

Tides and Currents for New Castle- Times adjusted for Daylight Savings Time- NOAA Data

Date	Day	Tides						Maximum Current in Knots (a negative number means outgoing current, "-" by itself indicates slack)																	
		Time	Ht	Time	Ht	Time	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts						
4/21/2018	Sat	4:07	5.99H	11:47	0.27L	16:58	5.15H	23:50	0.54L	0:10	-	2:03	2	5:57	-	9:42	-2.3	13:10	-	14:39	1.2	18:15	-	21:48	-1.9
4/22/2018	Sun	5:12	5.82H	12:46	0.31L	18:04	5.14H			1:04	-	2:57	1.8	6:57	-	10:42	-2.4	14:10	-	15:51	1.1	19:15	-	22:48	-2
4/23/2018	Mon	0:53	0.56L	6:21	5.7H	13:46	0.28L	19:09	5.24H	2:10	-	4:09	1.7	7:57	-	11:30	-2.5	15:10	-	17:27	1.2	20:21	-	23:42	-2.1
4/24/2018	Tue	1:58	0.49L	7:30	5.67H	14:45	0.18L	20:12	5.44H	3:16	-	5:27	1.6	9:03	-	12:30	-2.5	16:10	-	18:45	1.3	21:27	-		
4/25/2018	Wed	3:01	0.35L	8:34	5.71H	15:42	0.06L	21:11	5.69H	0:48	-2.2	4:22	-	7:03	1.7	10:03	-	13:30	-2.6	17:04	-	19:57	1.6	22:27	-
4/26/2018	Thu	4:01	0.17L	9:33	5.77H	16:35	-0.06L	22:05	5.93H	1:54	-2.5	5:22	-	8:21	1.9	10:57	-	14:24	-2.8	17:58	-	20:51	1.9	23:21	-
4/27/2018	Fri	4:58	-0.01L	10:27	5.82H	17:25	-0.12L	22:55	6.13H	2:48	-2.8	6:22	-	9:15	2.1	11:51	-	15:06	-2.9	18:46	-	21:33	2.2		
4/28/2018	Sat	5:51	-0.13L	11:17	5.82H	18:13	-0.1L	23:42	6.24H	0:15	-	3:36	-3	7:16	-	9:51	2.3	12:39	-	15:54	-2.9	19:34	-	22:09	2.4
4/29/2018	Sun	6:41	-0.17L	12:04	5.77H	18:57	0L			1:03	-	4:24	-3.1	8:10	-	10:39	2.2	13:21	-	16:42	-2.9	20:16	-	22:45	2.4
4/30/2018	Mon	0:25	6.26H	7:28	-0.14L	12:49	5.67H	19:39	0.17L	1:51	-	5:18	-3.1	8:52	-	11:21	2.1	14:03	-	17:24	-2.8	20:58	-	23:27	2.3
5/1/2018	Tue	1:07	6.21H	8:13	-0.03L	13:33	5.53H	20:18	0.36L	2:33	-	6:00	-3	9:34	-	12:09	2	14:45	-	18:06	-2.6	21:34	-		
5/2/2018	Wed	1:47	6.12H	8:56	0.12L	14:16	5.38H	20:56	0.55L	0:09	2.2	3:09	-	6:42	-2.8	10:16	-	12:51	1.8	15:27	-	18:36	-2.4	22:10	-
5/3/2018	Thu	2:26	5.99H	9:38	0.28L	15:00	5.24H	21:34	0.71L	0:39	2	3:51	-	7:12	-2.5	10:58	-	13:15	1.6	16:03	-	19:00	-2.2	22:52	-
5/4/2018	Fri	3:06	5.86H	10:20	0.43L	15:44	5.11H	22:12	0.82L	1:03	1.8	4:33	-	7:36	-2.2	11:40	-	13:39	1.4	16:45	-	19:06	-2	23:28	-
5/5/2018	Sat	3:47	5.73H	11:02	0.55L	16:31	5.02H	22:53	0.9L	1:33	1.7	5:09	-	7:42	-2	12:16	-	14:03	1.2	17:27	-	19:18	-1.9		
5/6/2018	Sun	4:33	5.6H	11:47	0.64L	17:21	4.97H	23:41	0.95L	0:10	-	2:03	1.6	5:51	-	7:48	-1.9	12:58	-	14:33	1.1	18:09	-	20:00	-1.8
5/7/2018	Mon	5:23	5.49H	12:35	0.68L	18:14	4.99H			0:46	-	2:45	1.5	6:33	-	8:36	-1.8	13:40	-	15:15	1.1	18:51	-	20:48	-1.7
5/8/2018	Tue	0:35	0.96L	6:19	5.42H	13:25	0.68L	19:08	5.08H	1:34	-	3:33	1.5	7:15	-	9:42	-1.9	14:22	-	16:09	1.1	19:39	-	21:54	-1.7
5/9/2018	Wed	1:34	0.92L	7:17	5.39H	14:17	0.63L	20:00	5.23H	2:22	-	4:27	1.5	8:09	-	10:30	-1.9	15:16	-	16:57	1.1	20:39	-	22:48	-1.8
5/10/2018	Thu	2:34	0.83L	8:13	5.4H	15:09	0.54L	20:51	5.43H	3:28	-	5:21	1.4	9:09	-	11:18	-1.9	16:10	-	17:51	1.2	21:39	-	23:36	-1.8
5/11/2018	Fri	3:33	0.69L	9:07	5.45H	15:59	0.45L	21:38	5.66H	4:28	-	6:15	1.4	10:09	-	12:24	-1.9	16:58	-	18:45	1.4	22:33	-		
5/12/2018	Sat	4:29	0.51L	9:57	5.5H	16:48	0.35L	22:23	5.9H	1:36	-1.9	5:28	-	7:21	1.4	10:57	-	14:00	-2	17:52	-	19:51	1.6	23:27	-
