

2017 Tides and Currents for New Castle- Times adjusted for Daylight Savings Time- NOAA Data

		Tides								Max Current in Knots (negative number means outgoing current, "-" alone indicates slack)															
Date	Day	Time	Ht	Time	Ht	Time	Ht	Time	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts		
5/1	Mon	4:05	6.1H	11:32	0L	16:50	5.4H	23:40	0.4L	1:25	2.8	5:01	-	8:34	-2.8	12:17	-	14:19	1.8	17:25	-	20:52	-2.6	23:59	-
5/2	Tue	5:07	5.9H	12:29	0.1L	17:53	5.3H			2:25	2.5	6:01	-	9:40	-2.4	13:29	-	15:25	1.6	18:31	-	21:58	-2.3		
5/3	Wed	0:39	0.5L	6:12	5.7H	13:26	0.1L	18:55	5.4H	1:05	-	3:31	2.2	7:13	-	10:46	-2.2	14:53	-	16:31	1.5	19:49	-	23:04	-2
5/4	Thu	1:40	0.5L	7:16	5.6H	14:22	0.1L	19:55	5.6H	2:23	-	4:43	2	8:31	-	12:04	-2	16:11	-	17:49	1.6	21:13	-		
5/5	Fri	2:39	0.4L	8:16	5.6H	15:16	0.1L	20:51	5.8H	0:28	-2	3:53	-	5:55	1.9	9:43	-	13:28	-2.1	17:11	-	19:01	1.8	22:25	-
5/6	Sat	3:37	0.3L	9:12	5.6H	16:07	0.1L	21:43	5.9H	1:40	-2.2	5:11	-	7:07	2	10:49	-	14:22	-2.4	18:05	-	19:55	2.1	23:25	-
5/7	Sun	4:31	0.2L	10:04	5.7H	16:55	0.1L	22:31	6.1H	2:40	-2.5	6:17	-	8:07	2.1	11:43	-	15:10	-2.6	18:53	-	20:43	2.3		
5/8	Mon	5:22	0.1L	10:52	5.7H	17:40	0.1L	23:16	6.2H	0:19	-	3:28	-2.7	7:11	-	8:55	2.1	12:31	-	15:52	-2.7	19:35	-	21:31	2.4
5/9	Tue	6:10	0.1L	11:37	5.6H	18:22	0.2L	23:57	6.2H	1:01	-	4:16	-2.7	7:59	-	9:43	2.1	13:13	-	16:34	-2.8	20:11	-	22:13	2.5
5/10	Wed	6:54	0.1L	12:20	5.5H	19:02	0.3L			1:43	-	4:58	-2.7	8:35	-	10:31	2.1	13:49	-	17:10	-2.8	20:41	-	22:49	2.5
5/11	Thu	0:36	6.1H	7:37	0.1L	13:01	5.4H	19:39	0.5L	2:19	-	5:34	-2.7	9:11	-	11:07	2.1	14:19	-	17:46	-2.8	21:17	-	23:25	2.5
5/12	Fri	1:13	6.1H	8:18	0.2L	13:41	5.3H	20:15	0.6L	2:49	-	6:04	-2.6	9:41	-	11:43	2	14:55	-	18:16	-2.7	21:41	-	23:55	2.4
5/13	Sat	1:47	6H	8:58	0.3L	14:19	5.2H	20:49	0.7L	3:19	-	6:34	-2.5	10:11	-	12:13	1.8	15:25	-	18:46	-2.6	22:11	-		
5/14	Sun	2:20	5.9H	9:37	0.4L	14:57	5.1H	21:23	0.8L	0:25	2.3	3:49	-	7:04	-2.4	10:35	-	12:49	1.7	16:01	-	19:22	-2.4	22:41	-
5/15	Mon	2:53	5.9H	10:16	0.5L	15:36	5H	21:59	0.8L	0:55	2.1	4:25	-	7:34	-2.3	11:05	-	13:19	1.5	16:37	-	19:58	-2.1	23:11	-
5/16	Tue	3:29	5.8H	10:57	0.6L	16:19	5H	22:43	0.8L	1:37	1.9	4:55	-	8:10	-2.2	11:41	-	14:07	1.3	17:13	-	20:40	-1.8	23:53	-
5/17	Wed	4:11	5.8H	11:42	0.6L	17:06	5.1H	23:34	0.9L	2:19	1.7	5:37	-	8:58	-2	12:29	-	14:55	1.1	18:07	-	21:40	-1.6		
5/18	Thu	5:03	5.7H	12:31	0.6L	17:59	5.2H			0:35	-	3:19	1.6	6:31	-	9:58	-1.9	13:23	-	15:55	1.1	19:13	-	22:34	-1.4
5/19	Fri	0:34	0.9L	6:03	5.6H	13:23	0.5L	18:56	5.3H	1:35	-	4:13	1.5	7:31	-	10:52	-1.9	14:29	-	16:55	1.2	20:25	-	23:40	-1.4
5/20	Sat	1:40	0.8L	7:07	5.6H	14:18	0.4L	19:53	5.5H	2:53	-	5:19	1.5	8:37	-	11:58	-2	15:35	-	18:01	1.3	21:25	-		
5/21	Sun	2:46	0.7L	8:10	5.6H	15:14	0.3L	20:48	5.8H	0:52	-1.6	3:59	-	6:19	1.7	9:37	-	13:04	-2.2	16:35	-	18:55	1.6	22:19	-
5/22	Mon	3:49	0.5L	9:10	5.7H	16:09	0.2L	21:41	6.1H	1:52	-2	5:05	-	7:19	1.9	10:31	-	14:04	-2.5	17:23	-	19:37	1.9	23:13	-
