

## Explanatinn of Calmoar 猃agc\％．

 its wonderful popularity．The Publishers of this Almanac，with a view to increase its circula－ tion and usefulness，have adapted its calculations for the whole country． The Moon＇s changes are given for four different places，viz；Montreal， Kingston，Toronto，and London．The rising and setting of the Sun are given for Montreal and Toronto．The Sun＇s declination North or South is given as usual．The rising and setting of the Moon are given with safficient exactness for all practical purposes．The weather prognos－ tications are again calculated according to the table of the celebrated Dr．Herschel，and for extraordinary accuracy Miller＇s Almanac retains
Julian Period ..... $65 \%$Jewish year commencing14th January，1859．．．．．562
Age of the World ．．．．．．．． 586 Vern：Mahometan year；Ocf．15th 1279 Sumn

## fllodable ffestionals．



Low Sunday April Rogation Sunday．．．．．．May Ascension Day．．．．．．．．． Whitsunday Trinity Sunday．．．．．．．June Corpus Christi，Fete－Dieu＂ Advent Sunday．．．．．．．．Dee．
${ }^{1}$ Sun i Sun i
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## 煖olitaans obsertoey at 挡ublic ©ffices．

Circumoision．．．．．．．．．Jan． 1

Epiphany．．．．．．．．．．．．．＂ 6
Annunciation ．．．．．．．．March 25
Good Friday ．．．．．．．．April 6
Ascension Day．．．．．．．．May 17
Queen Yietoria＇s Birthday＂ 24

Corpus Christi ．．．．．．．．．June Star， St．Peter and St．Paul．＂MMorni All Saints Day ．．．．．．．Nov．on the Conception of the Blessed

Virgin Mary ．．．．．．．．．Dec．
Christmas Day ．．．．．．．．．

## ECLIPSES DURING THE YEAR 1860.

During this year there will be four Eclipses, two of the Sun and two of the Moon.
I.-On the 22nd of January there will be an Annular Eclipse of the Sun, but it will not be visible in America.
II.-On the 6th day of February there will be a partial Eclipse of the Moon. Visible in size 9744 digits on the North limb. It begins in the Evening at Montreal 9 minutes past 8. The Eclipse attains its largest size at 35 minutes past 9 , and ends about 11 o'clock. It begins in Toronto 7.46 ; middles 9.12 , and ends at 38 minutes past 10.
rated III.-On the 18th of July there will be a total Eclipse of the Sun in the Morning. On this Continent it will be only partial. In Canada it will be visible about two hours, beginning a few minutes past $\boldsymbol{T}$ in the morning and ending a few minutes past 9 .
IV.-On the 1st day of August there will be a partial Eclipse of the Moon, but it will not be visible in Canada.

DURATION OF THE SEASONS, \&c.

## APPEARANCE OF PLANETS, 1860.

Until July 18th Venus will be the Evening Star, and then the Morning Star the rest of the year. Until July 17th, Mars will be Morning Star, then Evening the remainder of the year. Saturn will be Morning une Star until February 11th, then Evening Star until August 22nd, then " Morning Star the rest of the year. Venus will be Eclipsed by the Moon ov. on the 24th of April, visible generally throughout the country. The Planet will disappear behind the Moon about half past eight in the

1st Month. JANUART, 31 Days. Begins on Sunday.

| Moon's Phases. |  | Montreal. | Kingstin. | Toronto. | London. | Sun on Meridian |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | d. | h. | 11. | h. | h. m | d. |  |  |
| Fual Moon, ..... | ${ }_{15}^{8}$ | 10 298 mo |  | ${ }_{10}^{10} 6 \mathrm{mmo}$ | 9 988 mo | 1 | 12 | 17 |
| Last Quarter,.... | ${ }_{2}^{15}$ | ${ }_{7}^{2} 58 \mathrm{mmo}$ | , $\begin{aligned} & 153 \mathrm{mag} \\ & 711 \mathrm{ev} \text {. }\end{aligned}$ | ${ }_{6}^{1} 41 \mathrm{~m}_{59 \mathrm{mv}}$ | 133 mo 651 ev. | 17 | ${ }_{12}^{12}$ | 7 <br> 1018 <br> 18 |
| First Quarter,... | 31 | - 17 mo . | 05 mo . | 1153 ev . | 1145 ev . | 25 | 12 | 1234 |


|  | DAYs. | Mon | trea | Tor | onto. | Sun's Declinat. | The Moon. | Calendar, Aspects, \&o. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M. | Week. | $\underset{\text { Rus }}{\text { Rises. }}$ | $\begin{array}{\|l\|l} \text { Sun } \\ \text { Sets. } \end{array}$ | $\begin{gathered} \text { Suu } \\ \text { Rises. } \end{gathered}$ | Sun <br> Sets. | South. | R. \& 5 . |  |
|  |  |  | h. | h. m. | h. | Deg. Min. |  |  |
|  | Mon. | 746 46 | 420 | 740 40 | 428 <br> 29 | $\begin{array}{ll}23 & 2 \\ 23 \\ 23 & 57\end{array}$ | Morn. 112 | Cireumcision. <br> 1 st Sun. after Chris |
|  | Tue | 46 | 23. | 40 | 30 | 2251 | 2.16 | 1st ${ }^{\text {I }}$ Inclement weather may |
|  | Wed | 45 | 23 | 39 | 31 | 2245 | 24 | be looked for at the begin- |
|  | Thu. | 45 | 9 | 39 |  | 2239 | 33 | ning of the |
|  | Fri. | 45 | 25 | 39 | 3 | $\begin{array}{ll}22 & 32\end{array}$ | 42 | Epip |
|  | Sat. | 44 | 27 | 39 | 34 | 2224 | 644 | Var |
|  | A. | 744 | 428 | 738 | 435 |  | \%... | 1 \% Stun |
|  | Mon | 44 |  | 38 |  |  |  | Verr |
|  | Tues | 43 | 31 | 37 | 37 | 22 |  | veather |
|  | Wed | 13 | 33 | 87 |  | 2151 | 84 | Some thaw but not |
|  | Thu. | 42 | 34 |  | 40 | 2141 |  | long |
|  | Fri. | 42 | 36 | 37 | 41 | 21.31 | 1122 | Very |
|  | Sat. | 41 | 37 | 36 | 42 | 2121 | Morn. | Agre |
| $\begin{aligned} & 17 \\ & 16 \\ & 17 \\ & 18 \\ & 19 \\ & 90 \\ & 21 \end{aligned}$ | a. | 740 | 438 | 736 | 443 |  |  | 2nd Sun. after Epiphany. |
|  | Mon |  | 39 |  | 4 |  |  | 速 |
|  | Tues | 39 | 41 | 35 | 45 | $20 \quad 47$ |  | for a'change of veather. |
|  | Wed. | 39 | 42 | 34 | 46 | $20 \quad 35$ |  | Very cold |
|  | Thu. | 38 | 4 | 3 | 48 | $20 \quad 23$ |  | Lower Can |
|  | Fri. |  | 45 | 32 | 4 |  |  |  |
|  | Sat. | 36 | 47 | 31 | 50 | 1957 | 641 | Fair and frosty. |
| 2223242526272828 | A. | 735 | 449 |  | 4 |  |  |  |
|  | Mon. | 34 | 51 |  |  |  |  |  |
|  | Tues | ${ }^{3}$ | 52 | 28 | 54 | 1916 |  | he Janu |
|  | Wed. | 32 | 53 | 27 | 56 | 191 |  | as |
|  | Thu. | 31 | 54 | 26 | 57 | 1846 | 858 | Conver |
|  | Fri. | 31 | 65 | 25 | 5 | 1831 |  | but a little earlier. The end |
|  | Sat. | 30 | 56 | 24 | 500 | 1815 | 11 | of the month |
|  |  |  |  |  |  |  |  |  |
|  | Mon. | 2 |  |  | 2 |  |  |  |
|  | Tues. | 27 | 500 | 23 | 4 | 1726 | 17 |  |

Jandary.-A sensible farmer will employ the comparative leisure of the winter season in useful and profitable undertakings. His time is largely occupied in the manufactories of those fertilizing materials, the product of the stables and stock-yards. He will look to the continued fertility of his land, and will therefore bave well-considered and tho-roughly-applied plans for the feeding, as well as the cropping of the soil. His thoughts will be directed to procuring, as far as possibie, the necessary supplies of manure upon the farm. Home-souices of strength, and unemployed valuable fertilizers, will receive due consideration. He will find that labour here, is time and money saved.


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2nd Month. FEERRUARY, 29 Days. Begins on Wednesday.

| Moon's Phases. |  | Montreal. | Kingston. | Toronto. | London. | Sun on Meridian. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ${ }_{6}$ d | ${ }_{9}^{\text {h. m }} \mathrm{ml}$. ev . | ${ }_{9}^{\text {h. m. }}$. ${ }^{\text {ev. }}$ | h. m. ${ }_{9} 18$ ev. | $\mathrm{h}_{9}^{\mathrm{h}} \mathrm{m}$. | ${ }_{1}^{\text {d. }}$ |  |  |  |
| Fuast Quarter,... | ${ }^{13}$ | 9 <br> 15150 ev <br> 180 | 9 <br> 1 <br> 12950 ev <br> 1 | 9 $\mathbf{9} 184 \mathrm{ev}$ ev. | 910 ev 1268 ev. | ${ }_{9}^{1}$ |  |  |  |
| New Moon,...... | 21 | 243 ev . | 232 ev . | 221 ev . | 213 ev . | 17 |  |  |  |
| First Quarter,... | 29 | 31 ev . | 249 ev . | 238 ev . | 230 ev . | 25 |  | 13 |  |


| DAYs. |  | Mortreal. |  | Toronto. |  | Sun's <br> Declinat. <br> South. | The Moon. <br> R. \& S. | Calendar, Aspects, \&cc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M. | Week. | Sun Rises. | $\begin{gathered} \text { Sun } \\ \text { Sets. } \end{gathered}$ | Sun <br> Pises. | Sun Sets. |  |  |  |
| $\left.\begin{array}{l\|l} 1 \\ 2 \\ 3 \\ 4 \end{array} \right\rvert\,$ | Wed. <br> Thu. <br> Sat. | $\left\|\begin{array}{c} \text { h. m. } \\ 727 \\ 26 \\ 25 \\ 23 \end{array}\right\|$ | $\begin{array}{rr} \hline \mathrm{h} \cdot \mathrm{~m} . \\ 5 & 1 \\ 5 \\ 3 \\ 3 \end{array}$ | $\begin{array}{\|r\|} \hline \text { h. } \mathrm{m} . \\ 7 \\ \hline 24 \\ 22 \\ 21 \\ 20 \\ 20 \end{array}$ | $\begin{array}{ll} \hline \text { h. } & \\ 5 & 5 \\ 5 & 5 \\ & 5 \end{array}$ | Deg. Min. <br> 17 10 <br> 13 58 <br> 16 35 <br> 16 17 | $\begin{array}{ll} \mathrm{h} . & \mathrm{m} . \\ 2 & 15 \\ 3 & 23 \\ 4 & 25 \\ 5 & 24 \end{array}$ | Severe and ciear. <br> Purification of B. V. M. <br> Fine and agreenble days |
| $10$ | A. Mon. Tues. Wed. Thu. Fri. Sat. | $\begin{array}{r} 722 \\ 20 \\ 19 \\ 18 \\ 17 \\ 16 \\ 14 \end{array}$ | 5 5 7 7 9 11 13 14 16 | $\begin{array}{rr} 719 \\ 17 \\ 16 \\ 14 \\ 13 \\ 12 \\ 11 \end{array}$ |  <br> 5 <br> 7 <br> 9 <br> 9 <br> 11 <br> 13 <br> 14 <br> 16 | $\begin{array}{cc}15 & 59 \\ 15 & 41 \\ 15 & 22 \\ 15 & 4 \\ 14 & 44 \\ 14 & 45 \\ 14 & 25\end{array}$ | $\begin{array}{rr} 6 & 10 \\ \text { Rises. } \\ 6 & 28 \\ 7 & 7 \\ 9 & 8 \\ 10 & 8 \\ 10 & 19 \\ 11 & 34 \end{array}$ | Septuagesima Sunday. <br> The wind if South or South West will bring snow. Look out for a considerable fall. If North or Nozth-East very hard frost. |
| $\begin{aligned} & 13 \\ & 14 \\ & 15 \\ & 16 \\ & 17 \\ & 18 \end{aligned}$ | A. Mon. Tues. Wed. Thu. Fri. Sat. | 713 11 10 | $\begin{array}{r} 517 \\ 18 \\ 19 \\ 20 \\ 22 \\ 24 \\ 25 \end{array}$ | $\begin{array}{r} 79 \\ 7 \\ 6 \\ 4 \\ 4 \\ 2 \\ 1 \\ 600 \end{array}$ | 517 18 19 20 22 24 25 | $\begin{array}{ll} 13 & 46 \\ 13 & 26 \\ 13 & 5 \\ 12 & 45 \\ 12 & 26 \\ 12 & 4 \\ 11 & 42 \end{array}$ | Morn.  <br> 0 48 <br> 1 57 <br> 2 55 <br> 3 54 <br> 4 42 <br> 5 18 | Sexagesima Sunday. Fine winter day. <br> St. Valentine Diy. <br> Busy at the Post Office <br> whether rain or shiue. <br> But about this time there will be snow. |
| ${ }_{90}^{19}$ | A.... Mon. Tues. Wed. Thu, Pri. Sat. | 78 <br> 7 <br> 1 <br> 00 <br> 659 <br> 57 <br> 56 <br> 54 | $\begin{array}{r} 527 \\ 28 \\ 30 \\ 32 \\ 34 \\ 35 \\ 37 \end{array}$ | $\begin{array}{r} 659 \\ 57 \\ 55 \\ 52 \\ 50 \\ 49 \\ 47 \end{array}$ | 527 28 30 31 33 34 35 | 11 21 <br> 11 0 <br> 10 38 <br> 10 18 <br> 9 16 <br> 9 32 <br> 9 10 <br> 9 10 | $\begin{array}{cc} 5 & 47 \\ 6 & 12 \\ \text { Sets. } \\ 6 & 52 \\ 7 & 50 \\ 8 & 51 \\ 9 & 58 \end{array}$ | Quinquagesima <br> Unsteady weathe <br> Shrove Tuesday. <br> Ash Weduesday. <br> Pleasant day. <br> St, Matthias: <br> Fair and mild. |
| $\begin{aligned} & 26 \\ & 27 \\ & 28 \\ & 29 \end{aligned}$ |  | 652 49 48 47 | $\begin{array}{r} 738 \\ 39 \\ 40 \\ 41 \end{array}$ | $\begin{array}{r} 646 \\ 46 \\ 45 \\ 44 \end{array}$ | 537 538 39 30 | $\begin{array}{lll}8 & 48 \\ 8 & 55 \\ 8 & 3 \\ 7 & 40\end{array}$ | $\begin{array}{cc} 10 & 57 \\ \text { Morn. } \\ 0 & 1 \\ 1 & 7 \end{array}$ | 1 st Sunday in Lent. The month ends somewhat cloudy but on thewhole pleasant. |

February.-The subject of saving manure should be given place and prominence in our agricultural journals. To turn, as far as'possible, every resource to economical account, is a secret of success in the business of farming, as in every other. It should be, indeed, as a good farmer once remarked, "a prominent part of the farm-work, to manufacture as much manure thereon as possible." It should be a subject of carefal study, to so apply the manurial resources, and so vary the course of cropping, as to give every field its due share ; that thus the whole farm may become alike fertile and productive, and alike pay a fair profit to the owner.

