V



## 象ATES of 象OSTAGE.

Letten to ant pakt of tife United Staits.
3 eents for esch 1-2 ounce or part thereof.
Drof Lexizas, 2 eents, for ench $1-2$ ounce.
Advertismd Letters, 1 cent, in addition to the regalar rates.
Valuable Lettrans may be registered on application at the office of mailing, and the payment of a renistration fee not exceeding 20 cents.
Thassiext Newspapers, Pamphlets, PerlodIeals, and all malloble priated matter, (except circulars and books,) 2 oents for ench nad every 4 ounces. Double these rates are charged for Books.
 ceeding 3 in number, 2 cents, and in the same proportion for a grenter number.
Sexds, Certivos, Roors, te, 2 cents for each 4 ounces or less quantily.
ALL Packians of Mall Matfer not eharged wifh letter postage mast be so arranged that the same ena be cowrenicutlo examined by Postmasters: If not, letter postage will be charged.

All Postage Matten, for delivery within the United Statet, muat bo finhib hy atimps, except duly oertified letters of moldlers and sallors.
letters to Cavada and other British North American Provinces, when not over 8,000 milles, 6 ceats for each $1-2$ ounce, If prepaid; If net prepail, 10 oents. When over 3,000 miles, 10 oents. To Newfoundiand, 10 eents. Prepayment requitred.
Letters to Great Beitaik on Ieeland, 12 cente. Prepayment optional.
Letrers to Fraxce, 15 cents for each 1 -founee. Prepument optional.
Leitens to other Foheton Covetikies vary in rate, noconling to the route by which they are sent, end the proper information com be obtained of any Postmaster In the United 8tates.

Eclipses in the Year 1870.
 Treo of the Moos.
 mane or less to the eoplinests of Hi, plater, expept to Souith Amorlin. Jorthally vialle to the folloviag glaces as its timote givas:
Ai Tortos, $\{$ Mows entere Pesemles, 1Fi, fh, 1th. morn

Soose eaters Shator, ther settleg.

 the Soath Polar Itpglath
I1L-A Pastas Reursis of ras Sog, Jeae Eoch, vialle to the Showh Jacilis 9epult.


 Witll greeral. f , exorpt to mocth weatern Nerth Asorilial
 diadil kad Ealaportant kelipos, vigitio bo Kamandatki
 iv Durvge and the aurthrm half of Ahtict

MORNING AND EVENING STARS.

 rait of the year.
Jerimis vill be Erenisg Ster wela May 26th ; thes Morning fierwath

## FASTS AND FEASTS.


 Aht Wranotiy, ... Msro 2 First Suady is Leat, si 6 Prls Sunday. . . . . Apr. 19
Good Frisy. : . . . is
 Cuมเาтะas Dat... Det.
$\sim \infty$ I N U ARY. 20

## Now Maet.

First Quartet,
Yofl Yoans.
sitt Sorrter
Ser

## 1870

## $1 \mid$ Sate.

| 1 | Mat |
| :--- | ---: |
| 3 | Mos |

4 TuEs
$\frac{4}{5}$ Web
6 TuOB.
7 Frid.
8
Sare.
8
9
18
0 B
11 Ture
TuEs
13 WHEF
14 Ferd.
15 9ォTU
19
Mo.
Tos,
WeD.
90 Tird
$\begin{array}{ll}20 & \text { Ticus. } \\ 21 & \text { Frid. } \\ 29 & \text { \& 4TU. }\end{array}$
23
$\frac{24}{25}$ Mov,

