / 155
	07:58	10.3 / 314		07:27	10.7 / 326
W	14:39	0.2 / 6	Th	14:20	-1.5 / -46
	21:28	10.2 / 311		21:18	11.0 / 335
5	03:10	5.4 / 165	**20**	02:56	5.8 / 177
	08:35	9.7 / 296		08:10	10.2 / 311
Th	15:21	0.4 / 12	F	15:09	-1.4 / -43
	22:25	10.0 / 305		22:20	10.8 / 329
6	04:07	6.2 / 189	**21**	03:59	6.3 / 192
	09:17	9.1 / 277		09:00	9.7 / 296
F	16:07	0.7 / 21	Sa	16:04	-1.1 / -34
	23:29	9.8 / 299		23:29	10.7 / 326
7	05:24	6.6 / 201	**22**	05:16	6.5 / 198
	10:07	8.4 / 256		10:05	9.0 / 274
Sa	17:00	1.2 / 37	Su	17:05	-0.5 / -15
			◐		
8	00:43	9.7 / 296	**23**	00:43	10.7 / 326
	07:11	6.6 / 201		06:48	6.1 / 186
Su	11:13	7.8 / 238	M	11:25	8.4 / 256
◑	18:00	1.6 / 49		18:13	0.2 / 6
9	01:55	9.8 / 299	**24**	01:50	10.8 / 329
	08:35	6.1 / 186		08:08	5.2 / 158
M	12:30	7.6 / 232	Tu	12:54	8.2 / 250
	19:05	1.8 / 55		19:23	0.7 / 21
10	02:50	9.9 / 302	**25**	02:44	11.0 / 335
	09:23	5.5 / 168		09:06	4.1 / 125
Tu	13:44	7.7 / 235	W	14:18	8.5 / 259
	20:07	1.8 / 55		20:29	1.2 / 37
11	03:29	10.2 / 311	**26**	03:27	11.1 / 338
	09:55	4.8 / 146		09:52	2.8 / 85
W	14:48	8.1 / 247	Th	15:32	8.9 / 271
	21:01	1.8 / 55		21:28	1.8 / 55
12	03:59	10.3 / 314	**27**	04:03	11.2 / 341
	10:20	4.1 / 125		10:32	1.7 / 52
Th	15:42	8.6 / 262	F	16:34	9.5 / 290
	21:47	1.9 / 58		22:21	2.4 / 73
13	04:25	10.5 / 320	**28**	04:35	11.2 / 341
	10:44	3.2 / 98		11:08	0.7 / 21
F	16:28	9.1 / 277	Sa	17:29	10.0 / 305
	22:29	2.1 / 64		23:09	3.1 / 94
14	04:51	10.7 / 326	**29**	05:04	11.1 / 338
	11:11	2.3 / 70		11:42	0.0 / 0
Sa	17:12	9.6 / 293	Su	18:18	10.3 / 314
	23:10	2.4 / 73		23:54	3.9 / 119
15	05:17	10.9 / 332	**30**	05:34	10.9 / 332
	11:41	1.2 / 37		12:16	-0.6 / -18
Su	17:57	10.1 / 308	M	19:04	10.6 / 323
	23:50	2.9 / 88	○		

May

	Time	Height		Time	Height
	h m	ft / cm		h m	ft / cm
1	00:38	4.6 / 140	**16**	00:13	5.3 / 162
	06:04	10.5 / 320		05:31	11.0 / 335
Tu	12:50	-0.9 / -27	W	12:27	-2.4 / -73
	19:48	10.8 / 329		19:31	11.4 / 347
2	01:23	5.3 / 162	**17**	01:02	5.7 / 174
	06:36	10.1 / 308		06:11	10.8 / 329
W	13:25	-1.0 / -30	Th	13:11	-2.8 / -85
	20:31	10.8 / 329		20:23	11.6 / 354
3	02:10	5.8 / 177	**18**	01:56	6.1 / 186
	07:11	9.6 / 293		06:55	10.5 / 320
Th	14:02	-0.8 / -24	F	13:59	-2.7 / -82
	21:15	10.8 / 329		21:18	11.7 / 357
4	03:00	6.2 / 189	**19**	02:55	6.3 / 192
	07:49	9.0 / 274		07:46	9.9 / 302
F	14:41	-0.5 / -15	Sa	14:49	-2.3 / -70
	22:01	10.7 / 326		22:15	11.6 / 354
5	03:57	6.5 / 198	**20**	04:02	6.2 / 189
	08:31	8.4 / 256		08:45	9.2 / 280
Sa	15:24	0.0 / 0	Su	15:43	-1.5 / -46
	22:52	10.5 / 320		23:14	11.5 / 351
6	05:08	6.5 / 198	**21**	05:20	5.8 / 177
	09:23	7.8 / 238		09:57	8.4 / 256
Su	16:12	0.6 / 18	M	16:42	-0.5 / -15
	23:46	10.3 / 314			
7	06:34	6.2 / 189	**22**	00:12	11.4 / 347
	10:30	7.3 / 223		06:40	5.0 / 152
M	17:06	1.3 / 40	Tu	11:23	7.8 / 238
			◐	17:46	0.7 / 21
8	00:41	10.3 / 314	**23**	01:08	11.3 / 344
	07:47	5.6 / 171		07:50	3.9 / 119
Tu	11:48	7.0 / 213	W	12:56	7.6 / 232
◑	18:06	1.9 / 58		18:54	1.8 / 55
9	01:31	10.3 / 314	**24**	01:56	11.3 / 344
	08:32	4.8 / 146		08:45	2.6 / 79
W	13:09	7.0 / 213	Th	14:27	8.0 / 244
	19:09	2.4 / 73		20:02	2.8 / 85
10	02:13	10.4 / 317	**25**	02:39	11.3 / 344
	09:05	3.9 / 119		09:30	1.4 / 43
Th	14:21	7.5 / 229	F	15:45	8.6 / 262
	20:08	2.8 / 85		21:06	3.7 / 113
11	02:49	10.5 / 320	**26**	03:16	11.2 / 341
	09:33	2.9 / 88		10:09	0.3 / 9
F	15:23	8.1 / 247	Sa	16:49	9.3 / 283
	21:02	3.2 / 98		22:03	4.4 / 134
12	03:21	10.7 / 326	**27**	03:49	11.0 / 335
	10:02	1.7 / 52		10:44	-0.5 / -15
Sa	16:17	8.9 / 271	Su	17:43	10.0 / 305
	21:52	3.7 / 113		22:55	5.1 / 155
13	03:51	10.9 / 332	**28**	04:20	10.7 / 326
	10:34	0.5 / 15		11:17	-1.1 / -34
Su	17:06	9.7 / 296	M	18:29	10.5 / 320
	22:39	4.2 / 128		23:44	5.7 / 174
14	04:23	11.0 / 335	**29**	04:51	10.4 / 317
	11:09	-0.7 / -21		11:49	-1.4 / -43
M	17:54	10.4 / 317	Tu	19:10	10.8 / 329
	23:25	4.7 / 143	○		
15	04:55	11.0 / 335	**30**	00:30	6.1 / 186
	11:46	-1.7 / -52		05:24	10.0 / 305
Tu	18:42	11.0 / 335	W	12:22	-1.5 / -46
●				19:47	11.0 / 335
			31	01:15	6.4 / 195
				05:58	9.6 / 293
			Th	12:56	-1.5 / -46
				20:23	11.1 / 338

June

	Time	Height		Time	Height
	h m	ft / cm		h m	ft / cm
1	02:00	6.5 / 198	**16**	01:47	6.3 / 192
	06:34	9.2 / 280		06:37	10.5 / 320
F	13:32	-1.3 / -40	Sa	13:41	-3.2 / -98
	20:59	11.1 / 338		21:06	12.1 / 369
2	02:47	6.5 / 198	**17**	02:47	6.1 / 186
	07:14	8.7 / 265		07:35	9.9 / 302
Sa	14:11	-0.9 / -27	Su	14:32	-2.4 / -73
	21:37	11.1 / 338		21:56	12.1 / 369
3	03:37	6.4 / 195	**18**	03:51	5.6 / 171
	07:58	8.2 / 250		08:39	9.1 / 277
Su	14:52	-0.4 / -12	M	15:24	-1.3 / -40
	22:17	11.0 / 335		22:45	12.0 / 366
4	04:32	6.2 / 189	**19**	05:00	4.8 / 146
	08:50	7.7 / 235		09:53	8.3 / 253
M	15:35	0.3 / 9	Tu	16:18	0.1 / 3
	23:00	10.9 / 332		23:34	11.8 / 360
5	05:33	5.8 / 177	**20**	06:10	3.9 / 119
	09:53	7.2 / 219		11:17	7.7 / 235
Tu	16:23	1.1 / 34	W	17:18	1.6 / 49
	23:44	10.9 / 332	◐		
6	06:33	5.1 / 155	**21**	00:22	11.6 / 354
	11:07	6.9 / 210		07:16	2.8 / 85
W	17:15	2.0 / 61	Th	12:53	7.5 / 229
◑				18:23	3.1 / 94
7	00:27	10.8 / 329	**22**	01:08	11.4 / 347
	07:23	4.2 / 128		08:12	1.6 / 49
Th	12:28	6.8 / 207	F	14:32	7.9 / 241
	18:12	2.9 / 88		19:35	4.3 / 131
8	01:08	10.8 / 329	**23**	01:52	11.2 / 341
	08:06	3.1 / 94		09:00	0.6 / 18
F	13:49	7.2 / 219	Sa	15:55	8.7 / 265
	19:13	3.8 / 116		20:47	5.3 / 162
9	01:46	10.9 / 332	**24**	02:32	10.9 / 332
	08:44	1.9 / 58		09:42	-0.3 / -9
Sa	15:02	8.0 / 244	Su	16:59	9.5 / 290
	20:15	4.5 / 137		21:53	5.9 / 180
10	02:23	11.0 / 335	**25**	03:10	10.6 / 323
	09:21	0.5 / 15		10:18	-0.9 / -27
Su	16:05	8.9 / 271	M	17:50	10.2 / 311
	21:15	5.2 / 158		22:50	6.3 / 192
11	02:59	11.1 / 338	**26**	03:46	10.3 / 314
	10:00	-0.8 / -24		10:52	-1.2 / -37
M	17:00	9.8 / 299	Tu	18:32	10.7 / 326
	22:10	5.7 / 174		23:40	6.6 / 201
12	03:36	11.2 / 341	**27**	04:21	10.0 / 305
	10:40	-1.9 / -58		11:25	-1.5 / -46
Tu	17:51	10.6 / 323	W	19:07	10.9 / 332
	23:04	6.1 / 186			
13	04:16	11.2 / 341	**28**	00:24	6.7 / 204
	11:22	-2.8 / -85		04:57	9.7 / 296
W	18:39	11.3 / 344	Th	11:59	-1.5 / -46
●	23:57	6.4 / 195	○	19:37	11.1 / 338
14	04:59	11.1 / 338	**29**	01:04	6.7 / 204
	12:07	-3.4 / -104		05:34	9.4 / 287
Th	19:28	11.7 / 357	F	12:33	-1.5 / -46
				20:05	11.2 / 341
15	00:51	6.4 / 195	**30**	01:42	6.5 / 198
	05:46	10.9 / 332		06:13	9.1 / 277
F	12:53	-3.5 / -107	Sa	13:09	-1.3 / -40
	20:17	12.0 / 366		20:34	11.2 / 341