5/23	Tue	4:50	0.3L	10:07	5.7H	17:04	0.1L	22:33	6.4H	2:40	-2.4	5:59	-	8:07	2.1	11:31	-	14:52	-2.8	18:11	-	20:25	2.2		
5/24	Wed	5:48	0L	11:02	5.7H	17:57	0L	23:24	6.6H	0:01	-	3:28	-2.8	6:53	-	8:55	2.3	12:19	-	15:40	-3.1	18:59	-	21:07	2.5
5/25	Thu	6:45	-0.1L	11:55	5.7H	18:50	0L			0:49	-	4:16	-3.1	7:41	-	9:49	2.3	13:07	-	16:28	-3.3	19:41	-	21:55	2.8
5/26	Fri	0:15	6.7H	7:39	-0.2L	12:49	5.7H	19:42	0L	1:31	-	5:04	-3.3	8:35	-	10:37	2.4	13:55	-	17:16	-3.4	20:29	-	22:49	3
5/27	Sat	1:06	6.7H	8:33	-0.3L	13:42	5.6H	20:35	0.1L	2:19	-	5:52	-3.4	9:23	-	11:31	2.4	14:37	-	18:04	-3.4	21:11	-	23:37	3.1
5/28	Sun	1:58	6.6H	9:26	-0.3L	14:37	5.5H	21:29	0.2L	3:07	-	6:34	-3.3	10:17	-	12:19	2.3	15:25	-	18:46	-3.3	22:05	-		
5/29	Mon	2:52	6.4H	10:19	-0.2L	15:34	5.5H	22:24	0.3L	0:19	3	4:01	-	7:22	-3.1	11:11	-	13:07	2.1	16:19	-	19:40	-3	22:53	-
5/30	Tue	3:49	6.2H	11:12	-0.1L	16:33	5.4H	23:20	0.4L	1:13	2.7	4:49	-	8:22	-2.7	12:11	-	14:07	1.8	17:13	-	20:40	-2.6	23:53	-
5/31	Wed	4:49	6H	12:05	0L	17:33	5.5H			2:13	2.4	5:49	-	9:28	-2.4	13:17	-	15:13	1.7	18:25	-	21:46	-2.2		

2017 Tides and Currents for New Castle- Times adjusted for Daylight Savings Time- NOAA Data

		Tides								Max Current in Knots (negative number means outgoing current, "-" alone indicates slack)															
Date	Day	Time	Ht	Time	Ht	Time	Ht	Time	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts		
6/1	Thu	0:17	0.5L	5:49	5.8H	12:58	0.1L	18:32	5.6H	0:59	-	3:19	2.1	6:55	-	10:34	-2.1	14:29	-	16:19	1.6	19:43	-	22:58	-2
6/2	Fri	1:15	0.5L	6:50	5.6H	13:50	0.1L	19:29	5.7H	2:23	-	4:25	1.8	8:13	-	11:40	-2	15:41	-	17:25	1.7	20:55	-		
6/3	Sat	2:13	0.5L	7:48	5.6H	14:42	0.1L	20:24	5.8H	0:10	-2	3:47	-	5:43	1.7	9:19	-	12:58	-2.1	16:41	-	18:37	1.9	22:01	-
6/4	Sun	3:09	0.5L	8:43	5.5H	15:31	0.2L	21:15	6H	1:22	-2.1	4:59	-	6:49	1.8	10:19	-	13:58	-2.2	17:29	-	19:25	2.1	23:01	-
6/5	Mon	4:03	0.4L	9:34	5.5H	16:19	0.2L	22:03	6.1H	2:22	-2.3	5:59	-	7:43	1.9	11:13	-	14:40	-2.4	18:17	-	20:13	2.3	23:49	-
6/6	Tue	4:54	0.3L	10:23	5.5H	17:04	0.2L	22:47	6.2H	3:04	-2.4	6:47	-	8:31	1.9	11:55	-	15:22	-2.5	18:59	-	20:49	2.3		
6/7	Wed	5:43	0.2L	11:10	5.4H	17:48	0.3L	23:30	6.2H	0:31	-	3:46	-2.5	7:29	-	9:13	1.9	12:37	-	15:58	-2.6	19:35	-	21:31	2.3
6/8	Thu	6:28	0.2L	11:54	5.4H	18:29	0.4L			1:07	-	4:22	-2.5	8:05	-	9:55	1.9	13:13	-	16:34	-2.6	20:05	-	22:13	2.3
6/9	Fri	0:09	6.2H	7:12	0.2L	12:36	5.3H	19:09	0.5L	1:43	-	4:58	-2.5	8:41	-	10:37	1.8	13:49	-	17:10	-2.6	20:35	-	22:49	2.3
6/10	Sat	0:46	6.1H	7:54	0.3L	13:16	5.2H	19:46	0.6L	2:13	-	5:28	-2.5	9:05	-	11:13	1.8	14:25	-	17:46	-2.6	20:59	-	23:19	2.3
6/11	Sun	1:21	6H	8:34	0.3L	13:53	5.1H	20:23	0.7L	2:43	-	5:58	-2.5	9:35	-	11:49	1.7	14:55	-	18:16	-2.5	21:35	-	23:55	2.3
6/12	Mon	1:53	6H	9:13	0.4L	14:30	5H	20:59	0.7L	3:13	-	6:28	-2.5	10:05	-	12:19	1.7	15:31	-	18:52	-2.4	22:05	-		
6/13	Tue	2:25	6H	9:52	0.5L	15:06	5.1H	21:37	0.8L	0:25	2.2	3:49	-	7:04	-2.5	10:41	-	12:55	1.6	16:13	-	19:28	-2.2	22:41	-
6/14	Wed	3:00	6H	10:31	0.5L	15:45	5.1H	22:20	0.8L	1:07	2	4:25	-	7:40	-2.4	11:17	-	13:31	1.5	16:55	-	20:10	-1.9	23:23	-