5/13/2018	Sun	5:24	0.33L	10:46	5.54H	17:36	0.28L	23:07	6.11H	2:48	-2.2	6:34	-	8:33	1.5	11:51	-	14:54	-2.2	18:46	-	20:51	1.9		
5/14/2018	Mon	6:17	0.17L	11:33	5.55H	18:24	0.23L	23:50	6.3H	0:21	-	3:48	-2.3	7:34	-	9:21	1.7	12:39	-	15:48	-2.3	19:34	-	21:33	2.2
5/15/2018	Tue	7:09	0.05L	12:20	5.54H	19:11	0.22L			1:15	-	4:48	-2.5	8:22	-	10:09	1.7	13:27	-	16:48	-2.3	20:22	-	22:21	2.3
5/16/2018	Wed	0:33	6.42H	8:00	-0.02L	13:08	5.51H	19:59	0.24L	2:09	-	5:48	-2.6	9:16	-	10:51	1.7	14:15	-	17:48	-2.4	21:10	-	23:09	2.4
5/17/2018	Thu	1:19	6.47H	8:52	-0.03L	13:58	5.44H	20:50	0.29L	2:57	-	6:36	-2.7	10:04	-	11:45	1.6	15:03	-	18:36	-2.3	21:58	-		
5/18/2018	Fri	2:08	6.43H	9:44	-0.01L	14:51	5.37H	21:43	0.36L	0:03	2.3	3:51	-	7:24	-2.6	10:58	-	12:39	1.5	15:57	-	19:18	-2.2	22:52	-
5/19/2018	Sat	3:01	6.32H	10:38	0.04L	15:48	5.31H	22:39	0.44L	0:57	2.2	4:45	-	8:18	-2.5	11:58	-	13:33	1.4	16:51	-	20:18	-2.1	23:46	-
5/20/2018	Sun	4:00	6.14H	11:33	0.09L	16:49	5.29H	23:38	0.49L	1:45	2.1	5:39	-	9:18	-2.5	12:52	-	14:27	1.3	17:57	-	21:30	-2		
5/21/2018	Mon	5:03	5.96H	12:29	0.11L	17:52	5.35H			0:46	-	2:39	1.9	6:39	-	10:18	-2.6	13:46	-	15:33	1.2	18:57	-	22:30	-2.1
5/22/2018	Tue	0:39	0.51L	6:08	5.81H	13:25	0.1L	18:54	5.49H	1:46	-	3:57	1.7	7:33	-	11:06	-2.6	14:46	-	17:15	1.4	19:57	-	23:24	-2.2
5/23/2018	Wed	1:41	0.48L	7:13	5.73H	14:20	0.06L	19:54	5.7H	2:52	-	5:27	1.7	8:39	-	12:00	-2.6	15:46	-	18:15	1.5	21:09	-		
5/24/2018	Thu	2:42	0.39L	8:14	5.69H	15:14	0.01L	20:51	5.92H	0:24	-2.3	3:58	-	6:45	1.7	9:39	-	13:00	-2.6	16:34	-	19:27	1.7	22:09	-
5/25/2018	Fri	3:41	0.26L	9:11	5.68H	16:06	-0.02L	21:43	6.12H	1:30	-2.5	5:04	-	7:57	1.8	10:27	-	13:54	-2.7	17:28	-	20:27	2	23:03	-
5/26/2018	Sat	4:37	0.14L	10:04	5.67H	16:56	0L	22:32	6.26H	2:24	-2.8	6:04	-	8:51	2	11:21	-	14:42	-2.7	18:16	-	21:09	2.2	23:51	-
5/27/2018	Sun	5:30	0.05L	10:54	5.63H	17:42	0.07L	23:18	6.32H	3:12	-2.9	6:58	-	9:39	2.1	12:03	-	15:24	-2.8	19:04	-	21:51	2.4		
5/28/2018	Mon	6:19	0.01L	11:41	5.56H	18:26	0.2L			0:39	-	4:00	-2.9	7:46	-	10:15	2.1	12:51	-	16:06	-2.7	19:46	-	22:27	2.4
5/29/2018	Tue	0:01	6.3H	7:05	0.04L	12:26	5.46H	19:08	0.36L	1:27	-	4:48	-2.8	8:34	-	10:57	2	13:33	-	16:48	-2.6	20:28	-	23:03	2.3
5/30/2018	Wed	0:42	6.24H	7:49	0.12L	13:09	5.35H	19:47	0.52L	2:03	-	5:36	-2.7	9:10	-	11:39	1.8	14:09	-	17:30	-2.5	21:04	-	23:27	2.1
5/31/2018	Thu	1:20	6.14H	8:31	0.24L	13:51	5.23H	20:25	0.67L	2:39	-	6:12	-2.5	9:46	-	12:09	1.6	14:51	-	18:00	-2.3	21:34	-	23:51	2
6/1/2018	Fri	1:58	6.03H	9:12	0.36L	14:32	5.13H	21:02	0.78L	3:15	-	6:36	-2.3	10:22	-	12:27	1.4	15:27	-	18:18	-2.2	22:10	-		
6/2/2018	Sat	2:35	5.92H	9:51	0.47L	15:14	5.05H	21:38	0.85L	0:21	1.9	3:51	-	6:54	-2.2	10:58	-	12:51	1.4	16:03	-	18:24	-2.1	22:46	-
6/3/2018	Sun	3:13	5.83H	10:31	0.54L	15:56	5.01H	22:18	0.9L	0:51	1.9	4:33	-	6:54	-2.1	11:34	-	13:21	1.3	16:45	-	18:48	-2	23:22	-
6/4/2018	Mon	3:53	5.73H	11:11	0.59L	16:41	5.02H	23:03	0.93L	1:33	1.9	5:09	-	7:12	-2.1	12:16	-	13:57	1.3	17:27	-	19:24	-2		
6/5/2018	Tue	4:37	5.64H	11:54	0.6L	17:29	5.07H	23:55	0.95L	0:10	-	2:09	1.8	5:57	-	8:00	-2	12:58	-	14:39	1.3	18:09	-	20:06	-1.9
6/6/2018	Wed	5:29	5.54H	12:40	0.58L	18:20	5.18H			0:58	-	2:57	1.7	6:45	-	9:00	-2	13:46	-	15:27	1.3	18:57	-	21:18	-1.8