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3rd Month. MAEECRI日, B1 Days. Begins on Thursday.

| Moon's Phases. |  | Montreal. | Kingston. | Toronto. | London. | Sun on Meridian. |  |  |
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|  | d. | h, m. | h. m. | h.m. | h.m. | d. |  |  |
| ${ }_{\text {Ful }}$ Last Quarter.... |  | 750 mo . | 738 mo . | 727 mo , | 719 mo | 1 |  | ${ }_{10}^{12} \quad 27$ |
| New Moon,...... | 2.2 | 91 mo . | 849 mo . | ${ }_{8}^{8} 38 \mathrm{mo}$. | 830 mo . | 17 |  | 819 |
| First Quarter,... | 30 | 159 mo . | 147 mo . | 135 mo . | 127 mo . | 25 | 12 | $5 \quad 54$ |



March.-It is a conceded fact, "thas: farming, as it is too often practised, does not pay as it once did. But there are good reasons for this diminution of profits. Land cen be worn out; and unless care be taken to restore again what is taken in cropping, it will wear out. The cultivation of land exhausted by long tillage, is both unpleasant and unpro-fitable-enough to discourage the most shiftless and unenergetic. The sooner they quit their system or their farms the better off they will find themselves; for such farming, or any otber busipess conducted on such principles, can never pay, either in pleasure or in profit. Nature is bountiful, but demands human exertion.

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4th Montr. APPIEILL, 80 Days. Begins on Sunday.

| Moon's Phases. | Montreal. | Kingston. | Toronto. | London. | Sun on Meridian |  |  |
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| Full Moon, ...... ${ }_{\text {d }}$ d, | ${ }_{5}^{\text {h. }} \mathrm{m}$. $\mathrm{m}_{\text {ck }}$ | h. m. ${ }_{4}$ | ${ }_{4}^{\text {h. }} \mathrm{m}$. ${ }^{\text {ev }}$. | ${ }_{4}^{\text {h. m. m. }}$. | ${ }_{1} 1$ | ${ }_{12}{ }_{12} \mathrm{~m}_{8}$ |  |
| Last Quarter,... ${ }^{12}$ | 840 ev . | 828 et. | 817 evt | 898 ev. | ${ }^{9}$ | 12. |  |
| New Moon,....... 21 | 050 mo . | 039 mo . | 027 mo . | 019 mo . | 17 | 1159 |  |
| First Quarter,. 28 | 942 mo . | 930 mo . | 919 mo . | 911 mo . | 25 | $11 \quad 57$ |  |


| DAYS. |  | Montreal. |  | Toronto. |  | Sun's Declinät: | The Moon. | Calendar, Aspeots, \&c. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M, | Week. | Sun Rises. | $\begin{array}{\|l} \text { Sun } \\ \text { Sets. } \end{array}$ | Sun. Rises. | $\begin{aligned} & \text { Sun } \\ & \text { Sets. } \end{aligned}$ | North. | R. \& 8. |  |
| $\begin{aligned} & 1 \\ & 2 \\ & 8 \\ & 4 \\ & 4 \\ & 5 \\ & 6 \\ & 7 \end{aligned}$ |  | h. m. | h. m. | h. m. | h. m. | Deg. Min. | h. m. |  |
|  | G. | 546 | 622 | 547 | 621 | 4 <br> 4 | $\begin{array}{ll}3 & 13 \\ 3 & \end{array}$ | 1st Sun. before Easter, and |
|  | Mon. | 44 | 23 | 40 | 22 | 512 | 3 | All foots days, so called. |
|  | Tues. | 43 | 24 | 44 | 23 | 535 | 411 | This quarter of the Moon |
|  | Wed. | 41 | 27 | 42 | 25 | 588 | 4.37 | will be fair and fine. |
|  | Thu. | 39 | 27 | 40 | 27 | 621 | Rises, | Some frost by night. |
|  | Pri | 87 | 29 | 38 | 28 | 643 | 789 | Good Priday. |
|  | Sat, | 35 | 30 | 36 | 29 |  | $9 \quad 17$ | Very pleasant |
| 1011121814 | G. | 533 | 631 | 5 36 | 631 | 728 | $10 \quad 30$ | Easter Sunday. |
|  | Mon. | 32 | 32 | 85 | 32 | 750 | $\begin{array}{lll}11 & 36\end{array}$ | Easter Monday. |
|  | Tues. | 30 | 33 | 33 | 33 | 812 | Morn. | Easter Tuestlay. |
|  | Wed. | 88 | 34 | 31 | 34 | 834 | ${ }^{31}$ | Fine weather if wind be |
|  | Thu. | 26 | 36 | 28 | 35 | 856 | 115 | North, buit if South-westerly |
|  | Fri. | 24 | 37 | 26 | 36 | 918 | 151 | look for rain and dull |
|  | Sat. | 22 | 38 | 24 | 37 | 940 | 218 | weather. |
| $\begin{aligned} & 7 \ddot{15} \\ & 16 \\ & 17 \\ & 18 \\ & 19 \\ & 20 \\ & 21 \end{aligned}$ | G. | 520 | 640 | 523 | 639 | $10 \quad 1$ | 241 | ist Sun.afte |
|  | Mon. | 18 | 42 | 21 | 40 | $10 \quad 22$ | $3 \quad 3$ |  |
|  | Tues. | 17 | 43 | 20 | 41 | $10 \quad 43$ | 322 | I am of opinion that this |
|  | Wed. | 15 | 44 | 18 | 42 | 11.4 | $3 \quad 43$ | week will be on the whole a |
|  | Thu. | 13 | 45 | 16 | 43 | 1125 | 43 | very fine and agreeable week |
|  | Fri. | 11 | 47 | 14 | - 44 | 1145 | 4.24 | Encouraging signsiof spring. |
|  | Sat. | 10 | 48 | 13 | 45 | - 12 | Sets. |  |
| 22232425262728 | G. | 58 | 649 | 511 | 646 | 1226 | $8 \quad 50$ | 2nd Sun, after East |
|  | Mon. |  | 50 | 9 | 47 | 1246 | 955 | St. Grorge's Day |
|  | Tues. | 5 | 51 | 8 | 48 | $13 \quad 6$ | $10 \quad 56$ | Raw and cold, be sure and |
|  | Wed. | 3 | 53 | 7 | 49 | $13 \quad 25$ | $11 \quad 50$ | St. Mark. |
|  | Thu. | - 2 | 55 | 5 | 51 | $13 \quad 44$ | Morn. | keep your feet dry. |
|  | Fri. | 50 | 57 | 4 | 52 | $14 \quad 3$ | 35 | Snow disappears greatly. |
|  | Sat. | 458 | 58 | 2 | 53 | 14.22 | 113 |  |
| 2980 | M. ${ }_{\text {Mon. }}^{\text {a }}$ | $\begin{array}{r}456 \\ \hline 55\end{array}$ | 789 | 51 | $654$ | $\begin{array}{ll} 144 \\ 14 & 41 \end{array}$ | $\begin{array}{lll} \hdashline 1 & \\ 9 & 15 \end{array}$ | 3rd Sutiday after Easter. |
|  |  |  |  |  |  |  |  | th ends smiling. |

April.-Examples of the wonderful difference between good and bad farming are to be seen in every part of the country; and it is surprising that those who are going down hill in their circumstances, or are just keeping their heads above water, should not easily find out the cause. What is the condition of your fences? Have the weeds been carefully eradicated from your fields? What is the state of your farm-buildings and barn-yards? What care do you take of your cattle in winter? What effort have you made in preserving, manufacturing, and using manure? These are not impertinent questions. The answer to them will tell the story of success or failure in farming.
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5th Month.
MAY, E1 Days.
Begins on Tuesday.


| Days. |  | Montreal. |  | Toronto. |  | Sun's Declinat. <br> North. | Thè <br> Moon. <br> R. \& $\$$. | Calendar, Aspects, \&c. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | Week. | Sun Rises. | Sun Sets. | Sun Rises. | Sun <br> Sets. |  |  |  |
|  |  | h. m. | ${ }_{7} \mathrm{~h} . \mathrm{m}$. | h. m. | h. m. | Dec. Min. | h. m. | St. Philip and St. James. |
|  | Wed. | $\begin{array}{r}454 \\ 53 \\ \hline\end{array}$ |  | $\begin{array}{r}458 \\ 57 \\ \hline\end{array}$ | 656 | $\begin{array}{ll}15 & 17 \\ 15 & 35\end{array}$ | 238 | The weather will be some- |
| 3 | Thu. | 51 | 3 | 55 | 59 | 150 | 3 3 28 | what changeable in the be- |
| 4 | Fri. | 50 | 4 | 54 | 700 | $16 \quad 10$ | 3.59 | ginting of this mouth, but |
| 5 | Sat. | 49 | 5 | 53 | - | $16 \quad 27$ | Rises. | on the whole fine. |
| 6 | G. | 447 | 77 | 451 | 72 | 1644 | 9816 | $4 t h$ Sunday after Easter. |
| 7 | Mon. | 45 | - | 49 | - | $17 \quad 00$ | $10 \quad 17$ | Fine weather yet. |
| 8 | Tues. | 43 | 9 | 48 | 4 | $\begin{array}{ll}17 & 17\end{array}$ | 117 | Threatens rain. |
| 9 | Wed. | 41 | 10 | 47 | 5 | $\begin{array}{ll}37 & 32\end{array}$ | $11 \quad 47$ | Unsteady weather. |
| 10 | Thu. | 40 | 11 | 46 | 6 | 1748 | moon. | Probably fair. |
| 11 | Fri. | 39 | 12 | 45 | 7 | $18 \quad 3$ | - 19 | The spring has opened |
| 12 | Sat. | 37 | 13 | 44 | 8 | IS 18 | 44 | cheerfully. Pleasant. |
| 13 | G. | 436 | 715 | 442 | 710 | $18 \quad 33$ |  | Sth Sundaul after Easter. |
| 14 | Mon. | 34 | 16 | 41 | 12 | 1848 | 126 | Between last Quarter and |
| 15 | Tues. | 33 | 17 | 40 | 12 | $19 \quad 2$ | 147 | New Moon there will be rain. |
| 16 | Wed. | 33 | 18 | 39 | 13 | 1916 | $2 \quad 5$ | and in |
| 17 | This. | 31 | 19 | 38 | 14 | 1929 | 228 | Ascension Day. |
| 18 | Fri. | 30 | 20 | 87 | 15 | 1942 | 251 | somo parts of Canada a good |
| 19 | Sat. | 29 | 21 | 36 | 16 | $19 \quad 55$ | $3 \quad 21$ | deal of it. |
| 20 | G. | 428 | 722 | 435 | 717 |  | Sets. |  |
| 21 | Mon. | 27 | 23 | 34 | 19 | $20 \quad 20$ | 848 | Canuot promise a change |
| 22 | Tugs. | 27 | 24 | 33 | 2i) | $20 \quad 31$ | 945 | for settled fair weathert |
| 23 | Wed. | 26 | 25 | 32 | 21 | $20 \quad 43$ | $10 \quad 33$ | [ria. b. 1819. |
| 24 | Tht. | 25 | 27 | 31 | 2 2 | $20 \quad 54$ | $11 \quad 14$ | Birth dny of Qumen Victo- |
| 25 | Fri. | 21 | 28 | 31 | 23 | 214 | 1148 | Chilly nights throughout- |
| 26 | Sat. | 23 | 29 | 30 | 24 | $21 \quad 15$ | Morn. | the country. |
| 27 | G. | 422 | 30 | 429 | 725 |  | 16 | Whit Sunday. |
| 28 | Mon. | 21 | 31 | 28 | 25 | $21 \quad 34$ | 41 | Whit Morday. |
| 29 | Tues. | 21 | 32 | 28 | 25 | $21 \quad 44$ | 15 | Whit Tuesday. |
| 30 | Wedae | 20 | 33 | 27 | 26 | 2159 | 130 | May ends very finely. |
| 31 | Thu. | 20 | 34 | 27 | 27 | $22 \quad 1$ | 156 | Prospects good. |

May.-One of the greatest mistakes which young farmers make in this country, in their anxious wish for large possessions, is not only in purchasing more land than they can pay for, but in the actual expenditure of all their means, without leaving any even to begin the great work of farming. Hence the farm continues for a long series of years poorly provided with stock, with implements, with manure, and with the necessary labour. Debts are contracted, which are not ensily paid, for profits are small. Discouragement follows, and with it that want of energy and enterprise which are essential to success. Therefore, buy no more land than you cān pay for, without detracting from other claims.

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6th Month.
JUNE, 30 Days.
Begins on Priday.