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: Seattle (9447130) Time offset in mins (high: 10 low: 11) Height offset in feet (high: *0.97 low: *0.95)

StationId: 9447029
Source: NOAA/NOS/CO-OPS
Station Type: Subordinate
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2018

Times and Heights of High and Low Waters

July

	Time	Height ft	Height cm
	h m		
1	02:20	6.3	192
	06:54	8.8	268
Su	13:46	-1.0	-30
	21:05	11.3	344
2	03:01	6.0	183
	07:39	8.4	256
M	14:25	-0.4	-12
	21:39	11.3	344
3	03:45	5.6	171
	08:28	8.0	244
Tu	15:04	0.3	9
	22:15	11.2	341
4	04:33	5.0	152
	09:26	7.6	232
W	15:46	1.2	37
	22:52	11.2	341
5	05:24	4.3	131
	10:33	7.2	219
Th	16:32	2.3	70
	23:31	11.1	338
6	06:16	3.4	104
	11:52	7.1	216
F	17:24	3.5	107
◑			
7	00:10	11.0	335
	07:07	2.3	70
Sa	13:17	7.4	226
	18:26	4.7	143
8	00:51	10.9	332
	07:56	1.1	34
Su	14:42	8.1	247
	19:36	5.7	174
9	01:33	11.0	335
	08:43	-0.2	-6
M	15:55	9.1	277
	20:47	6.3	192
10	02:17	11.0	335
	09:29	-1.4	-43
Tu	16:53	10.0	305
	21:51	6.6	201
11	03:03	11.1	338
	10:16	-2.4	-73
W	17:43	10.8	329
	22:49	6.7	204
12	03:51	11.2	341
	11:02	-3.1	-94
Th	18:29	11.4	347
	23:44	6.5	198
13	04:42	11.2	341
	11:50	-3.5	-107
F	19:13	11.8	360
●			
14	00:37	6.2	189
	05:35	11.0	335
Sa	12:37	-3.3	-101
	19:56	12.0	366
15	01:31	5.7	174
	06:31	10.6	323
Su	13:25	-2.8	-85
	20:39	12.1	369

	Time	Height ft	Height cm
	h m		
16	02:26	5.0	152
	07:31	10.0	305
M	14:14	-1.8	-55
	21:22	12.1	369
17	03:24	4.3	131
	08:35	9.3	283
Tu	15:03	-0.5	-15
	22:05	12.0	366
18	04:24	3.6	110
	09:46	8.5	259
W	15:54	1.1	34
	22:49	11.7	357
19	05:27	2.8	85
	11:07	7.9	241
Th	16:50	2.8	85
◐	23:33	11.4	347
20	06:30	2.0	61
	12:43	7.8	238
F	17:56	4.3	131
21	00:20	11.0	335
	07:29	1.2	37
Sa	14:28	8.2	250
	19:15	5.6	171
22	01:07	10.6	323
	08:23	0.5	15
Su	15:52	9.0	274
	20:40	6.3	192
23	01:55	10.2	311
	09:10	-0.1	-3
M	16:53	9.8	299
	21:52	6.5	198
24	02:41	9.9	302
	09:51	-0.5	-15
Tu	17:39	10.4	317
	22:49	6.6	201
25	03:25	9.7	296
	10:28	-0.8	-24
W	18:15	10.7	326
	23:33	6.5	198
26	04:06	9.6	293
	11:04	-1.0	-30
Th	18:45	10.8	329
27	00:10	6.3	192
	04:45	9.5	290
F	11:38	-1.0	-30
○	19:09	10.9	332
28	00:41	6.1	186
	05:24	9.4	287
Sa	12:13	-1.0	-30
	19:32	11.0	335
29	01:12	5.8	177
	06:03	9.3	283
Su	12:47	-0.8	-24
	19:57	11.0	335
30	01:44	5.4	165
	06:43	9.1	277
M	13:23	-0.5	-15
	20:24	11.1	338
31	02:19	5.0	152
	07:27	8.9	271
Tu	13:59	0.1	3
	20:54	11.2	341

August

	Time	Height ft	Height cm
	h m		
1	02:58	4.4	134
	08:14	8.6	262
W	14:37	0.9	27
	21:26	11.1	338
2	03:40	3.8	116
	09:08	8.2	250
Th	15:17	2.0	61
	22:00	11.0	335
3	04:27	3.1	94
	10:11	8.0	244
F	16:00	3.2	98
	22:37	10.9	332
4	05:19	2.3	70
	11:25	7.8	238
Sa	16:51	4.5	137
◑	23:17	10.7	326
5	06:15	1.4	43
	12:51	8.0	244
Su	17:56	5.6	171
6	00:03	10.6	323
	07:12	0.5	15
M	14:24	8.6	262
	19:16	6.4	195
7	00:55	10.5	320
	08:09	-0.5	-15
Tu	15:41	9.4	287
	20:36	6.7	204
8	01:50	10.6	323
	09:04	-1.5	-46
W	16:38	10.2	311
	21:43	6.6	201
9	02:47	10.7	326
	09:56	-2.2	-67
Th	17:24	10.9	332
	22:40	6.2	189
10	03:43	10.9	332
	10:45	-2.6	-79
F	18:05	11.3	344
	23:30	5.6	171
11	04:38	11.0	335
	11:34	-2.7	-82
Sa	18:43	11.7	357
●			
12	00:19	4.9	149
	05:34	10.9	332
Su	12:21	-2.3	-70
	19:21	11.8	360
13	01:08	4.2	128
	06:31	10.7	326
M	13:08	-1.6	-49
	19:59	11.9	363
14	01:58	3.4	104
	07:29	10.2	311
Tu	13:54	-0.4	-12
	20:38	11.8	360
15	02:49	2.7	82
	08:30	9.6	293
W	14:42	1.0	30
	21:17	11.5	351

	Time	Height ft	Height cm
	h m		
16	03:41	2.2	67
	09:37	9.0	274
Th	15:31	2.5	76
	21:58	11.1	338
17	04:37	1.7	52
	10:52	8.6	262
F	16:27	4.1	125
	22:42	10.6	323
18	05:35	1.4	43
	12:24	8.4	256
Sa	17:37	5.4	165
◐	23:31	10.1	308
19	06:36	1.1	34
	14:07	8.8	268
Su	19:09	6.2	189
20	00:26	9.5	290
	07:36	0.8	24
M	15:29	9.4	287
	20:43	6.4	195
21	01:25	9.2	280
	08:31	0.5	15
Tu	16:25	9.9	302
	21:51	6.3	192
22	02:22	9.1	277
	09:20	0.3	9
W	17:06	10.3	314
	22:39	6.0	183
23	03:14	9.1	277
	10:02	0.0	0
Th	17:38	10.5	320
	23:15	5.7	174
24	03:59	9.2	280
	10:40	-0.1	-3
F	18:03	10.6	323
	23:44	5.3	162
25	04:40	9.3	283
	11:16	-0.2	-6
Sa	18:24	10.6	323
26	00:09	5.0	152
	05:18	9.4	287
Su	11:50	-0.1	-3
○	18:45	10.7	326
27	00:35	4.5	137
	05:57	9.5	290
M	12:25	0.2	6
	19:08	10.8	329
28	01:05	3.9	119
	06:37	9.5	290
Tu	12:59	0.6	18
	19:34	10.9	332
29	01:38	3.3	101
	07:19	9.4	287
W	13:35	1.3	40
	20:03	10.9	332
30	02:15	2.6	79
	08:06	9.3	283
Th	14:13	2.2	67
	20:34	10.8	329
31	02:56	2.0	61
	08:58	9.1	277
F	14:54	3.2	98
	21:07	10.6	323

September

	Time	Height ft	Height cm
	h m		
1	03:41	1.5	46
	09:58	8.9	271
Sa	15:39	4.4	134
	21:45	10.4	317
2	04:33	1.0	30
	11:09	8.8	268
Su	16:35	5.5	168
	22:29	10.1	308
3	05:31	0.5	15
	12:34	8.9	271
M	17:49	6.3	192
◑	23:24	9.8	299
4	06:34	0.1	3
	14:05	9.3	283
Tu	19:19	6.7	204
5	00:29	9.7	296
	07:39	-0.4	-12
W	15:19	9.9	302
	20:40	6.4	195
6	01:39	9.8	299
	08:41	-0.9	-27
Th	16:11	10.5	320
	21:41	5.8	177
7	02:45	10.1	308
	09:37	-1.3	-40
F	16:52	11.0	335
	22:31	4.9	149
8	03:46	10.4	317
	10:29	-1.4	-43
Sa	17:28	11.3	344
	23:16	4.0	122
9	04:43	10.7	326
	11:17	-1.2	-37
Su	18:03	11.5	351
●			
10	00:00	3.0	91
	05:38	10.8	329
M	12:04	-0.5	-15
	18:37	11.5	351
11	00:43	2.2	67
	06:33	10.7	326
Tu	12:49	0.4	12
	19:12	11.5	351
12	01:27	1.5	46
	07:28	10.5	320
W	13:35	1.6	49
	19:47	11.2	341
13	02:11	1.0	30
	08:25	10.1	308
Th	14:22	2.9	88
	20:24	10.8	329
14	02:57	0.7	21
	09:26	9.8	299
F	15:12	4.1	125
	21:04	10.3	314
15	03:45	0.7	21
	10:34	9.4	287
Sa	16:11	5.3	162
	21:48	9.6	293

	Time	Height ft	Height cm
	h m		
16	04:37	0.9	27
	11:54	9.3	283
Su	17:29	6.1	186
◐	22:41	8.9	271
17	05:36	1.1	34
	13:25	9.4	287
M	19:15	6.4	195
	23:45	8.4	256
18	06:39	1.3	40
	14:42	9.7	296
Tu	20:43	6.1	186
19	00:57	8.1	247
	07:43	1.3	40
W	15:36	10.0	305
	21:39	5.6	171
20	02:05	8.2	250
	08:41	1.2	37
Th	16:15	10.2	311
	22:17	5.1	155
21	03:03	8.5	259
	09:29	1.1	34
F	16:43	10.3	314
	22:46	4.6	140
22	03:52	8.8	268
	10:11	1.0	30
Sa	17:06	10.4	317
	23:10	4.0	122
23	04:34	9.2	280
	10:49	1.1	34
Su	17:27	10.5	320
	23:33	3.4	104
24	05:13	9.5	290
	11:24	1.3	40
M	17:50	10.6	323
	23:59	2.7	82
25	05:52	9.7	296
	11:59	1.7	52
Tu	18:14	10.7	326
○			
26	00:28	2.0	61
	06:32	10.0	305
W	12:35	2.3	70
	18:41	10.7	326
27	01:01	1.2	37
	07:15	10.1	308
Th	13:13	3.0	91
	19:10	10.7	326
28	01:38	0.6	18
	08:02	10.2	311
F	13:54	3.9	119
	19:42	10.5	320
29	02:19	0.1	3
	08:54	10.1	308
Sa	14:39	4.8	146
	20:17	10.2	311
30	03:05	-0.2	-6
	09:53	10.0	305
Su	15:31	5.6	171
	20:58	9.9	302