6/15	Thu	3:42	5.9H	11:12	0.5L	16:29	5.2H	23:10	0.8L	1:49	1.8	5:07	-	8:28	-2.3	11:59	-	14:25	1.4	17:43	-	21:10	-1.8		
6/16	Fri	4:31	5.9H	11:57	0.4L	17:20	5.3H			0:11	-	2:49	1.7	5:55	-	9:28	-2.2	12:53	-	15:19	1.4	18:37	-	22:10	-1.7
6/17	Sat	0:08	0.8L	5:29	5.7H	12:46	0.4L	18:17	5.5H	1:11	-	3:43	1.6	6:55	-	10:22	-2.1	13:53	-	16:19	1.4	19:43	-	23:04	-1.7
6/18	Sun	1:13	0.8L	6:32	5.6H	13:41	0.3L	19:16	5.7H	2:23	-	4:49	1.6	8:01	-	11:22	-2.2	14:53	-	17:13	1.6	20:49	-		
6/19	Mon	2:20	0.7L	7:38	5.6H	14:38	0.3L	20:15	6H	0:10	-1.9	3:35	-	5:49	1.7	9:07	-	12:34	-2.3	15:53	-	18:13	1.8	21:43	-
6/20	Tue	3:26	0.5L	8:41	5.5H	15:37	0.2L	21:13	6.2H	1:16	-2.2	4:41	-	6:49	1.9	10:01	-	13:34	-2.5	16:47	-	19:07	2.1	22:37	-
6/21	Wed	4:30	0.3L	9:42	5.5H	16:35	0.1L	22:09	6.4H	2:16	-2.5	5:41	-	7:43	2.1	11:01	-	14:28	-2.8	17:41	-	19:55	2.4	23:31	-
6/22	Thu	5:30	0.1L	10:40	5.6H	17:33	0L	23:03	6.6H	3:04	-2.9	6:35	-	8:31	2.1	11:55	-	15:16	-3	18:29	-	20:43	2.6		
6/23	Fri	6:27	-0.1L	11:36	5.6H	18:29	0L	23:57	6.7H	0:25	-	3:52	-3.1	7:29	-	9:25	2.2	12:43	-	16:04	-3.2	19:17	-	21:31	2.8
6/24	Sat	7:22	-0.2L	12:31	5.6H	19:23	0L			1:13	-	4:46	-3.2	8:23	-	10:25	2.2	13:37	-	16:58	-3.2	20:11	-	22:31	2.9
6/25	Sun	0:50	6.6H	8:15	-0.3L	13:25	5.6H	20:17	0L	2:07	-	5:40	-3.3	9:17	-	11:19	2.2	14:25	-	17:46	-3.2	20:59	-	23:19	3
6/26	Mon	1:42	6.5H	9:07	-0.3L	14:20	5.6H	21:10	0.1L	2:55	-	6:28	-3.2	10:11	-	12:07	2.2	15:19	-	18:40	-3.1	21:53	-		
6/27	Tue	2:36	6.4H	9:57	-0.2L	15:14	5.5H	22:04	0.2L	0:13	2.9	3:49	-	7:16	-3	11:05	-	12:55	2.1	16:13	-	19:34	-2.9	22:53	-
6/28	Wed	3:30	6.2H	10:47	-0.1L	16:10	5.5H	22:57	0.4L	1:01	2.6	4:43	-	8:10	-2.7	11:59	-	13:55	2	17:13	-	20:28	-2.6	23:53	-
6/29	Thu	4:25	5.9H	11:36	0L	17:06	5.5H	23:51	0.5L	2:01	2.3	5:37	-	9:10	-2.4	12:53	-	14:55	1.9	18:13	-	21:34	-2.3		
6/30	Fri	5:21	5.7H	12:25	0.1L	18:02	5.6H			0:59	-	3:07	2	6:37	-	10:10	-2.2	13:59	-	15:55	1.9	19:25	-	22:40	-2.1

2017 Tides and Currents for New Castle- Times adjusted for Daylight Savings Time- NOAA Data

		Tides								Max Current in Knots (negative number means outgoing current, "-" alone indicates slack)															
Date	Day	Time	Ht	Time	Ht	Time	Ht	Time	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts		
7/1	Sat	0:46	0.6L	6:18	5.6H	13:15	0.2L	18:57	5.7H	2:17	-	4:07	1.7	7:43	-	11:10	-2	15:05	-	16:55	1.8	20:31	-	23:40	-2
7/2	Sun	1:42	0.6L	7:15	5.5H	14:04	0.2L	19:50	5.8H	3:29	-	5:13	1.6	8:43	-	12:10	-2	15:59	-	17:55	1.9	21:31	-		
7/3	Mon	2:37	0.6L	8:10	5.4H	14:52	0.3L	20:42	5.9H	0:52	-1.9	4:35	-	6:19	1.6	9:43	-	13:16	-2	16:53	-	18:55	2	22:25	-
7/4	Tue	3:31	0.5L	9:03	5.4H	15:41	0.3L	21:31	6H	1:52	-2	5:29	-	7:13	1.6	10:31	-	14:04	-2.1	17:35	-	19:37	2.1	23:13	-
7/5	Wed	4:23	0.4L	9:53	5.3H	16:28	0.4L	22:17	6.1H	2:34	-2.1	6:17	-	7:55	1.6	11:19	-	14:40	-2.2	18:17	-	20:13	2.1	23:55	-
7/6	Thu	5:13	0.4L	10:41	5.3H	17:13	0.4L	23:01	6.1H	3:10	-2.1	6:59	-	8:37	1.6	12:01	-	15:22	-2.3	18:53	-	20:49	2.1		