6/7/2018	Thu	0:53	0.94L	6:25	5.45H	13:29	0.54L	19:12	5.35H	1:52	-	3:57	1.6	7:33	-	10:12	-2	14:40	-	16:27	1.3	20:03	-	22:36	-1.8
6/8/2018	Fri	1:55	0.89L	7:24	5.4H	14:20	0.48L	20:04	5.57H	2:58	-	4:51	1.5	8:39	-	11:00	-2	15:34	-	17:21	1.4	21:09	-	23:36	-1.8
6/9/2018	Sat	2:57	0.79L	8:22	5.38H	15:13	0.42L	20:55	5.81H	4:10	-	5:51	1.3	9:39	-	12:06	-1.9	16:28	-	18:21	1.5	22:15	-		
6/10/2018	Sun	3:59	0.62L	9:19	5.38H	16:07	0.35L	21:45	6.06H	1:36	-1.9	5:16	-	6:57	1.2	10:33	-	13:42	-2	17:28	-	19:27	1.6	23:15	-
6/11/2018	Mon	4:58	0.43L	10:13	5.4H	17:00	0.28L	22:35	6.29H	2:42	-2.2	6:16	-	8:15	1.3	11:27	-	14:42	-2.2	18:22	-	20:33	1.9		
6/12/2018	Tue	5:54	0.23L	11:05	5.42H	17:54	0.21L	23:24	6.46H	0:09	-	3:36	-2.4	7:16	-	9:09	1.5	12:15	-	15:36	-2.3	19:16	-	21:21	2.2
6/13/2018	Wed	6:49	0.06L	11:57	5.44																				

Tides and Currents for New Castle- Times adjusted for Daylight Savings Time- NOAA Data

Date	Day	Tides						Maximum Current in Knots (a negative number means outgoing current, "-" by itself indicates slack)																	
		Time	Ht	Time	Ht	Time	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts				
6/15/2018	Fri	1:04	6.6H	8:36	-0.14L	13:43	5.43H	20:34	0.17L	2:45	-	6:24	-2.8	9:52	-	11:33	1.6	14:45	-	18:24	-2.5	21:40	-	23:45	2.4
6/16/2018	Sat	1:56	6.54H	9:28	-0.17L	14:37	5.42H	21:29	0.21L	3:33	-	7:06	-2.8	10:40	-	12:27	1.5	15:39	-	19:06	-2.4	22:34	-		
6/17/2018	Sun	2:51	6.4H	10:20	-0.16L	15:34	5.43H	22:25	0.28L	0:39	2.3	4:27	-	7:54	-2.8	11:34	-	13:21	1.5	16:33	-	20:00	-2.3	23:28	-
6/18/2018	Mon	3:49	6.22H	11:13	-0.12L	16:33	5.47H	23:23	0.35L	1:33	2.2	5:21	-	8:48	-2.7	12:28	-	14:09	1.5	17:33	-	21:06	-2.2		
6/19/2018	Tue	4:49	6.01H	12:06	-0.09L	17:33	5.55H			0:28	-	2:27	2	6:15	-	9:48	-2.6	13:22	-	15:15	1.4	18:33	-	22:06	-2.3
6/20/2018	Wed	0:21	0.41L	5:50	5.83H	12:59	-0.05L	18:33	5.68H	1:28	-	3:51	1.8	7:09	-	10:42	-2.6	14:16	-	16:57	1.5	19:33	-	23:06	-2.4
6/21/2018	Thu	1:21	0.43L	6:51	5.69H	13:52	-0.02L	19:31	5.84H	2:34	-	5:21	1.7	8:09	-	11:30	-2.6	15:10	-	17:51	1.7	20:39	-		
6/22/2018	Fri	2:20	0.4L	7:50	5.59H	14:44	0.02L	20:26	6H	0:00	-2.4	3:40	-	6:21	1.7	9:03	-	12:18	-2.5	16:04	-	18:57	1.8	21:45	-
6/23/2018	Sat	3:17	0.34L	8:46	5.53H	15:35	0.06L	21:18	6.13H	1:00	-2.5	4:40	-	7:33	1.7	9:57	-	13:18	-2.5	16:58	-	19:57	1.9	22:39	-
6/24/2018	Sun	4:13	0.26L	9:39	5.49H	16:24	0.13L	22:07	6.22H	2:00	-2.6	5:40	-	8:27	1.8	10:45	-	14:12	-2.5	17:46	-	20:51	2.1	23:27	-
6/25/2018	Mon	5:05	0.19L	10:30	5.45H	17:11	0.21L	22:53	6.26H	2:54	-2.6	6:34	-	9:15	1.9	11:33	-	14:54	-2.5	18:34	-	21:33	2.2		
6/26/2018	Tue	5:55	0.15L	11:17	5.39H	17:56	0.32L	23:36	6.24H	0:15	-	3:36	-2.6	7:22	-	9:57	1.9	12:15	-	15:36	-2.5	19:22	-	22:03	2.2
6/27/2018	Wed	6:41	0.16L	12:02	5.32H	18:39	0.43L			0:57	-	4:18	-2.5	8:04	-	10:33	1.8	12:57	-	16:12	-2.4	19:58	-	22:33	2.1
6/28/2018	Thu	0:17	6.19H	7:25	0.21L	12:45	5.24H	19:19	0.55L	1:33	-	5:00	-2.4	8:40	-	10:57	1.6	13:39	-	16:42	-2.3	20:28	-	22:45	2
6/29/2018	Fri	0:56	6.11H	8:06	0.29L	13:26	5.16H	19:58	0.65L	2:09	-	5:36	-2.3	9:10	-	11:15	1.5	14:15	-	17:06	-2.2	21:04	-	23:09	2
6/30/2018	Sat	1:33	6.02H	8:45	0.37L	14:06	5.09H	20:35	0.72L	2:45	-	6:00	-2.2	9:40	-	11:33	1.5	14:45	-	17:18	-2.2	21:34	-	23:39	2