Juns.-Do everything at the right season. The importance of this is thus illustrated :-Two farmers had each a crop of rutabagas, of an acre each. The first, by looeing his crop early, accomplished the task with two days work, and the young plants then grew vigorously, and yielded a heavy return. The second, being prevented by deficiency of help, had to defer his hoeing one week, and then through rain three days more-making ten days. During this time the weeds had sprung up six or ten inches high. No less than six days were required to hoe them; and, so much was the growth of the crop checked, that the owner had 150 bushels less on his acre than the farmer who took time by the forelock and hoed early.

| $1860 . \mathrm{J}$ |
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Pth Montr. BUEY, 31 Days. Begins on Sunday.

| Moon's Phases. |  | Montreal. | Kingston. | Toronto. | London. | Sun ou Meridian. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | d. | Th. m. | I. m. | h. m. | h. m. | d. | h. | m. 8 . |
| Full Mooin,...... | 2 | 1113 ev. | 1111 et . | 1049 ev . |  | 1 | 12 | $\begin{array}{ll}3 & 35 \\ 4 & 56\end{array}$ |
| Last Quarter,... | 11 | $\begin{array}{ll}1 & 4 \\ 4 & \mathrm{mo}\end{array}$ | 052 mo | 041 mo . | 033 mo | 9 | 12 | 4 5 5 51 |
| New Moon,...... | 18 | 9 26 mo | 914 mo . | 988 mo . | 855 mo . | 17 | 12 | $\begin{array}{ll}5 & 51 \\ 6 & 13\end{array}$ |
| First Quarter,... | 25 | 046 mo . | 034 mo . | ${ }^{0} 23 \mathrm{mo}$. | 025 mo . | 25 | 12 | 013 |


|  | Ays. | Montreal. |  | Toronto. |  | Sun's Declinat. | The Moon. | Oalendar, Aspects, *c. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M. | Week. | Sun Rises. | $\begin{aligned} & \text { Sun } \\ & \text { Sets. } \end{aligned}$ | Sun Rises, | Sun Sets, | North. | R. \& S. |  |
| 1 | G. | h. m. | h. m. | ${ }_{4}^{\text {h. m }}$. | $\begin{aligned} & \text { h. } 1 \mathrm{~m} . \\ & 739 \end{aligned}$ | Deg. Min. | $\underset{2}{\text { h. }} \frac{1}{3} .$ | 4th Sunday after Trinity. |
| 2 | Mon. | 21 | 46 | 88 | - 39 | 230 | Rises. | July opens with strong |
| 3 | Ttues. | 22 | 46 | 29 | 39 | 2255 | 817 | heat, but on the whole the |
| 4 | Wed. | 23 | 45 | 30 | 38 | 2.350 | 843 | moon's quarter will be fair, |
| 5 | Thu. | 23 | 45 | 30 | 38 | 2244 | 912 | and no doubt need be felt |
| 6 | Fri | 24 | 44 | 31 | 88 | 2238 | 933 | about the crops. They are |
| 7 | Sat. | 25 | 4. | 32 | 38 | $22 \quad 31$ | 954 | very encouraging. But be- |
| 8 | G. | 426 | 744 | 433 | 737 | $22 \quad 25$ | 1012 | 5th Sunday after Trinity. |
| 9 | Mon. | 27 | 44 | 34 | 36 | ${ }_{22}^{22} 17$ | 1032 | fore the New Moon there |
| 10 | Tues. | 28 | 43 | 34 | 36 | 2210 | 1054 | will be rain, thunder and |
| 11 | Wed. | 28 | 43 | 34 | 36 | 22 | $\begin{array}{ll}11 & 19 \\ 11\end{array}$ | lightening, gusts of wind, |
| 12 | Thu. | 29 | 42 | 34 | 35 | $21 \quad 53$ | 1149 | and showers of rain. |
| 13 | Fri. | 30 | 41 | 35 | 34 | 2185 | Morn. |  |
| 14 | Sat. | 31 | 41 | 36 | 34 | 2135 | 626 |  |
| 15 | G. | 432 | 741 | 437 | 33 | $21 \quad 26$ | 112 | Bith Sunday after Trinity. |
| 16 | Mon | 33 | 40 | 38 | 32 | $21 \quad 16$ | ${ }_{2}^{2} 10$ | A changeable and unset- |
| 17 | Tues. | 33 | 39 | 89 | 32 | 21.6 | 318 | tled week. Heat prevails- |
| 18 | Wed. | 34 | 38 | 40 | 31 | $20) 55$ | Sets. | some rain descends. |
| 19 | Thu. | 35 | 37 | 41 | 30 | $20 \quad 44$ | 819 | Make hay while you may, |
| 20 | Fri. | 35 | 36 | 42 | 29 | $20 \quad 33$ | 848 | Work and you shall have |
| 21 | Sat. | 36 | 35 | 43 | 29 | $20 \quad 21$ | 914 | your pay. |
| 22 | G. | 437 | 734 | 444 | 728 | $20 \quad 9$ | 938 | 7th Sunday after Trinity. |
| 23 | Mon. | 38 | 33 | 45 | 27 | $19 \quad 57$ | 104 | After New Moon aud |
| 24 | Tues. | 30 | 32 | 46 | 26 | 19 44 | 1033 | throughout the first quarter, |
| 25 | Wed. | 40 | 31 | 47 | 25 | 19 31 | 118 | St. James. |
| 26 | Thu. | 41 | 30 | 47 | 24 | 1918 | 1134 | the weather will be variable. |
| 27 | Fri. | 42 | 30 | 49 | 23 | 19 4 | Morn. |  |
| 28 | Sat. | 43 | 28 | 49 | 22 | $18 \quad 50$ | 033 | Hot and dusty. |
| 29 | G. | 444 | 727 | 450 | 721 | 1836 | 129 | 8th Sunday after Trinity. |
| 30 | Mon. | 46 | 26 | 51 | 21 | 1821 | 232 | Hot and sultry. |
| 31 | Tues. | 47 | 25 | 52 | 20 | 187 | 339 | Some rolling thunder. |

July.-Heavy soils are much improved by draining; open drains to carry off the surface water, and, covered drains, the water which settles beneath. A farmer covered a low, wet, clayey ficld with a net-work of under-drains ; and, from a production of almost nothing but grass, it yielded the first year forty bushels of wheat per acre-enough to pay the expense ; and the land was tilled more easily and cheaply afterwards. Heavy soils are also made lighter and freer by manuring; by plowing under coatings of straw, rotten chip, and swamp-muck. Subsoil plowing is also very beneficial, and may be repeated to great adrautage, as the sub-soil gradually settles again.

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8th Month. AUGUST, 31 Days. Begins on Wednesday.


| DAY8. |  | Montreal. |  | Toronto. |  | Sun's Declinat. | The Moon | Calendar, Aspects, \&c. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{M}_{2}$ | Week. | Sun Rises. | Sun <br> Sets. | Sun Rises. | Sun <br> Sets. | North. | R. \& S. |  |
|  |  | h. m . | h. m. | h. m. | h. m. | Deg. Min. | $\mathrm{h}_{\text {hises }} \mathrm{m}$, |  |
| 1 | Thu. | 448 50 | $\begin{array}{r}724 \\ 22 \\ \\ \hline\end{array}$ | 454 | 718 17 | $\begin{array}{ll}17 & 51 \\ 17 & 36\end{array}$ | Risese <br> 7 <br> 7 <br> 88 | August enters gloomil Clouds and rain. |
| 3 | Fri. | 51 | 21 | 56 | 16 | 1720 | 758 | Unsettled for some days. |
| 4 | Sat. | 52 | 20 | 57 | 15 | 174 | 817 | Heat and thunder. |
| $\ddot{5}$ | G. | 453 | 719 | 58 | 714 | 1648 | 837 | 9th Sunday afier Trinity. |
| 6 | Mon. | 55 | 17 | 59 | - 13 | 1631 | $8 \quad 57$ | More settled, and the pros- |
|  | Tues. | 56 | 16 | 50 | 12 | 1615 | 921 | pects for harvesting are |
| 8 | Wed. | 57 | 14 | 1 | 10 | $15 \quad 57$ | 947 | far better than on the |
|  | Thu. | 58 | 12 | 2 | 8 | 1540 | $10 \quad 20$ | first. Fair and fine. No |
| 10 | Fri. | 59 | 11 | 3 | - | $15 \quad 23$ | $11 \quad 2$ | reason for complaint. |
| 11 | Sat. | 51 | , | 5 | 6 | 155 | 1153 |  |
| 12 | G. | 52 | 78 | 56 | 74 | 14.47 | Morn. | 19th S undayafter Trinity. |
| 13 | Mon. |  |  | 7 | 3 | 1428 |  | This week will be agreeable |
| 14 | Tues. | 4 | 5 | 8 | 1 | + 10 | 25 | and fine. |
| 15 | Wed. | 5 | 3 | 9 | 659 | $15 \quad 51$ | $3{ }^{3} \quad 23$ | Some heat, but not what |
| 16 | Thu. | 6 | 2 | 10 | 58 | 13 | Sets. | has been felt. |
| 17 | Fri. | 7 | 1 | 11 | 57 | 1313 | $7 \quad 13$ | Seasonable weather. |
| 18 | Sat. | 8 | 659 | 12 | 56 | $12 \quad 53$ | 740 | No rain to-day, |
| 19 | G. | 59 | 657 | 513 | 654 | 1234 | 86 | 11th Sunday after Trinity. |
| 27 | Mon. | 11 | 55 | 14 | 52 | 1214 | 834 | I fear the rain this week |
| 01 | Tues. | 12 | 54 | 16 | 50 | $11 \quad 54$ | 96 | will spoil the prospects |
| 22 | Wed. | 13 | 52 | 17 | 49 | 1133 | 944 | of a few grain fields. But |
| 23 | Thu. | 14 | 50 | 18 | 47 | 1113 | $\begin{array}{ll}10 & 31\end{array}$ | it will not be of long cou- |
| 24 | Fri. | 16 | 48 | 19 | 46 | $10 \quad 52$ | 1125 | St. Bartholomew. |
| 25 | Sat. | 18 | 46 | 20 | 44 | 1032 | Morn. | tinuance. |
| $\dddot{26}$ | G. | 519 | 645 | 521 | 643 | 1011 | 25 | 12th Sunday after Trinity. |
| 27 | Mon. | 20 | 43 | 22 | 40 | 950 | 129 |  |
| 28 | Tues. | 21 | 41 | 24 | 38 | 928 | 235 | St. Augustine. |
| 29 | Wed. | 22 | 40 | 25 | 37 | 97 | 340 | Some showers. |
| 30 | Thu. | 23 | 38 | 26 | 36 | 846 | 4.43 | But the month ends agree- |
| 31 | Fri. | 24 | 36 | 27 | 34 | 826 | Rises. | ably. |

AUgust.-The following is worth knowing, and may be relied on as correct, respecting the relative value of different kinds of straw, which is determined by the quantity of nitrogen they contain. Barley straw is the poorest of all; oat and rye straw are about one-third better. Wheat straw is nearly double in value to barley; buckwheat is rather better than wheat; meadow hay and corn-stalks are better than any of these, being five times as rich in nitrogen as barley straw. Red clover, hay and pea straw are each about eight times as rich as barley. Wher ther these substances are mixed directly with manure, or eaten first by animals, they produce their relative effects.



| Moon's Phases. |  | Montreal. | Kingston. | Toronto. | London. | sun on Meridian. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Last | d. | h. m. | h. m. | h. m. | h. m. | d. |  |  |  |
| New Moon | 8 | 618 mo . | 61 mo | 550 mb . |  | 1 |  |  |  |
| FirstQuarter,... | 15 | ${ }_{6} 1515 \mathrm{mov}$. | 133 mo , | 052 mo . | 0 \% mo. | 17 |  | 57 |  |
| Full Moon, ...... | 29 | 843 ev . | 834 ev . | 822 ev . | 814 ev . | 25 |  | 51 |  |