| 25 |
| :--- |
| 25 |
| TeEs |

27 THER.
09 sate.
3
31 Mos

| sux. |  | moox. |  | Higit Tide |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Rives. | Ects. | R.1.8. | Bevith | Wern's | Eren'g |
| 730 | 439 | sers | 1146 | 112 | 1127 |
| 30 | 439 | 532 | 043 | 1151 |  |
| 30 | 440 | 635 | 136 | 014 | 035 |
| 30 | 441 | 737 | 227 | 059 | 121 |
| 30 | 442 | 833 | 315 | 143 |  |
| 30 | 443 | 933 | 40 | 226 | 246 |
| 30 | 444 | 1037 | 443 | 37 | 828 |
| 29 | $4{ }^{4} 45$ | 1136 | 523 | 349 | 411 |
| 29 | 446 | stosy | 6.6 | 438 | 450 |
| 29 | 447 | 631 | 645 | 520 | 544 |
| 729 | 448 | 132 | 731 | 610 | 636 |
| 728 | 440 | 231 | 817 | 7.3 | 731 |
| 723 | 450 | 332 | 95 | 758 | 25 |
| 27 | 453 | 433 | 956 | 882 | f 19 |
| 27 | 458 | 534 | 1051 | 345 | 1012 |
| 78 | 454 | 632 | 1147 | 1038 | 113 |
| 26 | 4.55 | Rists | MOES | 1128 | 11 \$2 |
| 725 | 456 | 610 | 041 |  | 015 |
| 7 25 | 458 | 730 | 140 | 031 |  |
| 721 | 460 | 849 | 235 | 127 | 151 |
| 21 |  | 954 | 328 | 215 | 238 |
| 23 |  | 11 6 | 420 |  | 326 |
| 22 |  | Mofk | 511 | 351 | 418 |
| 21 |  | 016 | 6.2 | 446 | 515 |
| 21 |  | 126 | 654 | 546 | 618 |
| 20 |  | 236 | 747 | 650 | 722 |
| 19 |  | 341 | 842 | 754 | 825 |
| 18 | 5.9 | 447 | 937 | 8,56 | 9.25 |
| 17 | 510 | 544 | 10 | 9.53 | 10.20 |
| 16 | 512 | 8हा5 | 1126 | 10.45 | 119 |
| 15 | 513 | 5.21 | 0.18 | 11. |  |



| 1870 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | sux. |  | M00\%. |  | men mipz |  |
|  |  | Wiens | Sent. | R.s. S . | Sevitat | Mens | mas |
| 1 | Tues. | 638 | 550 | skrs | 1149 | 11.10 | 1129 |
| 2 | WkD. | 63 | 551 | 614 | 033 | 11 48 |  |
| 3 | Tuiz. | 63 | 552 | 714 | 116 | ${ }^{0} 6$ | 08 |
| 4 | Frid. | 631 | 554 | 812 | 158 | 042 |  |
| 5 | Satu. | 629 | 55 | 910 | 239 | 118 | 135 |
|  |  | 628 | 5.56 | 109 | 321 | 154 | 213 |
| 7 | Mos. | 623 | 557 | 118 | 4 | 232 | 251 |
| 8 | Tues. | 624 | 528 | mons | 448 | 311 | 3 |
| 10 | Wed. | 623 | 5 50 | 0 | 535 | 354 |  |
|  | Thur. | 621 |  | 1 | 625 | 4 IL. |  |
|  | Furd. | 619 |  | 23 | 717 | 543 | 614 |
| 12 | Satu. | ${ }^{6} 18$ | 63 | 238 | 812 | ${ }^{6} 46$ | 719 |
|  |  | ${ }^{6} 16$ |  | 349 | 9 | 782 | 823 |
| 14 | Mos. | 614 |  | 436 | 10 | 854 | 924 |
| 15 | Tess. | 612 | 6.6 | 519 | 11.0 | 953 | 1021 |
| 16 | Wis. | 611 | 68 | 5 57 | 1185 | 1047 | 1111 |
| 17 | Tium. |  |  | RISEs | mory | 1134 | 1157 |
| 18 | Frid. | C | 610 | 743 | 050 |  | ${ }^{0} 26$ |
| 19 | Sare |  | 611 | 839 | 145 | 043 |  |
| 2 |  |  | 612 | 1014 | 239 | 130 | 154 |
| 21 | Mos. |  | 613 | 1126 | 335 | 219 | 24 |
| 22 | Tuss. | 60 | 614 | mons | 431 | 310 | 337 |
| - | Wep. | 559 | 615 | 034 | 527 | 4 | \% |
| 24 | Thus. | 5.57 | 616 | 135 | 623 |  | 541 |
| 25 | Fatio | 555 | 618 | 231 | 718 | 614 | 647 |
| 28 | Satu. | 583 | 619 | 319 | 810 | 719 | 780 |
|  |  | 552 | 620 | 40 | 90 | 819 | 847 |
|  | Mox. | 530 | 621 | 434 | 947 | 912 | 935 |
|  | Ters | 548 | 622 | 5 | 1031 | 98 | 1019 |
|  | Wed. | 546 | 623 | 531 | 1114 | 1030 | 1059 |
|  | 1 Thus. | 545 | 624 | 50 |  |  |  |



