

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	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts				
4/15/2019	Monday	3:11	0.38L	8:42	5.76H	15:59	0.15L	21:22	5.54H	1:12	-2	4:34	-	6:39	1.6	10:27	-	13:54	-2.5	17:28	-	20:15	1.4	22:45	-
4/16/2019	Tuesday	4:14	0.12L	9:44	5.88H	16:54	-0.06L	22:17	5.86H	2:12	-2.3	5:40	-	8:33	1.8	11:21	-	14:42	-2.7	18:22	-	21:03	1.7	23:39	-
4/17/2019	Wednesday	5:14	-0.13L	10:41	5.98H	17:46	-0.2L	23:10	6.13H	3:06	-2.6	6:40	-	9:21	2	12:09	-	15:30	-2.8	19:10	-	21:39	2		
4/18/2019	Thursday	6:09	-0.32L	11:34	6.01H	18:35	-0.27L	23:59	6.31H	0:33	-	4:00	-2.9	7:34	-	10:03	2.2	13:03	-	16:18	-2.9	19:52	-	22:15	2.3
4/19/2019	Friday	7:02	-0.42L	12:24	5.97H	19:22	-0.23L			1:27	-	4:54	-3.1	8:28	-	10:45	2.2	13:45	-	17:12	-2.9	20:40	-	22:57	2.4
4/20/2019	Saturday	0:46	6.39H	7:53	-0.4L	13:13	5.85H	20:08	-0.1L	2:09	-	5:42	-3.2	9:16	-	11:33	2.2	14:33	-	17:54	-2.9	21:22	-	23:45	2.4
4/21/2019	Sunday	1:32	6.36H	8:42	-0.29L	14:01	5.68H	20:52	0.1L	2:57	-	6:30	-3.2	10:04	-	12:27	2.1	15:15	-	18:36	-2.8	22:04	-		
4/22/2019	Monday	2:18	6.24H	9:30	-0.11L	14:49	5.49H	21:36	0.33L	0:33	2.4	3:45	-	7:12	-3	10:52	-	13:15	1.9	16:03	-	19:12	-2.6	22:52	-
4/23/2019	Tuesday	3:04	6.05H	10:18	0.1L	15:39	5.3H	22:21	0.55L	1:15	2.2	4:33	-	7:54	-2.7	11:40	-	13:57	1.7	16:51	-	19:54	-2.3	23:40	-
4/24/2019	Wednesday	3:51	5.85H	11:06	0.31L	16:30	5.14H	23:07	0.74L	1:57	2	5:21	-	8:48	-2.4	12:34	-	14:51	1.4	17:39	-	20:42	-2.1		
4/25/2019	Thursday	4:42	5.64H	11:55	0.48L	17:25	5.04H	23:56	0.88L	0:28	-	2:39	1.7	6:09	-	9:42	-2.1	13:22	-	16:09	1.2	18:27	-	21:36	-1.9
4/26/2019	Friday	5:37	5.48H	12:45	0.6L	18:21	5.01H			1:16	-	3:27	1.4	6:51	-	10:24	-1.9	14:04	-	17:03	1.1	19:09	-	22:24	-1.7
4/27/2019	Saturday	0:49	0.94L	6:34	5.38H	13:37	0.64L	19:17	5.07H	2:04	-	4:27	1.2	7:39	-	11:00	-1.7	14:52	-	17:51	1	20:03	-	22:54	-1.6
4/28/2019	Sunday	1:44	0.93L	7:32	5.35H	14:28	0.63L	20:11	5.19H	2:52	-	5:03	1.1	8:27	-	11:30	-1.6	15:40	-	18:33	0.9	20:51	-	23:12	-1.5
4/29/2019	Monday	2:40	0.85L	8:27	5.37H	15:18	0.57L	21:02	5.35H	3:46	-	5:39	1	9:15	-	11:36	-1.6	16:22	-	18:15	0.9	19:39	0.9	21:45	-
4/30/2019	Tuesday	3:35	0.71L	9:19	5.41H	16:07	0.49L	21:50	5.52H	4:34	-	6:21	1	10:03	-	12:12	-1.6	17:04	-	18:57	1	20:21	1	22:27	-
5/1/2019	Wednesday	4:28	0.56L	10:08	5.44H	16:52	0.43L	22:34	5.67H	0:36	-1.6	5:22	-	7:27	1.1	10:51	-	13:30	-1.7	17:46	-	19:57	1.2	23:09	-
5/2/2019	Thursday	5:18	0.42L	10:53	5.44H	17:36	0.4L	23:15	5.8H	2:12	-1.8	6:10	-	8:33	1.3	11:33	-	14:18	-1.9	18:28	-	20:39	1.5	23:57	-
5/3/2019	Friday	6:07	0.31L	11:35	5.41H	18:18	0.4L	23:52	5.9H	2:54	-2.1	7:04	-	9:09	1.6	12:21	-	14:54	-2.1	19:10	-	21:15	1.9		
5/4/2019	Saturday	6:54	0.25L	12:15	5.36H	18:58	0.43L			0:45	-	3:42	-2.3	7:52	-	9:45	1.7	13:09	-	15:36	-2.2	19:52	-	21:57	2.1
5/5/2019	Sunday	0:27	5.99H	7:39	0.24L	12:54	5.3H	19:37	0.47L	1:33	-	4:48	-2.4	8:40	-	10:27	1.8	13:51	-	16:36	-2.2	20:34	-	22:39	2.3
5/6/2019	Monday	1:00	6.08H	8:25	0.26L	13:33	5.24H	20:17	0.52L	2:21	-	5:48	-2.5	9:28	-	11:09	1.7	14:33	-	17:36	-2.3	21:22	-	23:27	2.4
5/7/2019	Tuesday	1:36	6.14H	9:11	0.3L	14:15	5.18H	20:59	0.57L	3:09	-	6:36	-2.5	10:22	-	12:03	1.6	15:21	-	18:24	-2.2	22:10	-		