7/7	Fri	6:00	0.3L	11:27	5.3H	17:57	0.4L	23:42	6.1H	0:31	-	3:46	-2.2	7:35	-	9:19	1.6	12:43	-	15:58	-2.3	19:23	-	21:31	2.1
7/8	Sat	6:45	0.3L	12:09	5.2H	18:40	0.5L			1:07	-	4:16	-2.3	8:05	-	10:01	1.6	13:19	-	16:40	-2.3	19:53	-	22:07	2.1
7/9	Sun	0:20	6.1H	7:28	0.3L	12:49	5.2H	19:21	0.5L	1:37	-	4:52	-2.4	8:35	-	10:43	1.6	13:55	-	17:16	-2.4	20:29	-	22:49	2.2
7/10	Mon	0:56	6.1H	8:09	0.3L	13:27	5.1H	20:01	0.6L	2:13	-	5:28	-2.5	9:05	-	11:25	1.7	14:31	-	17:52	-2.4	21:05	-	23:31	2.2
7/11	Tue	1:30	6.1H	8:48	0.3L	14:02	5.1H	20:40	0.6L	2:43	-	6:04	-2.7	9:35	-	11:55	1.8	15:13	-	18:34	-2.4	21:41	-		
7/12	Wed	2:03	6H	9:27	0.4L	14:37	5.2H	21:21	0.7L	0:07	2.2	3:19	-	6:40	-2.8	10:11	-	12:31	1.8	15:49	-	19:10	-2.3	22:23	-
7/13	Thu	2:39	6H	10:05	0.4L	15:15	5.3H	22:04	0.7L	0:43	2.1	4:01	-	7:22	-2.7	10:53	-	13:07	1.8	16:31	-	19:52	-2.2	23:05	-
7/14	Fri	3:20	6H	10:45	0.3L	15:58	5.4H	22:54	0.7L	1:25	2	4:43	-	8:04	-2.6	11:35	-	13:55	1.7	17:19	-	20:40	-2.1	23:53	-
7/15	Sat	4:08	5.9H	11:28	0.3L	16:48	5.6H	23:52	0.8L	2:19	1.9	5:31	-	9:04	-2.5	12:23	-	14:43	1.7	18:07	-	21:40	-2		
7/16	Sun	5:04	5.7H	12:16	0.3L	17:45	5.7H			0:47	-	3:19	1.8	6:31	-	9:58	-2.4	13:17	-	15:37	1.7	19:07	-	22:34	-2.1
7/17	Mon	0:56	0.8L	6:07	5.6H	13:11	0.3L	18:46	5.9H	1:53	-	4:13	1.7	7:31	-	10:58	-2.4	14:17	-	16:31	1.8	20:07	-	23:34	-2.1
7/18	Tue	2:02	0.7L	7:14	5.5H	14:11	0.3L	19:49	6H	3:05	-	5:19	1.7	8:37	-	11:58	-2.4	15:17	-	17:31	2	21:07	-		
7/19	Wed	3:08	0.6L	8:20	5.4H	15:13	0.2L	20:51	6.2H	0:40	-2.3	4:17	-	6:25	1.8	9:31	-	12:58	-2.5	16:11	-	18:31	2.2	22:07	-
7/20	Thu	4:12	0.4L	9:23	5.4H	16:14	0.2L	21:50	6.4H	1:46	-2.5	5:23	-	7:19	1.9	10:31	-	14:04	-2.6	17:11	-	19:25	2.5	23:07	-
7/21	Fri	5:12	0.2L	10:23	5.5H	17:14	0.1L	22:47	6.5H	2:46	-2.8	6:23	-	8:13	2	11:31	-	14:58	-2.8	18:05	-	20:19	2.7		
7/22	Sat	6:09	0L	11:20	5.5H	18:11	0L	23:42	6.6H	0:07	-	3:40	-3	7:23	-	9:13	2	12:31	-	15:52	-3	19:05	-	21:13	2.8
7/23	Sun	7:03	-0.2L	12:14	5.6H	19:06	0L			1:01	-	4:34	-3.1	8:23	-	10:13	2.1	13:25	-	16:46	-3	19:59	-	22:13	2.8
7/24	Mon	0:34	6.6H	7:55	-0.2L	13:07	5.6H	19:59	0L	1:55	-	5:28	-3.2	9:11	-	11:07	2.2	14:19	-	17:40	-3.1	20:53	-	23:13	2.8
7/25	Tue	1:25	6.5H	8:44	-0.2L	13:59	5.7H	20:50	0.1L	2:49	-	6:16	-3.2	10:05	-	12:01	2.3	15:13	-	18:34	-3.1	21:53	-		
7/26	Wed	2:16	6.3H	9:31	-0.2L	14:50	5.7H	21:41	0.3L	0:01	2.7	3:37	-	7:04	-3	10:53	-	12:49	2.3	16:07	-	19:22	-2.9	22:53	-
7/27	Thu	3:06	6.1H	10:17	0L	15:41	5.7H	22:31	0.4L	0:55	2.5	4:25	-	7:52	-2.8	11:41	-	13:37	2.3	17:01	-	20:16	-2.7	23:47	-
7/28	Fri	3:57	5.9H	11:03	0.1L	16:32	5.6H	23:22	0.6L	1:49	2.2	5:13	-	8:46	-2.5	12:29	-	14:31	2.2	17:55	-	21:16	-2.4		
7/29	Sat	4:49	5.7H	11:48	0.3L	17:25	5.6H			0:47	-	2:43	1.9	6:07	-	9:40	-2.3	13:17	-	15:25	2	18:55	-	22:16	-2.1
7/30	Sun	0:14	0.7L	5:44	5.5H	12:34	0.4L	18:18	5.7H	1:53	-	3:43	1.7	7:01	-	10:34	-2.1	14:17	-	16:19	1.9	19:55	-	23:04	-1.9
7/31	Mon	1:07	0.8L	6:39	5.3H	13:22	0.5L	19:11	5.7H	2:59	-	4:37	1.5	8:01	-	11:22	-1.9	15:11	-	17:07	1.8	20:55	-	23:58	-1.7