First Quarter, 8th day, 11h. 41 m . Even'g. Fuil 3oon, 154 h day, Sh. 42 m . Even'gIast Qaaster, 204 day, Mh. 41 m . Morn'g New Moon, Soth dny, 1h. 5 Sm. Nren'f-


## $-9 K$ M A Y. $20-$

03
First Quserter, sh day, 10h, 83 m . Mornty Full Moon, 151 h day, 1h. 19 m . Morn' Tast Quarter, 22d day, '9h. 2 mm . Morn'z. New Moon, joth dry, Sh. 13m. Morn'g

| 1870 |  | 8 Us |  | MOON. |  | IIGAI TIDE. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Risen. | 8 | F. 48. | Exat. | Miom's | 2men'c |
| 1 | O | 55 | 679 | 83 |  | 19.56 |  |
| 2 | Mos. | 54 | - | 53 | 129 | 014 |  |
| 3 | Ters. | 53 | 71 | 951 | 216 | 053 | 113 |
| 4 | Wed | 51 | 7 | 1047 |  | 134 |  |
| 5 | Tius | 50 | 73 | 1139 | 357 | 218 |  |
| 6 | Fam | 49 | 75 | yonx | 450 | 3 |  |
| 7 | gate. | 48 | 76 | 027 | ,5 49 | 356 |  |
| 8 |  | 446 |  | 110 | 635 | 450 |  |
| 9 | Mos. | 45 |  | 149 | 728 | 55 |  |
| 10 | Tur | 444 | - | 224 | 820 | 7 |  |
| 11 | W | 43 | 710 | 256 | 912 | 8 |  |
| 12 | Thu | 42 | 711 | 327 | $10^{5}$ | 859 | 327 |
| 13 | Frad | 41 | 712 | 358 | 11 | 54 | 1021 |
| 14 | Sat | 40 | 713 | 432 | 115 | 1047 | 1112 |
| 15 |  | 39 | 714 | R1ses | Mosk | 1136 |  |
| 16 | Mos. | 38 | 715 | 96 |  | 0 0 | 925 |
| 17 | Tues. | 37 | 716 | 1012 |  |  |  |
| 18 | Wz | 36 | 717 | 1119 | 2 |  |  |
| 19 | Trum | 35 | 718 | 1158 | 354 |  |  |
|  | Faid. | 34 | 719 | MORS | 449 | 328 |  |
| 21 | Satu. |  | 720 | 038 | 540 | 422 | 450 |
|  |  | , 31 | 721 | 110 | 628 | 519 |  |
|  | Mos. | 31 | 7 \% | 138 | 712 | 613 |  |
| 24 | Ters. | 30 | 723 | 25 | 754 |  |  |
|  | W[D | 30 | 724 | 231 | 836 | 56 | 30 |
|  | Trith. | 429 | 725 |  | 917 | 43 |  |
|  | Frid. | 23 | 726 |  | 958 | 926 |  |
|  | Sare. | 428 | 727 | 345 | 1041 | 10.8 | 11 |
|  |  | 427 | 727 | 414 | 11.26 | 1049 |  |
|  | Mon. | 427 | 728 | 8 ErTs | 0.13 | 1129 | 11 |
|  | TuE | 428 |  | 84 |  |  |  |

