

## Hell Gate, Wards Island, NY - Apr 1857

| Date |     | High  |     |       |     | Low   |      |       |      |  |      |    |
|------|-----|-------|-----|-------|-----|-------|------|-------|------|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft  | PM    | ft  | AM    | ft   | PM    | ft   | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Wed | 4:09  | 6.3 | 4:53  | 5.4 | 11:46 | 0.5  | 11:52 | 1.1  | 5:42                                                                                | 6:24 |    |
| 2    | Thu | 5:13  | 6.0 | 5:58  | 5.3 |       |      | 12:54 | 0.6  | 5:41                                                                                | 6:25 |    |
| 3    | Fri | 6:20  | 5.8 | 7:04  | 5.4 | 1:03  | 1.2  | 1:54  | 0.5  | 5:39                                                                                | 6:26 |    |
| 4    | Sat | 7:27  | 5.8 | 8:04  | 5.7 | 2:05  | 1.0  | 2:47  | 0.3  | 5:37                                                                                | 6:27 |    |
| 5    | Sun | 8:25  | 5.9 | 8:53  | 6.1 | 2:59  | 0.8  | 3:33  | 0.1  | 5:36                                                                                | 6:28 |    |
| 6    | Mon | 9:11  | 6.1 | 9:35  | 6.4 | 3:48  | 0.5  | 4:15  | 0.0  | 5:34                                                                                | 6:29 |    |
| 7    | Tue | 9:52  | 6.2 | 10:12 | 6.7 | 4:33  | 0.2  | 4:55  | 0.0  | 5:32                                                                                | 6:30 |    |
| 8    | Wed | 10:29 | 6.2 | 10:47 | 6.8 | 5:16  | 0.0  | 5:32  | 0.0  | 5:31                                                                                | 6:31 |    |
| 9    | Thu | 11:04 | 6.1 | 11:21 | 6.8 | 5:57  | -0.1 | 6:08  | 0.1  | 5:29                                                                                | 6:32 |    |
| 10   | Fri | 11:40 | 5.9 | 11:53 | 6.7 | 6:36  | -0.1 | 6:41  | 0.3  | 5:28                                                                                | 6:33 |    |
| 11   | Sat |       |     | 12:15 | 5.6 | 7:12  | 0.1  | 7:12  | 0.6  | 5:26                                                                                | 6:34 |    |
| 12   | Sun | 12:24 | 6.5 | 12:51 | 5.3 | 7:47  | 0.3  | 7:40  | 0.9  | 5:24                                                                                | 6:35 |   |
| 13   | Mon | 12:54 | 6.3 | 1:29  | 5.1 | 8:22  | 0.6  | 8:06  | 1.2  | 5:23                                                                                | 6:36 |  |
| 14   | Tue | 1:26  | 6.1 | 2:13  | 4.8 | 8:57  | 0.9  | 8:34  | 1.6  | 5:21                                                                                | 6:37 |  |
| 15   | Wed | 2:07  | 5.9 | 3:03  | 4.7 | 9:40  | 1.2  | 9:12  | 1.8  | 5:20                                                                                | 6:38 |  |
| 16   | Thu | 2:58  | 5.8 | 3:56  | 4.7 | 10:42 | 1.5  | 10:10 | 2.1  | 5:18                                                                                | 6:39 |  |
| 17   | Fri | 3:56  | 5.7 | 4:51  | 4.8 | 11:55 | 1.5  | 11:49 | 2.1  | 5:17                                                                                | 6:41 |  |
| 18   | Sat | 4:58  | 5.8 | 5:51  | 5.1 |       |      | 12:59 | 1.2  | 5:15                                                                                | 6:42 |  |
| 19   | Sun | 6:06  | 5.9 | 6:55  | 5.6 | 1:10  | 1.7  | 1:54  | 0.7  | 5:14                                                                                | 6:43 |  |
| 20   | Mon | 7:16  | 6.2 | 7:54  | 6.2 | 2:13  | 1.0  | 2:43  | 0.2  | 5:12                                                                                | 6:44 |  |
| 21   | Tue | 8:16  | 6.5 | 8:45  | 7.0 | 3:09  | 0.3  | 3:30  | -0.3 | 5:11                                                                                | 6:45 |  |
| 22   | Wed | 9:09  | 6.8 | 9:31  | 7.6 | 4:03  | -0.3 | 4:17  | -0.7 | 5:09                                                                                | 6:46 |  |
| 23   | Thu | 9:58  | 7.0 | 10:17 | 8.0 | 4:56  | -0.9 | 5:05  | -1.0 | 5:08                                                                                | 6:47 |  |
| 24   | Fri | 10:47 | 7.0 | 11:04 | 8.2 | 5:48  | -1.2 | 5:54  | -1.1 | 5:06                                                                                | 6:48 |  |
| 25   | Sat | 11:39 | 6.8 | 11:54 | 8.1 | 6:40  | -1.4 | 6:43  | -1.0 | 5:05                                                                                | 6:49 |  |
| 26   | Sun |       |     | 12:34 | 6.6 | 7:31  | -1.2 | 7:31  | -0.6 | 5:04                                                                                | 6:50 |  |
| 27   | Mon | 12:48 | 7.8 | 1:35  | 6.3 | 8:22  | -0.9 | 8:21  | -0.1 | 5:02                                                                                | 6:51 |  |
| 28   | Tue | 1:48  | 7.3 | 2:39  | 6.0 | 9:16  | -0.4 | 9:16  | 0.6  | 5:01                                                                                | 6:52 |  |
| 29   | Wed | 2:52  | 6.9 | 3:41  | 5.8 | 10:17 | 0.2  | 10:21 | 1.2  | 5:00                                                                                | 6:53 |  |
| 30   | Thu | 3:54  | 6.4 | 4:40  | 5.7 | 11:23 | 0.5  | 11:33 | 1.5  | 4:58                                                                                | 6:54 |  |