5/8/2019	Wednesday	2:16	6.17H	9:59	0.36L	15:01	5.13H	21:46	0.63L	0:21	2.4	4:03	-	7:24	-2.5	11:16	-	12:57	1.5	16:09	-	19:12	-2.1	23:04	-
5/9/2019	Thursday	3:03	6.14H	10:50	0.41L	15:54	5.08H	22:40	0.68L	1:09	2.3	4:57	-	8:24	-2.3	12:10	-	13:45	1.4	17:09	-	20:12	-1.9		
5/10/2019	Friday	3:58	6.03H	11:45	0.43L	16:54	5.07H	23:41	0.71L	0:04	-	1:57	2.1	5:57	-	9:36	-2.3	13:10	-	14:33	1.2	18:09	-	21:42	-1.8
5/11/2019	Saturday	5:02	5.9H	12:42	0.41L	17:58	5.14H			0:58	-	2:57	1.9	6:51	-	10:30	-2.3	14:04	-	15:39	1.1	19:09	-	22:42	-1.9
5/12/2019	Sunday	0:46	0.69L	6:11	5.79H	13:40	0.34L	19:03	5.31H	2:04	-	4:03	1.7	7:51	-	11:24	-2.4	15:10	-	16:57	1.2	20:21	-	23:42	-2
5/13/2019	Monday	1:52	0.59L	7:20	5.75H	14:37	0.22L	20:05	5.57H	3:10	-	5:15	1.6	8:57	-	12:24	-2.4	16:04	-	18:09	1.3	21:27	-		
5/14/2019	Tuesday	2:56	0.42L	8:25	5.77H	15:33	0.09L	21:03	5.86H	0:48	-2.1	4:16	-	6:33	1.5	9:57	-	13:24	-2.5	16:58	-	19:45	1.5	22:27	-
5/15/2019	Wednesday	3:58	0.22L	9:25	5.8H	16:27	-0.03L	21:58	6.14H	1:54	-2.4	5:22	-	8:15	1.7	10:51	-	14:18	-2.7	17:52	-	20:45	1.9	23:21	-
5/16/2019	Thursday	4:57	0.02L	10:20	5.82H	17:18	-0.09L	22:49	6.35H	2:48	-2.7	6:22	-	9:09	1.9	11:45	-	15:06	-2.8	18:40	-	21:27	2.2		
5/17/2019	Friday	5:52	-0.13L	11:13	5.79H	18:07	-0.07L	23:37	6.46H	0:15	-	3:42	-3	7:22	-	9:51	2.1	12:33	-	15:54	-2.9	19:28	-	22:03	2.4
5/18/2019	Saturday	6:44	-0.19L	12:03	5.72H	18:54	0.02L			1:09	-	4:30	-3.1	8:10	-	10:33	2.1	13:21	-	16:42	-2.9	20:16	-	22:39	2.5
5/19/2019	Sunday	0:23	6.47H	7:34	-0.16L	12:51	5.6H	19:39	0.18L	1:57	-	5:24	-3.2	8:58	-	11:21	2.1	14:03	-	17:30	-2.9	20:58	-	23:27	2.5
5/20/2019	Monday	1:08	6.39H	8:22	-0.06L	13:38	5.46H	20:23	0.38L	2:39	-	6:06	-3.1	9:40	-	12:09	2	14:45	-	18:12	-2.8	21:40	-		
5/21/2019	Tuesday	1:51	6.25H	9:07	0.1L	14:24	5.32H	21:06	0.58L	0:15	2.4	3:21	-	6:48	-2.9	10:28	-	12:57	1.8	15:33	-	18:48	-2.6	22:22	-
5/22/2019	Wednesday	2:35	6.08H	9:52	0.27L	15:12	5.19H	21:48	0.76L	0:51	2.2	4:09	-	7:30	-2.6	11:16	-	13:33	1.6	16:15	-	19:18	-2.3	23:10	-
5/23/2019	Thursday	3:20	5.89H	10:37	0.43L	16:00	5.08H	22:32	0.9L	1:27	1.9	4:51	-	8:06	-2.2	11:58	-	14:03	1.3	17:03	-	19:48	-2	23:52	-
5/24/2019	Friday	4:07	5.72H	11:21	0.55L	16:51	5.03H	23:18	0.99L	1:57	1.7	5:33	-	8:54	-1.9	12:40	-	14:33	1.1	17:45	-	19:54	-1.7		
5/25/2019	Saturday	4:57	5.56H	12:07	0.63L	17:43	5.03H			0:34	-	2:27	1.4	6:15	-	9:36	-1.8	13:22	-	15:03	1	18:33	-	20:24	-1.6
5/26/2019	Sunday	0:08	1.04L	5:51	5.44H	12:54	0.66L	18:37	5.1H	1:16	-	3:09	1.2	6:57	-	10:06	-1.7	14:04	-	15:51	0.9	19:15	-	21:36	-1.5
5/27/2019	Monday	1:03	1.03L	6:47	5.36H	13:42	0.65L	19:29	5.23H	2:04	-	3:57	1.1	7:39	-	10:24	-1.7	14:46	-	16:33	0.9	20:03	-	22:18	-1.5
5/28/2019	Tuesday	1:59	0.97L	7:42	5.31H	14:31	0.61L	20:20	5.4H	2:52	-	4:51	1.1	8:33	-	10:42	-1.7	15:34	-	17:15	1	20:57	-	23:00	-1.6
5/29/2019	Wednesday	2:56	0.87L	8:36	5.29H	15:19	0.55L	21:08	5.58H	3:52	-	5:39	1.1	9:27	-	11:24	-1.8	16:16	-	17:57	1.1	21:51	-	23:48	-1.7
5/30/2019	Thursday	3:52	0.73L	9:27	5.28H	16:07	0.5L	21:54	5.77H	4:46	-	6:33	1.1	10:15	-	12:18	-1.8	17:04	-	18:57	1.3	22:45	-		
