

## Explanation of Calenvar 根ages.

The Publishers of this Almanac, with a view to increase its circulation and usefulness, have adapted its calculations for the whole country. The Moon's changes are given for four different places, viz; Montreat, 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 sumfient exactness for all practical purposes. The wenther prognostications are again calculated according to the table of the celebrated Dr. Herschel, and for extraordinary accuracy Miller's Almanac retains its wonderful popularity.

## Cbronological Cepcles.

| A. |  |  |
| :---: | :---: | :---: |
| Golden Number............ 18 | Jewist year commencing |  |
| Jewish Lunar Oycle........ 15 | 14th January, | 5621 |
| Rpact or | Age of the W | 5863 |
| Solar Cycle | Mahometan year, 0 | 12 |

## fllobable ffestioals.

Septuagesima Sunday, Febr. 5
Quinquagesima " " 18
Ash. Wednesday ........ " 22
First Sunday in Lent ... " 26
Palm Sunday......... April 1
Good Friday............ " 6
Easter Sunday .......... " 5

Low Sunday
April 15
Rogation Sunday....... May 13
Ascension Day......... " 12
Whitsunday
" 27
Trinity Sunday........ June 3 Corpus Christi, Fete-Dieu Advent Sunday....... Dpe.

## 

| Circumoision......... Jan. 1 |  | Corpus Chri | June |
| :---: | :---: | :---: | :---: |
| Epiphany............ ${ }^{6}$ | 6 | St. Peter and St. Paul . |  |
| Annunciation ........ Marchr 25 |  | All Saints Da | Nov. |
| Good Friday . . . . . . April 6 | 6 | Conception of the Blessed |  |
| Ascension Day....... May 17 | 17 | Virgin Mary . . . . . . . |  |
| Queen. Vietoria's Birthday ${ }^{\text {H/ }} 24$ | 24 | 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 9.744 digits on the North limb. It begins in the Erening at Montreal 9 minutes past 8. The Eelipse attains its largest size at 35 minutes past 9 , and ends about $11 o^{\prime}$ clock. It begins in Toronto 7.46 ; middles 9.12 , and ends at 38 minutes past 10.
III.-On the 18th of July there will be a total Eclipse of the Sun in the Morning. On this Oontinent it will be only partial. In Canada it will be visible about two hours, beginning a few minutes past 7 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.


D. $\mathbf{H}, \mathbf{M}$.
D. H. M.

Sun in Winter Signs
8912
Tropical Year.
$365 \quad 548$
Sun in Spring Signs.... 922038 Sun North of the Equator 1861047
Sun in Summer Signs. . . $93 \quad 14 \quad 9 \mid$ Sun South of the Equator $17819 \quad 6$
Sun in Autumnal Signs, 89 17 59 Difference ......... $715 \quad 46$

## APPEARANCE OF PLANETS, 1860.

Until Jaly 18th Venus will be the Evening Star, and then the Morning Star the rest of the year. Unitil July 17th, Mars will be Morning Star, then Evening the remainder of the year. Saturn will be Morning Btar until February 11th, then Evening Star until August 22nd, then dorning Star the rest of the year. Venus will be Eclipsed by the Moon on the 24th of April, visible generally thronghont the conntry. The Planet will disappear behind the Moon about balf past eight in the Evening and re-appear about 9. Jupiter will also be Eclipsed by the Moon North $43^{\circ}$ on the 26th of April, about one hour before the Moon sets,

1st Month.
JANUAIEY, 81 Days. Begins on Sunday.