2017 Tides and Currents for New Castle- Times adjusted for Daylight Savings Time- NOAA Data

		Tides								Max Current in Knots (negative number means outgoing current, "-" alone indicates slack)															
Date	Day	Time	Ht	Time	Ht	Time	Ht	Time	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts		
8/1	Tue	2:01	0.8L	7:34	5.3H	14:11	0.5L	20:04	5.8H	3:59	-	5:37	1.3	8:55	-	12:22	-1.8	16:05	-	18:01	1.8	21:43	-		
8/2	Wed	2:56	0.7L	8:29	5.2H	15:00	0.5L	20:55	5.9H	1:04	-1.6	4:53	-	6:37	1.3	9:49	-	13:16	-1.8	16:47	-	18:49	1.8	22:31	-
8/3	Thu	3:49	0.6L	9:21	5.2H	15:50	0.5L	21:44	6H	1:52	-1.7	5:41	-	7:25	1.3	10:37	-	14:04	-1.9	17:29	-	19:37	1.8	23:13	-
8/4	Fri	4:40	0.5L	10:11	5.2H	16:39	0.5L	22:30	6.1H	2:34	-1.8	6:23	-	8:07	1.4	11:25	-	14:46	-2	18:05	-	20:13	1.9	23:49	-
8/5	Sat	5:29	0.4L	10:57	5.3H	17:27	0.4L	23:13	6.1H	3:10	-2	7:05	-	8:49	1.4	12:13	-	15:28	-2	18:47	-	20:49	1.9		
8/6	Sun	6:15	0.3L	11:41	5.3H	18:12	0.4L	23:53	6.1H	0:25	-	3:46	-2.2	7:35	-	9:31	1.5	12:55	-	16:10	-2.1	19:23	-	21:37	2
8/7	Mon	6:59	0.3L	12:21	5.3H	18:56	0.4L			1:07	-	4:22	-2.4	8:05	-	10:19	1.6	13:37	-	16:52	-2.2	19:59	-	22:19	2.1
8/8	Tue	0:30	6.1H	7:40	0.3L	12:58	5.3H	19:39	0.4L	1:43	-	5:04	-2.6	8:35	-	10:55	1.8	14:13	-	17:34	-2.4	20:41	-	23:01	2.2
8/9	Wed	1:06	6.1H	8:20	0.3L	13:34	5.4H	20:22	0.5L	2:19	-	5:46	-2.8	9:11	-	11:31	1.9	14:49	-	18:10	-2.5	21:23	-	23:43	2.3
8/10	Thu	1:41	6.1H	8:59	0.3L	14:09	5.5H	21:06	0.5L	2:55	-	6:22	-3	9:47	-	12:07	2	15:31	-	18:52	-2.6	22:05	-		
8/11	Fri	2:19	6.1H	9:38	0.3L	14:48	5.6H	21:52	0.6L	0:25	2.3	3:37	-	6:58	-3	10:29	-	12:43	2.1	16:07	-	19:28	-2.6	22:47	-
8/12	Sat	3:02	6H	10:19	0.3L	15:31	5.8H	22:43	0.7L	1:07	2.2	4:25	-	7:46	-3	11:11	-	13:19	2.1	16:49	-	20:16	-2.5	23:35	-
8/13	Sun	3:51	5.9H	11:03	0.3L	16:21	5.8H	23:41	0.7L	1:55	2.1	5:07	-	8:34	-2.8	11:53	-	14:13	2.1	17:37	-	21:10	-2.4		
8/14	Mon	4:47	5.7H	11:53	0.4L	17:19	5.9H			0:29	-	2:49	1.9	6:01	-	9:28	-2.6	12:41	-	15:01	2.1	18:31	-	22:04	-2.4
8/15	Tue	0:43	0.8L	5:51	5.5H	12:51	0.4L	18:24	5.9H	1:29	-	3:49	1.8	7:01	-	10:28	-2.5	13:35	-	16:01	2.1	19:31	-	23:04	-2.3
8/16	Wed	1:49	0.8L	6:59	5.3H	13:53	0.4L	19:30	6H	2:41	-	4:49	1.7	8:01	-	11:22	-2.4	14:41	-	16:55	2.2	20:37	-		
8/17	Thu	2:53	0.6L	8:06	5.3H	14:57	0.4L	20:35	6.2H	0:10	-2.3	3:59	-	5:55	1.6	9:07	-	12:28	-2.3	15:41	-	18:01	2.3	21:43	-
8/18	Fri	3:56	0.4L	9:09	5.4H	15:59	0.3L	21:36	6.3H	1:28	-2.4	5:11	-	7:07	1.7	10:13	-	13:40	-2.4	16:47	-	19:07	2.4	22:49	-
8/19	Sat	4:55	0.2L	10:09	5.5H	16:59	0.1L	22:33	6.4H	2:34	-2.6	6:17	-	8:01	1.8	11:19	-	14:40	-2.6	17:53	-	20:07	2.6	23:55	-
8/20	Sun	5:50	0L	11:05	5.6H	17:55	0L	23:27	6.5H	3:28	-2.8	7:17	-	9:01	1.9	12:25	-	15:40	-2.8	18:53	-	21:01	2.6		
8/21	Mon	6:42	-0.1L	11:57	5.8H	18:49	0L			0:55	-	4:22	-3	8:11	-	10:01	2.1	13:19	-	16:34	-2.9	19:59	-	22:07	2.6
8/22	Tue	0:18	6.5H	7:31	-0.2L	12:47	5.8H	19:39	0L	1:43	-	5:16	-3.1	9:05	-	11:01	2.4	14:13	-	17:34	-3.1	20:53	-	23:01	2.7
8/23	Wed	1:06	6.4H	8:17	-0.1L	13:35	5.9H	20:28	0.1L	2:37	-	6:04	-3.2	9:47	-	11:49	2.5	15:07	-	18:22	-3.1	21:53	-	23:55	2.6