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: Seattle (9447130) Time offset in mins (high: 10 low: 11) Height offset in feet (high: *0.97 low: *0.95)

StationId: 9447029
Source: NOAA/NOS/CO-OPS
Station Type: Subordinate
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2018

Times and Heights of High and Low Waters

October

	Time	Height (ft)	Height (cm)
1 M	03:57	-0.2	-6
	11:02	9.9	302
	16:36	6.3	192
	21:49	9.4	287
2 Tu ◑	04:56	-0.1	-3
	12:21	9.9	302
	18:01	6.6	201
	22:57	9.0	274
3 W	06:02	0.0	0
	13:41	10.1	308
	19:33	6.3	192
4 Th	00:18	8.8	268
	07:12	0.1	3
	14:45	10.5	320
	20:43	5.5	168
5 F	01:39	8.9	271
	08:18	0.1	3
	15:33	10.9	332
	21:35	4.4	134
6 Sa	02:51	9.4	287
	09:17	0.2	6
	16:12	11.2	341
	22:19	3.2	98
7 Su	03:55	9.9	302
	10:11	0.5	15
	16:46	11.4	347
	23:00	2.1	64
8 M	04:52	10.3	314
	10:59	1.0	30
	17:18	11.4	347
	23:39	1.1	34
9 Tu ●	05:46	10.7	326
	11:46	1.8	55
	17:50	11.4	347
10 W	00:18	0.3	9
	06:38	10.8	329
	12:31	2.8	85
	18:23	11.2	341
11 Th	00:56	-0.3	-9
	07:29	10.8	329
	13:17	3.8	116
	18:57	10.8	329
12 F	01:36	-0.5	-15
	08:21	10.8	329
	14:06	4.7	143
	19:33	10.2	311
13 Sa	02:16	-0.4	-12
	09:15	10.6	323
	14:58	5.6	171
	20:12	9.6	293
14 Su	02:59	-0.1	-3
	10:13	10.4	317
	16:01	6.2	189
	20:56	8.8	268
15 M	03:46	0.4	12
	11:17	10.2	311
	17:25	6.5	198
	21:50	8.1	247
16 Tu ◐	04:39	1.0	30
	12:27	10.1	308
	19:11	6.3	192
	23:00	7.6	232
17 W	05:40	1.6	49
	13:34	10.1	308
	20:25	5.7	174
18 Th	00:22	7.3	223
	06:46	2.0	61
	14:27	10.2	311
	21:11	5.0	152
19 F	01:41	7.5	229
	07:50	2.2	67
	15:06	10.3	314
	21:44	4.3	131
20 Sa	02:46	7.9	241
	08:45	2.3	70
	15:37	10.5	320
	22:09	3.6	110
21 Su	03:39	8.5	259
	09:33	2.5	76
	16:03	10.6	323
	22:32	2.8	85
22 M	04:25	9.0	274
	10:15	2.7	82
	16:28	10.7	326
	22:56	1.9	58
23 Tu	05:07	9.6	293
	10:54	3.1	94
	16:54	10.8	329
	23:24	1.0	30
24 W ○	05:48	10.1	308
	11:33	3.6	110
	17:21	10.9	332
	23:55	0.1	3
25 Th	06:29	10.6	323
	12:13	4.2	128
	17:50	10.8	329
26 F	00:30	-0.7	-21
	07:14	10.9	332
	12:55	4.9	149
	18:21	10.7	326
27 Sa	01:09	-1.2	-37
	08:01	11.1	338
	13:40	5.5	168
	18:56	10.5	320
28 Su	01:52	-1.5	-46
	08:53	11.2	341
	14:31	6.1	186
	19:36	10.1	308
29 M	02:38	-1.5	-46
	09:50	11.1	338
	15:31	6.5	198
	20:24	9.6	293
30 Tu	03:30	-1.1	-34
	10:54	11.0	335
	16:44	6.6	201
	21:25	9.0	274
31 W ◑	04:29	-0.5	-15
	12:03	10.9	332
	18:11	6.3	192
	22:45	8.4	256

November

	Time	Height (ft)	Height (cm)
1 Th	05:34	0.2	6
	13:08	11.0	335
	19:33	5.4	165
2 F	00:16	8.1	247
	06:44	0.9	27
	14:04	11.2	341
	20:34	4.2	128
3 Sa	01:45	8.3	253
	07:53	1.5	46
	14:49	11.4	347
	21:22	2.9	88
4 Su	02:03	8.9	271
	07:56	2.1	64
	14:28	11.5	351
	21:03	1.6	49
5 M	03:10	9.6	293
	08:52	2.8	85
	15:02	11.6	354
	21:41	0.5	15
6 Tu	04:07	10.2	311
	09:43	3.5	107
	15:34	11.5	351
	22:18	-0.4	-12
7 W ●	04:59	10.8	329
	10:31	4.3	131
	16:06	11.3	344
	22:53	-1.0	-30
8 Th	05:47	11.1	338
	11:19	5.0	152
	16:39	10.9	332
	23:28	-1.3	-40
9 F	06:33	11.3	344
	12:06	5.7	174
	17:12	10.4	317
10 Sa	00:05	-1.3	-40
	07:18	11.4	347
	12:55	6.2	189
	17:48	9.9	302
11 Su	00:42	-1.1	-34
	08:02	11.3	344
	13:48	6.6	201
	18:27	9.2	280
12 M	01:22	-0.6	-18
	08:49	11.2	341
	14:49	6.7	204
	19:11	8.6	262
13 Tu	02:05	0.0	0
	09:38	11.0	335
	16:04	6.6	201
	20:05	7.9	241
14 W	02:53	0.8	24
	10:30	10.8	329
	17:30	6.2	189
	21:14	7.3	223
15 Th ◐	03:46	1.6	49
	11:23	10.7	326
	18:39	5.6	171
	22:37	7.0	213
16 F	04:45	2.3	70
	12:11	10.7	326
	19:24	4.7	143
17 Sa	00:02	7.0	213
	05:48	3.0	91
	12:53	10.8	329
	19:57	3.8	116
18 Su	01:18	7.5	229
	06:50	3.6	110
	13:29	10.9	332
	20:24	2.8	85
19 M	02:22	8.2	250
	07:46	4.0	122
	14:01	11.0	335
	20:51	1.8	55
20 Tu	03:14	9.0	274
	08:36	4.5	137
	14:31	11.1	338
	21:20	0.6	18
21 W	04:01	9.8	299
	09:23	5.0	152
	15:01	11.1	338
	21:51	-0.4	-12
22 Th	04:44	10.6	323
	10:08	5.5	168
	15:32	11.2	341
	22:26	-1.4	-43
23 F ○	05:28	11.2	341
	10:53	6.0	183
	16:06	11.2	341
	23:05	-2.1	-64
24 Sa	06:13	11.6	354
	11:40	6.4	195
	16:43	11.0	335
	23:46	-2.5	-76
25 Su	07:00	11.9	363
	12:31	6.6	201
	17:25	10.7	326
26 M	00:31	-2.5	-76
	07:50	12.1	369
	13:26	6.8	207
	18:12	10.3	314
27 Tu	01:19	-2.2	-67
	08:43	12.0	366
	14:28	6.7	204
	19:08	9.6	293
28 W	02:11	-1.4	-43
	09:38	11.9	363
	15:40	6.3	192
	20:17	8.8	268
29 Th	03:06	-0.4	-12
	10:34	11.9	363
	16:58	5.5	168
	21:40	8.2	250
30 F ◑	04:07	0.8	24
	11:28	11.8	360
	18:12	4.4	134
	23:14	7.8	238

December

	Time	Height (ft)	Height (cm)
1 Sa	05:14	2.1	64
	12:19	11.8	360
	19:11	3.0	91
2 Su	00:52	8.1	247
	06:25	3.2	98
	13:04	11.8	360
	20:01	1.7	52
3 M	02:18	8.8	268
	07:33	4.2	128
	13:44	11.7	357
	20:43	0.5	15
4 Tu	03:28	9.7	296
	08:37	5.0	152
	14:21	11.6	354
	21:21	-0.5	-15
5 W	04:25	10.5	320
	09:33	5.7	174
	14:56	11.3	344
	21:56	-1.1	-34
6 Th	05:14	11.1	338
	10:25	6.2	189
	15:30	11.0	335
	22:31	-1.5	-46
7 F ●	05:56	11.5	351
	11:14	6.6	201
	16:05	10.6	323
	23:05	-1.6	-49
8 Sa	06:35	11.7	357
	12:01	6.8	207
	16:40	10.2	311
	23:40	-1.5	-46
9 Su	07:10	11.8	360
	12:47	6.9	210
	17:18	9.7	296
10 M	00:16	-1.2	-37
	07:45	11.8	360
	13:34	6.9	210
	17:58	9.2	280
11 Tu	00:54	-0.8	-24
	08:21	11.7	357
	14:23	6.8	207
	18:43	8.7	265
12 W	01:34	-0.1	-3
	08:59	11.6	354
	15:17	6.5	198
	19:34	8.1	247
13 Th	02:16	0.6	18
	09:40	11.5	351
	16:16	6.0	183
	20:35	7.6	232
14 F	03:01	1.6	49
	10:22	11.4	347
	17:16	5.4	165
	21:49	7.1	216
15 Sa ◐	03:51	2.6	79
	11:04	11.3	344
	18:09	4.5	137
	23:13	7.0	213
16 Su	04:47	3.7	113
	11:45	11.2	341
	18:52	3.5	107
17 M	00:40	7.4	226
	05:49	4.7	143
	12:25	11.2	341
	19:30	2.3	70
18 Tu	01:59	8.2	250
	06:55	5.5	168
	13:02	11.2	341
	20:07	1.1	34
19 W	03:03	9.1	277
	07:58	6.1	186
	13:39	11.3	344
	20:43	-0.1	-3
20 Th	03:55	10.1	308
	08:55	6.6	201
	14:16	11.4	347
	21:22	-1.3	-40
21 F	04:40	10.9	332
	09:47	6.9	210
	14:54	11.4	347
	22:02	-2.2	-67
22 Sa ○	05:24	11.6	354
	10:37	7.0	213
	15:36	11.4	347
	22:44	-2.8	-85
23 Su	06:07	12.1	369
	11:28	7.0	213
	16:21	11.3	344
	23:29	-3.0	-91
24 M	06:51	12.4	378
	12:20	6.8	207
	17:10	11.0	335
25 Tu	00:15	-2.9	-88
	07:36	12.6	384
	13:15	6.5	198
	18:05	10.6	323
26 W	01:03	-2.2	-67
	08:22	12.6	384
	14:14	6.0	183
	19:05	9.9	302
27 Th	01:53	-1.2	-37
	09:09	12.5	381
	15:18	5.3	162
	20:15	9.0	274
28 F	02:45	0.2	6
	09:56	12.4	378
	16:26	4.4	134
	21:35	8.3	253
29 Sa ◑	03:41	1.8	55
	10:44	12.2	372
	17:34	3.3	101
	23:10	8.0	244
30 Su	04:44	3.4	104
	11:31	12.0	366
	18:37	2.2	67
31 M	00:56	8.2	250
	05:58	4.9	149
	12:18	11.7	357
	19:32	1.0	30