7/1/2018	Sun	2:08	5.95H	9:23	0.44L	14:44	5.06H	21:12	0.78L	3:15	-	6:12	-2.2	10:16	-	12:09	1.5	15:21	-	17:48	-2.2	22:10	-		
7/2/2018	Mon	2:43	5.88H	10:00	0.49L	15:21	5.07H	21:50	0.82L	0:21	2.1	3:57	-	6:30	-2.2	10:58	-	12:45	1.5	15:57	-	18:18	-2.2	22:52	-
7/3/2018	Tue	3:18	5.81H	10:36	0.5L	15:59	5.13H	22:32	0.85L	1:03	2.1	4:39	-	6:54	-2.2	11:40	-	13:21	1.5	16:39	-	19:00	-2.2	23:40	-
7/4/2018	Wed	3:58	5.73H	11:14	0.49L	16:41	5.23H	23:21	0.89L	1:45	2	5:27	-	7:30	-2.2	12:22	-	14:09	1.5	17:33	-	19:42	-2		
7/5/2018	Thu	4:45	5.63H	11:55	0.47L	17:29	5.36H			0:34	-	2:33	1.8	6:15	-	8:30	-2	13:10	-	14:57	1.5	18:27	-	20:48	-1.8
7/6/2018	Fri	0:17	0.92L	5:39	5.5H	12:42	0.45L	18:21	5.52H	1:34	-	3:27	1.6	7:09	-	9:54	-2	14:04	-	15:57	1.5	19:33	-	22:36	-1.8
7/7/2018	Sat	1:20	0.91L	6:40	5.38H	13:34	0.43L	19:18	5.71H	2:40	-	4:27	1.4	8:09	-	10:54	-2	15:04	-	16:57	1.5	20:45	-	23:48	-1.8
7/8/2018	Sun	2:26	0.85L	7:43	5.3H	14:31	0.4L	20:15	5.92H	3:52	-	5:27	1.2	9:09	-	11:54	-1.9	16:04	-	17:51	1.5	21:57	-		
7/9/2018	Mon	3:31	0.7L	8:45	5.27H	15:31	0.35L	21:12	6.14H	1:24	-1.9	4:58	-	6:33	1.1	10:09	-	13:30	-2	17:04	-	18:57	1.6	23:03	-
7/10/2018	Tue	4:34	0.51L	9:45	5.29H	16:31	0.28L	22:08	6.35H	2:30	-2.2	6:04	-	8:03	1.1	11:03	-	14:30	-2.2	18:04	-	20:21	1.8	23:57	-
7/11/2018	Wed	5:33	0.28L	10:42	5.35H	17:30	0.19L	23:03	6.52H	3:24	-2.4	7:04	-	9:09	1.3	11:57	-	15:24	-2.3	18:58	-	21:15	2.1		
7/12/2018	Thu	6:30	0.06L	11:38	5.42H	18:27	0.1L	23:56	6.62H	0:57	-	4:18	-2.7	7:58	-	9:51	1.5	12:51	-	16:24	-2.5	19:52	-	21:57	2.3
7/13/2018	Fri	7:24	-0.11L	12:32	5.49H	19:23	0.03L			1:45	-	5:12	-2.8	8:46	-	10:33	1.6	13:45	-	17:18	-2.6	20:40	-	22:45	2.4
7/14/2018	Sat	0:49	6.64H	8:17	-0.23L	13:26	5.55H	20:18	0.02L	2:33	-	6:06	-3	9:28	-	11:21	1.7	14:33	-	18:06	-2.6	21:28	-	23:39	2.4
7/15/2018	Sun	1:43	6.58H	9:08	-0.28L	14:20	5.6H	21:13	0.05L	3:21	-	6:48	-3	10:16	-	12:15	1.7	15:21	-	18:54	-2.6	22:22	-		
7/16/2018	Mon	2:37	6.43H	9:58	-0.27L	15:15	5.64H	22:08	0.13L	0:33	2.3	4:09	-	7:30	-2.9	11:10	-	13:03	1.7	16:15	-	19:42	-2.5	23:16	-
7/17/2018	Tue	3:32	6.24H	10:48	-0.21L	16:11	5.68H	23:03	0.25L	1:27	2.2	5:03	-	8:24	-2.7	11:58	-	13:57	1.7	17:15	-	20:42	-2.4		
7/18/2018	Wed	4:28	6.01H	11:38	-0.12L	17:08	5.73H	23:59	0.36L	0:10	-	2:21	2	5:51	-	9:18	-2.6	12:52	-	14:51	1.6	18:15	-	21:48	-2.4
7/19/2018	Thu	5:26	5.78H	12:28	-0.02L	18:05	5.79H			1:10	-	3:39	1.8	6:45	-	10:12	-2.6	13:46	-	16:27	1.6	19:09	-	22:42	-2.4
7/20/2018	Fri	0:56	0.45L	6:25	5.6H	13:19	0.09L	19:02	5.87H	2:10	-	5:03	1.7	7:39	-	11:00	-2.5	14:40	-	17:27	1.7	20:09	-	23:36	-2.4
7/21/2018	Sat	1:53	0.49L	7:23	5.47H	14:10	0.18L	19:57	5.96H	3:16	-	5:57	1.7	8:33	-	11:48	-2.4	15:34	-	18:27	1.7	21:15	-		
7/22/2018	Sun	2:50	0.48L	8:19	5.39H	15:01	0.26L	20:49	6.04H	0:30	-2.3	4:16	-	7:03	1.6	9:27	-	12:42	-2.3	16:28	-	19:27	1.8	22:09	-
7/23/2018	Mon	3:45	0.43L	9:13	5.36H	15:51	0.32L	21:40	6.12H	1:30	-2.3	5:10	-	8:03	1.6	10:15	-	13:36	-2.3	17:16	-	20:27	1.8	22:57	-
7/24/2018	Tue	4:38	0.36L	10:04	5.35H	16:40	0.36L	22:27	6.16H	2:24	-2.3	6:04	-	8:51	1.6	10:57	-	14:24	-2.3	18:04	-	21:09	1.9	23:39	-
7/25/2018	Wed	5:27	0.3L	10:52	5.34H	17:26	0.4L	23:12	6.17H	3:06	-2.2	6:52	-	9:33	1.6	11:39	-	15:00	-2.2	18:46	-	21:39	1.9		