5/31/2019	Friday	4:47	0.58L	10:15	5.26H	16:54	0.47L	22:36	5.93H	1:48	-1.8	5:46	-	7:45	1.2	11:03	-	13:48	-1.9	17:52	-	20:03	1.6	23:33	-
6/1/2019	Saturday	5:39	0.44L	11:01	5.24H	17:40	0.45L	23:17	6.08H	2:48	-2.1	6:40	-	8:45	1.4	11:51	-	14:42	-2.1	18:40	-	20:51	1.9		
6/2/2019	Sunday	6:29	0.33L	11:45	5.22H	18:25	0.44L	23:57	6.2H	0:27	-	3:42	-2.3	7:40	-	9:27	1.6	12:39	-	15:30	-2.2	19:28	-	21:39	2.2
6/3/2019	Monday	7:19	0.25L	12:29	5.2H	19:11	0.45L			1:21	-	4:42	-2.5	8:28	-	10:09	1.6	13:27	-	16:30	-2.3	20:16	-	22:21	2.4
6/4/2019	Tuesday	0:37	6.29H	8:07	0.2L	13:13	5.18H	19:57	0.46L	2:09	-	5:42	-2.6	9:16	-	10:51	1.6	14:15	-	17:30	-2.3	21:04	-	23:09	2.5
6/5/2019	Wednesday	1:19	6.34H	8:56	0.18L	14:00	5.17H	20:46	0.48L	2:57	-	6:30	-2.7	10:04	-	11:45	1.5	14:57	-	18:24	-2.3	21:52	-		
6/6/2019	Thursday	2:05	6.34H	9:46	0.17L	14:50	5.17H	21:38	0.51L	0:03	2.4	3:51	-	7:12	-2.6	10:58	-	12:39	1.5	15:51	-	19:06	-2.2	22:46	-
6/7/2019	Friday	2:56	6.27																						

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	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts				
6/12/2019	Wednesday	2:40	0.4L	8:06	5.67H	15:07	0.01L	20:43	6.04H	0:24	-2.2	3:58	-	6:27	1.5	9:33	-	12:54	-2.5	16:34	-	19:15	1.6	22:09	-
6/13/2019	Thursday	3:40	0.26L	9:05	5.62H	16:00	-0.01L	21:37	6.24H	1:30	-2.4	5:04	-	7:51	1.7	10:27	-	13:48	-2.6	17:22	-	20:21	2	23:03	-
6/14/2019	Friday	4:38	0.13L	10:00	5.58H	16:51	0.01L	22:28	6.37H	2:30	-2.7	6:04	-	8:51	1.9	11:15	-	14:42	-2.7	18:16	-	21:09	2.3	23:57	-
6/15/2019	Saturday	5:33	0.03L	10:52	5.53H	17:40	0.08L	23:16	6.42H	3:18	-2.9	7:04	-	9:33	2	12:03	-	15:24	-2.8	19:04	-	21:51	2.5		
6/16/2019	Sunday	6:25	-0.01L	11:42	5.46H	18:28	0.2L			0:51	-	4:06	-3	7:52	-	10:15	2	12:51	-	16:12	-2.8	19:52	-	22:27	2.5
6/17/2019	Monday	0:02	6.38H	7:14	0.02L	12:30	5.38H	19:13	0.35L	1:33	-	5:00	-3	8:40	-	10:57	2	13:39	-	17:00	-2.8	20:34	-	23:09	2.4
6/18/2019	Tuesday	0:45	6.29H	8:00	0.1L	13:15	5.28H	19:56	0.52L	2:21	-	5:48	-2.9	9:22	-	11:45	1.8	14:21	-	17:42	-2.6	21:16	-	23:51	2.3
6/19/2019	Wednesday	1:28	6.17H	8:43	0.22L	14:00	5.18H	20:37	0.67L	2:57	-	6:24	-2.7	9:58	-	12:27	1.7	14:57	-	18:18	-2.5	21:52	-		
6/20/2019	Thursday	2:09	6.03H	9:25	0.35L	14:45	5.1H	21:18	0.8L	0:27	2.1	3:39	-	7:00	-2.4	10:40	-	12:57	1.5	15:39	-	18:42	-2.2	22:34	-
6/21/2019	Friday	2:50	5.89H	10:06	0.46L	15:29	5.05H	21:59	0.89L	0:51	1.9	4:15	-	7:24	-2.1	11:22	-	13:15	1.3	16:21	-	18:54	-2	23:10	-
6/22/2019	Saturday	3:33	5.75H	10:46	0.54L	16:14	5.03H	22:42	0.96L	1:21	1.7	4:51	-	7:36	-1.9	11:58	-	13:39	1.2	17:03	-	19:06	-1.8	23:52	-
6/23/2019	Sunday	4:18	5.61H	11:26	0.59L	17:02	5.06H	23:29	1L	1:51	1.5	5:33	-	7:36	-1.8	12:34	-	14:09	1.1	17:45	-	19:36	-1.7		
6/24/2019	Monday	5:06	5.48H	12:08	0.6L	17:51	5.14H			0:34	-	2:27	1.4	6:15	-	8:12	-1.8	13:16	-	14:51	1.1	18:27	-	20:24	-1.6
6/25/2019	Tuesday	0:21	1.02L	5:58	5.35H	12:52	0.6L	18:41	5.26H	1:22	-	3:15	1.3	6:57	-	9:12	-1.8	13:58	-	15:39	1.1	19:15	-	21:36	-1.6
6/26/2019	Wednesday	1:18	1.01L	6:53	5.24H	13:39	0.58L	19:31	5.42H	2:10	-	4:09	1.2	7:51	-	10:12	-1.8	14:46	-	16:33	1.2	20:15	-	22:36	-1.7
6/27/2019	Thursday	2:17	0.96L	7:49	5.15H	14:29	0.56L	20:21	5.6H	3:16	-	5:09	1.2	8:51	-	11:00	-1.9	15:40	-	17:27	1.3	21:21	-	23:30	-1.7