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: Seattle (9447130) Time offset in mins (high: 10 low: 11) Height offset in feet (high: *0.97 low: *0.95)

NOAA (2017)

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2017

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: 9447029
Source: NOAA/NOS/CO-OPS
Station Type: Subordinate
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2017

Times and Heights of High and Low Waters

January

	Time	Height	
	h m	ft	cm
1	12:27 AM	-1.1	-34
	07:41 AM	12.0	366
Su	01:28 PM	6.3	192
	06:15 PM	9.5	290
2	01:07 AM	-0.7	-21
	08:16 AM	12.1	369
M	02:14 PM	5.8	177
	07:06 PM	9.1	277
3	01:49 AM	0.0	0
	08:53 AM	12.1	369
Tu	03:05 PM	5.2	158
	08:06 PM	8.6	262
4	02:34 AM	1.1	34
	09:33 AM	12.1	369
W	04:00 PM	4.4	134
	09:17 PM	8.2	250
5	03:23 AM	2.4	73
	10:15 AM	12.0	366
Th	04:59 PM	3.3	101
◐	10:42 PM	8.0	244
6	04:20 AM	3.8	116
	10:59 AM	11.9	363
F	05:59 PM	2.1	64
7	12:16 AM	8.2	250
	05:29 AM	5.1	155
Sa	11:47 AM	11.9	363
	06:55 PM	0.8	24
8	01:51 AM	9.0	274
	06:46 AM	6.1	186
Su	12:36 PM	11.8	360
	07:48 PM	-0.4	-12
9	03:09 AM	10.0	305
	08:02 AM	6.7	204
M	01:26 PM	11.8	360
	08:38 PM	-1.4	-43
10	04:08 AM	11.0	335
	09:09 AM	6.8	207
Tu	02:17 PM	11.7	357
	09:26 PM	-2.2	-67
11	04:57 AM	11.7	357
	10:08 AM	6.7	204
W	03:08 PM	11.6	354
	10:12 PM	-2.5	-76
12	05:40 AM	12.2	372
	11:02 AM	6.5	198
Th	03:59 PM	11.4	347
○	10:57 PM	-2.5	-76
13	06:21 AM	12.5	381
	11:53 AM	6.1	186
F	04:50 PM	11.0	335
	11:41 PM	-2.1	-64
14	07:00 AM	12.5	381
	12:43 PM	5.7	174
Sa	05:42 PM	10.5	320
15	12:25 AM	-1.4	-43
	07:37 AM	12.5	381
Su	01:34 PM	5.2	158
	06:36 PM	9.9	302

	Time	Height	
	h m	ft	cm
16	01:09 AM	-0.4	-12
	08:14 AM	12.3	375
M	02:25 PM	4.7	143
	07:32 PM	9.2	280
17	01:52 AM	0.9	27
	08:52 AM	12.1	369
Tu	03:18 PM	4.2	128
	08:34 PM	8.5	259
18	02:37 AM	2.3	70
	09:30 AM	11.7	357
W	04:14 PM	3.7	113
	09:46 PM	8.0	244
19	03:24 AM	3.7	113
	10:10 AM	11.4	347
Th	05:11 PM	3.1	94
◑	11:13 PM	7.8	238
20	04:21 AM	5.2	158
	10:52 AM	10.9	332
F	06:07 PM	2.5	76
21	01:01 AM	8.1	247
	05:34 AM	6.3	192
Sa	11:38 AM	10.6	323
	06:59 PM	1.8	55
22	02:34 AM	8.8	268
	07:04 AM	7.0	213
Su	12:25 PM	10.3	314
	07:44 PM	1.2	37
23	03:35 AM	9.6	293
	08:23 AM	7.3	223
M	01:13 PM	10.1	308
	08:25 PM	0.6	18
24	04:17 AM	10.3	314
	09:21 AM	7.3	223
Tu	01:58 PM	10.0	305
	09:03 PM	0.0	0
25	04:50 AM	10.8	329
	10:03 AM	7.2	219
W	02:40 PM	10.1	308
	09:39 PM	-0.5	-15
26	05:17 AM	11.1	338
	10:38 AM	6.9	210
Th	03:21 PM	10.1	308
	10:16 PM	-0.8	-24
27	05:42 AM	11.4	347
	11:09 AM	6.6	201
F	04:00 PM	10.2	311
	10:52 PM	-1.1	-34
28	06:07 AM	11.7	357
	11:42 AM	6.2	189
Sa	04:41 PM	10.2	311
●	11:30 PM	-1.1	-34
29	06:35 AM	11.9	363
	12:18 PM	5.7	174
Su	05:25 PM	10.2	311
30	12:08 AM	-0.8	-24
	07:05 AM	12.1	369
M	12:57 PM	5.0	152
	06:12 PM	10.0	305
31	12:48 AM	-0.2	-6
	07:37 AM	12.2	372
Tu	01:41 PM	4.3	131
	07:04 PM	9.7	296

February

	Time	Height	
	h m	ft	cm
1	01:29 AM	0.7	21
	08:12 AM	12.2	372
W	02:28 PM	3.5	107
	08:03 PM	9.3	283
2	02:13 AM	2.0	61
	08:50 AM	12.1	369
Th	03:21 PM	2.7	82
	09:11 PM	8.9	271
3	03:01 AM	3.4	104
	09:31 AM	11.9	363
F	04:18 PM	2.0	61
	10:32 PM	8.6	262
4	03:59 AM	4.9	149
	10:18 AM	11.6	354
Sa	05:20 PM	1.2	37
◐			
5	12:11 AM	8.8	268
	05:13 AM	6.1	186
Su	11:10 AM	11.3	344
	06:23 PM	0.4	12
6	01:54 AM	9.4	287
	06:42 AM	6.9	210
M	12:09 PM	11.1	338
	07:24 PM	-0.4	-12
7	03:09 AM	10.3	314
	08:06 AM	7.0	213
Tu	01:10 PM	11.0	335
	08:20 PM	-1.0	-30
8	04:02 AM	11.1	338
	09:13 AM	6.6	201
W	02:10 PM	10.9	332
	09:11 PM	-1.4	-43
9	04:44 AM	11.6	354
	10:07 AM	6.1	186
Th	03:06 PM	10.9	332
	09:59 PM	-1.6	-49
10	05:21 AM	11.9	363
	10:54 AM	5.5	168
F	03:59 PM	10.8	329
	10:43 PM	-1.4	-43
11	05:54 AM	12.0	366
	11:37 AM	5.0	152
Sa	04:49 PM	10.7	326
○	11:25 PM	-0.9	-27
12	06:25 AM	12.0	366
	12:19 PM	4.4	134
Su	05:39 PM	10.4	317
13	12:06 AM	-0.1	-3
	06:56 AM	12.0	366
M	01:00 PM	3.9	119
	06:28 PM	10.0	305
14	12:46 AM	0.8	24
	07:27 AM	11.8	360
Tu	01:42 PM	3.4	104
	07:19 PM	9.5	290
15	01:26 AM	2.0	61
	07:59 AM	11.5	351
W	02:24 PM	3.0	91
	08:14 PM	9.1	277

	Time	Height	
	h m	ft	cm
16	02:07 AM	3.2	98
	08:33 AM	11.2	341
Th	03:09 PM	2.7	82
	09:14 PM	8.7	265
17	02:51 AM	4.5	137
	09:11 AM	10.7	326
F	03:58 PM	2.4	73
	10:26 PM	8.4	256
18	03:43 AM	5.7	174
	09:53 AM	10.2	311
Sa	04:52 PM	2.2	67
◑	11:59 PM	8.4	256
19	04:55 AM	6.7	204
	10:42 AM	9.7	296
Su	05:50 PM	1.9	58
20	01:43 AM	8.9	271
	06:37 AM	7.2	219
M	11:38 AM	9.4	287
	06:48 PM	1.5	46
21	02:52 AM	9.5	290
	08:07 AM	7.2	219
Tu	12:37 PM	9.2	280
	07:41 PM	1.0	30
22	03:36 AM	10.1	308
	09:02 AM	6.9	210
W	01:33 PM	9.3	283
	08:28 PM	0.5	15
23	04:07 AM	10.5	320
	09:39 AM	6.5	198
Th	02:23 PM	9.5	290
	09:10 PM	0.1	3
24	04:33 AM	10.8	329
	10:09 AM	6.0	183
F	03:08 PM	9.8	299
	09:50 PM	-0.3	-9
25	04:57 AM	11.1	338
	10:38 AM	5.4	165
Sa	03:52 PM	10.1	308
	10:29 PM	-0.4	-12
26	05:22 AM	11.4	347
	11:11 AM	4.6	140
Su	04:36 PM	10.4	317
●	11:08 PM	-0.2	-6
27	05:50 AM	11.7	357
	11:47 AM	3.8	116
M	05:22 PM	10.5	320
	11:48 PM	0.2	6
28	06:21 AM	11.8	360
	12:26 PM	2.9	88
Tu	06:12 PM	10.5	320

March

	Time	Height	
	h m	ft	cm
1	12:29 AM	1.0	30
	06:53 AM	11.9	363
W	01:09 PM	2.1	64
	07:05 PM	10.3	314
2	01:12 AM	2.0	61
	07:29 AM	11.9	363
Th	01:55 PM	1.4	43
	08:03 PM	10.0	305
3	01:58 AM	3.2	98
	08:08 AM	11.6	354
F	02:46 PM	0.9	27
	09:10 PM	9.7	296
4	02:51 AM	4.6	140
	08:52 AM	11.2	341
Sa	03:42 PM	0.5	15
	10:29 PM	9.4	287
5	03:55 AM	5.8	177
	09:43 AM	10.7	326
Su	04:45 PM	0.4	12
◐			
6	12:05 AM	9.5	290
	05:19 AM	6.6	201
M	10:45 AM	10.2	311
	05:53 PM	0.2	6
7	01:41 AM	9.9	302
	06:57 AM	6.7	204
Tu	11:56 AM	9.9	302
	07:00 PM	0.0	0
8	02:48 AM	10.5	320
	08:16 AM	6.2	189
W	01:09 PM	9.8	299
	08:02 PM	-0.2	-6
9	03:36 AM	11.0	335
	09:14 AM	5.5	168
Th	02:15 PM	9.9	302
	08:56 PM	-0.2	-6
10	04:15 AM	11.3	344
	09:59 AM	4.7	143
F	03:14 PM	10.1	308
	09:44 PM	-0.1	-3
11	04:46 AM	11.4	347
	10:39 AM	3.9	119
Sa	04:05 PM	10.2	311
	10:28 PM	0.2	6
12	06:14 AM	11.4	347
	12:15 PM	3.3	101
Su	05:53 PM	10.3	314
○			
13	12:08 AM	0.8	24
	06:40 AM	11.4	347
M	12:50 PM	2.7	82
	06:39 PM	10.2	311
14	12:47 AM	1.6	49
	07:07 AM	11.2	341
Tu	01:24 PM	2.1	64
	07:24 PM	10.1	308
15	01:25 AM	2.4	73
	07:36 AM	11.0	335
W	01:59 PM	1.7	52
	08:09 PM	9.9	302