7/26/2018	Thu	6:13	0.27L	11:38	5.32H	18:10	0.45L	23:53	6.15H	0:21	-	3:42	-2.2	7:28	-	10:03	1.6	12:21	-	15:24	-2.2	19:22	-	21:57	1.9
7/27/2018	Fri	6:57	0.27L	12:21	5.28H	18:52	0.5L			0:57	-	4:12	-2.1	8:04	-	10:15	1.5	13:03	-	15:42	-2.2	19:58	-	22:09	1.9
7/28/2018	Sat	0:32	6.11H	7:38	0.31L	13:01	5.24H	19:33	0.56L	1:33	-	4:48	-2.1	8:34	-	10:27	1.5	13:39	-	15:54	-2.2	20:28	-	22:33	2
7/29/2018	Sun	1:09	6.04H	8:17	0.37L	13:38	5.21H	20:12	0.63L	2:09	-	5:12	-2.2	9:04	-	10:51	1.6	14:15	-	16:30	-2.3	21:04	-	23:09	2.1
7/30/2018	Mon	1:43	5.97H	8:53	0.42L	14:13	5.22H	20:50	0.69L	2:45	-	5:36	-2.3	9:40	-	11:27	1.6	14:45	-	17:12	-2.3	21:40	-	23:51	2.2
7/31/2018	Tue	2:16	5.92H	9:28	0.46L	14:46	5.27H	21:28	0.75L	3:27	-	6:00	-2.3	10:16	-	12:15	1.7	15:27	-	18:00	-2.3	22:28	-		
8/1/2018	Wed	2:49	5.86H	10:02	0.47L	15:19	5.37H	22:09	0.8L	0:39	2.1	4:09	-	6:36	-2.3	11:04	-	12:57	1.8	16:09	-	18:42	-2.3	23:22	-
8/2/2018	Thu	3:26	5.78H	10:37	0.46L	15:57	5.5H	22:55	0.86L	1:21	2	4:57	-	7:12	-2.2	11:52	-	13:45	1.8	17:03	-	19:24	-2.1		
8/3/2018	Fri	4:11	5.66H	11:15	0.45L	16:43	5.62H	23:51	0.92L	0:16	-	2:09	1.8	5:51	-	8:06	-2	12:46	-	14:33	1.7	18:09	-	20:54	-1.9
8/4/2018	Sat	5:04	5.5H	12:01	0.46L	17:37	5.73H			1:16	-	3:03	1.5	6:39	-	9:42	-1.9	13:40	-	15:27	1.6	19:09	-	22:42	-1.8
8/5/2018	Sun	0:55	0.95L	6:06	5.34H	12:56	0.48L	18:38	5.85H	2:22	-	4:03	1.3	7:39	-	10:48	-1.9	14:40	-	16:33	1.6	20:27	-	23:54	-1.9
8/6/2018	Mon	2:03	0.91L	7:14	5.23H	13:59	0.48L	19:43	5.99H	3:34	-	5:09	1.1	8:45	-	11:54	-1.9	15:40	-	17:33	1.6	21:45	-		
8/7/2018	Tue	3:10																							

Tides and Currents for New Castle- Times adjusted for Daylight Savings Time- NOAA Data																									
Date	Day	Tides						Maximum Current in Knots (a negative number means outgoing current, "-" by itself indicates slack)																	
		Time	Ht	Time	Ht	Time	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts				
8/9/2018	Thu	5:13	0.31L	10:23	5.39H	17:12	0.18L	22:46	6.51H	3:12	-2.5	6:46	-	9:15	1.3	11:45	-	15:12	-2.4	18:40	-	21:15	2		
8/10/2018	Fri	6:10	0.07L	11:20	5.54H	18:11	0.04L	23:41	6.61H	0:39	-	4:00	-2.7	7:40	-	9:45	1.6	12:39	-	16:06	-2.6	19:34	-	21:51	2.3
8/11/2018	Sat	7:03	-0.13L	12:14	5.69H	19:07	-0.06L			1:27	-	4:54	-2.9	8:22	-	10:21	1.7	13:27	-	17:00	-2.7	20:28	-	22:39	2.4
8/12/2018	Sun	0:34	6.63H	7:54	-0.25L	13:07	5.81H	20:01	-0.08L	2:15	-	5:42	-3	9:10	-	11:09	1.9	14:21	-	17:54	-2.9	21:16	-	23:27	2.4
8/13/2018	Mon	1:26	6.56H	8:43	-0.28L	13:59	5.88H	20:54	-0.03L	3:03	-	6:24	-3.1	9:52	-	12:03	1.9	15:09	-	18:42	-2.9	22:04	-		
8/14/2018	Tue	2:18	6.41H	9:31	-0.23L	14:51	5.91H	21:47	0.09L	0:27	2.3	3:45	-	7:06	-3	10:40	-	12:51	2	15:57	-	19:24	-2.8	22:58	-
8/15/2018	Wed	3:10	6.18H	10:19	-0.12L	15:43	5.91H	22:40	0.25L	1:21	2.2	4:39	-	7:54	-2.8	11:28	-	13:39	1.9	16:51	-	20:18	-2.7	23:58	-
8/16/2018	Thu	4:03	5.93H	11:06	0.04L	16:37	5.87H	23:34	0.42L	2:15	2	5:27	-	8:42	-2.6	12:22	-	14:27	1.8	17:51	-	21:18	-2.5		
8/17/2018	Fri	4:58	5.69H	11:54	0.2L	17:32	5.84H			0:52	-	3:27	1.8	6:15	-	9:42	-2.4	13:10	-	15:45	1.7	18:45	-	22:18	-2.4
8/18/2018	Sat	0:28	0.56L	5:55	5.48H	12:43	0.35L	18:27	5.83H	1:46	-	4:39	1.6	7:09	-	10:30	-2.3	14:04	-	16:57	1.7	19:39	-	23:06	-2.3