Firit Quarter, 6th dsy, 6h. S2m. Even'gFall Moon, 13th day, 6 h. 3 m . Morn' g . Iast Quarter, geth day, 4 h. 50 m . Even'g.
New Moon, Sth day, Gh. 49 m . Even'g.

| 1870 |  | 8U8. |  | M00 K. |  | HIGR TIDE. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Rieen | Spets. | It.A8. | Sorths. | Mem's | Evrs'z |
| 1 | Wed. | 428 | 730 | 937 | 154 | 030 | 032 |
| 2 | Thurs. | 425 | 731 | 1027 | 246 | 115 | 137 |
| 3 | Fictio | 425 | 731 | 1112 | 339 | 20 | 224 |
| 4 | Sate. | 424 | 732 | 1151 | 432 | 248 | 313 |
| 5 |  | 424 | 733 | Holix | 523 | 338 | 44 |
| 6 | Mos. | 424 | 733 | 0.25 | 614 | 4311 | 50 |
| 7 | Tuss. | 423 | 734 | 057 | 74 | 530 | 60 |
| 8 | Wed. | 423 | 735 | 128 | 7.15 | 630 |  |
| 0 | Taug. | 423 | 735 | 1.53 | 847 | 732 |  |
| 10 | Frid. | 423 | 736 | 229 | 942 | 832 |  |
| 11 | Sart. | 422 | 736 | 3 3 | 10.38 | 930 | 9.58 |
| 12 |  | 422 | 737 | 342 | 1138 | 10.26 | 10.53 |
| 13 | Mos. | 422 | 737 | साह15 | 3folex | 1120 | 11.45 |
| 14 | Tues. | 422 | 738 | 843 | 038 | 11.20 | 0.3 |
| 15 | Wed. | 422 | 738 | 948 | 138 | 035 | 11 |
| 16 | Tuun. | 422 | 738 | 1035 | 236 | 123 | 151 |
| 17 | Frib. | 422 | 739 | 1111 | 330 | 216 | 240 |
| 18 | SaTU. | 422 | 739 | 1142 | 420 | 3 | 326 |
| 19 |  | 423 | 739 | motin | 57 | 350 | 414 |
| 20 | Mox. | 423 | 740 | 0 O 9 | 551 | 438 | 52 |
| 21 | Tues | 423 | 740 | 034 | 635 | 527 | 512 |
| 22 | Wed. | 423 | 740 | 058 | 714 | 617 | 642 |
| 23 | Trem. | 423 | 740 | 122 | 755 | 77 | 732 |
| 24 | Frib. | 424 | 740 | 148 | 838 | 757 | 822 |
| 25 | Sart. | 424 | 740 | 216 | 922 | 846 | 910 |
| 27 |  | 421 | 740 | 247 | 108 | 934 | 957 |
| 27 | Mov. | 425 | 740 | 323 | 10.57 | 1021 | 1044 |
| 28 | Tues. | 425 | 740 | 46 | 1148 | 116 | 1128 |
| 29 | Wed. | 425 | 740 | SET8 | 041 | 1150 |  |
| 30 | THUR. | 426 | 740 | 912 | 135 | 012 | 035 |

First Quarter, sth day, 11h. 40m. Even'g Fall Moon, $12 t$ day, 5 h .51 m . Even'g. last Quarter, Dish day, th. 25min. Mern's New Moott, 2sth dny, ©h. 34m. Morn'g.

