

## Hell Gate, Wards Island, NY - Aug 1838

| Date |     | High  |     |       |     | Low   |      |          |      |  |      |    |
|------|-----|-------|-----|-------|-----|-------|------|----------|------|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
|      |     | AM    | ft  | PM    | ft  | AM    | ft   | PM       | ft   | Rise                                                                                | Set  | Moon                                                                                  |
| 1    | Wed | 6:25  | 4.9 | 6:59  | 6.6 | 1:53  | 1.9  | 1:37     | 1.8  | 4:55                                                                                | 7:15 |    |
| 2    | Thu | 7:37  | 5.1 | 8:00  | 7.0 | 2:47  | 1.4  | 2:34     | 1.5  | 4:56                                                                                | 7:14 |    |
| 3    | Fri | 8:37  | 5.4 | 8:54  | 7.4 | 3:39  | 0.9  | 3:29     | 1.1  | 4:57                                                                                | 7:13 |    |
| 4    | Sat | 9:28  | 5.9 | 9:44  | 7.8 | 4:29  | 0.4  | 4:23     | 0.7  | 4:58                                                                                | 7:12 |    |
| 5    | Sun | 10:16 | 6.3 | 10:32 | 8.1 | 5:18  | -0.1 | 5:18     | 0.3  | 4:59                                                                                | 7:11 |    |
| 6    | Mon | 11:04 | 6.7 | 11:21 | 8.1 | 6:06  | -0.6 | 6:12     | -0.1 | 5:00                                                                                | 7:10 |    |
| 7    | Tue | 11:55 | 7.0 |       |     | 6:52  | -0.9 | 7:03     | -0.2 | 5:01                                                                                | 7:09 |    |
| 8    | Wed | 12:12 | 8.0 | 12:48 | 7.2 | 7:36  | -1.0 | 7:54     | -0.2 | 5:02                                                                                | 7:07 |    |
| 9    | Thu | 1:05  | 7.7 | 1:43  | 7.4 | 8:21  | -0.9 | 8:47     | 0.1  | 5:03                                                                                | 7:06 |    |
| 10   | Fri | 2:02  | 7.3 | 2:40  | 7.4 | 9:07  | -0.5 | 9:44     | 0.5  | 5:04                                                                                | 7:05 |    |
| 11   | Sat | 2:59  | 6.8 | 3:35  | 7.4 | 9:58  | -0.1 | 10:49    | 0.9  | 5:05                                                                                | 7:03 |    |
| 12   | Sun | 3:57  | 6.4 | 4:30  | 7.2 | 10:56 | 0.5  | 11:58    | 1.2  | 5:06                                                                                | 7:02 |   |
| 13   | Mon | 4:54  | 6.0 | 5:25  | 7.0 | 11:59 | 0.9  |          |      | 5:07                                                                                | 7:01 |  |
| 14   | Tue | 5:55  | 5.7 | 6:26  | 6.9 | 1:04  | 1.2  | 1:02     | 1.2  | 5:08                                                                                | 6:59 |  |
| 15   | Wed | 7:02  | 5.6 | 7:30  | 6.8 | 2:05  | 1.1  | 2:01     | 1.3  | 5:09                                                                                | 6:58 |  |
| 16   | Thu | 8:06  | 5.7 | 8:29  | 6.9 | 3:00  | 1.0  | 2:56     | 1.3  | 5:10                                                                                | 6:57 |  |
| 17   | Fri | 9:01  | 5.9 | 9:18  | 7.0 | 3:50  | 0.8  | 3:46     | 1.2  | 5:11                                                                                | 6:55 |  |
| 18   | Sat | 9:47  | 6.1 | 10:00 | 7.1 | 4:37  | 0.6  | 4:34     | 1.1  | 5:12                                                                                | 6:54 |  |
| 19   | Sun | 10:30 | 6.3 | 10:40 | 7.1 | 5:21  | 0.5  | 5:20     | 1.1  | 5:13                                                                                | 6:52 |  |
| 20   | Mon | 11:10 | 6.4 | 11:17 | 7.0 | 6:02  | 0.4  | 6:03     | 1.0  | 5:14                                                                                | 6:51 |  |
| 21   | Tue | 11:49 | 6.5 | 11:53 | 6.8 | 6:39  | 0.4  | 6:43     | 1.0  | 5:15                                                                                | 6:50 |  |
| 22   | Wed |       |     | 12:28 | 6.5 | 7:13  | 0.5  | 7:21     | 1.2  | 5:16                                                                                | 6:48 |  |
| 23   | Thu | 12:28 | 6.5 | 1:06  | 6.5 | 7:45  | 0.7  | 7:57     | 1.4  | 5:17                                                                                | 6:47 |  |
| 24   | Fri | 1:02  | 6.2 | 1:43  | 6.4 | 8:13  | 0.9  | 8:32     | 1.6  | 5:18                                                                                | 6:45 |  |
| 25   | Sat | 1:37  | 5.9 | 2:19  | 6.3 | 8:38  | 1.3  | 9:08     | 1.9  | 5:19                                                                                | 6:44 |  |
| 26   | Sun | 2:15  | 5.6 | 2:55  | 6.3 | 9:03  | 1.6  | 9:53     | 2.2  | 5:20                                                                                | 6:42 |  |
| 27   | Mon | 2:58  | 5.3 | 3:35  | 6.3 | 9:35  | 1.9  | 10:58    | 2.4  | 5:21                                                                                | 6:40 |  |
| 28   | Tue | 3:48  | 5.1 | 4:20  | 6.3 | 10:23 | 2.2  |          |      | 5:22                                                                                | 6:39 |  |
| 29   | Wed | 4:44  | 5.0 | 5:15  | 6.4 | 12:15 | 2.3  | 11:41 AM | 2.3  | 5:23                                                                                | 6:37 |  |
| 30   | Thu | 5:51  | 5.0 | 6:22  | 6.7 | 1:22  | 2.0  | 1:06     | 2.1  | 5:24                                                                                | 6:36 |  |
| 31   | Fri | 7:07  | 5.3 | 7:33  | 7.0 | 2:20  | 1.5  | 2:13     | 1.6  | 5:25                                                                                | 6:34 |  |