8/24	Thu	1:53	6.2H	9:01	0L	14:22	5.8H	21:16	0.3L	3:25	-	6:46	-3.1	10:35	-	12:31	2.6	15:55	-	19:10	-3	22:47	-		
8/25	Fri	2:39	6H	9:44	0.2L	15:08	5.8H	22:03	0.5L	0:37	2.4	4:07	-	7:34	-2.9	11:17	-	13:13	2.5	16:43	-	19:58	-2.8	23:35	-
8/26	Sat	3:26	5.8H	10:25	0.3L	15:55	5.7H	22:51	0.7L	1:25	2.2	4:49	-	8:16	-2.7	11:59	-	14:01	2.3	17:31	-	20:46	-2.4		
8/27	Sun	4:15	5.6H	11:07	0.5L	16:44	5.7H	23:39	0.8L	0:23	-	2:19	1.9	5:31	-	9:04	-2.4	12:41	-	14:49	2.1	18:19	-	21:34	-2.1
8/28	Mon	5:07	5.4H	11:51	0.6L	17:35	5.6H			1:11	-	3:07	1.6	6:19	-	9:52	-2.1	13:23	-	15:31	1.9	19:07	-	22:22	-1.8
8/29	Tue	0:30	0.9L	6:01	5.2H	12:37	0.7L	18:28	5.6H	2:05	-	3:55	1.3	7:07	-	10:40	-1.9	14:11	-	16:19	1.7	20:01	-	23:10	-1.5
8/30	Wed	1:24	0.9L	6:57	5.1H	13:27	0.8L	19:22	5.7H	3:11	-	4:49	1.1	8:07	-	11:28	-1.6	14:59	-	17:07	1.6	20:49	-	23:58	-1.4
8/31	Thu	2:18	0.9L	7:53	5.1H	14:19	0.7L	20:16	5.8H	4:05	-	5:49	1	9:01	-	12:22	-1.5	15:53	-	18:01	1.6	21:37	-		

2017 Tides and Currents for New Castle- Times adjusted for Daylight Savings Time- NOAA Data

		Tides								Max Current in Knots (negative number means outgoing current, "-" alone indicates slack)																	
Date	Day	Time	Ht	Time	Ht	Time	Ht	Time	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts
9/1	Fri	3:12	0.8L	8:47	5.2H	15:12	0.7L	21:08	5.9H	0:58	-1.4	4:59	-	6:49	1.1	9:55	-	13:22	-1.5	16:41	-	18:55	1.6	22:19	-		
9/2	Sat	4:04	0.7L	9:38	5.2H	16:05	0.6L	21:56	6H	1:52	-1.6	5:47	-	7:37	1.2	10:49	-	14:16	-1.6	17:23	-	19:37	1.7	23:07	-		
9/3	Sun	4:54	0.5L	10:25	5.3H	16:56	0.5L	22:41	6.1H	2:34	-1.9	6:23	-	8:19	1.3	11:43	-	14:58	-1.8	18:11	-	20:19	1.8	23:49	-		
9/4	Mon	5:41	0.4L	11:09	5.4H	17:45	0.4L	23:23	6.1H	3:10	-2.1	6:59	-	9:01	1.5	12:31	-	15:40	-2	18:53	-	21:07	1.9				
9/5	Tue	6:26	0.3L	11:49	5.6H	18:32	0.3L			0:31	-	3:52	-2.4	7:35	-	9:43	1.7	13:13	-	16:28	-2.2	19:41	-	21:55	2		
9/6	Wed	0:03	6.2H	7:08	0.2L	12:28	5.7H	19:18	0.3L	1:13	-	4:40	-2.7	8:11	-	10:25	1.9	13:49	-	17:10	-2.5	20:23	-	22:43	2.2		
9/7	Thu	0:41	6.2H	7:50	0.2L	13:05	5.8H	20:04	0.3L	1:55	-	5:22	-3	8:47	-	11:07	2.1	14:25	-	17:52	-2.7	21:05	-	23:25	2.4		
9/8	Fri	1:20	6.2H	8:30	0.2L	13:43	5.9H	20:51	0.4L	2:37	-	6:04	-3.2	9:23	-	11:43	2.3	15:07	-	18:28	-2.9	21:47	-				
9/9	Sat	2:01	6.1H	9:11	0.2L	14:23	6H	21:40	0.4L	0:01	2.4	3:19	-	6:40	-3.3	10:05	-	12:19	2.4	15:43	-	19:04	-3	22:29	-		
9/10	Sun	2:46	5.9H	9:55	0.3L	15:09	6.1H	22:33	0.5L	0:43	2.4	4:01	-	7:22	-3.2	10:41	-	12:55	2.5	16:25	-	19:46	-2.9	23:17	-		
9/11	Mon	3:37	5.7H	10:43	0.3L	16:01	6H	23:31	0.6L	1:31	2.2	4:43	-	8:10	-3	11:29	-	13:37	2.4	17:07	-	20:34	-2.8				
9/12	Tue	4:35	5.5H	11:37	0.4L	17:01	6H			0:05	-	2:25	2	5:31	-	8:58	-2.8	12:11	-	14:31	2.4	18:01	-	21:34	-2.6		
9/13	Wed	0:32	0.7L	5:40	5.3H	12:37	0.5L	18:08	5.9H	1:05	-	3:19	1.7	6:25	-	9:58	-2.5	13:05	-	15:31	2.3	19:07	-	22:40	-2.4		
9/14	Thu	1:35	0.7L	6:48	5.2H	13:40	0.5L	19:16	6H	2:23	-	4:25	1.5	7:37	-	10:58	-2.3	14:11	-	16:31	2.2	20:19	-	23:46	-2.2		