6/28/2019	Friday	3:16	0.86L	8:43	5.11H	15:20	0.53L	21:10	5.79H	4:22	-	6:03	1.1	9:45	-	11:48	-1.9	16:28	-	18:21	1.4	22:21	-		
6/29/2019	Saturday	4:14	0.71L	9:36	5.09H	16:12	0.49L	21:57	5.99H	1:30	-1.8	5:22	-	7:09	1.1	10:39	-	13:24	-1.9	17:22	-	19:27	1.6	23:15	-
6/30/2019	Sunday	5:11	0.54L	10:27	5.1H	17:04	0.44L	22:44	6.16H	2:36	-2.1	6:22	-	8:21	1.2	11:27	-	14:30	-2.1	18:16	-	20:33	1.9		
7/1/2019	Monday	6:05	0.37L	11:16	5.13H	17:56	0.39L	23:30	6.32H	0:15	-	3:36	-2.3	7:22	-	9:09	1.4	12:15	-	15:24	-2.3	19:10	-	21:21	2.2
7/2/2019	Tuesday	6:57	0.22L	12:05	5.18H	18:48	0.33L			1:09	-	4:30	-2.5	8:10	-	9:51	1.5	13:09	-	16:24	-2.3	20:04	-	22:03	2.4
7/3/2019	Wednesday	0:17	6.43H	7:48	0.09L	12:54	5.23H	19:40	0.29L	1:57	-	5:24	-2.7	8:58	-	10:39	1.6	13:57	-	17:24	-2.4	20:52	-	22:51	2.5
7/4/2019	Thursday	1:05	6.48H	8:38	0L	13:44	5.29H	20:33	0.27L	2:45	-	6:18	-2.8	9:46	-	11:27	1.6	14:45	-	18:18	-2.4	21:40	-	23:45	2.4
7/5/2019	Friday	1:55	6.46H	9:28	-0.05L	14:36	5.36H	21:27	0.27L	3:33	-	7:00	-2.8	10:34	-	12:21	1.6	15:33	-	19:00	-2.3	22:34	-		
7/6/2019	Saturday	2:48	6.37H	10:18	-0.08L	15:30	5.44H	22:23	0.3L	0:39	2.3	4:21	-	7:48	-2.6	11:28	-	13:09	1.6	16:33	-	19:54	-2.2	23:28	-
7/7/2019	Sunday	3:43	6.21H	11:08	-0.08L	16:27	5.53H	23:20	0.35L	1:27	2.1	5:15	-	8:42	-2.5	12:22	-	14:03	1.5	17:33	-	21:06	-2.1		
7/8/2019	Monday	4:42	6.02H	12:00	-0.06L	17:26	5.65H			0:28	-	2:21	1.9	6:09	-	9:42	-2.5	13:16	-	14:57	1.5	18:33	-	22:12	-2.2
7/9/2019	Tuesday	0:20	0.4L	5:44	5.82H	12:52	-0.03L	18:25	5.79H	1:28	-	3:33	1.7	7:03	-	10:36	-2.5	14:10	-	16:15	1.5	19:33	-	23:06	-2.3
7/10/2019	Wednesday	1:20	0.41L	6:45	5.65H	13:45	0L	19:24	5.94H	2:34	-	5:03	1.6	8:03	-	11:24	-2.5	15:04	-	17:33	1.6	20:39	-		
7/11/2019	Thursday	2:21	0.39L	7:46	5.52H	14:39	0.05L	20:21	6.08H	0:06	-2.4	3:40	-	6:15	1.6	9:03	-	12:18	-2.5	16:04	-	18:45	1.7	21:45	-
7/12/2019	Friday	3:21	0.33L	8:44	5.45H	15:33	0.1L	21:16	6.2H	1:06	-2.5	4:46	-	7:27	1.6	9:57	-	13:18	-2.5	16:58	-	19:57	2	22:45	-
7/13/2019	Saturday	4:18	0.25L	9:40	5.41H	16:25	0.15L	22:07	6.27H	2:06	-2.6	5:46	-	8:33	1.8	10:51	-	14:12	-2.6	17:46	-	20:51	2.2	23:33	-
7/14/2019	Sunday	5:12	0.18L	10:32	5.38H	17:15	0.23L	22:56	6.29H	2:54	-2.8	6:40	-	9:15	1.9	11:33	-	15:00	-2.7	18:40	-	21:33	2.4		
7/15/2019	Monday	6:03	0.14L	11:22	5.34H	18:03	0.32L	23:41	6.26H	0:27	-	3:42	-2.8	7:28	-	9:57	1.9	12:21	-	15:42	-2.7	19:28	-	22:09	2.4
7/16/2019	Tuesday	6:51	0.15L	12:09	5.3H	18:48	0.43L			1:09	-	4:30	-2.7	8:16	-	10:39	1.9	13:09	-	16:30	-2.6	20:10	-	22:45	2.3
7/17/2019	Wednesday	0:24	6.19H	7:35	0.21L	12:53	5.25H	19:30	0.54L	1:51	-	5:18	-2.6	8:52	-	11:15	1.7	13:51	-	17:12	-2.5	20:46	-	23:15	2.1
7/18/2019	Thursday	1:05	6.1H	8:17	0.3L	13:36	5.19H	20:11	0.65L	2:27	-	5:54	-2.4	9:28	-	11:51	1.6	14:27	-	17:48	-2.3	21:22	-	23:45	1.9
7/19/2019	Friday	1:45	6H	8:56	0.4L	14:16	5.15H	20:50	0.75L	3:03	-	6:24	-2.2	9:58	-	12:09	1.4	15:03	-	18:12	-2.1	21:58	-		
7/20/2019	Saturday	2:23	5.88H	9:33	0.49L	14:56	5.13H	21:29	0.83L	0:09	1.8	3:39	-	6:42	-2.1	10:34	-	12:27	1.3	15:39	-	18:18	-2	22:34	-
7/21/2019	Sunday	3:01	5.77H	10:09	0.55L	15:35	5.15H	22:09	0.89L	0:45	1.7	4:15	-	6:42	-2	11:10	-	13:03	1.3	16:21	-	18:30	-2	23:16	-