| Days. |  | Montreal. |  | Toronto. |  | Sun's Declinat. | The Moon. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | eek. | Sun <br> Rises. | Sun <br> Sets. | $\begin{gathered} \text { Sun } \\ \text { Rises. } \end{gathered}$ | $\begin{array}{\|c} \text { Sun } \\ \text { Sets. } \end{array}$ | North. | R. \& S. |  |
| 1 | t. | $\begin{aligned} & \text { h. m. } \\ & 5.26 \end{aligned}$ | $\begin{aligned} & \mathrm{h} \quad \mathrm{~m} \\ & 634 \end{aligned}$ | $\begin{aligned} & \text { h. m } \\ & 5 \cdot 28 \end{aligned}$ | $\begin{aligned} & \mathrm{h} . \mathrm{m} \\ & 632 \end{aligned}$ | $\operatorname{Deg.~}_{8} .$ | $\begin{array}{r} \mathrm{h} . \mathrm{m}_{6} . \end{array}$ | Very |
| 2 3 4 5 6 7 7 8 | G. <br> 3on. <br> Tues. <br> Thu. <br> Fri. <br> Sat. | $\begin{array}{r} 529 \\ 29 \\ 30 \\ 31 \\ 32 \\ 33 \\ 35 \end{array}$ | $\begin{array}{r} 632 \\ 30 \\ 28 \\ 26 \\ 24 \\ 23 \\ 23 \\ 21 \end{array}$ | $\begin{array}{r} 530 \\ 31 \\ 32 \\ 33 \\ 34 \\ 35 \\ 36 \end{array}$ | $\begin{array}{r} 629 \\ 28 \\ 26 \\ 25 \\ 23 \\ 23 \\ 21 \\ 20 \end{array}$ | $\begin{array}{rrr} 7 & 40 \\ .7 & 18 \\ 6 & 56 \\ 6 & 34 \\ 6 & 11 \\ 5 & 49 \\ 5 & 20 \end{array}$ | $\begin{array}{rrr} 7 & 4 \\ 7 & 24 \\ 7 & 20 \\ 8 & 51 \\ 8 & 21 \\ 9 & 58 \\ 9 & 43 \\ 10 & 39 \end{array}$ | iзith Sundayafter Trisity. Good weather continues and most of this week is pleasant. <br> Toward the end and through the moon's last quarter disposed to rain. |
| 10 11 12 13 14 15 | $\begin{aligned} & \text { G, } \\ & \text { Mon. } \\ & \text { Tues. } \\ & \text { Tued. } \\ & \text { Whu. } \\ & \text { Tri. } \\ & \text { Sat. } \end{aligned}$ | $\begin{array}{r} 536 \\ 37 \\ 39 \\ 40 \\ 49 \\ 43 \end{array}$ | 619 17 16 14 12 10 | $\begin{array}{r} 537 \\ 33 \\ 39 \\ 40 \\ 41 \\ 42 \\ 43 \\ 43 \end{array}$ | $\begin{array}{r} 618 \\ 16 \\ 15 \\ 13 \\ 11 \\ 9 \\ 8 \end{array}$ | 5 3 <br> 5 41 <br> 4 41 <br> 4 18 <br> 3 55 <br> 3 32 <br> 3 9 <br> 2 45 |  | i4th Sunday after Trinity, <br> This week very unsettled. <br> A good deal of wind and rain. <br> The leaves are changing colour, but there will be no night frost of severity. |
| $\begin{aligned} & 17 \\ & 18 \\ & 19 \\ & 20 \\ & 21 \\ & 22 \end{aligned}$ | $\begin{aligned} & \text { G. } \\ & \text { Mon. } \\ & \text { Tues. } \\ & \text { Wed. } \\ & \text { Thu. } \\ & \text { Fri. } \\ & \text { Sat. } \end{aligned}$ | -45 46 48 49 50 51 52 | $\begin{array}{rrr} 6 & 6 \\ & 4 \\ & 4 \\ 6 & 2 \\ 6 & 0 \\ 5 & 53 \\ & 56 \\ & 56 \end{array}$ | $\begin{array}{r} 545 \\ 46 \\ 47 \\ 48 \\ 49 \\ 50 \\ 52 \end{array}$ | $\left\|\begin{array}{r} 5 \\ 5 \\ 56 \\ 56 \\ 54 \end{array}\right\|$ | $\begin{array}{cc} 2 & 22 \\ 1 & 59 \\ 1 & 36 \\ 1 & 12 \\ 0 & 12 \\ 0 & 29 \\ 0 & 26 \end{array}$ | $\begin{array}{rrr} 6 & 33 \\ 7 & 4 \\ 7 & 41 \\ 8 & 26 \\ 9 & 16 \\ 10 & 18 \\ 11 & 20 \end{array}$ | isth Sunday after Trinity. Weather fnir an. fine. Again changeable. Nut disazreeable. Rather pleasant. St. Mathew. <br> Rain and wind. |
| $\begin{aligned} & 23 \\ & 24 \\ & 25 \\ & 26 \\ & 27 \\ & 28 \\ & 29 \end{aligned}$ | $\begin{aligned} & \text { G. } \\ & \text { Mon. } \\ & \text { Tues. } \\ & \text { Wed. } \\ & \text { Thu. } \\ & \text { Pri. } \end{aligned}$ | $\begin{array}{r} 554 \\ 56 \\ 56 \\ 57 \\ 59 \\ 600 \\ 1 \end{array}$ | $\begin{array}{r} 554 \\ 52 \\ 50 \\ 48 \\ 46 \\ 44 \\ 42 \end{array}$ | $\begin{array}{r} 552 \\ 53 \\ 54 \\ 55 \\ 57 \\ 59 \\ 800 \end{array}$ | $\begin{array}{r} 552 \\ 50 \\ 49 \\ 47 \\ 45 \\ 43 \\ 40 \end{array}$ | $\begin{array}{cc} \text { South. } \\ 0 & 44 \\ 1 & 7 \\ 1 & 30 \\ 1 & 54 \\ 2 & 17 \\ 2 & 40 \end{array}$ | $\left\lvert\, \begin{gathered} \text { Morn. } \\ 1 \\ 1 \\ 1 \\ 2 \\ 2 \\ 3 \\ 3 \\ 3 \\ 4 \\ 4 \\ \text { Rises } \end{gathered}\right.$ | ítil Sunday after Trinity. Settled and fine. <br> If wind be South or S. W. there will be rain toward the end of the monthe and by the moon's full. <br> St. Michael and all Angels. |
| 30 | G. | 62 | 540 | 61 | 539 | 254 | 530 | ï̈th Sunday after Trinity. |

September.-A bit of good advice is here :-To prevent confusion and embarrassment, and keep all things clearly and plainly before the farmer at the right time, hee should cacry a small book in his pocket, having every item of work for each week or each half-week laid downis before his eyes. Any proposed improvements can be noted down on the right page. Interesting experiments, suggested in the course of reating and observation, may be thus noted down in their proper places, according to time and season, and then brought to trial. Much confusion and delay will thus be prevented, and the work of the farm proceed with regularity and satisfaction.
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## 10th Month. (DC'TEBIETE, 31 Days: Begins on Monday.

| Moon's Phases. | Montreal. | Kingston. | Toronto. | London. | Sun on Meridian, |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Last Quarter,... ${ }_{\text {d }} \mathrm{d}_{7}$ | h. m. 611 ev . | ${ }_{5}^{\text {h. m. mi }}$ | h. m. ${ }_{5} \mathrm{~m}_{47 \mathrm{ev} \text {. }}$ | h. m. ${ }^{\text {m }}$, | $\mathrm{d}_{1}$ |  |
| New Moon, ...... 14 | 943 mo . | 931 mo . | 920 mo . | ${ }_{9}^{5} 12 \mathrm{mo}$. | 9 | $\begin{array}{llll}11 & 49 & 88 \\ 11 & \end{array}$ |
| First Quarter,... 21 | 916 mo . | 94 mo . | 853 mo . | 845 mo . | 17 | 1145 |
| Full Moon,...... 29 | 156 ev . | 144 ev . | 13 ev . | 124 ev . | 25 | 114 |


| DAYs. |  | Montreal. |  | Toronto. |  | Sun's Declinat. | The Moon | Calendar, Aspeets, \&c. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| . | Week. | Sun Rises. | Sun Sets. | Sun Rises. | Sun <br> Sets. | South. | R. \& S. |  |
|  |  | h. | h. | h. m. | h.m. | Deg. Min. |  |  |
|  | Mon. Tues. | 3 | 538 <br> 36 |  | $\begin{array}{r} 538 \\ 36 \end{array}$ | $\begin{array}{lll}3 & 27 \\ 3 & 50 \\ & \end{array}$ | $\begin{array}{lll}5 & 55 \\ 6 & 24\end{array}$ | October opens very plea |
|  | Wed. |  | 34 | 4 | 34 | 414 | 659 | be gathere |
|  | Thas. | 7 | 32 | 5 | 33 | 37 | 741 | ruption. |
|  | Fri. |  | 30 | 6 | 32 | , | 831 | Some rain, but |
| 6 | Sat. | 9 | 27 | 7 | 29 | 523 | 932 | not be a |
|  | G. | 611 | 525 | 8 | 527 | 46 | 1039 | 18\% ${ }^{\text {th }}$ Sun |
|  | Mon. |  |  |  | 26 | 9 | 1152 | Fair weather through the |
|  | Tues | 13 | 21 | 10 | 24 | 632 | Morn. | Moon's last quarter if the |
| 10 | Wed | 14 | 20 | 11 | 22 | 654 | 16 | wind be North or North- |
| 11 | Thu. | 15 | 19 | 12 | 20 | 717 | 221 | West. |
| 12 | Fri. | 16 | 17 | 14 | 19. | 740 | 338 | Generally plea |
| 13 | Sat. | 18 | 14 | 15 | 17 | 82 | 457 | Windy |
| 4 | G. | 620 | 512 | 616 | 515 | 25 | Sets. | 19 ¢th Sun |
| $15$ | Mon. | 21 |  | 17 | 13 |  |  | Changeable. |
| 16 | Tues. | 23 | 7 | 19 | 12 | 99 | 615 | Tendency to rain |
|  | Wed | 24 |  | 20 |  | 931 | 76 | Some fros |
| $18$ | Thu. | 25 |  | 21 |  | 953 | 86 | St. Luke. |
| 19 | Fri. | 28 |  | 22 | 6 | 1014 | 910 | Pleasant days. |
| 20 | Sat. | 28 | 1 | 24 | 5 | 1036 | 1017 | Dull |
| 21 | G. | 629 | 459 | 625 |  |  | 1124 | 20th Sund |
| 22 | Mon. | 31 |  | 27 | ${ }^{2}$ | 1118 | Morn. | You may look for |
| $23$ | Tues. | 32 | 55 | 28 | 459 | 1139 | 027 | variable, damp and not ver |
| $24$ | Wed. | 33 | 53 | 29 | 58 | 120 |  | agreeable weather |
| $25$ | Thu | 35 | 52 | 30 | 57 | 1221 | 229 | the end of this month. |
| 26 | Fri. | 36 | 50 | 31 | 56 | 1241 | 328 |  |
| 9 | Sat. | 38 | 59 | 32 | 54 | 13 | 429 |  |
|  |  | 639 | 447 | ${ }^{6} 33$ |  |  |  | $218 t$ |
|  | Mon. | 41 | 46 | 5 |  | 1342 | Rises. | and |
| 30 | Tues. | 2 | 46 | 38 | 0 |  |  | The rain is cold and the |
| $31$ | Wed | 43 | 45 | 40 | 48 | 1421 | 541 | inter approaches. |

Ocrober - There are many things essential to good farm management. Scme of the most obvious will be-capital enough to buy the farm and stock it well; to select a size compatible with these requisites ; to lay it out in the best manner; to provide it well with fences, gates, and buildings; to select the best animals and the best implements to be had at reasonable rates; to bring the soil into good condition by draining, manuring, and good culture ; to have every part under a good rotation of crops; and every operation arranged, so as the whole may be conducted without clashing and confusion. Try these methods.


## 

| Moon's Phases, |  | Montreal. | Kingston. | Toronto. | London. | Sun on Meridian. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | d. | h. m. | h. in. | h.m. | h.m. | d. | h. | m . |  |
| Last Quarter.... | 6 | 423 mo | 411 mo | 400 mo . | 352 mo | 1 |  | 43 |  |
| Ners Moon,...... | 12 | 742 ev . | 730 ev . | 719 ev . | 711 ev . | 9 |  | 44 |  |
| First Quarter,... | 20 | 359 mo . | 3.47 mo . | 335 mo . | 327 mo . | 17 |  | 45 | 16 |
| Full Moon,...... | 28 | 644 mo . | 632 mo . | 620 mo . | 612 mo . | 25 |  |  |  |


| DAYs. |  | Montreal. |  | Toronto. |  | Sun's <br> Declinat. <br> South. | The Moon. R. \& S. | Calendar, Aspects, \&c. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M. | Week. | Sun Rises. | Sun Sets. | Sun Rises. | $\begin{aligned} & \text { Sun } \\ & \text { Sets. } \end{aligned}$ |  |  |  |
|  |  | h. m. | h. m. | h. m. | h. m. | Deg. Min. | h, m. |  |
|  | Thu. | 644 46 | 444 | 641 43 | 447 45 | $\begin{array}{ll}14 & 40 \\ 14 & 59\end{array}$ | $\begin{array}{ll}6 & 29 \\ 7 & 97\end{array}$ | All Saints. |
| $8$ | $\underset{\text { Fri. }}{\text { Sat. }}$ | 46 48 | 42 40 | 43 44 | 45 | $\begin{array}{ll}14 & 59 \\ 15 & 18\end{array}$ | $\begin{array}{ll}7 & 27 \\ 8 & 32\end{array}$ | Heavy, dull an |
| 4 | G. | 649 | 39 |  | 43 |  |  | önd Su........ |
| 5 |  |  |  |  |  |  |  |  |
|  |  | 50 | 37 | 47 | 41 | 15.54 | 10 51 | e aspects of this week |
|  |  | 52 | 36 | 48 | 40 | 1612 | Morn. | are not pleasant for those |
| 8 | \% ad | 54 | 34 | 49 | 39 | 1630 | 4 | who have much out door |
| 8 | Thu. | 55 | 32 | 50 | 38 | 1647 | 116 | work. |
| 9 | Fri. | 56 | 81 | 51 | 36 | $17 \quad 4$ | 282 |  |
| 10 | Stat. | 57 | 29 | 53 | 35 | 1721 | 348 | Rain and cold. |
| 11 | G. | 658 | 428 | 054 | 434 | 1788 | 5 | z3rd Sunday after Trinity. |
| 12 | Mon. | 70 | 27 | 55 | 33 | $17 \quad 54$ | Sets. | The middie of this month |
| 13 | Tues. | 1 | 26 | 56 | 32 | 1810 | 451 | generally pleasant, yet there |
| 14 | Wed. | 3 | 25 | 58 | 31 | $18 \cdot 26$ | $5 \quad 47$ | has beent snow in Lower |
| 15 | Thu. | 5 | 24 | 700 | 30 | 1841 | $6 \quad 52$ | Canada and dull cold rair |
| 16 | Fri. | 6 | 23 | 1 | 29 | $18 \quad 56$ | $7 \quad 59$ | in Upper Canada. |
| 17 | Sat. | 7 | 22 | 2 | 28 | 1910 | 98 |  |
| 18 | G. | 78 | 421 | 73 | 427 | 1925 | $10 \quad 41$ | 24 th Sunday after Trinity. |
| 19 | Mon. | 11 | 20 | 5 | 27 | 1938 | $11 \quad 19$ | Look out for a real storm |
| 20 | Tues. | 12 | 19 | 6 | 25 | $19 \quad 52$ | Morit. | in Lower Canada. |
| 21 | Wed. | 13 | 18 | 7 | 25 | 205 | 19 | Snowy and cold. |
| 82 | Thu. | 14 | 18 | 8 | 25 | $20 \quad 18$ | 119 | St. Cecilia. |
| 23 | Fri. | 16 | 17 | 10 | 24 | $20 \quad 30$ | 2 19 | U. Canadanot unpleas |
| 24 | Sat. | 17 | 16 | 11 | 24 | 2042 | 317 | the rain falls now. |
| 25 | G. | 718 | 415 | 712 | 423 |  |  | 25th Sunday after Trinity, |
| 26 | Mon. | 19 | 15 | 13 | 22 | 215 | $5 \quad 22$ | and St. Catha |
| 27 | Tues. | 21 | 15 | 15 | 21 | $21 \quad 16$ | 6. 25 | Wind and rain. |
| 28 | Wed. | 23 | 14 | 18 | 22 | $21 \quad 27$ | Rises. | Rain and wind. |
| 29 | Thu. | 23 | 13 | 17 | 20 | 21.37 | . $5 \quad 21$ | Changeable and cold. |
| 30 | Fri. | 25 | 13 | 18 | 19 | 2146 | $6 \quad 24$ | St. Andrew's لIay. |