9/15	Fri	2:38	0.6L	7:55	5.3H	14:44	0.4L	20:22	6H	3:47	-	5:37	1.4	8:49	-	12:10	-2.2	15:23	-	17:43	2.2	21:31	-				
9/16	Sat	3:38	0.4L	8:57	5.4H	15:45	0.3L	21:23	6.2H	1:10	-2.3	5:05	-	6:49	1.6	10:01	-	13:28	-2.2	16:35	-	18:55	2.3	22:37	-		
9/17	Sun	4:35	0.2L	9:55	5.6H	16:44	0.2L	22:19	6.3H	2:22	-2.5	6:11	-	7:55	1.8	11:13	-	14:34	-2.5	17:47	-	19:55	2.4	23:43	-		
9/18	Mon	5:28	0L	10:49	5.8H	17:39	0L	23:11	6.3H	3:16	-2.8	7:11	-	8:49	2	12:19	-	15:28	-2.7	18:53	-	20:55	2.4				
9/19	Tue	6:18	-0.1L	11:39	5.9H	18:30	0L	23:59	6.3H	0:43	-	4:10	-2.9	7:59	-	9:49	2.3	13:13	-	16:28	-2.9	19:59	-	21:55	2.5		
9/20	Wed	7:04	-0.1L	12:26	6H	19:19	0L			1:31	-	5:04	-3.1	8:41	-	10:43	2.5	14:07	-	17:22	-3.1	20:53	-	22:55	2.5		
9/21	Thu	0:45	6.2H	7:47	0L	13:10	6H	20:06	0.2L	2:19	-	5:46	-3.1	9:23	-	11:25	2.7	14:49	-	18:10	-3.2	21:41	-	23:37	2.5		
9/22	Fri	1:29	6H	8:29	0.1L	13:53	6H	20:51	0.3L	3:01	-	6:28	-3.1	10:05	-	12:07	2.7	15:37	-	18:52	-3	22:29	-				
9/23	Sat	2:12	5.8H	9:08	0.3L	14:35	5.9H	21:35	0.5L	0:19	2.4	3:43	-	7:04	-3	10:47	-	12:43	2.6	16:19	-	19:28	-2.8	23:11	-		
9/24	Sun	2:56	5.6H	9:46	0.5L	15:17	5.8H	22:19	0.7L	1:01	2.1	4:19	-	7:40	-2.7	11:23	-	13:25	2.4	16:55	-	20:10	-2.4	23:53	-		
9/25	Mon	3:42	5.4H	10:25	0.7L	16:01	5.7H	23:05	0.8L	1:43	1.8	4:55	-	8:22	-2.4	11:53	-	14:07	2.2	17:37	-	20:52	-2.1				
9/26	Tue	4:30	5.2H	11:05	0.8L	16:48	5.6H	23:53	0.9L	0:29	-	2:25	1.5	5:37	-	9:04	-2.1	12:29	-	14:49	1.9	18:13	-	21:34	-1.8		
9/27	Wed	5:22	5.1H	11:50	0.8L	17:40	5.5H			1:05	-	3:19	1.2	6:19	-	9:52	-1.8	13:05	-	15:31	1.7	19:01	-	22:10	-1.5		
9/28	Thu	0:44	0.9L	6:17	5H	12:41	0.9L	18:35	5.5H	1:53	-	4:07	1	7:13	-	10:40	-1.5	13:53	-	16:19	1.5	19:49	-	22:58	-1.4		
9/29	Fri	1:38	0.9L	7:13	5H	13:37	0.8L	19:32	5.6H	3:05	-	5:01	0.9	8:19	-	11:34	-1.3	14:47	-	17:13	1.4	20:43	-	23:52	-1.4		
9/30	Sat	2:32	0.8L	8:08	5.1H	14:34	0.7L	20:26	5.7H	4:05	-	6:07	0.9	9:19	-	12:34	-1.3	15:47	-	18:13	1.4	21:37	-				

2017 Tides and Currents for New Castle- Times adjusted for Daylight Savings Time- NOAA Data

		Tides								Max Current in Knots (negative number means outgoing current, "-" alone indicates slack)															
Date	Day	Time	Ht	Time	Ht	Time	Ht	Time	Ht	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts	Time	Kts		
10/1	Sun	3:25	0.7L	9:00	5.2H	15:30	0.6L	21:17	5.8H	0:58	-1.5	4:59	-	7:07	1.1	10:19	-	13:40	-1.4	16:47	-	19:07	1.6	22:25	-
10/2	Mon	4:16	0.5L	9:49	5.4H	16:24	0.4L	22:05	5.9H	1:58	-1.8	5:41	-	7:49	1.3	11:13	-	14:34	-1.7	17:41	-	19:49	1.7	23:13	-
10/3	Tue	5:04	0.3L	10:34	5.6H	17:16	0.3L	22:50	6H	2:46	-2.2	6:23	-	8:31	1.6	12:01	-	15:16	-2	18:29	-	20:37	1.9		
10/4	Wed	5:50	0.2L	11:16	5.8H	18:07	0.2L	23:33	6.1H	0:01	-	3:28	-2.5	6:59	-	9:07	1.8	12:43	-	16:04	-2.3	19:17	-	21:25	2.1
10/5	Thu	6:35	0.1L	11:56	5.9H	18:56	0.1L			0:49	-	4:10	-2.8	7:41	-	9:55	2	13:25	-	16:46	-2.6	19:59	-	22:13	2.3
10/6	Fri	0:15	6.1H	7:18	0L	12:37	6.1H	19:45	0.1L	1:31	-	4:58	-3.1	8:17	-	10:37	2.3	14:01	-	17:28	-2.9	20:41	-	23:01	2.4