7/22/2019	Monday	3:40	5.64H	10:44	0.58L	16:16	5.2H	22:52	0.95L	1:15	1.7	4:57	-	7:00	-2	11:52	-	13:33	1.4	17:03	-	19:00	-1.9	23:58	-
7/23/2019	Tuesday	4:22	5.5H	11:20	0.59L	16:58	5.28H	23:42	1.01L	1:57	1.6	5:39	-	7:36	-1.9	12:28	-	14:15	1.4	17:45	-	19:48	-1.9		
7/24/2019	Wednesday	5:09	5.34H	12:00	0.59L	17:45	5.38H			0:52	-	2:45	1.5	6:27	-	8:30	-1.9	13:16	-	15:03	1.4	18:39	-	20:54	-1.8
7/25/2019	Thursday	0:38	1.04L	6:03	5.19H	12:46	0.6L	18:36	5.5H	1:46	-	3:39	1.3	7:15	-	9:48	-1.8	14:04	-	15:57	1.4	19:39	-	22:30	-1.8
7/26/2019	Friday	1:39	1.04L	7:01	5.07H	13:37	0.6L	19:30	5.65H	2:46	-	4:39	1.2	8:15	-	10:42	-1.9	15:04	-	16:57	1.5	20:51	-	23:42	-1.8
7/27/2019	Saturday	2:42	0.97L	8:02	5.01H	14:35	0.59L	20:26	5.83H	3:58	-	5:33	1.1	9:15	-	11:36	-1.9	16:04	-	17:57	1.6	21:57	-		
7/28/2019	Sunday	3:44	0.83L	9:00	5.02H	15:35	0.54L	21:21	6.03H	1:18	-1.9	5:04	-	6:39	1	10:15	-	13:06	-1.9	16:58	-	18:57	1.7	23:03	-
7/29/2019	Monday	4:44	0.63L	9:57	5.08H	16:35	0.44L	22:15	6.23H	2:24	-2.1	6:04	-	7:57	1.1	11:03	-	14:18	-2.1	17:58	-	20:15	1.9	23:57	-
7/30/2019	Tuesday	5:40	0.4L	10:51	5.19H	17:33	0.32L	23:07	6.41H	3:18	-2.4	7:04	-	9:03	1.3	11:57	-	15:18	-2.3	18:52	-	21:09	2.1		
7/31/2019	Wednesday	6:34	0.18L	11:43	5.33H	18:29	0.19L	23:59	6.54H	0:51	-	4:12	-2.6	7:52	-	9:39	1.5	12:51	-	16:12	-2.4	19:46	-	21:51	2.3
8/1/2019	Thursday	7:26	-0.01L	12:34	5.46H	19:24	0.09L			1:45	-	5:06	-2.7	8:40	-	10:21	1.6	13:39	-	17:12	-2.5	20:40	-	22:39	2.4
8/2/2019	Friday	0:50	6.6H	8:16	-0.14L	13:25	5.6H	20:18	0.04L	2:27	-	6:00	-2.8	9:28	-	11:09	1.7	14:33	-	18:06	-2.6	21:28	-	23:33	2.3
8/3/2019	Saturday	1:42	6.56H	9:05	-0.21L	14:17	5.71H	21:12	0.05L	3:15	-	6:42	-2.8	10:10	-	12:03	1.7	15:21	-	18:54	-2.6	22:22	-		
8/4/2019	Sunday	2:34	6.44H	9:54	-0.21L																				

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	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts				
8/9/2019	Friday	1:59	0.47L	7:24	5.4H	14:11	0.24L	19:57	6.03H	3:22	-	5:57	1.6	8:33	-	11:48	-2.4	15:34	-	18:15	1.8	21:21	-		
8/10/2019	Saturday	2:58	0.46L	8:23	5.34H	15:05	0.31L	20:53	6.09H	0:36	-2.4	4:22	-	6:57	1.6	9:27	-	12:48	-2.4	16:28	-	19:27	1.9	22:15	-
8/11/2019	Sunday	3:55	0.4L	9:19	5.34H	15:59	0.36L	21:45	6.14H	1:42	-2.5	5:22	-	8:03	1.6	10:21	-	13:42	-2.4	17:22	-	20:27	2	23:09	-
8/12/2019	Monday	4:48	0.33L	10:11	5.36H	16:50	0.38L	22:34	6.17H	2:30	-2.5	6:16	-	8:57	1.7	11:09	-	14:36	-2.5	18:16	-	21:15	2.1	23:51	-
8/13/2019	Tuesday	5:38	0.28L	11:00	5.39H	17:38	0.41L	23:20	6.18H	3:18	-2.5	7:04	-	9:39	1.8	11:51	-	15:18	-2.4	19:04	-	21:51	2.1		
8/14/2019	Wednesday	6:24	0.26L	11:46	5.4H	18:23	0.46L			0:39	-	4:00	-2.4	7:46	-	10:15	1.7	12:39	-	16:00	-2.4	19:46	-	22:21	2
8/15/2019	Thursday	0:03	6.15H	7:07	0.29L	12:29	5.39H	19:06	0.52L	1:15	-	4:42	-2.2	8:22	-	10:39	1.6	13:21	-	16:36	-2.3	20:22	-	22:45	1.9
8/16/2019	Friday	0:43	6.08H	7:47	0.36L	13:09	5.37H	19:46	0.6L	1:51	-	5:18	-2.1	8:52	-	10:57	1.5	13:57	-	17:06	-2.2	20:52	-	23:03	1.8
8/17/2019	Saturday	1:20	5.99H	8:24	0.44L	13:47	5.35H	20:25	0.68L	2:27	-	5:42	-2.1	9:22	-	11:15	1.5	14:33	-	17:30	-2.1	21:28	-	23:33	1.8