Novbubrb.-In all improvements and enterprises, the great truth must not be forgotten, that success is not to be expected without diligence and industry. We must sow in spring, and cultivate well in summer, if we would reap an abundant harvest in autumn. When we see young farmers commence without a strict attention to business, which they neglect for mere pleasure, we may expect to see future crops lost by careless tillage, broken fences, unhinged gates, and fields filled with weeds. Tools destroyed, property wasted, and disorder triumphant, will produce unpaid debts, duns, and sheriffs' executions. Avoid these ills by diligence and industry

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## 12th Montr. DECEM nse

| Moon's Phases. |  | Montreal. | Kingston. | Toronto. | London. | Sun on Meridian. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Last Ouart | d. | h. m. | h. m. | h. mi. | h. m. | d. | h. | m. s. |
| New Moon,...... | 12 | 1 7 7 7 | 055 ev . 7 7 48 mo. | 0 7 7 318 ev mo. | , | $\begin{aligned} & 1 \\ & 9 \end{aligned}$ |  | $\begin{array}{ll}49 & 29 \\ 58 & 52\end{array}$ |
| Pirst Quarter,... | 20 | 116 mo . | 14 mo | ${ }_{0} 52 \mathrm{mo}$. | ${ }_{0} 44$ mo. | 17 | 11 | 58 56 56 |
| Fall Moon,....... | 27 | 1023 ev . | 1011 ev . | 1000 ev . | 952 ev . | 25 | 12 | 0 41 |


| Days. | Mont | treal. | Toro | onto. | Sun's Declinat. | $\begin{aligned} & \text { The } \\ & \text { Moon. } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| m. Week. | $\begin{gathered} \text { Sun } \\ \text { Rises. } \end{gathered}$ | $\begin{aligned} & \text { Sun } \\ & \text { Sets. } \end{aligned}$ | $\begin{gathered} \text { Sun } \\ \text { Rises. } \end{gathered}$ | $\begin{aligned} & \text { Sun } \\ & \text { Sets. } \end{aligned}$ | South. | R. \& S. | Calondar, A¢pota, |

Generally pleasant. 1st Sunday in Advent. Changeable. Snow and wind. Sleighing in L. Canada. Wait for it in U. Canada. Weather now rather dis. agreeable and stormy.

2nd Sunday in Advent.
This week threatens to be windy, rainy and snowy.
Very much like winter.
Keep cattle warm and yourself too.

3 rd Sunday in Advent ${ }_{\mathrm{G}}$
days, and you will have real prost.
Be thankful for what you St. Thomas. [have and remember the poor.
ith Sunday in Advent.
Prepare to pay your debts. Christmas Day. St. Stephen.
Nt. John the Evangelist. Holy Innocents.
Forgive your enemies.

Very fine day.
December,-It has been'properly remarked, that farmers do not sufficiently sub-divide their yards in winter. Large and small animals are turned in promiscuously. The larger ones are very ferocious and domineer over their inferiors, but are careful not to provoke the wrath of their equals. Turn those together which are of similar size, and they will be more quiet all round Calves are too much neglected, and come out small and puny in spring. A goed manager will construct a spacious stable for calves in one of his sheds, moderately lighted, and free from currents of wind. Let the place be kept clean, the calves fed on* good hay, and supplied with good water, and they will present a goad and sleek a pearance in spring.
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30 Drowing
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## The eanal damily.

THEQUEEN.
Victoris, Queen of the United Kingdom of Great Britain and Ireland;
only daughter of His late Royal Highness Edward Duke of Kent ;
born the 24th May, 1819; succeeded to the Throne on the decease
of her Uncle, William IV., June 20th, 1837 ; Proclaimed June 21st, 1837 \% Crowned June 28th, 1838; Married February 10th, 1840, to Field Marshal His Royal Highness Prince Albert Angnstus Charles Emauuel, Prince of Saxe Cobourg and Gotha, Kingut of the Most Noble Order of the Garter, \&c., \&c., \&c.

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issus:
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Victoria Adelaide Mary Louisa (Princess Royal) born November 21st. 1840.

Albert Edward (Prince of Wales,) born November 9th, 1841.
Alice Maud Mary, born April 25th, 1843.
Alfred Ernest Albert, born August 6th, 1844.
Gelena Augusta Victoria, born May 25 th, 1846.
Louise Oaroline Alberta, born March 18th, 1848.
Arthur William Patrick Albert, born May 1st, 1850.
Leopold George Duncan Albert, born April 7th, 1853.
Beatrice Mary Victoria Feodore, born April 14th, 1857.

## THE QUEEN'S MOTHER.

Victoria, Duehess of Kent, daughter of Francis, Duke of Saxe Cobourg, born August 17th, 1786 ; married May 29th, 1818, to Edward, Duke of Kent, who died January 23rd, 1820. Issue-The Queen.

## THE QUEEN'S COUSINS.

George V., King of Hanover, born May 27 th, 1819.
George, Duke of Cambridge, born March 26th, 1819.
Princess Augusta, (Duchess of Mecklenberg Strelitz), born July 19th, 1822.

Mary Adelaide Wilhelmina Elizabeth; born November 27th, 1833.

## CANADA.

> THE GOVERNOR GENERAL, AIDES-DE-CAMP, \&c.

Sir Edmund Walkar Head, Bart., Governor General of British North, America, and Captain General and Governor-in-Cbief of the Provinces of Canada, New Brunswick, No7a Scotia, and the Island of Prince Edward, \&c., \&e.
R. T. Pennefather, Governor General's Secretary.

Captain Rettallack, 63rd Regiment, Military Secretary and Aide-deCamp.
Colonel Irvine, Provincial Aide-de-Camp.

## EXECUTIVE COUNCIL.

| President of theCouncil and M ter of Agriculture........... | .Hon. John Ross. |
| :---: | :---: |
| Attorney General East...... | . Hon. George E. Cartier. |
| Attorney General West. | Hon. John A. Macdonald. |
| Commissioner of Crown La | Hon. P. M. Vankoughnet. |
| Commissioner of Public Work | Hon. John Rose. |
| Speaker of Legislative Counci | Hon. N. F. Belleau. |
| Provincial Secretary. | Hon. Charles Alleyn. |
| Postmaster General. | Hon. Sydney Smith. |
| Minister of Finance | Hon. A. T. Galt. |
| Receiver Gener | Hon. George Sherwood |

## OFFICERS :

William H. Lee, Clerk of Executive Council : William A. Himsworth, Confidential Clerk; M. A. Higgins, F. Vallerand, Olivier Coté, Thomas Burns, F. H. Himsworth and Henry Alexander, Clerks; Michael Naughton, Door-keeper; James Ryan and Charles Baker, Messengers.

Indian Dhpartmgant.-R. T. Pennefather, Superintendent General of Indian Affairs ; S. Y. Chesley, Assisiant ditto ; Michael Turner, Ohief Clerk; W. R. Bartlett, Visiting Superintendent; David Thorburn, ditto; George Ironside, ditto; Froom Talfourd, ditto; Francis Assickenack, Interpreter,

Grological Survey.-Sir Wm. E. Logan, Provincial Geologist; A. Murray, Assistant ditto; T. S. Hunt, Chemist and Mineralogist ; E. Billings, Palœontologist.

## Educational Department.

Lower Canada.-Old Government House.-Hon. P. J. O. Chauveau, Superintendent; Louis Giard, Secretary ; Joseph Lenoir, French Corresponding Clerk and Librarian; Alex. de Lusignan, Clerk of Statistics and Accountant; Jacques Laparre, First Copying Clerk and Storekeeper; Jean Baptiste Lenoir, Second Copying Clerk; Hugh Murray, Assistant Clerk; Paul Blouin, Messenger.

Catholic Board of Examiners.-Rev. L. V, L. Villeneuve, Rev. A. F. Truteau, William Doran, P. P. Denis, P. Garnot ; F. X.Valade, Secretary.

Pratestant Board of Examiners.-Rev. A.F. Kemp, Rev. Dr. Wilkes, Rev. Canon Leach, D.C.L., LL.D., Rev. W. Snodgrass, Rev. J. Flannigan, W. Lunn ; A. N. Rennie, Seeretary.

Upper Canada.-For the general administration of the Grammar and Common School Laws, Rev. Egerton Ryerson, D.D., Chief Superintendent of Education; John George Hodgins, M.A., Deputy ditto; A. Marling, First Clerk and Clerk of Accounts; A. J. Williamson, Clerk of Correspondence ; F. J. Taylor, Clerk of Statistics ; H. Butterworth, Assistant ditto; S. P. May, Clerk of Libraries; T. Churchill, Depository Clerk; J. T. R. Stinson, Assistant Clerk; O. Alderson, Packer and Depositary Messenger; James Moore, Office Messenger.

PERMANENT OFFIOERS OF THE LEGISLATIVE ASSEMBLY.
Chigr Department.-Wm. B. Lindsay, Clerk; W. B. Lindsay, Jr., Clerk Assistant; Alfred Patrick, Deputy Clerk Assistant and Chief Clerk of Committees and Controverted Elections; Thomas Vaux, Accountant; Charles Langevin, Assistant ditto.
Law Clere's Departarst.-G. W. Wicksteed, Law Clerk; D. P. Myrand, Assistant French Law Clerk; F. Badgley, Assistant English Clerk.
General Dgpartmext.-W. P. Patrick, Chief Office Clerk; Henry Hartney, Assistant ditto; Wm. Spink, Clerk Routine and Records ; H. B. Stuart, English Writing Clerk; Edouard Dénéchaud, French ditto; P. Rivet, A. G. D. Taylor, H. J. McCarthy, J. F. Gingras, aad P. H. Blais, Junior Clerks.
Commitrab Dapartmbat.-Alfred Patrick, Clerk of Commitiees and Controverted Elections ; J. P. Leprohon, 1st Assistant ditto ; F. X. Blanchet, 2nd ditto.
Frivatr Bith Dapartmemt.-Alfred Todd, Chief Clerk of Private Bills and Clerk of Votes; Thaddeus Patrick, Assistant ditto, and Clerk of Railroad Committee ; W. B. Ross and Herrman Poetter, Assistants ditto.
Tramslators.-D. P. Myrand, Chief French Translator; Wm. Fanning, E. P. Dorion, A. Desilets and T. G. Courrsolles, Assistants ditto ; F. Badgley, English Translator; Wm. Wilson, Assistant ditto ; F. Hays, Extra ditto.
Jourala Dgpartmext.-G. M. Muir, English Journal Olerk; W. G. Berrage, Assistant ditto ; P. E. Gagnon, French ditto ; W. H. Lemoine, Assistant ditto.

Libraby Departigemt.-Alpheus Todd, Librarian; A. G. Lajoie, Assistant ditto ; A. Lapevière, Clerk.

Serganat-at-Arms Dipartment.-D. W. Macdonell, Sergeant-atArms ; U. C. Burrage, Deputy ditto ; A. L. Cardinal, Chief Messenger ; M. MeCarthy, O. Vincent and E. Stacy, Assistants ditto ; R. Defries, Postmaster ; Jos. Blais, Assistant ditto ; J. O'Connor, Door-keeper ; R. Bailie, Assistant ditto ; P. Laliberté, Jos. Lemonde, Edward Pelletier, William Graham, Jas. Hoy and E. Storr, Messengers.

## PERMANENT OFPICERS LEGISLATIVE COUNOIL.

John F. Taylor, Clerk of the House, Master in Chancery, and Acting Accountant.
Robert Lemoine, Deputy and Assistant Clerk, Master in Chancery, and French Translator.
Fennings Taylor, Deputy and Assistant Clerk, Master in Ohancery, and Chief Office Clerk.
Joseph E. Doucet, Additional Clerk Assistant, and Assistant French Translator.
W. Anstruther Maingy, Additional Clerk Assistant and Second Office Clerk.
James Adamson, Clerk of the English Journals.
R. G. Belleau, Clerk of the French Journals.

John McGillivray McLean, Clerk.
W. Agar Adamson, D. C. L., Chaplain and Librarian.

## PUBLIC DEPARTMENTS.

Civib Secretary's Officg.-R. T. Pennefather, Secretary ; Henry Cotton, ehief clerk; John Kidd, 2nd clerk; Philip Hill, office keeper ; George Boxall, messenger.

Provinolal Skeretary's Offick.-Hon. Charles Alleyn, Provincial Secretary; Etienne Parent, Assistant Secretary East; Edmund A. Meredith, Assistant Secretary West ; Thos. Ross, Accountant of the Contingencies and Receiver of Marriage License Fees ; S. Tetu, W. H. Jones, and G. S. Bertrand, first class clerks (east) ; J. Mackay, and H. R. Glackmeyer, second class clerks (east) ; G. Powell, H. E. Steele, and, C. J. Birch, first class clerks (west) ; J. Gow, Office-keeper ; J. Dorr and J. N. Fradet, Messengers.
Provinotal Registrar's Office.-Hon. Charles Alleyn, Provincial Registrar; William Kent; Chief Clerk; G. H. Lane, Second ditto ; Amable Bélanger, Assistant ditto ; and J. A. Bélanger, Extra ditto ; Maxime Valiquette, Messenger.
Recriver General's Office.-Hon. Geo. Sherwood, Receiver General ; T. D. Harrington, Deputy ditto ; G. C. Reiffenstein, Chief or Debenturo Clerk; T. C. Bramley and Theo. Dufort, Book-keepers ; J. B. Stanton, Warrant Clerk; Wm. Hedge, Bank Account Clerk ; J. F. Pellant, General Clerk; L. F. Dufresne, Clerk in charge of Municipal Loan Fund of Upper and Lower Canada; Chas. W. Shay, Assistant Book-keeper and General Clerk; F. Brava, Clerk in charge of Seignioral Act of 1854; F. L. Casault, Messenger ; N. Casault, Assistant ditto.