	Time	Height	
	h m	ft	cm
16	02:04 AM	3.4	104
	08:06 AM	10.7	326
Th	02:36 PM	1.5	46
	08:57 PM	9.7	296
17	02:44 AM	4.4	134
	08:39 AM	10.3	314
F	03:15 PM	1.3	40
	09:49 PM	9.5	290
18	03:28 AM	5.3	162
	09:16 AM	9.8	299
Sa	03:59 PM	1.4	43
	10:49 PM	9.3	283
19	04:21 AM	6.1	186
	09:57 AM	9.3	283
Su	04:48 PM	1.5	46
20	12:00 AM	9.1	277
	05:33 AM	6.7	204
M	10:48 AM	8.8	268
◑	05:45 PM	1.6	49
21	01:23 AM	9.2	280
	07:16 AM	6.9	210
Tu	11:52 AM	8.4	256
	06:47 PM	1.6	49
22	02:38 AM	9.5	290
	08:43 AM	6.6	201
W	01:02 PM	8.3	253
	07:50 PM	1.4	43
23	03:28 AM	9.9	302
	09:30 AM	6.1	186
Th	02:08 PM	8.5	259
	08:46 PM	1.1	34
24	04:04 AM	10.3	314
	10:03 AM	5.4	165
F	03:05 PM	8.9	271
	09:35 PM	0.9	27
25	04:33 AM	10.6	323
	10:33 AM	4.6	140
Sa	03:56 PM	9.4	287
	10:20 PM	0.7	21
26	05:01 AM	10.9	332
	11:04 AM	3.6	110
Su	04:44 PM	10.0	305
	11:02 PM	0.8	24
27	05:29 AM	11.2	341
	11:38 AM	2.5	76
M	05:32 PM	10.4	317
	11:45 PM	1.2	37
28	06:00 AM	11.4	347
	12:16 PM	1.5	46
Tu	06:21 PM	10.8	329
●			
29	12:27 AM	1.8	55
	06:33 AM	11.6	354
W	12:56 PM	0.5	15
	07:12 PM	10.9	332
30	01:12 AM	2.6	79
	07:08 AM	11.6	354
Th	01:40 PM	-0.3	-9
	08:07 PM	10.9	332
31	01:59 AM	3.6	110
	07:47 AM	11.4	347
F	02:26 PM	-0.7	-21
	09:06 PM	10.8	329

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: Seattle (9447130) Time offset in mins (high: 10 low: 11) Height offset in feet (high: *0.97 low: *0.95)

StationId: 9447029
Source: NOAA/NOS/CO-OPS
Station Type: Subordinate
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2017

Times and Heights of High and Low Waters

April

	Time	Height ft	Height cm
	h m		
1	02:51 AM	4.6	140
	08:30 AM	11.0	335
Sa	03:17 PM	-0.8	-24
	10:11 PM	10.5	320
2	03:50 AM	5.5	168
	09:19 AM	10.4	317
Su	04:12 PM	-0.6	-18
	11:26 PM	10.3	314
3	05:04 AM	6.1	186
	10:18 AM	9.7	296
M	05:14 PM	-0.2	-6
◐			
4	12:50 AM	10.3	314
	06:37 AM	6.2	189
Tu	11:31 AM	9.1	277
	06:23 PM	0.3	9
5	02:09 AM	10.4	317
	08:08 AM	5.7	174
W	12:54 PM	8.7	265
	07:34 PM	0.7	21
6	03:09 AM	10.7	326
	09:14 AM	4.8	146
Th	02:15 PM	8.8	268
	08:40 PM	1.0	30
7	03:55 AM	10.9	332
	10:03 AM	3.8	116
F	03:26 PM	9.1	277
	09:37 PM	1.2	37
8	04:31 AM	11.0	335
	10:43 AM	2.9	88
Sa	04:25 PM	9.4	287
	10:26 PM	1.6	49
9	05:00 AM	11.0	335
	11:18 AM	2.2	67
Su	05:15 PM	9.7	296
	11:09 PM	2.2	67
10	05:26 AM	10.9	332
	11:49 AM	1.5	46
M	06:00 PM	10.0	305
	11:50 PM	2.8	85
11	05:50 AM	10.8	329
	12:19 PM	0.9	27
Tu	06:41 PM	10.2	311
○			
12	12:28 AM	3.5	107
	06:17 AM	10.6	323
W	12:49 PM	0.5	15
	07:22 PM	10.3	314
13	01:07 AM	4.2	128
	06:45 AM	10.3	314
Th	01:21 PM	0.2	6
	08:02 PM	10.4	317
14	01:46 AM	4.8	146
	07:16 AM	10.0	305
F	01:55 PM	0.0	0
	08:45 PM	10.4	317
15	02:28 AM	5.4	165
	07:49 AM	9.6	293
Sa	02:33 PM	0.1	3
	09:31 PM	10.3	314
16	03:14 AM	6.0	183
	08:25 AM	9.1	277
Su	03:14 PM	0.3	9
	10:21 PM	10.1	308
17	04:09 AM	6.4	195
	09:07 AM	8.5	259
M	04:00 PM	0.6	18
	11:18 PM	10.0	305
18	05:19 AM	6.5	198
	10:00 AM	8.0	244
Tu	04:53 PM	1.0	30
19	12:21 AM	9.9	302
	06:46 AM	6.4	195
W	11:09 AM	7.6	232
◑	05:52 PM	1.4	43
20	01:22 AM	10.0	305
	08:00 AM	5.9	180
Th	12:27 PM	7.5	229
	06:56 PM	1.6	49
21	02:13 AM	10.2	311
	08:46 AM	5.1	155
F	01:41 PM	7.8	238
	07:57 PM	1.8	55
22	02:54 AM	10.4	317
	09:22 AM	4.1	125
Sa	02:46 PM	8.3	253
	08:53 PM	1.9	58
23	03:30 AM	10.7	326
	09:56 AM	2.9	88
Su	03:44 PM	9.0	274
	09:44 PM	2.1	64
24	04:03 AM	11.0	335
	10:30 AM	1.6	49
M	04:38 PM	9.8	299
	10:33 PM	2.5	76
25	04:36 AM	11.3	344
	11:08 AM	0.4	12
Tu	05:29 PM	10.5	320
	11:20 PM	3.0	91
26	05:10 AM	11.4	347
	11:47 AM	-0.8	-24
W	06:21 PM	11.0	335
●			
27	12:08 AM	3.6	110
	05:47 AM	11.5	351
Th	12:30 PM	-1.7	-52
	07:14 PM	11.4	347
28	12:57 AM	4.3	131
	06:27 AM	11.3	344
F	01:15 PM	-2.2	-67
	08:10 PM	11.5	351
29	01:50 AM	5.0	152
	07:10 AM	10.9	332
Sa	02:02 PM	-2.3	-70
	09:07 PM	11.5	351
30	02:48 AM	5.5	168
	07:58 AM	10.4	317
Su	02:53 PM	-1.9	-58
	10:09 PM	11.3	344

May

	Time	Height ft	Height cm
	h m		
1	03:54 AM	5.9	180
	08:54 AM	9.6	293
M	03:47 PM	-1.3	-40
	11:15 PM	11.1	338
2	05:13 AM	5.9	180
	10:01 AM	8.8	268
Tu	04:46 PM	-0.3	-9
3	12:23 AM	11.0	335
	06:41 AM	5.4	165
W	11:21 AM	8.1	247
◐	05:52 PM	0.6	18
4	01:26 AM	11.0	335
	07:58 AM	4.5	137
Th	12:51 PM	7.8	238
	07:02 PM	1.5	46
5	02:20 AM	11.0	335
	08:56 AM	3.4	104
F	02:19 PM	8.0	244
	08:10 PM	2.3	70
6	03:03 AM	10.9	332
	09:42 AM	2.4	73
Sa	03:34 PM	8.5	259
	09:11 PM	2.9	88
7	03:39 AM	10.9	332
	10:19 AM	1.5	46
Su	04:34 PM	9.0	274
	10:04 PM	3.5	107
8	04:08 AM	10.7	326
	10:51 AM	0.7	21
M	05:24 PM	9.5	290
	10:50 PM	4.1	125
9	04:35 AM	10.6	323
	11:20 AM	0.1	3
Tu	06:08 PM	10.0	305
	11:33 PM	4.7	143
10	05:02 AM	10.4	317
	11:49 AM	-0.3	-9
W	06:46 PM	10.3	314
○			
11	12:13 AM	5.2	158
	05:29 AM	10.1	308
Th	12:18 PM	-0.7	-21
	07:22 PM	10.6	323
12	12:53 AM	5.6	171
	05:59 AM	9.8	299
F	12:49 PM	-0.9	-27
	07:58 PM	10.7	326
13	01:34 AM	6.0	183
	06:32 AM	9.5	290
Sa	01:23 PM	-0.9	-27
	08:35 PM	10.8	329
14	02:16 AM	6.2	189
	07:06 AM	9.1	277
Su	02:00 PM	-0.8	-24
	09:15 PM	10.9	332
15	03:03 AM	6.4	195
	07:44 AM	8.7	265
M	02:40 PM	-0.5	-15
	09:59 PM	10.8	329
16	03:55 AM	6.4	195
	08:28 AM	8.2	250
Tu	03:24 PM	-0.1	-3
	10:46 PM	10.7	326
17	04:56 AM	6.2	189
	09:22 AM	7.7	235
W	04:12 PM	0.5	15
	11:35 PM	10.7	326
18	06:03 AM	5.8	177
	10:32 AM	7.3	223
Th	05:06 PM	1.1	34
19	12:24 AM	10.7	326
	07:06 AM	5.1	155
F	11:52 AM	7.1	216
◑	06:05 PM	1.8	55
20	01:11 AM	10.8	329
	07:56 AM	4.1	125
Sa	01:13 PM	7.4	226
	07:08 PM	2.5	76
21	01:53 AM	10.9	332
	08:39 AM	2.8	85
Su	02:28 PM	8.0	244
	08:10 PM	3.1	94
22	02:32 AM	11.1	338
	09:19 AM	1.4	43
M	03:34 PM	8.8	268
	09:08 PM	3.7	113
23	03:10 AM	11.3	344
	09:59 AM	0.0	0
Tu	04:34 PM	9.7	296
	10:04 PM	4.2	128
24	03:48 AM	11.5	351
	10:40 AM	-1.4	-43
W	05:29 PM	10.6	323
	10:58 PM	4.8	146
25	04:27 AM	11.6	354
	11:23 AM	-2.4	-73
Th	06:23 PM	11.2	341
●	11:51 PM	5.3	162
26	05:09 AM	11.5	351
	12:07 PM	-3.1	-94
F	07:16 PM	11.7	357
27	12:45 AM	5.6	171
	05:54 AM	11.2	341
Sa	12:54 PM	-3.3	-101
	08:09 PM	11.9	363
28	01:42 AM	5.9	180
	06:43 AM	10.7	326
Su	01:42 PM	-3.0	-91
	09:03 PM	12.0	366
29	02:43 AM	5.9	180
	07:37 AM	10.0	305
M	02:32 PM	-2.4	-73
	09:57 PM	11.9	363
30	03:50 AM	5.7	174
	08:38 AM	9.2	280
Tu	03:24 PM	-1.4	-43
	10:51 PM	11.7	357
31	05:04 AM	5.3	162
	09:48 AM	8.3	253
W	04:19 PM	-0.1	-3
	11:45 PM	11.5	351