| $18 \% 10$ |  | BUS |  | moos. |  | HEALI TIDE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ripes. | Seta. | R. 1.8. | Soetha. | Mern'g | Eren't |
| 1 | Frid. | 425 | 740 | 952 | 228 | 050 | 1.21 |
| 2 | Satu. | 427 | 740 | 1928 | 321 | 144 | 28 |
| 3 |  | 427 | 740 | 11.1 | 412 | 232 | 255 |
| 4 | Mos. | 428 | 740 | 11.32 | 52 | 319 | 343 |
| 5 | Tues. | 429 | 739 | moms | 551 | 48 | 434 |
| 6 | WED. | 429 | 739 | 00 | 642 | 52 | 532 |
| 7 | THUR. | 430 | 739 | 029 | 734 | 63 | 635 |
| 8 | Frib. | 431 | 738 | 12 | 827 | 77 | 738 |
| 9 | 8ATU. | 431 | 7 38 | 139 | 924 | 83 | 841 |
| 10 |  | 432 | 738 | 221 | 1022 | 912 | 941 |
| 11 | Mos. | 433 | 737 | 38 | 1122 | 1010 | 1038 |
| 12 | Tues. | 433 | 737 |  | 3CORN | 116 | 1132 |
| 13 | WKD. | 434 | 736 | 825 | 0.21 | 1106 | $\ldots$ |
| 14 | THER. | 435 | 735 | 96 | 117 | 029 | 043 |
| 15 | Fub. | 436 | 735 | 941 | 29 | 16 | 123 |
| 16 | SATU. | 437 | 731 | 10 11 | 259 | 150 | 212 |
| 17 |  | 438 | \% 34 | 1037 | 344 | 233 | 253 |
| 18 | M0X. | 438 | 735 | 111 | 423 | 313 | 334 |
| 19 | TeEs. | 433 | 732 | 1125 | 510 | 355 | 417 |
| 20 | Wed. | 440 | 731 | 1100 | 551 | 439 | $5 \quad 2$ |
| 21 | THUR. | 441 | 730 | Kors | 6. 33 | 527 | 508 |
| 22 | Frab. | 442 | 729 | 016 | 716 | 619 | 645 |
| 23 | Satu. | 443 | 729 | 045 | 81 | 712 | 739 |
| 24 |  | 444 | 728 | 119 | 849 | $8 \cdot 7$ | 835 |
| 25 | Mox. | 445 | 727 | 2.0 | 939 | $9 \quad 1$ | 9.27 |
| 23 | TuEs. | 446 | 726 | 248 | 10.32 | 9.54 | 10,20 |
| 27 | Web. | 447 | 725 | 343 | 1125 | 1045 | 11.9 |
| 28 | Trum- | 448 | 724 | SETS | 020 | 113 | 11.5 |
| 29 | Faid. | 449 | 723 | 828 | 114 |  | 017 |
| 30 | Sate. | 450 | 722 | 3.4 | 27 | 040 |  |
| 31 | \% | 451 | 721 | 935 | 250 | 126 | 149 |


| 1870 |  | $\begin{aligned} & \text { Moom } \\ & \text { Quar } \\ & \text { M Moom } \end{aligned}$ | $\begin{array}{r} 11 \\ 19 \\ 26 \end{array}$ |  |  | $\begin{aligned} & \text { Mo } \\ & \text { Mon } \\ & \text { Mor } \\ & \text { Eve } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 8 EN |  | moor. |  | man tide |  |
|  |  | Riven | Sels. | R.4.8. | Boathe | Man'k | Keso's |
|  | Mos. | 452 | 720 | 104 | 349 |  |  |
|  | Tuss. | 453 | 718 | 1033 | 439 | 257 | 321 |
|  | Wed. | 454 | 717 | 11.4 | 530 | 345 | 411 |
|  | THer. | 455 | 716 | 1138 | 623 | 439 | 59 |
|  | Fump. | 456 | 715 | sorss | 717 | 541 | 613 |
|  | Sate. | 457 | 714 | 017 | 813 | 646 | 719 |
|  | Mô. | 458 | 712 | 13 | 911 | 753 | 826 |
|  | Tus. | 50 | 711 | 186 | 109 | 858 | 928 |
| 10 | Wed. |  |  | 2 3 3 | $\begin{array}{ll}11 & 5 \\ 11 & 59\end{array}$ | ${ }^{9} 58$ | 1026 |
| 11 | Ther. |  | 78 | Hiski | 1159 | 10 52 | 1115 |
| 2 | Frud. |  |  | 810 | Mols | 1137 | 11.59 |
| 13 | Satu. | 5 | 74 | 838 | 137 |  | 20 |
| 14 |  | 5 | 73 | 93 | 222 | 0 1 | $\begin{array}{ll}1 & 0 \\ 1 & 39\end{array}$ |
|  | Mox. | 5 | 71 | 927 |  | 158 | $\begin{array}{lll}1 & 39 \\ 2 & 17\end{array}$ |
|  | Tuss. | 58 | 70 | 92 | 346 | 235 | 254 |
|  | Web. | 5 | 658 | 1018 | 428 | 314 | 334 |
|  | THur. | 510 | 657 | 1045 | 510 | 3 S5 | 417 |
|  | Fald. | 511 | 6.55 | 1116 | 554 | 441 | 56 |
|  | Sarv. | 512 | 654 | 1153 | 640 | 533 | 6 |
|  | Mos. | 513 | 652 | sors | 729 | 631 |  |
|  | Ters. | 5 515 | 651 649 | 037 1 1 | 820 | 731 | 8 |
|  | WED | . 516 | 649 648 | 129 | 913 | 831 |  |
|  | Ther. | 517 | 646 | 333 | 11 <br> 11 <br> 1 | ${ }_{10} 929$ | 957 1050 |
| 28 | Frib. | 518 | 644 | 88rs | 11 ह7 | 1114 | 1136 |
| 27 | Satu. | 519 | 643 | 734 | 050 | 11.58 |  |
| 2 |  | 520 | 641 | 86 | 142 | 020 | 42 |
| 29 | Mos. | 521 | 639 | 836 | 234 | 15 | 127 |
|  | Turs. | 522 | 638 | 96 | 326 | 150 | 213 |
| 31 | Wed. | 523 | 636 | 939 | 4.19 | 2.36 | 30 |