8/18/2019	Sunday	1:56	5.88H	8:58	0.52L	14:22	5.35H	21:03	0.77L	3:03	-	5:54	-2.1	9:52	-	11:45	1.5	15:03	-	17:42	-2.1	22:04	-		
8/19/2019	Monday	2:30	5.75H	9:31	0.58L	14:55	5.39H	21:42	0.85L	0:09	1.8	3:39	-	6:12	-2.1	10:28	-	12:21	1.6	15:39	-	18:12	-2.2	22:46	-
8/20/2019	Tuesday	3:05	5.62H	10:02	0.61L	15:28	5.45H	22:22	0.93L	0:51	1.8	4:21	-	6:36	-2.1	11:10	-	13:03	1.7	16:21	-	18:48	-2.2	23:34	-
8/21/2019	Wednesday	3:42	5.49H	10:34	0.63L	16:04	5.54H	23:09	1.01L	1:33	1.7	5:09	-	7:12	-2	11:52	-	13:45	1.7	17:15	-	19:30	-2		
8/22/2019	Thursday	4:25	5.33H	11:11	0.64L	16:48	5.61H			0:28	-	2:15	1.6	5:57	-	8:00	-1.9	12:40	-	14:33	1.7	18:09	-	20:30	-1.9
8/23/2019	Friday	0:04	1.08L	5:18	5.17H	11:57	0.67L	17:41	5.68H	1:22	-	3:09	1.4	6:45	-	9:18	-1.8	13:34	-	15:27	1.6	19:15	-	22:30	-1.9
8/24/2019	Saturday	1:07	1.11L	6:20	5.04H	12:54	0.7L	18:43	5.76H	2:28	-	4:09	1.2	7:39	-	10:30	-1.9	14:34	-	16:33	1.6	20:27	-	23:36	-1.9
8/25/2019	Sunday	2:13	1.05L	7:26	4.98H	13:59	0.69L	19:48	5.88H	3:40	-	5:09	1.1	8:45	-	11:30	-1.9	15:34	-	17:33	1.6	21:39	-		
8/26/2019	Monday	3:17	0.89L	8:30	5.03H	15:07	0.61L	20:51	6.07H	1:00	-2	4:40	-	6:15	1	9:51	-	13:00	-1.9	16:40	-	18:33	1.6	22:39	-
8/27/2019	Tuesday	4:18	0.65L	9:31	5.17H	16:13	0.45L	21:51	6.28H	2:06	-2.2	5:46	-	7:39	1.1	10:45	-	14:12	-2.1	17:40	-	19:57	1.8	23:39	-
8/28/2019	Wednesday	5:15	0.38L	10:28	5.38H	17:14	0.25L	22:48	6.47H	3:00	-2.4	6:40	-	8:57	1.3	11:39	-	15:06	-2.3	18:40	-	21:03	2		
8/29/2019	Thursday	6:09	0.12L	11:22	5.61H	18:12	0.06L	23:41	6.6H	0:33	-	3:54	-2.6	7:34	-	9:33	1.6	12:39	-	16:06	-2.5	19:34	-	21:45	2.2
8/30/2019	Friday	7:01	-0.09L	12:13	5.82H	19:07	-0.07L			1:21	-	4:48	-2.8	8:16	-	10:09	1.8	13:27	-	17:00	-2.6	20:28	-	22:27	2.3
8/31/2019	Saturday	0:33	6.64H	7:50	-0.23L	13:04	6H	20:01	-0.13L	2:09	-	5:36	-2.9	9:04	-	10:57	1.9	14:15	-	17:54	-2.8	21:16	-	23:21	2.2
9/1/2019	Sunday	1:24	6.57H	8:38	-0.27L	13:55	6.11H	20:55	-0.1L	2:51	-	6:24	-2.9	9:46	-	11:45	2	15:03	-	18:42	-2.8	22:10	-		
9/2/2019	Monday	2:16	6.4H	9:26	-0.22L	14:46	6.16H	21:49	0.01L	0:15	2.2	3:39	-	7:00	-2.8	10:34	-	12:39	2	15:57	-	19:30	-2.8	23:04	-
9/3/2019	Tuesday	3:08	6.15H	10:14	-0.1L	15:39	6.13H	22:44	0.17L	1:09	2.1	4:33	-	7:48	-2.7	11:22	-	13:27	2	16:51	-	20:24	-2.6	23:58	-
9/4/2019	Wednesday	4:03	5.87H	11:03	0.06L	16:34	6.07H	23:40	0.35L	2:03	1.9	5:21	-	8:42	-2.5	12:16	-	14:15	1.9	17:51	-	21:24	-2.5		
9/5/2019	Thursday	5:00	5.61H	11:54	0.24L	17:31	5.98H			0:58	-	3:09	1.7	6:15	-	9:36	-2.4	13:10	-	15:21	1.8	18:45	-	22:24	-2.5
9/6/2019	Friday	0:37	0.49L	6:00	5.4H	12:47	0.4L	18:30	5.92H	1:52	-	4:39	1.6	7:09	-	10:30	-2.4	14:04	-	16:51	1.8	19:45	-	23:12	-2.4
9/7/2019	Saturday	1:35	0.57L	7:00	5.28H	13:42	0.51L	19:29	5.9H	2:58	-	5:33	1.5	8:03	-	11:18	-2.3	14:58	-	17:51	1.8	20:45	-		
9/8/2019	Sunday	2:32	0.58L	7:59	5.26H	14:37	0.56L	20:26	5.93H	0:06	-2.3	3:58	-	6:33	1.5	8:57	-	12:12	-2.2	15:58	-	18:57	1.7	21:45	-
9/9/2019	Monday	3:27	0.53L	8:55	5.32H	15:31	0.55L	21:20	5.99H	1:06	-2.2	4:52	-	7:39	1.4	9:51	-	13:12	-2.2	16:52	-	20:03	1.7	22:33	-
9/10/2019	Tuesday	4:20	0.44L	9:48	5.4H	16:22	0.51L	22:10	6.05H	2:00	-2.2	5:40	-	8:33	1.5	10:39	-	14:06	-2.1	17:46	-	20:51	1.7	23:15	-