June

	Time	Height ft	Height cm
	h m		
1	06:20 AM	4.5	137
	11:09 AM	7.6	232
Th	05:19 PM	1.2	37
◐			
2	12:37 AM	11.3	344
	07:29 AM	3.5	107
F	12:41 PM	7.4	226
	06:24 PM	2.5	76
3	01:25 AM	11.1	338
	08:25 AM	2.5	76
Sa	02:15 PM	7.6	232
	07:33 PM	3.6	110
4	02:08 AM	11.0	335
	09:10 AM	1.5	46
Su	03:35 PM	8.2	250
	08:41 PM	4.5	137
5	02:45 AM	10.8	329
	09:48 AM	0.7	21
M	04:39 PM	9.0	274
	09:41 PM	5.1	155
6	03:18 AM	10.5	320
	10:21 AM	0.0	0
Tu	05:30 PM	9.6	293
	10:33 PM	5.7	174
7	03:49 AM	10.3	314
	10:51 AM	-0.5	-15
W	06:12 PM	10.1	308
	11:20 PM	6.1	186
8	04:20 AM	10.1	308
	11:20 AM	-0.9	-27
Th	06:47 PM	10.5	320
9	12:02 AM	6.3	192
	04:51 AM	9.8	299
F	11:51 AM	-1.2	-37
○	07:19 PM	10.8	329
10	12:42 AM	6.5	198
	05:24 AM	9.6	293
Sa	12:23 PM	-1.4	-43
	07:50 PM	11.0	335
11	01:21 AM	6.6	201
	05:59 AM	9.3	283
Su	12:58 PM	-1.4	-43
	08:22 PM	11.1	338
12	02:01 AM	6.5	198
	06:37 AM	9.0	274
M	01:35 PM	-1.3	-40
	08:56 PM	11.2	341
13	02:44 AM	6.4	195
	07:18 AM	8.7	265
Tu	02:15 PM	-1.0	-30
	09:33 PM	11.3	344
14	03:30 AM	6.1	186
	08:04 AM	8.3	253
W	02:56 PM	-0.5	-15
	10:13 PM	11.3	344
15	04:21 AM	5.7	174
	08:59 AM	7.8	238
Th	03:40 PM	0.3	9
	10:54 PM	11.3	344
16	05:16 AM	5.0	152
	10:06 AM	7.4	226
F	04:29 PM	1.2	37
	11:35 PM	11.3	344
17	06:13 AM	4.2	128
	11:24 AM	7.2	219
Sa	05:23 PM	2.3	70
◑			
18	12:18 AM	11.3	344
	07:07 AM	3.0	91
Su	12:49 PM	7.4	226
	06:24 PM	3.4	104
19	01:00 AM	11.3	344
	07:58 AM	1.7	52
M	02:13 PM	8.0	244
	07:31 PM	4.4	134
20	01:43 AM	11.4	347
	08:45 AM	0.2	6
Tu	03:29 PM	8.9	271
	08:38 PM	5.1	155
21	02:26 AM	11.5	351
	09:31 AM	-1.1	-34
W	04:34 PM	9.8	299
	09:42 PM	5.7	174
22	03:10 AM	11.6	354
	10:17 AM	-2.3	-70
Th	05:31 PM	10.7	326
	10:42 PM	6.0	183
23	03:56 AM	11.6	354
	11:03 AM	-3.1	-94
F	06:22 PM	11.4	347
	11:39 PM	6.1	186
24	04:44 AM	11.4	347
	11:49 AM	-3.4	-104
Sa	07:11 PM	11.8	360
●			
25	12:35 AM	6.1	186
	05:34 AM	11.1	338
Su	12:36 PM	-3.4	-104
	07:59 PM	12.1	369
26	01:31 AM	5.9	180
	06:28 AM	10.6	323
M	01:24 PM	-2.9	-88
	08:45 PM	12.1	369
27	02:29 AM	5.5	168
	07:24 AM	9.9	302
Tu	02:12 PM	-2.1	-64
	09:31 PM	12.1	369
28	03:30 AM	5.0	152
	08:26 AM	9.1	277
W	03:01 PM	-0.9	-27
	10:16 PM	11.9	363
29	04:33 AM	4.4	134
	09:33 AM	8.3	253
Th	03:51 PM	0.5	15
	11:00 PM	11.7	357
30	05:38 AM	3.7	113
	10:50 AM	7.6	232
F	04:45 PM	2.0	61
	11:45 PM	11.4	347

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: Seattle (9447130) Time offset in mins (high: 10 low: 11) Height offset in feet (high: *0.97 low: *0.95)

StationId: 9447029
Source: NOAA/NOS/CO-OPS
Station Type: Subordinate
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2017

Times and Heights of High and Low Waters

July

	Time	Height (ft)	Height (cm)
1 Sa ◐	06:42 AM	2.9	88
	12:19 PM	7.3	223
	05:45 PM	3.5	107
2 Su	12:29 AM	11.0	335
	07:39 AM	2.0	61
	01:59 PM	7.6	232
	06:55 PM	4.8	146
3 M	01:13 AM	10.7	326
	08:28 AM	1.2	37
	03:28 PM	8.3	253
	08:11 PM	5.7	174
4 Tu	01:55 AM	10.4	317
	09:10 AM	0.5	15
	04:34 PM	9.1	277
	09:22 PM	6.2	189
5 W	02:35 AM	10.2	311
	09:47 AM	-0.1	-3
	05:23 PM	9.7	296
	10:21 PM	6.5	198
6 Th	03:13 AM	10.0	305
	10:21 AM	-0.6	-18
	06:03 PM	10.2	311
	11:09 PM	6.6	201
7 F	03:50 AM	9.8	299
	10:53 AM	-0.9	-27
	06:35 PM	10.6	323
	11:49 PM	6.7	204
8 Sa	04:27 AM	9.7	296
	11:27 AM	-1.2	-37
	07:02 PM	10.8	329
9 Su ○	12:25 AM	6.6	201
	05:04 AM	9.5	290
	12:01 PM	-1.4	-43
	07:29 PM	11.0	335
10 M	12:59 AM	6.4	195
	05:41 AM	9.4	287
	12:37 PM	-1.4	-43
	07:56 PM	11.2	341
11 Tu	01:34 AM	6.1	186
	06:21 AM	9.2	280
	01:14 PM	-1.3	-40
	08:27 PM	11.3	344
12 W	02:13 AM	5.8	177
	07:04 AM	9.0	274
	01:52 PM	-0.9	-27
	08:59 PM	11.4	347
13 Th	02:55 AM	5.3	162
	07:52 AM	8.7	265
	02:32 PM	-0.3	-9
	09:34 PM	11.5	351
14 F	03:41 AM	4.6	140
	08:47 AM	8.3	253
	03:14 PM	0.6	18
	10:10 PM	11.5	351
15 Sa	04:31 AM	3.9	119
	09:51 AM	7.9	241
	03:59 PM	1.8	55
	10:49 PM	11.4	347
16 Su ◑	05:25 AM	3.0	91
	11:06 AM	7.7	235
	04:51 PM	3.1	94
	11:31 PM	11.3	344
17 M	06:22 AM	1.9	58
	12:32 PM	7.8	238
	05:53 PM	4.4	134
18 Tu	12:16 AM	11.3	344
	07:20 AM	0.8	24
	02:04 PM	8.3	253
	07:06 PM	5.5	168
19 W	01:04 AM	11.2	341
	08:15 AM	-0.4	-12
	03:28 PM	9.1	277
	08:23 PM	6.1	186
20 Th	01:55 AM	11.2	341
	09:08 AM	-1.5	-46
	04:34 PM	10.0	305
	09:33 PM	6.4	195
21 F	02:48 AM	11.2	341
	09:58 AM	-2.3	-70
	05:27 PM	10.8	329
	10:35 PM	6.3	192
22 Sa	03:41 AM	11.2	341
	10:46 AM	-2.8	-85
	06:12 PM	11.3	344
	11:31 PM	6.0	183
23 Su ●	04:34 AM	11.1	338
	11:34 AM	-2.9	-88
	06:54 PM	11.7	357
24 M	12:23 AM	5.6	171
	05:27 AM	10.8	329
	12:20 PM	-2.7	-82
	07:34 PM	11.8	360
25 Tu	01:14 AM	5.0	152
	06:21 AM	10.4	317
	01:06 PM	-2.0	-61
	08:13 PM	11.9	363
26 W	02:04 AM	4.5	137
	07:17 AM	9.9	302
	01:51 PM	-1.1	-34
	08:52 PM	11.8	360
27 Th	02:56 AM	4.0	122
	08:15 AM	9.3	283
	02:37 PM	0.2	6
	09:30 PM	11.6	354
28 F	03:49 AM	3.4	104
	09:17 AM	8.6	262
	03:23 PM	1.6	49
	10:09 PM	11.3	344
29 Sa	04:43 AM	2.9	88
	10:26 AM	8.0	244
	04:12 PM	3.0	91
	10:50 PM	10.9	332
30 Su ◐	05:40 AM	2.4	73
	11:48 AM	7.7	235
	05:09 PM	4.5	137
	11:33 PM	10.5	320
31 M	06:38 AM	1.9	58
	01:27 PM	7.9	241
	06:20 PM	5.6	171

