

## Hell Gate, Wards Island, NY - Jun 1831

| Date |     | High  |     |       |     | Low   |      |       |      |  |      |    |
|------|-----|-------|-----|-------|-----|-------|------|-------|------|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft  | PM    | ft  | AM    | ft   | PM    | ft   | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Wed | 2:08  | 6.3 | 3:09  | 5.4 | 9:41  | 0.8  | 9:32  | 1.9  | 4:30                                                                                | 7:23 |    |
| 2    | Thu | 2:58  | 6.2 | 3:54  | 5.6 | 10:31 | 0.9  | 10:39 | 2.0  | 4:29                                                                                | 7:24 |    |
| 3    | Fri | 3:52  | 6.1 | 4:41  | 5.9 | 11:30 | 0.9  | 11:59 | 1.8  | 4:29                                                                                | 7:25 |    |
| 4    | Sat | 4:48  | 6.1 | 5:33  | 6.2 |       |      | 12:29 | 0.7  | 4:28                                                                                | 7:26 |    |
| 5    | Sun | 5:49  | 6.2 | 6:31  | 6.7 | 1:08  | 1.4  | 1:26  | 0.4  | 4:28                                                                                | 7:26 |    |
| 6    | Mon | 6:56  | 6.2 | 7:32  | 7.2 | 2:09  | 0.8  | 2:20  | 0.0  | 4:28                                                                                | 7:27 |    |
| 7    | Tue | 8:02  | 6.5 | 8:29  | 7.7 | 3:06  | 0.1  | 3:12  | -0.4 | 4:28                                                                                | 7:28 |    |
| 8    | Wed | 9:01  | 6.7 | 9:22  | 8.2 | 4:01  | -0.4 | 4:05  | -0.7 | 4:27                                                                                | 7:28 |    |
| 9    | Thu | 9:55  | 6.9 | 10:13 | 8.4 | 4:56  | -0.9 | 4:59  | -0.8 | 4:27                                                                                | 7:29 |    |
| 10   | Fri | 10:50 | 7.0 | 11:05 | 8.4 | 5:51  | -1.3 | 5:54  | -0.9 | 4:27                                                                                | 7:29 |    |
| 11   | Sat | 11:46 | 7.0 | 11:59 | 8.2 | 6:43  | -1.4 | 6:47  | -0.8 | 4:27                                                                                | 7:30 |    |
| 12   | Sun |       |     | 12:44 | 6.9 | 7:34  | -1.4 | 7:39  | -0.5 | 4:27                                                                                | 7:30 |   |
| 13   | Mon | 12:57 | 7.9 | 1:45  | 6.8 | 8:25  | -1.1 | 8:31  | 0.0  | 4:27                                                                                | 7:31 |  |
| 14   | Tue | 1:57  | 7.5 | 2:45  | 6.7 | 9:17  | -0.7 | 9:27  | 0.5  | 4:27                                                                                | 7:31 |  |
| 15   | Wed | 2:56  | 7.0 | 3:41  | 6.6 | 10:12 | -0.2 | 10:27 | 1.0  | 4:27                                                                                | 7:32 |  |
| 16   | Thu | 3:51  | 6.6 | 4:34  | 6.5 | 11:09 | 0.2  | 11:31 | 1.4  | 4:27                                                                                | 7:32 |  |
| 17   | Fri | 4:44  | 6.3 | 5:25  | 6.5 |       |      | 12:06 | 0.5  | 4:27                                                                                | 7:32 |  |
| 18   | Sat | 5:36  | 5.9 | 6:16  | 6.5 | 12:33 | 1.5  | 12:59 | 0.7  | 4:27                                                                                | 7:33 |  |
| 19   | Sun | 6:30  | 5.7 | 7:08  | 6.5 | 1:30  | 1.4  | 1:47  | 0.8  | 4:27                                                                                | 7:33 |  |
| 20   | Mon | 7:27  | 5.5 | 7:58  | 6.7 | 2:22  | 1.2  | 2:33  | 0.9  | 4:27                                                                                | 7:33 |  |
| 21   | Tue | 8:19  | 5.6 | 8:44  | 6.9 | 3:10  | 1.0  | 3:16  | 0.9  | 4:27                                                                                | 7:34 |  |
| 22   | Wed | 9:06  | 5.6 | 9:25  | 7.0 | 3:55  | 0.8  | 3:58  | 0.9  | 4:27                                                                                | 7:34 |  |
| 23   | Thu | 9:49  | 5.7 | 10:03 | 7.1 | 4:39  | 0.6  | 4:40  | 0.9  | 4:28                                                                                | 7:34 |  |
| 24   | Fri | 10:30 | 5.8 | 10:40 | 7.1 | 5:23  | 0.4  | 5:22  | 0.9  | 4:28                                                                                | 7:34 |  |
| 25   | Sat | 11:10 | 5.8 | 11:15 | 7.1 | 6:05  | 0.2  | 6:03  | 1.0  | 4:28                                                                                | 7:34 |  |
| 26   | Sun | 11:49 | 5.7 | 11:48 | 7.0 | 6:45  | 0.2  | 6:43  | 1.0  | 4:29                                                                                | 7:34 |  |
| 27   | Mon |       |     | 12:29 | 5.7 | 7:23  | 0.2  | 7:20  | 1.1  | 4:29                                                                                | 7:34 |  |
| 28   | Tue | 12:22 | 6.8 | 1:09  | 5.6 | 8:00  | 0.2  | 7:56  | 1.3  | 4:29                                                                                | 7:34 |  |
| 29   | Wed | 12:59 | 6.7 | 1:52  | 5.7 | 8:37  | 0.3  | 8:34  | 1.4  | 4:30                                                                                | 7:34 |  |
| 30   | Thu | 1:44  | 6.6 | 2:37  | 5.8 | 9:15  | 0.4  | 9:18  | 1.5  | 4:30                                                                                | 7:34 |  |