Defpartient of thic Mimister or Finance.-Hon. A. T. Galt, Minister of Finance ; Joseph Cary, Deputy Inspector General ; William Dickinson, Acting Deputy ditto ; David A. Ross, Chief Clerk ; Norris Godard, Book-keeper; John Drysdale, ditto ; Arehibald Cary, F. G. Scott, J. J. Hackett, Jos. S. Lee, John R. Nash, G. W. Cattley, G. S. Lay, Clerks; R. W. Baxter, Extra Clerk; David Ryan, House-keeper ; P. Pender, Messenger,

Auditor's Branch.-John Langton, Auditor of Public Aceounts; Thomas Cruse, Book-keeper; Thomas D. Tims, Assistant ditto ; C. Camble, Registrar of Free Banks ; Christopher Green, James Patterson, Edward C. Barber, Clerks.

Customs Department.-R. S. M. Bonchette, Commissioner; J. W. Peachy, Corresponding Clerk; J. R. Audy, Clerk of Seizures and Forms ; T. P. Roberts Statistical Clerk ; H. H. Duffil, Statistical and Canal Office Clerk; J. M. Muckle, P. E. Shepherd, Dr. L. O'Brien, Check Clerks ; O. Ross, ELztra Check Clerk ; J. Walls, Messenger.

## MILITARY.

Lieut. General Sir W. F. Williams, Bart., K.C.B., Commanding the Forces in British North America.
Major W. J. Williams, Royal Artillery, Military Secretary. Capt. O. B. B. Woolsey, Royal Artiliery, and Lieut. R. Grant, Royal Engineers, Aides-de-Camp.
Military Secretary's Department.-Major W. J. Williams, Military Seeretary ; P. Lawlor, 1st Olerk; J. R. Spong, R. G. Greig, and M. Riordan, Clerks ; R. Dalgleish, Office-keeper,

Adjutant General's Department.-Colonel the Hon. R. Rollo, Assistant Adjutant General ; Ens. C. Macdonald, Town Major; W. Wright 1st Clerk ; P. Walsh and G. Frauckum, Clerks ; J. Dillon, Town Major's Clerk; W. Rowan, Town Sergeant.

Quartrrmaster General's Department.-Colonel Napier, C.B., Deputy Quartermaster General ; N. Hughes, 1st Clerk ; E. Roe and A. Mitchell, Clerks.

Military Store Department.-Alexander Gun, Esq., Deputy Military Storekeeper; Edward Fayrer, 1st Class Clerk and Acting Barrack Master ; John Greig and Edward Willgress, 1st Class Clerks; James Duff, 2nd ditto ; James Wallace, Office-keeper.

## Head Quarters, Royal Engineers Office.

Montreal.-Commanding Royal Engineers Canada, Colonel Henry Servante; Assistant ditto, W. C. Menzies; Draftsman and Surveyor, C. Walkem; James Kerr, 1st Clerk; John Gardiner, Clerk; J. Collard, Clerk of Works ; J. Robertson, Office-keeper.

District Branch.-Major W.C. Menzies, Commanding Royal Engineers District Branch; A. Kemp, Clerk of the Works; J. Conroy, Officekeeper.

Kingston District.-Lieut. Colonel Fanshawe, Commanding Royal Engineers Kingston; W. Wheeler, 2nd class Clerk of Works; J. B. Harper, 2nd class Clerk; R. Goodfellow, Office-keeper.

Quebec District.-Colonel Hadden, Commanding Royal Engineers Quebec District; Lieuts. C. A. L. de Montmorency and J. Garnier, Royal Engineers; W.H. Head, Clerk of Works ; W. Chessell, 2nd class ditto; J. Grist, 3rd class ditto ; J. H. Oakes and G. H. Peake, 2nd class Clerks ; E. Lennon, Office-keeper.

## Commissariat Department.

Montreal.-Commissary General T. C. Weir, Controller of Army Expenditure; Assistant Com. Gen. John B. Price, Military Acconntant; Deputy Assist. Com. Gen. Turner, Store Accountant; Deputy Assist. Commissaries Gen. Irvine, Ogilvy and Cattell; Assist. Clerks, Woodley, Bell, Ballard and Palmer.

Quebec.-Assistant Com. General W. H. H. Plante; Deputy Assist. Com. Gon. Wm. Rogers; Assistant Clerk S. Dickenson.

Kingston.-Assist. Com. Genl. Cumming ; Deputy Assist Com. GenI. S. B. Brown.

Toronto.-Assist. Com. Gen. Goold; Deputy Assist. Com. Gen. Wild.
Arary Medioal Staff.-J. Clarke, Surgeon Major in charge, Montreal ; E. B. Tuson Staff Surgeon, Montreal ; W. Odell, M.D., Staff Surgeon 1st
class, Quebec ; T. Blatherwick and D. Woods, Staff Assistant Surgeons, Quebec ; J. Graves, Staff Surgeon, 2nd class; T. W. Fox and J. Jamieson, M.D., Staff'Assistant Surgeons, Kingston; Dr. Hunt, Staff Axsist. Surgeon, Toronto ; Dr. Paxton, Staff Assistant Surgeon, Red River; G. W. Mellish, Purveyor ; $\longrightarrow$, Purveyor's Clerk, 1st class; B. Abbott and Mr. Moore, Purveyor's Clerks, 2nd class, Montreal.


## COURTS OF JUSTICE.

According to the Provisions of the 20 th Vict., cap, 44.
COURT OF QUEEN'S BENCH.
Hon. Sir L. H. Lafontaine, Bart., Chief Justice,
" Thomas C. Aylwin,
"Jean F. Duval,
"Réné E. Caron,
" W. C. Meredith. PuisnéliJudges.

Officers.-John Boston, Sheriff; Joseph Jones, Coroner ; Alexander M. Delisle, Clerk of the Crown; Charles E. Schiller, Deputy Clerk of the Crown; Benjamin Delisle, High Constable; George J. Stanley, Orier ; Thomas McGinn, Gaoler.

## COURTS IN APPEAL AND ERROR.

* Montreal-1st March, 1st June, 1-t September and 1st December. Quebec-12th March, 12 th June, 12 th September and 12th December, J. U. Beaudry, Clerk of Appeals; Charles Drolet, Deputy do.

> court of criminal juribdiction.

Montreal-24th Mare and 24th September.
Quebec-24th January and 24th June.
Three Rivers-2nd February and 11th September,
Sherbrooke-12th February and 20th September.
Kamouraska-5th to 10th April and 21st to 26th October.
Aylmer-10th June and 10th December.
Terms to continue till the business is closed. Mxtraordinary terma may be held by proclamation.

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## SUPERIOR COURT.

Jurisdiction for Sums exceeding f50 Currency, $^{212}$ Vict., cap. 38, sec. 17 and 47, and 20 Víc., cap. 44, sec. 35.

## Honorable Edward Bowen, Chief Justice. judáss.

Hon. Dominique Mondelet,
" Oharles Dewey Day.
" James Smith.
" J. A. Taschereau.
" Hypolite Guy.
" William Power.
" Peter Winter.
Andrew Stuart, S. C. Monk, J. A. Berthelot.

Hon. Edward Short.
" Auguste N. Moria.
" William Badgley,
" Jean Ohabot.
" John S. McCord.
" Jean C. Bruneau,
" David Roy.
Assistant Judges,

- Montreal.- Hoòhelaga, Jacques Cartier, Laval, Vaudreuil, Soulana ges, Laprairie, Chambly and Verchères and City of Montreal-Held at Montreal from 17 th to 27 th of every month, except January, July and August. Monk, Coffin \& Papineau, Prothonotary ; John Boston, Sheriff.

Quebso.-Portneuf, Quebec, Montmorency, Levi, Lotbiniére and City of Quebec-Held at Quebec from 1st to 5th February, March, April, May, September, October and December, and from 20th to 25th June and November. Burroughs \& Fiset, Prothonotary ; Wm. S. Sewell, Sheriff.

Otrawa.-Ottawa and Pontiac-Held at Aylmer first ten juridical days of February and July. Henry Driscoll, Prothonotary ; Louis M. Coutlée, Sheriff.

OIRCUIT COURTS.

## Jurisdiction in suits not exceeding $£ 50$,

quebed district.
Quebec Circuit, held at Quebec, 20th to 25 th of every month, except July and August. Clerk, Burroughs \& Fiset.

Lotbinière Circuit, held at Lotbinière, 13th to 22nd March, July and November. Clerk, Joseph Filteau.

Portneuf Oircuit, held at Cap Santé, 7th to 16th January, May and September. Clerk, R. Lelièvre.
montreal distrist.
Montreal Oircuit, held at Montreal, 10th to 15 th of every month, except January, July and August. Olerk, Monk, Coffin \& Papineau.

Vaudreuil Circuit, held at Vaudreuil, 1st to 5th March, July \& November. Clerk, J. O. Bastien.

Soulanges Circuit, held at Côteau Landing, 6th to 10th March, July and November. Clerk, H. J. Sentenne.
ottawa distriot.
Ottawa Circuit held at Aylmer from 20th to 25th January, May and September. Clerk, H. Driscoll.

[^1]GENERAL QUARTER SESSIONS OF THE PEACE.
Chairman: Charles J. Cobrsol.
A. M. Delisle and W. H. Brehaut, Clerk of the Peace ; C. E. Schiller, Deputy Clerk of the Peace ; L. D. Réné Cotret and Clerks.

TERM5.
Montreal : 4th to 14th February, May, August and November. Quebec: 8th January, 4th April, 4th July and 4th October. Clerk, Pierre A. Doucet.
Three Rivers : 8th January, 4th April, 4th July and 4th October. Clerk, L. U. A. Genest.

Sherbrooke: 8th January, 8th April, 8th July and 8th October. Clerks, Short \& Morris.
Kamouraska; 7th January and 15th July. Clerks, Chalou \& Déry. Aylmer: 5th April and 5th October. Clerk, H. Driscoll.
percé, Gaspé Basin, New Carlisle and Carleton: On the three days following the Circuit Court. Clerks, Wilkie \& Harper.

## LAW COURTS OF UPPER CANADA.

Court of Error and Appral.-This Court is composed of the Judges of the Superior Courts of Law and Equity, and the Hon. Jas. Macaulay, late chief justice of the Court of Common Pleas, and has jurisdiction in Appeal from the Courts of Chancery, Queen's Bench and Common Pleas. It sits three times a year, namely on the 2nd Thursday after each Term, except Trinity Term.

Clerk-The Registrar of the Court of Chancery, Toronto.
Court of Chanozry.-Hon. W. H. Blake, chancellor ; Hon, J. C. P. Esten and Hon. J. G. Spragge, vice-chancellors ; A. N. Buell, master, Alexander Grant, Registrar and reporter.

Terms for examination of witnesses commence on the second Tuesday in February and May, last Tuesday in Angust, and second Tuesday in November, and end on the Saturday of the following weeks.

Terms for hearing Causes commence on the second Tuesday in March, June, September and December, and end on the Saturday of the following week.

A weekly sitting on every Monday is held throughout the year (except during the regular vacations), for the purposes of hearing motions for Decrees and motions for or to dissolve special Injunctions, and appeals from the reports of the Master or any Deputy Master.

One of the Judges sits in Chambers every day, (except during the regular vacations, ) for the purpose of hearing sundry applications.

Court of Queen's Bench.-Hon. Sir J. B. Robinson, Bart, chief justice; Hòn. Archibald McLean and Hon. R. E. Burns, puisne judges ; C. C. Small, clerk of the Crown and pleas; C. Robinson, reporter ; Robert Pearson, clerk of the process ; W. B. Heward, clerk in Banc. and chambers ; W. B. Heward, clerk in practice court.

This Court sits in Banc. during the four Terms, in Osgoode Hall.

Court of Common Pleas.-Hon. W. H. Draper, C. B., chief justice ; Hon. W. B. Richards and Hon. J. H. Hagarty, puisne judges; L. Heyden clerk of the Crown and pleas ; E. C. Jones, reporter.

The Court of Common Pleas, established by the 12 Vic. cap. 63, consists of three Judges, who sit in Term in the same manner as the Judges of the Queen's Bench.

## LAW TERMS.

Quegn's Bench and Common Pleas.-Hilary Term begins on the first Monday in February. Easter 'Verm begins on the third Monday in May. Trinity Term begins on the Monday next after the 21st of August. Michaelmas Term begins on the third Monday in November. And each term ends on the Saturday of the ensuing week.

From the 1st July to the 21 st August is vacation in all the Courts.
Circuits are beld twice a year in each County, viz.: The Spring Circuit between Hilary and Easter Terms, The Autumn Circuit between Trinity and Michaelmas Terms.

In the County of.York, however, there are three Circuits every year viz.: The Winter, commencing on the Thursday in January next after the Municipal Elections. The Spring, on the second Monday in April, and the Autumn, on the second Monday in October.

There are six Circuits, viz.: The Eastern, held at Brockville, Perth, Ottawa, L'Orignal and Cornwall ; the Midland, held at Picton, Belleville, Cobourg, Peterborough, Whitby and Kingston ; the Home, held at Owen Sound, Hamilton, Niagara, Merritsville, Milton and Barrie ; the Oxford, held at Guelph, Berlin, Stratford, Cayuga, Woodstock, Brantford and Simcoe ; the Western, held at Goderich, London, St. Thomas, Chatham, Sandwich and Sarnia; the Toronto or Home Sittings, at Toronto.

Court of Probate.-The Governor General, judge (ex-officio); Secker Brough, Toronto, Official principal ; C. FitzGibbon, Toronto, registrar.

## POST OFFICE DEPARTMENT.

## Honorable Sydngy Smith, Post-Master General.

W. H. Griffin, Deputy Post-Master General ; H. A. Wickstead, Accountant ; Edwin F. King, Secretary ; John Ashworth, Cashier.