9/11/2019	Wednesday	5:08	0.36L	10:36	5.49H	17:11	0.46L	22:56	6.09H	2:42	-2.1	6:28	-	9:15	1.6	11:21	-	14:48	-2.1	18:34	-	21:33	1.7	23:57	-
9/12/2019	Thursday	5:53	0.32L	11:21	5.55H	17:57	0.44L	23:38	6.08H	3:18	-2	7:04	-	9:45	1.5	12:03	-	15:24	-2.1	19:16	-	21:57	1.7		
9/13/2019	Friday	6:35	0.32L	12:03	5.59H	18:41	0.45L			0:39	-	3:54	-2	7:40	-	10:09	1.5	12:45	-	15:54	-2.1	19:52	-	22:09	1.7
9/14/2019	Saturday	0:18	6.02H	7:13	0.36L	12:41	5.59H	19:22	0.5L	1:15	-	4:18	-2	8:10	-	10:09	1.5	13:21	-	16:12	-2.1	20:28	-	22:27	1.7
9/15/2019	Sunday	0:55	5.91H	7:49	0.44L	13:16	5.59H	20:02	0.58L	1:51	-	4:36	-2	8:40	-	10:33	1.6	13:57	-	16:36	-2.2	21:04	-	22:57	1.8
9/16/2019	Monday	1:29	5.78H	8:23	0.52L	13:48	5.6H	20:41	0.68L	2:33	-	5:06	-2.1	9:16	-	11:09	1.8	14:33	-	17:24	-2.2	21:40	-	23:39	1.8
9/17/2019	Tuesday	2:02	5.64H	8:54	0.59L	14:17	5.64H	21:20	0.78L	3:09	-	5:36	-2.1	9:52	-	11:51	1.9	15:15	-	18:00	-2.3	22:22	-		
9/18/2019	Wednesday	2:34	5.5H	9:23	0.64L	14:46	5.71H	22:01	0.89L	0:21	1.8	3:51	-	6:18	-2.2	10:34	-	12:39	2	15:57	-	18:36	-2.3	23:16	-
9/19/2019	Thursday	3:10	5.37H	9:54	0.66L	15:21	5.78H	22:47	0.98L	1:09	1.7	4:39	-	6:54	-2.1	11:22	-	13:21	2	16:51	-	19:24	-2.2		
9/20/2019	Friday	3:52	5.23H	10:33	0.69L	16:06	5.82H	23:42	1.05L	0:10	-	1:57	1.6	5:27	-	7:36	-2	12:10	-	14:09	1.9	17:51	-	21:06	-2
9/21/2019	Saturday	4:45	5.08H	11:23	0.74L	17:01	5.81H			1:10	-	2:45	1.3	6:21	-	8:48	-1.8	13:10	-	15:03	1.8	18:57	-	22:30	-2
9/22/2019	Sunday	0:45	1.07L	5:50	4.96H	12:26	0.77L	18:08	5.81H	2:10	-	3:45	1.1	7:15	-	10:24	-1.8	14:10	-	16:09	1.7	20:03	-	23:30	-2
9/23/2019	Monday	1:50	0.99L	7:00	4.95H	13:38	0.74L	19:20	5.87H	3:16	-	4:51	1	8:21	-	11:24	-1.8	15:16	-	17:09	1.6	21:15	-		
9/24/2019	Tuesday	2:54	0.81L	8:07	5.07H	14:49	0.62L	20:28	6.02H	0:36	-2.1	4:22	-	5:51	1	9:33	-	12:48	-1.9	16:22	-	18:15	1.6	22:21	-
9/25/2019	Wednesday	3:54	0.54L	9:09	5.3H	15:56	0.4L	21:31	6.21H	1:48	-2.3	5:22	-	7:15	1.1	10:33	-	14:00	-2.1	17:22	-	19:45	1.6	23:15	-
9/26/2019	Thursday	4:50	0.25L	10:07	5.59H	16:57	0.15L	22:29	6.38H	2:42	-2.5	6:16	-	8:51	1.4	11:27	-	14:54	-2.4	18:28	-	21:03	1.9		
9/27/2019	Friday	5:43	-0.02L	11:01	5.88H	17:55	-0.07L	23:23	6.48H	0:09	-	3:30	-2.7	7:10	-	9:27	1.7	12:21	-	15:48	-2.6	19:22	-	21:39	2
9/28/2019	Saturday	6:34	-0.21L	11:52	6.13H	18:50	-0.21L			0:57	-	4:18	-2.8	7:52	-	10:03	2	13:15	-	16:48	-2.8	20:16	-	22:21	2.2
9/29/2019	Sunday	0:14	6.47H	7:23	-0.3L	12:42	6.3H	19:44	-0.26L	1:45	-	5:12	-2.9	8:40	-	10:39	2.1	14:03	-	17:36	-3	21:04	-	23:15	2.2
9/30/2019	Monday	1:05	6.36H	8:10	-0.29L	13:31	6.38H	20:37	-0.2L	2:33	-	6:00	-2.9	9:22	-	11:27	2.2	14:51	-	18:24	-3.1	21:52	-		
10/1/2019	Tuesday	1:55	6.16H	8:57	-0.18L	14:20	6.34H	21:29																	

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	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts				
10/6/2019	Sunday	1:05	0.6L	6:33	5.11H	13:10	0.69L	18:57	5.67H	2:28	-	5:15	1.4	7:27	-	10:48	-2.1	14:28	-	17:27	1.6	20:09	-	23:30	-2.1
10/7/2019	Monday	2:01	0.62L	7:31	5.12H	14:05	0.7L	19:55	5.69H	3:22	-	6:03	1.3	8:21	-	11:36	-2	15:22	-	18:21	1.5	21:03	-		
10/8/2019	Tuesday	2:54	0.56L	8:27	5.22H	14:59	0.65L	20:49	5.75H	0:24	-1.9	4:16	-	7:03	1.3	9:21	-	12:30	-1.8	16:22	-	19:27	1.4	21:51	-