## SCSTSEPTEMBER. POOS

Fint Quarter, at day, 9 h .1 mm . Morn'g. Full Moon, sth day, she 2tm. Even\%. Iast Quarter, 17th day, 8h. 6 ma . Even ef New Molon, 25 th day, 1h. Som. Monag?

| 1870 |  | sex. |  | moor. |  | Hill fibe |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Niest | Sets. | A.ss. | Sowth: | * fatr | Even's |
| 1 | Teur. | 524 | 634 | 1016 | 513 | 325 |  |
|  | Find. | 528 | 633 | 1059 | 69 | 420 | 461 |
|  | satu. | 527 | 631 | 1149 |  | 524 | 557 |
|  |  | 523 | 629 | morx |  | 632 |  |
|  | Mos. | 529 | 6.28 | 046 | 859 | 742 | 815 |
|  | Tuns. | 530 | 626 | 148 | 952 | 846 | 914 |
|  | Wid. | 531 | 624 | 252 | 1043 | 941 |  |
|  | Tiun. | 532 | 622 | 357 | 1131 | 1031 | 1053 |
|  | Fkid. | 533 | 621 | musts | mons | 1114 | 1133 |
| 0 | Sarv. | 534 | 619 | 74 | 016 | 1151 |  |
| 11 | 8 | 535 | 617 | 729 |  | 010 | 028 |
| 12 | Mox. | 536 | 615 | 753 | 142 | 047 |  |
| 13 | Tuss. | 537 | 614 | 818 | 224 | 123 | 141 |
|  | Wep. | 538 | 612 | 845 | 36 | 159 | 218 |
|  | Tuua. | 530 | 610 | 915 | 349 | 237 | 257 |
| 16 | Frid. | 540 | 68 | 949 | 434 | 318 | 340 |
|  | Sate. | 541 | 6 | 1029 | 521 | 44 | 429 |
| 18 | 8 | 543 | 65 | 1115 | 610 | 456 | 525 |
| 19 | Mox. | 544 | 63 | mors | 71 | 555 | 625 |
|  | Tuss. | 545 |  | 011 | 784 | 658 | 731 |
| 21 | Wex. | 546 | 60 | 113 | 848 | 83 | 83 |
|  | Thur. | 547 | 558 | 220 | 942 | 93 | 930 |
|  | Fuid. | 548 | 556 | 331 | 1036 | 957 | 1024 |
| , | Saxu. | 549 | 554 | 446 | 1129 | 1049 | 1112 |
|  |  | 550 | 552 | smb | 022 | 1135 | 1157 |
| $25$ | Mox. | 551 | 551 | 74 | 115 |  | ${ }^{0} 19$ |
| 27 | Tues. | 582 | 549 | 736 | 210 | 0.41 | 15 |
| 2 | Wrp. | 553 | 547 | 813 | 35 | 129 | 153 |
| 29 | Trub. | 55 | 545 | 856 |  | 217 | 242 |
| 0 | 0 Frib. | 556 | 544 | 945 |  | 39 | 3.37 |