August

	Time	Height (ft)	Height (cm)
1 Tu	12:20 AM	10.0	305
	07:33 AM	1.4	43
	03:04 PM	8.4	256
	07:49 PM	6.4	195
2 W	01:09 AM	9.7	296
	08:24 AM	0.9	27
	04:11 PM	9.2	280
	09:11 PM	6.6	201
3 Th	01:59 AM	9.5	290
	09:09 AM	0.4	12
	04:58 PM	9.7	296
	10:10 PM	6.6	201
4 F	02:47 AM	9.4	287
	09:49 AM	-0.1	-3
	05:34 PM	10.2	311
	10:54 PM	6.4	195
5 Sa	03:31 AM	9.4	287
	10:27 AM	-0.5	-15
	06:02 PM	10.4	317
	11:28 PM	6.2	189
6 Su	04:13 AM	9.5	290
	11:03 AM	-0.8	-24
	06:27 PM	10.7	326
	11:58 PM	5.9	180
7 M ○	04:52 AM	9.6	293
	11:39 AM	-0.9	-27
	06:51 PM	10.8	329
8 Tu	12:28 AM	5.5	168
	05:32 AM	9.6	293
	12:15 PM	-0.9	-27
	07:16 PM	11.0	335
9 W	01:01 AM	5.0	152
	06:13 AM	9.6	293
	12:52 PM	-0.7	-21
	07:45 PM	11.2	341
10 Th	01:37 AM	4.4	134
	06:58 AM	9.5	290
	01:30 PM	-0.2	-6
	08:15 PM	11.3	344
11 F	02:17 AM	3.7	113
	07:47 AM	9.3	283
	02:10 PM	0.6	18
	08:48 PM	11.4	347
12 Sa	03:01 AM	3.0	91
	08:41 AM	9.0	274
	02:52 PM	1.7	52
	09:24 PM	11.3	344
13 Su	03:50 AM	2.3	70
	09:44 AM	8.7	265
	03:38 PM	2.9	88
	10:03 PM	11.2	341
14 M	04:43 AM	1.6	49
	10:56 AM	8.5	259
	04:32 PM	4.3	131
	10:48 PM	10.9	332
15 Tu ◑	05:42 AM	0.9	27
	12:22 PM	8.5	259
	05:39 PM	5.4	165
	11:39 PM	10.7	326
16 W	06:45 AM	0.2	6
	01:59 PM	8.9	271
	07:02 PM	6.2	189
17 Th	12:37 AM	10.5	320
	07:48 AM	-0.5	-15
	03:23 PM	9.6	293
	08:26 PM	6.4	195
18 F	01:39 AM	10.4	317
	08:47 AM	-1.1	-34
	04:23 PM	10.3	314
	09:36 PM	6.1	186
19 Sa	02:41 AM	10.5	320
	09:42 AM	-1.6	-49
	05:09 PM	10.8	329
	10:33 PM	5.5	168
20 Su	03:40 AM	10.6	323
	10:32 AM	-1.8	-55
	05:48 PM	11.2	341
	11:22 PM	4.9	149
21 M ●	04:35 AM	10.6	323
	11:19 AM	-1.7	-52
	06:23 PM	11.4	347
22 Tu	12:07 AM	4.2	128
	05:28 AM	10.6	323
	12:04 PM	-1.2	-37
	06:57 PM	11.5	351
23 W	12:50 AM	3.6	110
	06:20 AM	10.3	314
	12:47 PM	-0.5	-15
	07:30 PM	11.4	347
24 Th	01:33 AM	3.0	91
	07:12 AM	10.0	305
	01:30 PM	0.5	15
	08:03 PM	11.2	341
25 F	02:16 AM	2.5	76
	08:04 AM	9.6	293
	02:13 PM	1.7	52
	08:37 PM	11.0	335
26 Sa	03:00 AM	2.1	64
	09:00 AM	9.2	280
	02:56 PM	2.9	88
	09:13 PM	10.6	323
27 Su	03:46 AM	1.9	58
	10:01 AM	8.8	268
	03:44 PM	4.2	128
	09:52 PM	10.1	308
28 M	04:35 AM	1.8	55
	11:12 AM	8.5	259
	04:41 PM	5.3	162
	10:36 PM	9.6	293
29 Tu ◐	05:29 AM	1.7	52
	12:39 PM	8.5	259
	05:57 PM	6.2	189
	11:28 PM	9.1	277
30 W	06:28 AM	1.6	49
	02:14 PM	8.8	268
	07:39 PM	6.5	198
31 Th	12:27 AM	8.7	265
	07:28 AM	1.3	40
	03:25 PM	9.3	283
	09:02 PM	6.4	195

September

	Time	Height (ft)	Height (cm)
1 F	01:29 AM	8.6	262
	08:24 AM	1.0	30
	04:11 PM	9.7	296
	09:53 PM	6.1	186
2 Sa	02:27 AM	8.7	265
	09:13 AM	0.6	18
	04:45 PM	10.0	305
	10:29 PM	5.7	174
3 Su	03:17 AM	9.0	274
	09:56 AM	0.3	9
	05:12 PM	10.3	314
	10:57 PM	5.2	158
4 M	04:02 AM	9.3	283
	10:35 AM	0.1	3
	05:35 PM	10.5	320
	11:24 PM	4.7	143
5 Tu	04:44 AM	9.6	293
	11:13 AM	0.0	0
	06:00 PM	10.7	326
	11:53 PM	4.0	122
6 W ○	05:25 AM	9.8	299
	11:51 AM	0.2	6
	06:26 PM	10.9	332
7 Th	12:26 AM	3.2	98
	06:08 AM	10.0	305
	12:29 PM	0.6	18
	06:55 PM	11.1	338
8 F	01:02 AM	2.4	73
	06:54 AM	10.1	308
	01:09 PM	1.2	37
	07:26 PM	11.2	341
9 Sa	01:42 AM	1.6	49
	07:44 AM	10.1	308
	01:51 PM	2.1	64
	08:00 PM	11.1	338
10 Su	02:26 AM	1.0	30
	08:39 AM	9.9	302
	02:36 PM	3.2	98
	08:38 PM	10.9	332
11 M	03:14 AM	0.5	15
	09:41 AM	9.7	296
	03:26 PM	4.3	131
	09:20 PM	10.6	323
12 Tu	04:08 AM	0.2	6
	10:53 AM	9.4	287
	04:27 PM	5.4	165
	10:10 PM	10.2	311
13 W ◑	05:07 AM	0.1	3
	12:17 PM	9.4	287
	05:45 PM	6.1	186
	11:11 PM	9.8	299
14 Th	06:14 AM	0.0	0
	01:48 PM	9.7	296
	07:18 PM	6.2	189
15 F	12:23 AM	9.5	290
	07:22 AM	-0.1	-3
	03:02 PM	10.2	311
	08:39 PM	5.8	177
16 Sa	01:38 AM	9.4	287
	08:27 AM	-0.2	-6
	03:55 PM	10.6	323
	09:40 PM	5.0	152
17 Su	02:47 AM	9.6	293
	09:25 AM	-0.3	-9
	04:37 PM	10.9	332
	10:27 PM	4.1	125
18 M	03:49 AM	9.9	302
	10:17 AM	-0.2	-6
	05:11 PM	11.1	338
	11:09 PM	3.3	101
19 Tu	04:44 AM	10.2	311
	11:03 AM	0.2	6
	05:42 PM	11.1	338
	11:47 PM	2.5	76
20 W ●	05:34 AM	10.3	314
	11:47 AM	0.8	24
	06:11 PM	11.1	338
21 Th	12:24 AM	1.9	58
	06:22 AM	10.3	314
	12:28 PM	1.6	49
	06:40 PM	10.9	332
22 F	01:00 AM	1.3	40
	07:09 AM	10.2	311
	01:09 PM	2.5	76
	07:10 PM	10.7	326
23 Sa	01:37 AM	1.0	30
	07:57 AM	10.1	308
	01:51 PM	3.5	107
	07:43 PM	10.3	314
24 Su	02:14 AM	0.8	24
	08:46 AM	9.9	302
	02:35 PM	4.4	134
	08:17 PM	9.9	302
25 M	02:54 AM	0.8	24
	09:39 AM	9.7	296
	03:23 PM	5.3	162
	08:55 PM	9.3	283
26 Tu	03:38 AM	0.9	27
	10:38 AM	9.5	290
	04:22 PM	6.0	183
	09:40 PM	8.7	265
27 W	04:27 AM	1.2	37
	11:47 AM	9.3	283
	05:43 PM	6.4	195
	10:35 PM	8.2	250
28 Th ◐	05:24 AM	1.5	46
	01:05 PM	9.4	287
	07:30 PM	6.4	195
	11:44 PM	7.8	238
29 F	06:27 AM	1.7	52
	02:14 PM	9.6	293
	08:43 PM	6.0	183
30 Sa	12:58 AM	7.8	238
	07:31 AM	1.7	52
	03:04 PM	9.9	302
	09:25 PM	5.4	165

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: Seattle (9447130) Time offset in mins (high: 10 low: 11) Height offset in feet (high: *0.97 low: *0.95)

StationId: 9447029
Source: NOAA/NOS/CO-OPS
Station Type: Subordinate
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Duwamish Waterway, Eighth Ave. South, WA,2017

Times and Heights of High and Low Waters

October

	Time	Height (ft)	Height (cm)
	h m		
1	02:05 AM	8.0	244
	08:28 AM	1.5	46
Su	03:40 PM	10.1	308
	09:55 PM	4.7	143
2	03:01 AM	8.5	259
	09:18 AM	1.4	43
M	04:10 PM	10.4	317
	10:21 PM	4.0	122
3	03:50 AM	9.0	274
	10:02 AM	1.3	40
Tu	04:37 PM	10.7	326
	10:49 PM	3.1	94
4	04:35 AM	9.6	293
	10:44 AM	1.4	43
W	05:04 PM	10.9	332
	11:19 PM	2.1	64
5	05:19 AM	10.1	308
	11:24 AM	1.8	55
Th	05:33 PM	11.1	338
○	11:53 PM	1.1	34
6	06:05 AM	10.5	320
	12:06 PM	2.3	70
F	06:04 PM	11.2	341
7	12:31 AM	0.2	6
	06:53 AM	10.8	329
Sa	12:49 PM	3.1	94
	06:38 PM	11.2	341
8	01:12 AM	-0.5	-15
	07:44 AM	10.9	332
Su	01:35 PM	3.9	119
	07:15 PM	11.0	335
9	01:56 AM	-1.0	-30
	08:40 AM	10.9	332
M	02:25 PM	4.7	143
	07:56 PM	10.7	326
10	02:45 AM	-1.1	-34
	09:41 AM	10.7	326
Tu	03:23 PM	5.5	168
	08:43 PM	10.1	308
11	03:38 AM	-0.9	-27
	10:50 AM	10.5	320
W	04:33 PM	6.1	186
	09:41 PM	9.5	290
12	04:38 AM	-0.4	-12
	12:07 PM	10.5	320
Th	06:00 PM	6.1	186
◑	10:54 PM	8.9	271
13	05:44 AM	0.1	3
	01:24 PM	10.6	323
F	07:31 PM	5.6	171
14	12:19 AM	8.5	259
	06:55 AM	0.6	18
Sa	02:27 PM	10.8	329
	08:41 PM	4.7	143
15	01:44 AM	8.6	262
	08:04 AM	1.0	30
Su	03:16 PM	11.0	335
	09:32 PM	3.6	110