8/19/2018	Sun	1:23	0.65L	6:52	5.34H	13:34	0.47L	19:23	5.85H	2:46	-	5:39	1.5	7:57	-	11:12	-2.2	14:58	-	17:57	1.6	20:33	-	23:54	-2.1
8/20/2018	Mon	2:19	0.66L	7:49	5.28H	14:25	0.54L	20:17	5.9H	3:46	-	6:33	1.4	8:51	-	11:54	-2.1	15:52	-	18:51	1.5	21:27	-		
8/21/2018	Tue	3:14	0.62L	8:44	5.29H	15:17	0.55L	21:09	5.98H	0:48	-2	4:34	-	7:27	1.3	9:39	-	12:48	-2	16:40	-	19:51	1.5	22:15	-
8/22/2018	Wed	4:06	0.53L	9:36	5.33H	16:07	0.53L	21:58	6.06H	1:42	-1.9	5:22	-	8:21	1.3	10:27	-	13:36	-1.9	17:22	-	20:45	1.5	22:57	-
8/23/2018	Thu	4:56	0.44L	10:25	5.38H	16:56	0.49L	22:44	6.11H	2:24	-1.9	6:04	-	9:03	1.4	11:09	-	14:18	-1.9	18:04	-	21:15	1.6	23:39	-
8/24/2018	Fri	5:42	0.36L	11:11	5.42H	17:42	0.46L	23:27	6.13H	2:54	-1.9	6:46	-	9:33	1.4	11:45	-	14:42	-2	18:46	-	21:21	1.7		
8/25/2018	Sat	6:26	0.33L	11:53	5.44H	18:26	0.45L			0:15	-	3:24	-2	7:22	-	9:39	1.4	12:27	-	15:00	-2.1	19:22	-	21:33	1.9
8/26/2018	Sun	0:07	6.11H	7:06	0.33L	12:32	5.45H	19:09	0.47L	0:57	-	3:36	-2.1	7:58	-	9:51	1.6	13:03	-	15:18	-2.2	20:04	-	22:03	2
8/27/2018	Mon	0:43	6.05H	7:45	0.36L	13:08	5.46H	19:49	0.52L	1:39	-	4:06	-2.2	8:34	-	10:21	1.8	13:45	-	16:00	-2.3	20:40	-	22:39	2.1
8/28/2018	Tue	1:17	5.99H	8:21	0.4L	13:41	5.5H	20:29	0.59L	2:21	-	4:54	-2.3	9:10	-	10:57	1.9	14:21	-	17:00	-2.4	21:22	-	23:27	2.1
8/29/2018	Wed	1:50	5.92H	8:56	0.44L	14:11	5.58H	21:10	0.67L	3:03	-	5:42	-2.3	9:46	-	11:45	2	15:03	-	17:54	-2.4	22:10	-		
8/30/2018	Thu	2:24	5.84H	9:30	0.47L	14:44	5.7H	21:52	0.75L	0:15	2.1	3:45	-	6:24	-2.3	10:34	-	12:33	2	15:51	-	18:42	-2.3	23:04	-
8/31/2018	Fri	3:01	5.74H	10:04	0.49L	15:22	5.81H	22:40	0.84L	1:03	1.9	4:33	-	7:00	-2.2	11:22	-	13:21	2	16:51	-	19:30	-2.1		
9/1/2018	Sat	3:46	5.6H	10:44	0.52L	16:09	5.88H	23:36	0.92L	0:04	-	1:51	1.7	5:27	-	7:42	-2	12:16	-	14:09	1.9	17:51	-	21:30	-1.9
9/2/2018	Sun	4:40	5.42H	11:33	0.56L	17:05	5.9H			1:04	-	2:45	1.4	6:21	-	9:30	-1.9	13:16	-	15:03	1.7	18:57	-	22:36	-2
9/3/2018	Mon	0:40	0.96L	5:45	5.25H	12:33	0.61L	18:11	5.92H	2:10	-	3:45	1.2	7:15	-	10:42	-1.9	14:16	-	16:09	1.6	20:09	-	23:42	-2
9/4/2018	Tue	1:47	0.92L	6:55	5.15H	13:42	0.61L	19:21	5.98H	3:16	-	4:51	1.1	8:21	-	11:42	-1.9	15:22	-	17:15	1.6	21:21	-		
9/5/2018	Wed	2:52	0.78L	8:03	5.18H	14:51	0.53L	20:29	6.11H	0:48	-2.1	4:28	-	5:57	1	9:33	-	12:54	-2	16:28	-	18:21	1.5	22:27	-
9/6/2018	Thu	3:55	0.54L	9:08	5.33H	15:56	0.36L	21:32	6.28H	1:54	-2.3	5:28	-	8:15	1.1	10:33	-	14:06	-2.2	17:28	-	20:21	1.7	23:21	-
9/7/2018	Fri	4:53	0.27L	10:07	5.54H	16:58	0.17L	22:31	6.43H	2:48	-2.6	6:22	-	9:03	1.4	11:27	-	15:00	-2.5	18:28	-	21:15	2		
9/8/2018	Sat	5:48	0.02L	11:03	5.76H	17:56	-0.01L	23:25	6.52H	0:15	-	3:36	-2.8	7:16	-	9:39	1.7	12:21	-	15:48	-2.7	19:22	-	21:51	2.2
9/9/2018	Sun	6:40	-0.16L	11:56	5.96H	18:51	-0.11L			1:03	-	4:24	-2.9	8:04	-	10:15	2	13:15	-	16:42	-2.9	20:16	-	22:33	2.3
9/10/2018	Mon	0:17	6.53H	7:29	-0.24L	12:46	6.09H	19:43	-0.13L	1:51	-	5:18	-3	8:46	-	10:57	2.1	14:03	-	17:36	-3.1	21:04	-	23:27	2.3
9/11/2018	Tue	1:07	6.43H	8:16	-0.22L	13:35	6.14H	20:34	-0.05L	2:39	-	6:00	-3.1	9:28	-	11:45	2.2	14:51	-	18:24	-3.1	21:52	-		
9/12/2018	Wed	1:56	6.25H	9:02	-0.11L	14:24	6.12H	21:25	0.11L	0:21	2.3	3:21	-	6:42	-3	10:10	-	12:33	2.2	15:39	-	19:06	-3	22:46	-