Fiet Gusrier, 1at isy, th. T3e. Erenlng-




| 1870 |  | 80\%. |  | M00N. |  | Imate | TIDE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | \#ues. | Set | L5 | Sowthe. | Moen | Eras'k |
|  | SAT | 557 | 542 | 1040 |  |  |  |
|  |  | 558 | 540 | 1140 | 655 | 11 |  |
|  | Mos. | 559 | 538 | 30月x | 749 | 619 | 653 |
|  | Turs. | 60 | 537 | 044 | 840 | 725 | 755 |
|  | WED | 61 | 535 | 148 | 928 | 824 | 851 |
|  | Truis | - | 533 | 251 | 1014 | 916 | 940 |
|  | Fieid |  | 532 | 354 | 1057 | 103 | 1024 |
|  | Sate | 64 | 530 | 456 | 1139 | 1044 | 11 |
|  |  | 66 | 528 | Rises | 30ms | 1121 | 1139 |
| 10 | Mox. | 6 | 527 | 620 | 021 | 1156 |  |
| 11 | Turs. |  | 525 | 646 | 13 | 013 |  |
| 12 | Wed |  | 523 | 715 | 146 | 049 |  |
| 13 | THE | 610 | 522 | 747 | 230 | 127 | 146 |
| 14 | Fard. | 612 | 520 | 824 | 316 | 26 | 2 er |
| 15 | 8atu | 613 | 518 | 98 | 4 | 246 | 311 |
|  |  | 614 | 517 | 959 | 453 | 334 | 350 |
| 17 | Mos. | 615 | 515 | 1057 | 545 | 426 | 4 |
|  | Tues. | 616 | 514 | 3tomx | 637 | 525 | 557 |
| 19 | WED. | 6.17 | 512 | 0 | 729 | 629 |  |
|  | Ther. | 619 | 511 | 18 | 822 | 732 |  |
|  | Fub. | 620 | 59 | 219 | 914 | 832 |  |
|  | Satu. | 621 | 5 | 333 | 106 | 929 | 955 |
|  |  | 629 | 5 | 447 | 10.50 | 1021 |  |
|  | Mos. | 623 |  | SETS | 1153 | 11.9 | 1132 |
|  | Tuss. | 624 |  |  | 680 | 1156 |  |
|  | WED | 626 |  | 647 | 148 | 020 |  |
|  | Tres. | 627 |  | 735 | 243 | 19 | 135 |
|  | Frib. | 628 | 459 | 830 | 349 |  | 229 |
|  | Saty. | 629 | 458 | 930 | 448 | 257 | 325 |
|  |  | 631 | 456 | 1033 | 545 | 354 | 424 |
| 31 | Mox | 632 | 455 | 1138 | 638 | 455 | 527 |



Full Moon, sth day, 2 h .48 m . Morn'g. Iast Quarter, 10th day, 4 h .15 m . Morn'g.
New Moon, esy day, 8 h 3 Ifm. Erestgo
Firat Quarter, zeth day, 5 h . 4mm. Wven's.