Money Order Branch.-P. Lesueur, Superintendent.

## Classification of Clerks.

1st Class.-H. S. Wetherley, R. M. Julyan, E. C. Hayden, R. Oliver, D. Lawson, J. T. McCuaig, W. White.

2nd Class.-J. O Stewart, J. Audette, Peter Holt, Charles McKenzie.
3rd Class.-John Boyd, W. D. Lesueur, J. Brophy, J. McMahon, E. H. Benjamin, D. Waters, George Mason.

4th Class.-B. King, G. H. Hargrave, H. J. Garrett, George Holt, E. G. Bennett, H. F. Hayward, R. Sinclair.

John Hinifin, Office Keeper.

## MONTREAL.

## J. B. Meilleur, M.D., LL.D., Postmaster.

 James Simpson, Assistant Postmaster.P. W. Cooper, B. McEvenue, M. Emery, H. A. R. Huddle, McDuff Simpson, M. Murphy, J. Maitland, U. Benoit, John MoKeon, Alexander Robertson, L. Malard, W. MeGillivray, John Muir and O. Raymond, Clerks.
P. O'Reilly, John J. Drew, A. Anger and L. Lafricain, Letter Carriers. Office Hours : from 8 A. M. to 7 P. M ; and from 8 to 10 A. M. on Sundays.
REGULATIONS AND RATES,
Letter Rates.-Letters posted in Canada addressed to any place within the Province pass, if prepaid, for 5 cents per $\frac{1}{2}$ oz., but if posted unpaid are charged 7 cents per $\frac{1}{2} \mathrm{oz}$.
On Letters to Nova Scotia, New Brunswick and Prince Edward's Island the rate is 5 cents per $\ddagger$ oz,, with optional pre-payment.

The rate on letters to the United Kingdom will be :

$$
\begin{aligned}
& \text { By Canadian Packet } 12 \frac{12}{2} \text { cents per } \frac{1}{2} \text { ounce. } \\
& \text { By Cunard }
\end{aligned}
$$

Letters for the United Kingdom must be prepaid, or they will be charged a fine of 6d. sterling on arrival in England.
Letters for British Colonies and possessions beyond sea, and for Foreign Countries, via England, must be prepaid.
The rate on Letters for the United States; (except
California and Oregon), 10 cents per $\frac{1}{2}$ oz.
" " for California and Oregon, 15 " "
Registration Charges.-For the Registration of a Letter addressed to any place in British North America the charge is 2 cents.

For the Registration of a Letter to United Kingdom 121 cts.

$$
\text { " } \quad \text { United States } 5 \text { " }
$$

Miscellaneous Charges.-The charge on Parcels by Parcel Post to any place in Canada is 25 cents per lb., (with 5 cents additional if registered.)

Newspapers and Periodicals.-Newspapers published in Canada may be sent by Post from the office of publication addressed to any place in Canada at the following rates, if paid quarterly in advance, by either the publisher at the post office where the papers are posted, or by the subscriber at the delivering post office:

For a paper published 6 times a week 2 s. per qr., or 40 cents.

| $"$ | $"$ | 3 | $"$ | 18. | $"$ | 20 | $"$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $"$ | $"$ | 2 | $"$ | 8 d. | $"$ | 13 | $"$ |
| $"$ | $"$ | 1 | $"$ | 4 d. | $"$ | $6 \frac{1}{2}$ | " |

When the above rates are not paid in advance by either Publisher or Subscriber, such Papers are charged one cent each on delivery.
Newspapers by Mail from England or United States.-Newspapers eceived from England by the Canadian Packet Mails are delivered ree.
Newspapers from England by the Cunard Packet Mails are charged cents each on delivery. (This is the American transit charge.)
United States Newspapers, brought by Mail into Canada, are charged ne cent each on delivery.

Postage Stantps-Postage Stamps of the respective values of 1 cent, for Newspapers ; 5 cents for ordinary Provineial Letters; 10 cents for United States rate; $12 \frac{1}{2}$ cents for Oanadian Packet, and 17 cents for Cunard Packet, are provided for sale to the public.

The charge upon Books, \&c., by Book Post to England, is 7 tents on packets not exceeding 4 oz . in weight ; $12 \frac{1}{2}$ cents on $\frac{1}{2} \mathrm{lb}$. packets ; and $12 \frac{1}{2}$ cents additional for every additional $\frac{1}{2} \mathrm{lb}$. These charges must be prepaid.

Penal Clause. - The Act contains the following penal olause :
To inclose a letter, or letters, or any writing intended to serve the purpose of a letter, in a Parcel posted for the Parcel Post; shall be a misdemeanor.

To inclose a letter or any writing, or to make any written mark to serve the purpose of a letter, or to inclose any other thing in a newspaper posted to pass as a newspaper, at the rate of postage applicable to newspapers, (except in the case of accounts and receipts of newspaper publishers, which are permitted to pass folded within the news papers sent by them to their subscribers), shall be a misdemeanor.

MoneyOrders.-Money Orders payable in the Province may be obtained at any Money Order Office, (of which a list can be seen at any Post Office, ) at the following rates :


No single order can be issued for more than $\$ 100$.
N.B.-No half cents to be introduced in the Money Orders.

Money Orders on England, Scotlund and Ireland.-Money Orders, payable at any Money Order Office in Great Britain and Ireland, can be obtained at any Canadian Money Order Office. The Orders are drawn in Sterling, the Commission chargeable being, for $£ 2$ and under, one shilling sterling; from $£ 2$ to $£ 5$, two shillings. No order can be drawn for more than $£ 5$; but any number of Orders of $£ 5$ each may be procured.

## FARMING.

A Gervan astronomer, Schwabe, observing for 30 years the spots upon the sun, discovered that they, passed through certain phases increase and decrease every 11 years ; and that there was an intimate connection between these phases and the magnetic state of the earth.

Werds.-Professor Buckman of England has recently found in a pint of ordinary clover seed, 7,600 weed seeds ; and in a pint of Ducth clovert 70,000 weed seeds. Some of these weeds are amazingly prolific ; a single dock plant's seeds produced 1,700 young docks; and Buckman counted 8,000 seeds in a single plant of black mustard, 26,000 in a burdoch, and 46,000 in a cammomile.

NwWpapmas.-There are 3,364 newspapers published in the United States and territories, of which 618 are in New York, 419 in Pennsylvania, 382 in Ohio, 221 in Illinois, and 219 in Massachusetts. There are 50 in Canada, 5 in the Sandwich Islands, and 2 in New Brunswick. In En* gland and Wales there are 272 ; in Scotland, 66 ; in Ireland, 113 ; and in the British Isles and Jersey, 17. There are about 1,500 in Germany, about 600 in France, 30 or 40 in Spain, very few in Italy, 13 in Oon* stantinople, and about 100 in Russia.

## TO ASCRRTAIN THE LENGTH OF THH DAY AND NIGHT,

At any time of the year, sdd 12 hours to the time of the sun's setting, and from the sum subtroct the time of rising, for the length of the day. Subtract the time of setting from 12 hours, and to the remainder add the time of rising next morning, for the length of the night. These rules are equally true for apparent time

## trun tims.

Two kinds of times are used in Almanacs ; clock or meanatime in somee, and apparent or sun-time in others. Clock-time is, always right, while sun-time varies every day. People generally suppose it is twelve o'clock when the sun is due south, or at a properly made noon-mark. But this is a mistake. The sun is seldom on the meridian at twelve o'clock, indeed this is the case only on four days of the year: namely, April 15, June, 15, Sept. 1, and Dec. 24، In this Almanac as in most other Almanacs, the time used is clock-time. The time when the sun is on the meridian or at the noon-mark, is also given to the nearest second, for the 1st, 9 th, 17 th, and 25 th days of each month, at the right hand of the top of each calendar page. This affords a ready means of obtaining correct time and for setting a olock by using a neon-mark, adding or subtracting as the sun is slow or fast.

Old-fashioned Almanacs, which use apparent time, give the rising and setting of the sun's centre, and make no allowance for the effect of refraction of the sun's rays by the atmosphene. The more modern and improved Almanacs, which use clock-time, give the rising and setting of the sun's upper limb, and duly allow for refraction. The practice of setting timepieces by the rising or setting of the sun or moon is not strictly correct, as the unevenness of the earth's surface and intervening objects, such as hills and forests near the points of rising and setting, occasion a deviation in every place, from the time expressed in the Almanac, which time is adapted to a smooth, level horizon. The only means of keeping correct time is by the use of a noon-mark, or a meridian line.

Home Delights.-" No man can tell," says Taylor, "but he that loves his children, how many delicious accents make 'a man's heart dance in their pretty conversation; their childishness, their stammering, their little angers, their innocence, their imperfection, their necessities, are so many little emanations of joy and comfort to him that delights in their person and society.

Trlegrape lines.-In America, 45,000 miles ; in England, 10,000; in France, 8,000 ; in Germany and Austria, 10,000 ; in Prussia, 4,000 ; in Russia, 5,000 ; in the rest of Europe, 7,650 ; in India, 5,000, in Australia, 12,000 ; elsewhere, 500. Total in 1858; 96,350 . Over all the lines in the United States the number of messages per year is estimated at
$4,000,000$. It is supposed that a telegraph could be laid around the globe for less than half the cost of the Erie railroad.

Coal fiblds of Europi and North America. - The coal flelds of England amount to 5,000 square miles ; those of Europe to 8,964 ; of the United States to 198,850 ; of the British Provinces of North America, 7,530. Estimating the average thickness of good coal in the United States and British Provinces at 20 feet, we have the amount of coal stored up by the Creator for our use $4,000,000,000,000$ tons.

Railroad Travelling.--The statistics on this subject prove that this mode of travelling is much safer than the old modes. Thus in the French post system there were nearly seven times as many deaths as in an equal number of miles by railroad. Yet the number of accidents is inexcusably great, especially in the United States. The summary of several years shows
$\left.\begin{array}{c}\text { In Prussia, killed or wounded, } 1,\} \\ \text { in passengers.................. }\end{array}\right\}$
b" Belkium, ditto.
1,494,075
In England, killed or wound- $\}$
311,851
${ }^{\text {bic }}$ " Belpium, ditto
1,611,237
1, in passengers..........

Thus railroad travelling is more than six times as dangerous here as in Prussia, probably because the responsibility here exacted is less in nearly that proportion.

Population of thm Globe.-Professor Dietrich of the University of Berlin has furnizhed the Academy of Sciences in that city with the most recent and reliable tables on this subject, giving the following results, with bis grounds for them;
Population of Europe $\qquad$ 272,000,000
"
" Asia
"
" America...............
Africa ,........... 720,000,0e0 $200,400,000$ 89,000,000

Population of Australia, etc, $\quad 2,000,000$
or more than twelve hundred millions. Reckoning the average death
Total........................ 1,283,000,000 as about one in every forty inhabitants, $32,000,000$ die in a year ; 87,671 in a day ; 3,653 in an hour ; and 61 in a minute. Thus one human being dies on an average every second, and more than one is born.

The entire population is thus divided in point of religion :
Christians-Protestants.
89000,600
Jews.
5.000,000

Romish Church .... 170,000,000 Molaipmedans.................... 161,0064,000
Greek Church...... $76,000,000$ Heathen ......................... 783,000,000
Total
$333,000,000 \mid$
This estimate is judged to be in some particulars rather too large.
Ths average size of living beings on the earth, midway between the smallest microscopic animalcule and the whale, is one-third of an inch in length-the common house fly.
Differences or Time.-When it is 12 o'clock at noon in New York city it is forenoon at all places west of New York, and afternoon with all places east ; as by the following table:


The difference of time between Trinity bay and Valentia bay is about 2 hours and 48 minutes.

## ANTIQUITY OF FARMING.

Agriculture is not only the means of supporting life, but it is to be venerated for its antiquity. Its origin has priority over all other arts. This fact alone should give it a deep place in our affections. It might seem, therefore, that the individual who casts reproach upon it is incapable of just appreciation and of logical deduction ; and, that he is a stranger to refined moral perception, as well as guilty of a species of impiety. It is an attribute of our nature, and a dictate of revealed religion that we reverence the institutions of Heaven. Is not agriculture one of these institutions? Is it not the first of them? Did not man receive his commission to till the ground from the Deity himself? Was it not, too, on the very completion of the material creation, as if to constitute man his associate in a ministration of beneficence, that God placed him in the garden of Paradise, to dress it and keep it? And, as if to make this labor of man a sacred adjunct to the labor of Heaven while imparting life and joy to God's rational creatures in all coming life, was not the commission for it bestowed the very day of nature's grand jubilee, when the morning stars shouted and sang in a loud anthem of praise? Was it not granted beneath the delightful bowers of Eden, where fragrant odors and spicy aromas floated on every breeze!

To our apprehension, the circumstances attendant on the institution of agriculture, should give it the same pre-eminence in physical economy that the Christian ministry has in the moral world; a pre-eminence that should shield it from reproach and desecration of every kind. These circumstances have an impressive sanctity which cannot be resisted by the well trained mind. In order to see an object in the full splendor of its own beauty, we are often constrained to place it in company with other objects. Thus, how much more beautiful appears each hue of the rainbow when placed in juxtaposition with the others, than though it were seen alone!

## MONEY MADE BY FARMING.

What is the difference between the farmer and the mechanic in this respect? It is simply this. The former raises his own bread-stuffs and tubers, and the latter makes shoes, or chairs, or ploughs, or wagons; sells them for cash ; then with the money so received purchases those very articles produced by the agriculturist. The process is, simply, an exchange of labor: the farmer works for the mechanic, and the latter works for the former, each depending on the other, in part at least, for what he wants. What is the difference between the farmer and the doctor? Very similar to that between the farmer and the mechanic. The one supplies the other with what he wants to eat, drink, and wear ; and, in return, the last supplies the first with jalaps, and powders, and tincture, and liniments-and when there is occasion for it, pulling his teeth, cutting off diseased limbs, and restoring to its proper place a dislocated bone. And what is the difference between the farmer and the merchant? It is pretty much of the same sort as in the two cases named. The farmer supplies him with beef, pork, lamb, veal, and poultry for his table ; and, with wool, cotton, and flax, for his apparel. In return, the merchant hands over to the farmer money with which he pays his taxes, and procures for his family such articles as he cannot raise upon his farm. And besides supplying his own wants, the merchant takes all the surplus produce of the farmer, and sells it out as wanted to others, either to those at home or shipping it to foreign countries, paying him in cash for it. Thus, as the merchant produces nothing himself, he is the mere pedlar of the farmer and the mechanic, and gets his living by selling the several commodities which they produce, at a higher price than he pays for them. The farmer and the mechanic had better pay the merchant for being the factor and pedlar of what they produce, than to spend their own time in doing it. He can do this better than they can; and they can earn more in their respective vocations than in doing this.