9/13/2018	Thu	2:45	6.02H	9:47	0.07L	15:12	6.05H	22:15	0.3L	1:15	2.2	4:09	-	7:24	-2.8	10:58	-	13:21	2.1	16:33	-	19:54	-2.8	23:40	-
9/14/2018	Fri	3:35	5.76H	10:31	0.27L	16:02	5.94H	23:05	0.5L	1:57	2	4:57	-	8:06	-2.5	11:46	-	14:03	2	17:21	-	20:48	-2.6		
9/15/2018	Sat	4:28	5.51H	11:17	0.47L	16:54	5.82H	23:57	0.66L	0:28	-	2:57	1.7	5:45	-	9:00	-2.3	12:34	-	14:51	1.8	18:15	-	21:48	-2.3
9/16/2018	Sun	5:22	5.31H	12:05	0.63L	17:48	5.73H			1:22	-	4:09	1.5	6:33	-	9:48	-2.1	13:28	-	16:15	1.6	19:03	-	22:36	-2.1
9/17/2018	Mon	0:50	0.76L	6:19	5.19H	12:55	0.73L	18:44	5.69H	2:10	-	5:09	1.4	7:21	-	10:36	-2	14:16	-	17:15	1.4	19:51	-	23:18	-1.9
9/18/2018	Tue	1:44	0.79L	7:17	5.15H	13:47	0.77L	19:40	5.72H	3:04	-	5:57	1.2	8:09	-	11:12	-1.9	15:04	-	17:57	1.3	20:39	-	23:54	-1.8
9/19/2018	Wed	2:38	0.74L	8:12	5.19H	14:40	0.73L	20:35	5.8H	3:52	-	6:45	1.1	8:57	-	11:42	-1.7	15:52	-	18:27	1.2	21:27	-		
9/20/2018	Thu	3:30	0.64L	9:05	5.28H	15:33	0.65L	21:26	5.89H	0:36	-1.7	4:40	-	7:51	1.1	9:45	-	12:06	-1.7	16:40	-	19:57	1.2	22:15	-
9/21/2018	Fri	4:20	0.52L	9:55	5.4H	16:24	0.54L	22:13	5.97H	1:30	-1.7	5:16	-	8:33	1.1	10:33	-	13:06	-1.7	17:22	-	20:33	1.3	22:57	-
9/22/2018	Sat	5:06	0.4L	10:40	5.5H	17:12	0.44L	22:57	6.01H	2:06	-1.8	5:58	-	8:57	1.2	11:09	-	13:54	-1.9	18:04	-	20:33	1.5	23:39	-
9/23/2018	Sun	5:50	0.32L	11:22	5.59H	17:59	0.37L	23:37	6.01H	2:36	-1.9	6:40	-	8:51	1.4	11:51	-	14:30	-2.1	18:52	-	21:03	1.7		
9/24/2018	Mon	6:32	0.28L	12:01	5.65H	18:44	0.35L			0:21	-	3:00	-2.1	7:22	-	9:21	1.7	12:33	-	15:06	-2.3	19:40	-	21:39	2
9/25/2018	Tue	0:15	5.96H	7:11	0.28L	12:36	5.71H	19:27	0.38L	1:09	-	3:30	-2.2	7:58	-	9:51	1.9	13:21	-	15:54	-2.4	20:22	-	22:21	2.1
9/26/2018	Wed	0:50	5.89H	7:49	0.32L	13:09	5.79H	20:10	0.44L	1:51	-	4:24	-2.3	8:40	-	10:33	2.1	14:03	-	17:12	-2.4	21:10	-	23:03	2
9/27/2018	Thu	1:25	5.8H	8:25	0.36L	13:41	5.88H	20:54	0.52L	2:33	-	5:24	-2.3	9:22	-	11:21	2.2	14:51	-	18:12	-2.5	21:58	-	23:51	1.9
9/28/2018	Fri	2:02	5.7H	9:01	0.41L	14:16	5.97H	21:40	0.62L	3:21	-	6:18	-2.3	10:10	-	12:09	2.2	15:39	-	19:00	-2.4	22:52	-		
9/29/2018	Sat	2:42	5.57H	9:39	0.47L	14:57	6.02H	22:31	0.71L	0:45	1.8	4:03	-	6:54	-2.2	10:58	-	13:03	2.2	16:39	-	19:54	-2.2	23:52	-
9/30/2018	Sun	3:30	5.41H	10:24	0.53L	15:46	6H	23:28	0.8L	1:33	1.6	4:57	-	7:42	-2	11:52	-	13:51	2	17:39	-	21:18	-2.1		
10/1/2018	Mon	4:27	5.23H	11:19	0.61L	16:45	5.93H			0															

Tides and Currents for New Castle- Times adjusted for Daylight Savings Time- NOAA Data

Date	Day	Tides						Maximum Current in Knots (a negative number means outgoing current, "-" by itself indicates slack)																	
		Time	Ht	Time	Ht	Time	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts						
10/3/2018	Wed	1:33	0.76L	6:43	5.06H	13:32	0.62L	19:06	5.87H	2:58	-	4:39	1	8:03	-	11:30	-1.9	14:58	-	16:57	1.6	20:57	-		
10/4/2018	Thu	2:35	0.59L	7:51	5.17H	14:40	0.5L	20:15	5.96H	0:24	-2.2	4:04	-	5:51	1.1	9:15	-	12:36	-2	16:04	-	18:03	1.5	22:03	-
10/5/2018	Fri	3:35	0.35L	8:54	5.39H	15:44	0.3L	21:18	6.1H	1:30	-2.4	5:04	-	7:51	1.2	10:21	-	13:48	-2.2	17:10	-	20:09	1.7	22:57	-
10/6/2018	Sat	4:32	0.1L	9:52	5.66H	16:44	0.08L	22:15	6.21H	2:24	-2.6	5:58	-	8:45	1.6	11:15	-	14:42	-2.6	18:10	-	21:03	2	23:51	-