| 1870 |  | 8 OK . |  | Moom. |  | Hign tide |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Itimas. | Secs. | mas. | Boutha. | X an'z $^{\text {a }}$ | Exen't |
| 1 | Tens. | 633 | 454 | W0RX | 727 | 5.53 | 629 |
| 2 | Wed. | 634 | 452 | 043 | 813 | 658 | 726 |
| 3 | Tifur. | 636 | 451 | 147 | 856 | 753 | 819 |
|  | Frib. | 637 | 450 | 248 | 939 | 843 | 96 |
| 5 | Saru. | 633 | 449 | 348 | 1020 | 927 | 948 |
|  |  | 639 | 448 | 447 | 111 | 108 | 10.28 |
|  | Mos. | 641 | 446 | 546 | 1144 | 1048 | 117 |
| 8 | Ters. | 642 | 445 | Rusis | morx | 1125 | 1143 |
| 9 | WED. | 643 | 444 | 548 | 027 |  | 0 0 1 |
| 10 | Ture | 645 | 443 | 624 | 113 | 020 | 033 |
| 11 | Fum. | ${ }^{6} 46$ | 4 42. | 75 | 20 | 0.59 | 120 |
| 12 | Sate. | 647 | 441 | 75 | 249 | 1.41 | 23 |
| 13 |  | 648 | 440 | 845 | 340 | 225 | 249 |
| 14 | Mos. | 650 | 439 | 947 | 431 | 313 | 337 |
| 15 | Tues. | 651 | 438 | 1051 | 52 | 43 | 430 |
| 10 | Wab. | 652 | 437 | 1150 | 613 | 459 | 529 |
| 17 | Trua. | 653 | 437 | soors | 73 | 559 | 629 |
| 18 | Ferb, | ${ }_{6} 85$ | 436 | 19 | 753 | 70 | \% 30 |
| 19 | Satu. | 656 | 435 | 221 | 844 | 80 | 829 |
| 20 |  | 6.57 | 434 | 335 | 936 | 857 | 924 |
| 21 | Mos, | $6^{6} 58$ | 434 | 451 | 1030 | 951 | 1018 |
| 22 | Tuss. | 689 | 433 | 69 | 1128 | 1045 | 1111 |
| 23 | Wed. | 71 | 432 | 8 mma | 028 | 1196 |  |
| 24 | Trut. | 72 | 432 | 613 | 130 | 0 | 027 |
| 2 | Fatd. | 7 7 7 | 431 | 713 | 233 | 054 | 121 |
| 28 | Satu, | 74 | 431 | 818 9 | 333 4 | $\begin{array}{ll}1 & 47 \\ \\ 4\end{array}$ | 216 |
| 28 | Mos. | 75 | 430 430 | $\begin{array}{r}925 \\ 10 \\ \hline 11\end{array}$ | 429 | 243 | 3. |
| 2) | Tues. |  | 429 | 1137 | 529 6.10 | 335 430 |  |
| 30 | Wed. | 78 | 429 | soms | 655 | 525 | 18 |
|  |  |  |  |  |  |  | 22 |



TUESDAY, JANUARY $4,1870$.
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MONDAY, JANGAES $10,1870$.
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Thursday, January $13 ; 1870$.
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Monday, January 31, 1870.
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Wednesday, February 9, 1870.
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Saturday, February $12,1870$.




Sunday 13
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Friday, Maiter 11, 1870.
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MONDAV, MARCH $14,1870$.
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SATURDAY 12
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THURSDAy 24


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TUEídAv, March $29,1870$.

Wednesday 30

THURSDAY 31

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Moxday, Auril 4, 1870.

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THURSDA5, APRIL 7, 1870.

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Saturday 9




Thumsday, Aprill 28, 1870.
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SUNDAY, MAY 1, 1870.
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TUESDAY 24

Friday 27
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Saturday, May 28, 1870.


Sunday 29

Monday 30
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Tuesday, May 31, 1870.

Wednesday, June 1

Thursday 2

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Monday 4
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Friday 8














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Wednesday 5 Pajer pucelín a/ 2, PM,




Tuesdax, October 25, 1870.

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THURSDAY 27
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Friday, Octower 28, 1870.
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Saturday 29

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& \text { Wednesday, November } 9,1870 . \\
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Friday, November 18, 1870.
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Saturday 19

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Sunday 20
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Monday, Nontmmaz 21, 1870.

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Wednesday 23



Tuesday, December 6, 1870.

Wednesday 7

Thursday 8
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Friday, December $9,1870$.
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