	Time	Height (ft)	Height (cm)
	h m		
16	02:59 AM	9.0	274
	09:06 AM	1.4	43
M	03:55 PM	11.1	338
	10:15 PM	2.6	79
17	04:02 AM	9.5	290
	09:59 AM	1.8	55
Tu	04:27 PM	11.1	338
	10:51 PM	1.7	52
18	04:56 AM	9.9	302
	10:46 AM	2.4	73
W	04:56 PM	11.1	338
	11:25 PM	0.9	27
19	05:44 AM	10.2	311
	11:30 AM	3.1	94
Th	05:23 PM	10.9	332
●	11:57 PM	0.3	9
20	06:28 AM	10.5	320
	12:11 PM	3.8	116
F	05:51 PM	10.6	323
21	12:29 AM	-0.1	-3
	07:10 AM	10.6	323
Sa	12:52 PM	4.5	137
	06:20 PM	10.3	314
22	01:01 AM	-0.3	-9
	07:52 AM	10.7	326
Su	01:34 PM	5.2	158
	06:52 PM	9.9	302
23	01:36 AM	-0.3	-9
	08:34 AM	10.7	326
M	02:19 PM	5.8	177
	07:26 PM	9.4	287
24	02:13 AM	-0.2	-6
	09:19 AM	10.6	323
Tu	03:09 PM	6.2	189
	08:04 PM	8.9	271
25	02:54 AM	0.2	6
	10:09 AM	10.5	320
W	04:08 PM	6.5	198
	08:48 PM	8.3	253
26	03:39 AM	0.6	18
	11:04 AM	10.3	314
Th	05:24 PM	6.5	198
	09:44 PM	7.7	235
27	04:31 AM	1.2	37
	12:04 PM	10.2	311
F	06:57 PM	6.2	189
◐	10:57 PM	7.3	223
28	05:29 AM	1.7	52
	01:02 PM	10.3	314
Sa	08:03 PM	5.6	171
29	12:19 AM	7.2	219
	06:33 AM	2.1	64
Su	01:51 PM	10.4	317
	08:43 PM	4.8	146
30	01:35 AM	7.5	229
	07:36 AM	2.4	73
M	02:32 PM	10.6	323
	09:13 PM	3.9	119
31	02:41 AM	8.1	247
	08:33 AM	2.6	79
Tu	03:07 PM	10.8	329
	09:43 PM	2.8	85

November

	Time	Height (ft)	Height (cm)
	h m		
1	03:37 AM	8.9	271
	09:24 AM	2.9	88
W	03:39 PM	11.1	338
	10:14 PM	1.6	49
2	04:27 AM	9.7	296
	10:12 AM	3.3	101
Th	04:10 PM	11.3	344
	10:48 PM	0.3	9
3	05:15 AM	10.4	317
	10:58 AM	3.7	113
F	04:43 PM	11.4	347
	11:24 PM	-0.8	-24
4	06:03 AM	11.0	335
	11:44 AM	4.3	131
Sa	05:18 PM	11.5	351
○			
5	12:04 AM	-1.7	-52
	05:53 AM	11.5	351
Su	11:32 AM	4.9	149
	04:56 PM	11.4	347
	11:47 PM	-2.2	-67
6	06:45 AM	11.8	360
	12:23 PM	5.5	168
M	05:37 PM	11.1	338
7	12:33 AM	-2.4	-73
	07:39 AM	11.8	360
Tu	01:19 PM	5.9	180
	06:24 PM	10.6	323
8	01:22 AM	-2.1	-64
	08:38 AM	11.8	360
W	02:22 PM	6.2	189
	07:18 PM	9.9	302
9	02:15 AM	-1.5	-46
	09:40 AM	11.6	354
Th	03:36 PM	6.1	186
	08:23 PM	9.1	277
10	03:12 AM	-0.5	-15
	10:44 AM	11.5	351
F	05:02 PM	5.7	174
◑	09:43 PM	8.3	253
11	04:16 AM	0.6	18
	11:47 AM	11.4	347
Sa	06:22 PM	4.8	146
	11:14 PM	8.0	244
12	05:25 AM	1.6	49
	12:42 PM	11.4	347
Su	07:25 PM	3.6	110
13	12:48 AM	8.1	247
	06:35 AM	2.5	76
M	01:29 PM	11.4	347
	08:14 PM	2.4	73
14	02:10 AM	8.6	262
	07:41 AM	3.3	101
Tu	02:08 PM	11.3	344
	08:54 PM	1.4	43
15	03:16 AM	9.3	283
	08:39 AM	3.9	119
W	02:41 PM	11.2	341
	09:29 PM	0.5	15

	Time	Height (ft)	Height (cm)
	h m		
16	04:10 AM	10.0	305
	09:31 AM	4.6	140
Th	03:11 PM	11.0	335
	10:01 PM	-0.1	-3
17	04:56 AM	10.5	320
	10:17 AM	5.2	158
F	03:40 PM	10.8	329
	10:31 PM	-0.6	-18
18	05:37 AM	10.8	329
	11:00 AM	5.7	174
Sa	04:09 PM	10.5	320
●	11:01 PM	-0.8	-24
19	06:13 AM	11.1	338
	11:42 AM	6.1	186
Su	04:39 PM	10.1	308
	11:32 PM	-1.0	-30
20	06:48 AM	11.3	344
	12:23 PM	6.4	195
M	05:11 PM	9.8	299
21	12:06 AM	-0.9	-27
	07:24 AM	11.3	344
Tu	01:07 PM	6.6	201
	05:47 PM	9.3	283
22	12:42 AM	-0.7	-21
	08:01 AM	11.4	347
W	01:54 PM	6.7	204
	06:25 PM	8.9	271
23	01:21 AM	-0.3	-9
	08:43 AM	11.3	344
Th	02:46 PM	6.7	204
	07:09 PM	8.3	253
24	02:03 AM	0.2	6
	09:27 AM	11.2	341
F	03:47 PM	6.5	198
	08:03 PM	7.8	238
25	02:49 AM	0.9	27
	10:14 AM	11.1	338
Sa	04:54 PM	6.0	183
	09:13 PM	7.3	223
26	03:40 AM	1.7	52
	11:02 AM	11.1	338
Su	05:55 PM	5.3	162
◐	10:35 PM	7.1	216
27	04:38 AM	2.5	76
	11:47 AM	11.1	338
M	06:44 PM	4.3	131
	11:59 PM	7.3	223
28	05:40 AM	3.3	101
	12:29 PM	11.2	341
Tu	07:25 PM	3.1	94
29	01:16 AM	7.9	241
	06:44 AM	4.0	122
W	01:08 PM	11.4	347
	08:02 PM	1.8	55
30	02:23 AM	8.8	268
	07:45 AM	4.6	140
Th	01:46 PM	11.6	354
	08:40 PM	0.4	12

December

	Time	Height (ft)	Height (cm)
	h m		
1	03:21 AM	9.8	299
	08:41 AM	5.1	155
F	02:23 PM	11.7	357
	09:19 PM	-0.9	-27
2	04:14 AM	10.7	326
	09:35 AM	5.6	171
Sa	03:01 PM	11.8	360
	10:00 PM	-2.0	-61
3	05:03 AM	11.5	351
	10:27 AM	6.0	183
Su	03:42 PM	11.8	360
○	10:43 PM	-2.8	-85
4	05:53 AM	12.1	369
	11:19 AM	6.2	189
M	04:25 PM	11.7	357
	11:28 PM	-3.1	-94
5	06:43 AM	12.4	378
	12:14 PM	6.4	195
Tu	05:13 PM	11.3	344
6	12:15 AM	-3.0	-91
	07:33 AM	12.5	381
W	01:11 PM	6.3	192
	06:06 PM	10.7	326
7	01:03 AM	-2.4	-73
	08:25 AM	12.5	381
Th	02:14 PM	6.1	186
	07:04 PM	9.9	302
8	01:54 AM	-1.4	-43
	09:17 AM	12.3	375
F	03:24 PM	5.7	174
	08:12 PM	9.0	274
9	02:48 AM	-0.2	-6
	10:10 AM	12.2	372
Sa	04:38 PM	5.0	152
	09:31 PM	8.2	250
10	03:46 AM	1.3	40
	11:02 AM	12.0	366
Su	05:51 PM	4.0	122
◑	11:03 PM	7.8	238
11	04:50 AM	2.7	82
	11:52 AM	11.8	360
M	06:53 PM	2.9	88
12	12:44 AM	7.9	241
	06:01 AM	4.0	122
Tu	12:38 PM	11.5	351
	07:44 PM	1.8	55
13	02:15 AM	8.6	262
	07:14 AM	5.0	152
W	01:20 PM	11.3	344
	08:27 PM	0.8	24
14	03:25 AM	9.5	290
	08:22 AM	5.7	174
Th	01:57 PM	11.1	338
	09:03 PM	0.1	3
15	04:19 AM	10.2	311
	09:20 AM	6.2	189
F	02:32 PM	10.8	329
	09:36 PM	-0.4	-12

	Time	Height (ft)	Height (cm)
	h m		
16	05:03 AM	10.8	329
	10:10 AM	6.6	201
Sa	03:05 PM	10.6	323
	10:06 PM	-0.8	-24
17	05:40 AM	11.2	341
	10:55 AM	6.8	207
Su	03:37 PM	10.3	314
	10:37 PM	-1.0	-30
18	06:11 AM	11.4	347
	11:35 AM	7.0	213
M	04:11 PM	10.1	308
●	11:09 PM	-1.1	-34
19	06:40 AM	11.6	354
	12:13 PM	7.0	213
Tu	04:46 PM	9.8	299
	11:43 PM	-1.0	-30
20	07:08 AM	11.7	357
	12:50 PM	6.9	210
W	05:24 PM	9.5	290
21	12:19 AM	-0.9	-27
	07:39 AM	11.8	360
Th	01:30 PM	6.7	204
	06:04 PM	9.1	277
22	12:56 AM	-0.5	-15
	08:13 AM	11.8	360
F	02:13 PM	6.4	195
	06:48 PM	8.7	265
23	01:35 AM	0.1	3
	08:50 AM	11.8	360
Sa	03:01 PM	6.0	183
	07:40 PM	8.2	250
24	02:17 AM	0.8	24
	09:29 AM	11.8	360
Su	03:53 PM	5.4	165
	08:42 PM	7.8	238
25	03:01 AM	1.8	55
	10:09 AM	11.7	357
M	04:47 PM	4.6	140
	09:58 PM	7.5	229
26	03:52 AM	3.0	91
	10:50 AM	11.6	354
Tu	05:42 PM	3.6	110
◐	11:23 PM	7.5	229
27	04:50 AM	4.1	125
	11:32 AM	11.6	354
W	06:34 PM	2.4	73
28	12:51 AM	8.1	247
	05:58 AM	5.2	158
Th	12:16 PM	11.6	354
	07:22 PM	1.0	30
29	02:12 AM	9.0	274
	07:10 AM	6.0	183
F	01:00 PM	11.7	357
	08:08 PM	-0.3	-9
30	03:18 AM	10.0	305
	08:17 AM	6.5	198
Sa	01:45 PM	11.8	360
	08:54 PM	-1.5	-46
31	04:13 AM	11.0	335
	09:18 AM	6.7	204
Su	02:31 PM	11.9	363
	09:40 PM	-2.5	-76

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: Seattle (9447130) Time offset in mins (high: 10 low: 11) Height offset in feet (high: *0.97 low: *0.95)