10/7/2018	Sun	5:25	-0.11L	10:46	5.92H	17:40	-0.1L	23:08	6.27H	3:12	-2.8	6:46	-	9:27	1.9	12:09	-	15:30	-2.8	19:10	-	21:45	2.2		
10/8/2018	Mon	6:14	-0.24L	11:37	6.12H	18:34	-0.19L	23:58	6.24H	0:39	-	4:00	-2.9	7:34	-	10:03	2.2	12:57	-	16:24	-3	20:04	-	22:27	2.3
10/9/2018	Tue	7:02	-0.27L	12:25	6.22H	19:25	-0.18L			1:27	-	4:48	-3	8:22	-	10:39	2.3	13:51	-	17:18	-3.2	20:52	-	23:15	2.3
10/10/2018	Wed	0:46	6.12H	7:47	-0.18L	13:11	6.23H	20:14	-0.09L	2:15	-	5:36	-3	9:04	-	11:27	2.4	14:33	-	18:06	-3.2	21:40	-		
10/11/2018	Thu	1:33	5.94H	8:31	-0.02L	13:56	6.16H	21:02	0.08L	0:09	2.2	2:57	-	6:18	-2.9	9:46	-	12:15	2.3	15:21	-	18:48	-3.1	22:22	-
10/12/2018	Fri	2:19	5.71H	9:13	0.18L	14:41	6.03H	21:49	0.28L	0:57	2.1	3:39	-	6:54	-2.7	10:28	-	12:57	2.2	16:09	-	19:30	-2.9	23:16	-
10/13/2018	Sat	3:07	5.47H	9:56	0.4L	15:26	5.87H	22:36	0.47L	1:39	1.9	4:27	-	7:30	-2.5	11:16	-	13:39	2	16:51	-	20:12	-2.5		
10/14/2018	Sun	3:56	5.25H	10:39	0.58L	16:15	5.71H	23:24	0.63L	0:04	-	2:21	1.6	5:15	-	8:12	-2.2	11:58	-	14:09	1.8	17:39	-	21:06	-2.2
10/15/2018	Mon	4:48	5.07H	11:24	0.72L	17:06	5.58H			0:46	-	3:21	1.3	5:57	-	8:54	-1.9	12:46	-	14:45	1.5	18:21	-	21:54	-2
10/16/2018	Tue	0:14	0.73L	5:43	4.96H	12:13	0.8L	18:02	5.5H	1:34	-	4:27	1.2	6:39	-	9:42	-1.8	13:28	-	15:27	1.3	19:03	-	22:30	-1.8
10/17/2018	Wed	1:06	0.75L	6:40	4.93H	13:06	0.81L	18:58	5.48H	2:16	-	5:15	1	7:27	-	10:18	-1.7	14:10	-	16:15	1.2	19:51	-	22:54	-1.7
10/18/2018	Thu	1:58	0.71L	7:36	5H	14:01	0.76L	19:54	5.53H	3:04	-	5:09	0.9	8:15	-	10:36	-1.6	14:58	-	16:57	1.2	20:39	-	23:00	-1.7
10/19/2018	Fri	2:49	0.6L	8:29	5.12H	14:56	0.65L	20:47	5.61H	3:46	-	5:33	0.9	9:03	-	11:00	-1.7	15:52	-	17:39	1.2	21:27	-	23:30	-1.8
10/20/2018	Sat	3:39	0.46L	9:19	5.28H	15:49	0.51L	21:36	5.68H	4:28	-	6:15	1	9:51	-	11:42	-1.7	16:40	-	18:33	1.3	22:21	-		
10/21/2018	Sun	4:26	0.32L	10:05	5.45H	16:41	0.37L	22:22	5.72H	0:18	-1.8	5:16	-	7:03	1.2	10:39	-	12:42	-1.8	17:34	-	19:39	1.4	23:03	-
10/22/2018	Mon	5:12	0.21L	10:47	5.6H	17:31	0.25L	23:04	5.73H	1:42	-1.9	5:58	-	8:03	1.4	11:27	-	14:18	-2	18:28	-	20:33	1.6	23:51	-
10/23/2018	Tue	5:55	0.14L	11:27	5.73H	18:19	0.18L	23:44	5.7H	2:30	-2.1	6:46	-	8:51	1.7	12:15	-	15:06	-2.2	19:22	-	21:15	1.8		
10/24/2018	Wed	6:36	0.11L	12:03	5.84H	19:06	0.16L			0:39	-	3:12	-2.2	7:28	-	9:33	2.1	13:03	-	16:06	-2.4	20:10	-	22:03	1.9
10/25/2018	Thu	0:23	5.63H	7:16	0.12L	12:39	5.95H	19:52	0.18L	1:27	-	4:06	-2.3	8:16	-	10:15	2.3	13:51	-	17:18	-2.5	20:58	-	22:45	1.9
10/26/2018	Fri	1:02	5.54H	7:56	0.15L	13:15	6.03H	20:39	0.23L	2:09	-	5:18	-2.3	8:58	-	10:57	2.3	14:39	-	18:12	-2.5	21:46	-	23:33	1.8
10/27/2018	Sat	1:43	5.43H	8:38	0.21L	13:55	6.07H	21:29	0.31L	2:57	-	6:12	-2.3	9:46	-	11:51	2.3	15:33	-	19:00	-2.5	22:40	-		
10/28/2018	Sun	2:28	5.29H	9:23	0.28L	14:40	6.04H	22:22	0.39L	0:27	1.6	3:45	-	6:54	-2.2	10:40	-	12:39	2.3	16:27	-	19:54	-2.3	23:40	-
10/29/2018	Mon	3:20	5.13H	10:14	0.36L	15:33	5.95H	23:18	0.45L	1:15	1.5	4:39	-	7:48	-2	11:34	-	13:33	2.1	17:27	-	21:06	-2.3		
10/30/2018	Tue	4:18	4.99H	11:13	0.44L	16:35	5.81H			0:40	-	2:09	1.3	5:39	-	9:06	-1.9	12:34	-	14:27	1.9	18:21	-	22:06	-2.3
10/31/2018	Wed	0:16	0.45L	5:24	4.92H	12:17	0.47L	17:44	5.69H	1:34	-	3:09	1.1	6:39	-	10:18	-1.9	13:34	-	15:27	1.7	19:21	-	23:06	-2.4