10/7	Sat	0:58	6H	8:02	0L	13:18	6.2H	20:36	0.1L	2:13	-	5:40	-3.3	8:53	-	11:13	2.5	14:37	-	18:04	-3.2	21:23	-	23:43	2.5
10/8	Sun	1:43	5.9H	8:46	0.1L	14:02	6.3H	21:27	0.2L	2:55	-	6:16	-3.4	9:35	-	11:49	2.7	15:19	-	18:46	-3.2	22:11	-		
10/9	Mon	2:32	5.7H	9:34	0.2L	14:51	6.2H	22:22	0.3L	0:25	2.4	3:37	-	6:58	-3.4	10:17	-	12:31	2.8	16:01	-	19:22	-3.2	22:59	-
10/10	Tue	3:25	5.5H	10:26	0.3L	15:45	6.1H	23:19	0.4L	1:07	2.2	4:19	-	7:46	-3.2	10:59	-	13:13	2.7	16:49	-	20:10	-2.9	23:53	-
10/11	Wed	4:25	5.3H	11:23	0.4L	16:47	6H			2:01	1.9	5:07	-	8:34	-2.8	11:47	-	14:07	2.6	17:43	-	21:16	-2.6		
10/12	Thu	0:19	0.4L	5:30	5.2H	12:24	0.4L	17:55	5.8H	0:53	-	3:01	1.6	6:07	-	9:34	-2.5	12:41	-	15:07	2.4	18:43	-	22:22	-2.4
10/13	Fri	1:19	0.4L	6:37	5.2H	13:27	0.4L	19:03	5.8H	2:11	-	4:07	1.4	7:13	-	10:40	-2.2	13:47	-	16:13	2.2	20:01	-	23:34	-2.2
10/14	Sat	2:19	0.3L	7:42	5.3H	14:29	0.3L	20:08	5.8H	3:41	-	5:25	1.4	8:37	-	11:52	-2	15:11	-	17:25	2.1	21:19	-		
10/15	Sun	3:17	0.2L	8:43	5.5H	15:30	0.2L	21:08	5.9H	0:58	-2.2	4:53	-	6:43	1.6	9:55	-	13:16	-2.1	16:35	-	18:43	2.1	22:25	-
10/16	Mon	4:12	0L	9:39	5.7H	16:27	0.1L	22:02	6H	2:10	-2.4	5:59	-	7:43	1.9	11:07	-	14:22	-2.5	17:47	-	19:49	2.2	23:31	-
10/17	Tue	5:03	-0.1L	10:31	5.9H	17:20	0L	22:52	6H	3:04	-2.7	6:47	-	8:37	2.2	12:07	-	15:22	-2.8	18:53	-	20:49	2.3		
10/18	Wed	5:50	-0.2L	11:18	6H	18:11	-0.1L	23:38	6H	0:25	-	3:52	-2.9	7:35	-	9:31	2.5	13:01	-	16:16	-3	19:53	-	21:43	2.3
10/19	Thu	6:35	-0.1L	12:03	6H	18:58	0L			1:13	-	4:40	-3	8:17	-	10:19	2.6	13:49	-	17:04	-3.1	20:41	-	22:37	2.4
10/20	Fri	0:22	5.8H	7:16	0L	12:45	6H	19:43	0.1L	1:55	-	5:22	-3.1	8:59	-	11:01	2.7	14:31	-	17:46	-3	21:23	-	23:19	2.3
10/21	Sat	1:05	5.7H	7:56	0.2L	13:24	6H	20:26	0.2L	2:37	-	6:04	-3.1	9:35	-	11:43	2.7	15:07	-	18:28	-2.9	22:05	-	23:55	2.2
10/22	Sun	1:46	5.5H	8:33	0.3L	14:03	5.9H	21:08	0.4L	3:13	-	6:34	-3	10:11	-	12:13	2.6	15:49	-	18:58	-2.7	22:41	-		
10/23	Mon	2:28	5.3H	9:09	0.5L	14:41	5.7H	21:50	0.5L	0:31	2	3:49	-	7:10	-2.7	10:41	-	12:49	2.4	16:19	-	19:28	-2.4	23:17	-
10/24	Tue	3:10	5.1H	9:45	0.6L	15:20	5.6H	22:32	0.6L	1:07	1.7	4:25	-	7:40	-2.4	11:11	-	13:25	2.2	16:55	-	20:04	-2.1	23:41	-
10/25	Wed	3:54	5H	10:22	0.7L	16:02	5.5H	23:17	0.7L	1:49	1.5	4:55	-	8:22	-2.1	11:41	-	14:01	1.9	17:31	-	20:40	-1.9		
10/26	Thu	4:42	4.8H	11:06	0.7L	16:50	5.5H			0:17	-	2:37	1.2	5:37	-	9:04	-1.8	12:17	-	14:49	1.7	18:07	-	21:28	-1.7
10/27	Fri	0:05	0.8L	5:34	4.8H	11:56	0.7L	17:44	5.4H	0:53	-	3:25	1	6:25	-	9:58	-1.5	12:59	-	15:37	1.5	18:55	-	22:16	-1.6
10/28	Sat	0:57	0.7L	6:29	4.8H	12:54	0.7L	18:42	5.4H	1:47	-	4:19	0.9	7:31	-	10:52	-1.3	13:53	-	16:31	1.4	19:55	-	23:04	-1.5
10/29	Sun	1:50	0.6L	7:25	4.9H	13:54	0.6L	19:39	5.5H	2:59	-	5:19	0.9	8:43	-	11:52	-1.2	15:05	-	17:31	1.4	20:49	-		
10/30	Mon	2:43	0.5L	8:18	5.1H	14:54	0.5L	20:34	5.5H	0:10	-1.6	4:05	-	6:25	1.1	9:43	-	13:10	-1.4	16:11	-	18:37	1.5	21:49	-
10/31	Tue	3:35	0.3L	9:09	5.3H	15:52	0.3L	21:26	5.7H	1:22	-1.9	4:59	-	7:13	1.4	10:37	-	14:04	-1.7	17:11	-	19:25	1.7	22:43	-