10/9/2019	Wednesday	3:45	0.46L	9:20	5.36H	15:52	0.55L	21:40	5.83H	1:18	-1.8	4:58	-	8:03	1.3	10:09	-	13:24	-1.8	17:10	-	20:27	1.3	22:33	-
10/10/2019	Thursday	4:33	0.35L	10:08	5.5H	16:42	0.44L	22:26	5.87H	2:00	-1.8	5:40	-	8:51	1.3	10:51	-	14:12	-1.8	17:58	-	21:03	1.4	23:15	-
10/11/2019	Friday	5:17	0.28L	10:53	5.61H	17:29	0.36L	23:10	5.86H	2:36	-1.8	6:22	-	9:21	1.3	11:33	-	14:48	-1.9	18:40	-	21:33	1.4	23:57	-
10/12/2019	Saturday	5:59	0.25L	11:34	5.68H	18:15	0.32L	23:50	5.79H	3:00	-1.9	6:58	-	9:27	1.4	12:15	-	15:12	-2	19:22	-	21:39	1.5		
10/13/2019	Sunday	6:38	0.27L	12:11	5.71H	18:58	0.34L			0:39	-	3:12	-1.9	7:34	-	9:33	1.6	12:51	-	15:36	-2.1	19:58	-	21:57	1.7
10/14/2019	Monday	0:27	5.67H	7:14	0.33L	12:45	5.72H	19:40	0.4L	1:21	-	3:36	-2.1	8:04	-	10:03	1.8	13:33	-	16:12	-2.2	20:40	-	22:33	1.8
10/15/2019	Tuesday	1:02	5.52H	7:49	0.41L	13:15	5.74H	20:21	0.5L	2:03	-	4:12	-2.1	8:40	-	10:39	2	14:15	-	17:18	-2.3	21:22	-	23:09	1.8
10/16/2019	Wednesday	1:36	5.38H	8:21	0.48L	13:44	5.79H	21:03	0.6L	2:39	-	5:12	-2.2	9:22	-	11:21	2.2	14:57	-	18:06	-2.4	22:10	-	23:57	1.7
10/17/2019	Thursday	2:10	5.25H	8:53	0.54L	14:15	5.84H	21:46	0.7L	3:21	-	6:00	-2.2	10:04	-	12:09	2.2	15:45	-	18:48	-2.4	22:58	-		
10/18/2019	Friday	2:47	5.12H	9:28	0.58L	14:53	5.87H	22:34	0.79L	0:45	1.6	4:03	-	6:42	-2.2	10:52	-	13:03	2.2	16:39	-	19:36	-2.2	23:58	-
10/19/2019	Saturday	3:31	5H	10:11	0.63L	15:40	5.85H	23:29	0.84L	1:33	1.5	4:57	-	7:18	-2	11:46	-	13:51	2.1	17:39	-	21:06	-2.1		
10/20/2019	Sunday	4:26	4.89H	11:06	0.68L	16:38	5.79H			0:52	-	2:27	1.3	5:57	-	8:36	-1.8	12:46	-	14:45	1.9	18:39	-	22:18	-2.1
10/21/2019	Monday	0:28	0.82L	5:31	4.82H	12:14	0.7L	17:47	5.72H	1:52	-	3:21	1.1	6:51	-	10:18	-1.8	13:46	-	15:45	1.7	19:39	-	23:12	-2.2
10/22/2019	Tuesday	1:30	0.72L	6:41	4.88H	13:26	0.64L	19:00	5.74H	2:58	-	4:33	1.1	8:03	-	11:18	-1.8	14:52	-	16:51	1.6	20:51	-		
10/23/2019	Wednesday	2:31	0.52L	7:48	5.06H	14:35	0.47L	20:09	5.84H	0:12	-2.2	3:58	-	5:33	1.1	9:15	-	12:36	-1.9	16:04	-	17:57	1.5	21:51	-
10/24/2019	Thursday	3:29	0.26L	8:50	5.36H	15:40	0.24L	21:12	5.97H	1:18	-2.3	4:58	-	6:57	1.2	10:21	-	13:42	-2.1	17:10	-	19:33	1.5	22:51	-
10/25/2019	Friday	4:24	-0.01L	9:47	5.69H	16:41	-0.02L	22:10	6.08H	2:18	-2.5	5:52	-	8:39	1.5	11:15	-	14:42	-2.4	18:10	-	20:57	1.8	23:39	-
10/26/2019	Saturday	5:17	-0.24L	10:41	6H	17:39	-0.23L	23:03	6.12H	3:06	-2.7	6:40	-	9:21	1.9	12:09	-	15:36	-2.7	19:10	-	21:39	2		
10/27/2019	Sunday	6:07	-0.38L	11:31	6.23H	18:34	-0.36L	23:54	6.07H	0:33	-	3:54	-2.8	7:28	-	9:51	2.2	13:03	-	16:30	-2.9	20:04	-	22:21	2.1
10/28/2019	Monday	6:55	-0.41L	12:20	6.36H	19:27	-0.39L			1:21	-	4:42	-2.9	8:16	-	10:27	2.4	13:51	-	17:18	-3.1	20:52	-	23:03	2.1
10/29/2019	Tuesday	0:44	5.94H	7:43	-0.35L	13:08	6.36H	20:18	-0.31L	2:09	-	5:30	-2.9	8:58	-	11:15	2.5	14:39	-	18:06	-3.2	21:40	-	23:57	2.1
10/30/2019	Wednesday	1:33	5.75H	8:29	-0.2L	13:55	6.26H	21:09	-0.15L	2:51	-	6:18	-2.9	9:40	-	12:03	2.5	15:27	-	18:54	-3.1	22:28	-		
10/31/2019	Thursday	2:23	5.51H	9:15	0.01L	14:43	6.09H	21:59	0.04L	0:51	2	3:39	-	6:54	-2.7	10:28	-	12:51	2.4	16:15	-	19:36	-2.9	23:22	-