This exchange of labor between the farmer and the three classes of persons named, is one of the beautiful and beneficial features in civilized life and social economy. It is essentially the same between the farmer and every other class of persons. They are all living upon his labor, or are employed in completing the processes he has begun for sustaining the fabric of human society. Without him they could not subsist. If they were to fail of receiving his products, they all would cease to exist, or else they would be obliged to become farmers themselves. This is not mentioned to create odium against either class of persons in the community, but simply to show the relation between all classes, and the dependence severally of each upon any other one. It is strange, therefore, that it should ever have been imagined, that the occupation of the farmer is subordinate, or in any respect less reputable than that of any other persons. If a comparison were to be instituted, for which there is no occasion, the advantage would be the other way. It would be found that all others would be subordinate to him, and in some measure dependent upon him. So far as respectability is concerned, vit may be proper to remark, that that depends not so much on the occupation as it does on the character and talents of the individua! engaged in it. Any occupation, however respectable and elevated in itself, may be degraded and rendered comparatively disreputable, by a want of character and talents in the persons who have it in trust; and, on the other hand, an occupation that in itself is subordinate and seemingly without
the elements of high consideration, may be elevated and rendered honorable when in the hands of those who have character and honorable position to associate with it.

## new method of preserving wheat.

A Mr. Adams, in a late number of The Journal of the London Society of Arts, has made a suggestion for a new kind of granary, by which he thinks that grain may be safely and effectually preserved for any number of years. The great difficulty now is the natural moisture contained in all grain, and which it is never entirely divested of, by exposure to the atmosphere at the common temperature, this being the cause of much of the sour, musty flour found in market.

The following are Mr. Adam's observations upon the subject :-
"There does not seem to be any difficulty in the matter, if we divest ourselves of preconceived ideas of the notion that a granary or grain receptacle must necessarily be a building with a floor or windows more or less multiplied in altitude. We may reason by analogy as to what is the cheapest and most effective means of securing perishable commodities from the action of the atmosphere and vermin. In England we put our flour in sacks. Brother Jonathan puts his in barrels, which does not thoroughly answer. * . . If Brother Jonathan wishes really to preserve his flour or his 'crackers' undamaged, he makes them thoroughly dry and cool, and hermetically seals them in tin cans. This also is a common process to prevent goods from being damaged at sea.
"There can be no doubt that if we were to put dry wheat in an hermetically tinned case, it might be kept as long as the famed 'mummy wheat' of Egypt. This will readily be admitted, but the expense would be queried. Let us examine into this. A canister is a metallic reservoir ; so is a gasometer; so is an iron water-tank in a ship, at a railway station, or elsewhere ; and a cubic foot of water-tank on a very large scale will be found to cost very much less than a cubic foot of canister on a small scale. And if a bushel of wheat be more valuable than a bushel of water, it will clearly pay to put wheat in huge canisters of iron. The wheat canister, in short, should be a wrought or cast metal tank of greater or less size, according to the wants of the owner, whether for the farmer's crop or the grain-merchant's stock.
"This tank should be constructed of small parts, connected by screwbolts, and consequently easily transported from place to place. The internal parts should be galvanizen, to prevent rust, and the external part also, if desired. It shoald be hermetically tight at all the points, and the only opening should be what is called a man-hole-that is to say, a canister-top where the lid goes on, large enough to admit a man. When filled with grain, the top should be put on, the fitting of the edge forming an air-tight joint. Wheat put dry into such a vessel, and without any vermin, would remain wheat any number of years. But an edditional advantage to such a reservoir would be an air-pump, by the application of which, for the purpose of exhaustion, any casual vermin would be killed. If the grain were moist, the same air-pump might be nised to draw or force a current of warm air through it, to carry off the moisture. By this process, and consequently keeping out the air, the grain might be preserved for any length of time. As the reservoir would be perfectly air-tight and water-tight, it might be buried in the
ground with perfect safety ; and thus cellars might be rendered availabl for granaries, economizing space of comparatively little value. Th a grain would be easily poured in from the surface ; and to discharge it $n$ an Archimedean screw should be used. The size of the reservoir should $n$ be proportioned to the locality, and it should hold a specified numbe of quarters, so as to serve as a measure of quantity, and prevent thech expense of meterage. * * * If constructed above the ground, a stail 1 or ladder must communicate with the upper part, and the lower par must be formed like a hopper, for the purpose of discharge. For many farm localities this arrangement might be best, and wheat might bd thrashed into grain direct from the field and stored. * *Granaries o this description would occupy less than one-third the cubic space of those of the ordinary description, and their cost wonld be less than one-fifth * * With this security for storing safely, a farmer would have less hesitation in sowing great breadths of land. He would not be driven to market under an average value, and might choose his own time fo, selling. The fear of loss being dispelled, people would buy with les hesitation, and the great food stores of the community would, by wholesome competition, insure the great mass of the community agains a short supply. But as long as uncertainty shall prevail in the storage of grain, so long will it be a perilous trade to those engaged in it, and so long will the food of the community be subject to a very irregula at, fluctuation of prices. There is nothing diffcult in this proposition. is merely applying existing arrangements to unusual cases. Ther a needs but the practical example to be set by influential people, and the tu great mass will travel in the same track. To the weal thy agriculturisy d it will be but the amplification of the principle of the tin-lined corn-bin ic that keeps out the rat from the oats of the stable. * * Were thil mode of preserving grain to become general, the facility of ascertaining stock and crops after reaping would be very great. The granarie being measures of quantity, no hand-measuring would be needed, and the effects of wet harvest weather might be obviated."

## GUANO.

At a meeting of the Society of Arts, some interesting statistics rela tive to guano were presented by Mr. Horace Green.
Guano is generally understood to have been brought to the notice Europeans by Humboldt in 1804. It was first brought to England a merchandise in 1830. It had, however, been used in Peru for 600 years Of this excrementitious matter voided by sea-birds, a very large propor tion was decomposed before the guano of commerce was extracted frou its beds, and more still before its arrival in port. Proof of the rapif depreciation of guano in keeping might be found in the analyses of thi dung of birds by Sir Kumphrey Davy and M. Coindet. Coindet foun in recent excrement 8.61 of pure ammonia, and of ammonia in the form of its equivalent of uric acid 35.20 , making a total of 43.81 per cent. Davy found that the soluble matter of the dung of pigeons decrease from 23 per cent. in the recent excrement to 16 per cent. in that of si months old, and to eight per cent. after fermentation. It appeared tha in five years ( $1845-50$ ) nearly 650,000 tons of guano had been brough almost round the world for the stimulation of the soils of this country but it was generally bel, ved that the zenith of supply from Peru wa

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## tics rela

 aotice gland a 00 years e propor :ted fron he rapil es of th et foun the for xer cent lecrease at of si ared the 'brough country ?eru waast. From the mean of many analyses of different varieties, it was ated that the amount of ammonia was, in Saldanha Bay, 1.68 per nt. ; in Patagonia, 2.55 per cent. ; in Cape and Algoa Bay, 2.00 per nt. ; and in the New Islands, 1.96 per cent. ; but in phosphate of me, which was the next most important element, the guanos were cher as they were poorer in ammonia. The mean amount of phosphate lime was, in Saldanha Bay, 55.40 per cent. ; in Patagonia, 44.00 per nt.; in Cape and Algoa Bay, 20.00 per cent. ; and in the New Islands, 80. The question, however, arose, whether or not large quantities such manures could be sold at a price which should not exceed the me cost of super-phosphate of lime. Reference was then made to the uano Substitute Prize of $£ 1000$., and the Gold Medal, which were ered by the Royal Agricultural Society for the discovery of a manure ual in its fertilizing properties to Peruvian guano, and which could sold at a price not exceeding $£ 5$ per ton; and it was contended that, , according to the composition of guano as given by Professor Way, $d$ the known value of these several articles in the markets of comce, the value of a ton of such material would be upwards of $£ 12$, was not at all probable that any one would dispose of it for $£ 5$. The thor then proceeded to describe the fisheries guano of Mr. Pettit, d gave the results of several analyses, from which it was deduced at, according to the scale before alluded to, the mean value of the mples tested was $£ 9$ 7s. 7 d . per ton. The manufacture of this guano a large scale would be carried on by a process of the following ture : A given weight of fishy matter was placed in a large tank, d sulphuric acid of commerce added to the mass. The action of the id was so powerful as speedily to reduce the organic matter to a soft lpy consistency, resembling in appearance the feeal matter of birds. is pasty mass being placed in a centrifugal drying machine, and the perabundant moisture forcioly driven off, the partially dry matter was (v submitted to a heat not exceeding $212^{\circ}$ Fahrenheit, and afterwards verized in a suitable manner. In this process the oily matter of fish separated itself and swam upon the surface of the liquid; hence could be easily separated, and formed an important item in the ecomy of the manufacture-simce, taking all kinds of fishy matter, we ained an average of three per cent. of oil, worth $£ 25$ per ton, or ee-fourths of the whole expense of the raw material. Another pros might in some cases be adopted with advantage, especially with tilaginous fish. As to the supply of the raw material, it was believed, in the testimony of many persons on the coasts, that an ample supply efuse fish would be obtained at an average price of $£ 1$ per ton; and ing 60 tons of this weekly, the cost of manufacture and incidental enses would be $£ 10,643$ per annum. From this there would result tons of oil, which, at $£ 25$ per ton, would give $£ 2,325$, and 1,653 tons guano, at $£ 7$ per ton, or $£ 11,571$, making together $£ 13,896$ as the ount of sales, or a profit of $£ 3,253$.
$t$ was stated that some years ago an inquiry was instituted as to ther the offal and refuse fish of Newfoundland could not be prepared a manure at a cheaper rate than that already in the market, when as found that there were difficulties in the way, which led to the ndonment of the idea.

## SABBATH HYMN AND TUNE BOOK.

That excellent manual of sacred songs, the "Sabbath Hymn Book," compiled from the gems of ancient modern hymnology, by E. A. Park, D.D., A. Phelps, D.D., J. L. Mason, Dr. of Music, and revised by F. Mayland, D.D., for the Baptist Church, and published by Mason Brothers, New York. This Hymn Book being à compilation from the standard hymnology of the ancient and modern Church of all the principal evangelical denominations of christians,-such as Congregationalists, Presbyterians, Methodists, Episcopalians, and Baptists, is universally acknowledged, by all who have examined it, to possess, to a high degree, qualities of preeminent merits. Its superior excellence consists in the following distinctive points :-

1. The number, variety and poetic beauty of the hymns relating to the Saviour, his offices and works.
2. The large number of hymns, the utterances of religious emotion, fitted to quirken and strengthen the Christian graces.
3, The predominance of hymns addressed to God, Father, Son and Holy Spirit.
3. The collection of hymns, relating to particular topics, into appropriate sections, with running titles or scriptural mottoes.
4. The excellent anylitical or philosophical arrangement for the convenience of pastors and choirs, and the edification of all classes.
5. The translation of ancient songs of praise, from the Greek, Latin, French and German, hallowed by the use of the people of God for many centuries.
6. The introduction of hymns, from different branches of the true Church, translated from modern European tongues, thereby creating a band of union among the various members of the Church Catholic.
7. The judicious selection of Chants for the introduction and close of divine worship.
8. The scientific value of the indexes appended to the hymns.

While the lyrical, scriptural, devotional and historic element of this collection, give it high claims for a place by the Bible in the House of God, its literary merits should lay it upon every centre table and deposit it in every family library.

Much voluminous testimony is given in its favour, both by American and European scholars and divines.
"I do not helieve there is its superior in the English or any other language."-G. E. Adams, D.D., Me.
"I have no hesitation in affiyming it as my deliberate judgment, that the Sabbath Hymn Book is decidedly to be preferred, as a manual of sacred songs, to any other compilation of which I have knowledge." R. S. Stous, D.D., Mass.
"It is the best collection of sacred lyrics I have ever met with."-J. A. James, D.D., Birmingham, England.
"It is truly a noble compilation of sacred hymnology, for the close $t_{5}$ the family, and the Church."-H. Wilkes, D.D., Montreal.

SOLD, WHOLESALE AND RETAIL, AT PUBLISHER'S PRICES, BY
R. \& A. MILLER,

## ON THE ORIGIN AND FIRST CAUSES OF THE GRAPE AND POTATO DISEASES.

At the German Association of Naturalists, Dr. Guimpel, of Landan, read a paper "on the Cells, with reference to the origin and first causes of the Grape and Potato Diseases." The author considered it his duty to lay before the meeting the result of his careful investigation respecting the cause of these diseases. After tracing the progressive steps of the scientific discovery, three of which he specially alluded to, -the researches of Aristotle, the discovery of painting, and the invention of the microscope,-he attributed to the latter our knowledge of the cells and cellular structure of plants. The great $\mathrm{e} t$ ment in the development of vegetable life is pollen, (Blüthestaub.) The pollen is the great cause of the disease or death of plants; the sound or unsound condition of the pollen influences the whole growth of the plant. The pollen is carried in every direction by the winds ; it attaches itself to the leaves, or it falls on the ground. There it bursts, and again distr butes its mischievous effects, if unsound, on all around. Thenc difference in the time when the disease shows itself on the gran potato, as it can only appear after the flowering, on which d healthy or unhealthy state of the plants. He did not ex pollen first became diseased, but he thought it might be in the bud. At all events, he concluded, we have now known enemy to deal with, and need not fear the existe rious, unseen, unknown foe in the air.
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