| DAX8. |  | Montreal. |  | Toronto. |  | Sun's Deelinat. | The Moon. | Calcadar, Aspects, 80. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | Week. | Sun Rises. | Sun Sets. | Sun Rises. | Snn Sets. | South. | R. \& 8, |  |
| $\begin{aligned} & 1 \\ & 8 \\ & 8 \\ & 4 \\ & 5 \\ & 6 \\ & 7 \end{aligned}$ |  | h. m. | h. m. | h. m. | h. m. | Deg. Min. | h, m, |  |
|  | A. | 746 | 420 | 740 | , 28 | 238 | Morn. | Circumeision. 1st Sun, after |
|  | Mon. | 840 | 21 | 40 | 29 | $22 \quad 57$ | 112 | 1st Sun, after Christmas, |
|  | Tues, | 40 | 22 | 40 | 30 | 2251 | 216 | Inclement weather may |
|  | Wed. | 45 | 23 | 39 | 31 | 2945 | 324 | be looked for at the begin- |
|  | Thu. | 45 | 24 | 39 | 32 | 2289 | 483 | ning of the year. |
|  | Fri. | 45 | 25 | 39 | 33 | 2232 | $\begin{array}{ll}5 & 42 \\ 6 & 41\end{array}$ | Epiphany. |
|  | Sat. | 44 | 27 | 39 | 34 | 2224 | 644 | Variable. |
| 8 | A. | 744 | 428 | 738 | 435 | 2217 | Rises, | ist Sun. after Epiphany. |
| 9 | Mon. | 44 | 29 | 38 | 36 | 298 | 618 | Very unsettledand stormy |
| 10 | Tues. | 43 | 81 | 37 | 37 | 28.0 | 7.87 | weather, |
| 11 | Wed. | 43 | 33 | 37 | 38 | 21.51 | 854 | Some thaw but not for |
| 12 | Thu. | 42 | 34 | 37 | 40 | $21 \quad 41$ | $10 \quad 9$ | long yet. |
| 18 | Fri. | 48 | 36 | 37 | 41 | 21.31 | 11.28 | Very fine day |
| 14 | Sat. | 41 | 37 | 36 | 42 | 21.21 | Morn. | Agreeable weath |
| 15 | A. | 740 | 438 | 736 | 443 | $21 \quad 10$ | 35 | Zud Sun, after Epiphany. |
| 16 | Mon. | 40 | 89 | 35 | 44 | $20 \quad 59$ | 1. 46 | With the Hew moon look |
| 17 | Tues. | 39 | 41 | 35 | 45 | $20 \quad 47$ | 259 | for a change of weather, |
| 18 | Wed, | 39 | 42 | 34 | 46 | $20 \quad 35$ | 45 | Very cold but steady and |
| 19 | Thu. | 38 | 43 | 33 | 48 | $20 \quad 23$ | $5 \quad 6$ | Lower Canada like. |
| 20 | Fri. | 37 | 45 | 38 | 49 | $20 \quad 10$ | 5.58 |  |
| 21 | Sat, | 36 | 47 | 31 | 50 | $19 \quad 57$ | $6^{41}$ | Fair and frosty. |
| 28 | A... | 735 | 449 | 730 | 452 | 1944 | Sets. | 3rd Sun.after Epiphany. |
| 23 | Mon. | 34 | 51 | 29 | 58 | 1930 | $5 \quad 58$ |  |
| 24 | Tues. | 33 | 52 | 28 | 54 | 1916 | 70 | The January thaw came |
| 25 | Wed. | 32 | 53 | 27 | 56 | 191 | 80 | as usual |
| 28 | Thu. | 31 | 54 | 26 | 57 | 1846 | 858 | Conversion of St, Paul. |
| 27 | Fri. | 31 | 55 | 25 | 58 | $18 \quad 31$ | 959 | but a little earlier. The end |
| 28 | Sat. | 30 | 56 | 24 | 500 | $18 \quad 15$ | 110 | of the mouth |
| 29 | A. | 729 | 458 | 724 | 501 | 1789 | Morn. | $4 t h$ |
| 30 | Mon. | 28 | 59 | 23 | - | 1783 | 7 | th |
| 81 | Tues. | 27 | 500 | 23 | 4 | $17 \quad 26$ | 17 |  |

JANUARY.-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 stoek-yards. He will look to the continued fertility of his land, and will therefore have 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 possible, the necessary supplies of manure upon the farm. Home-sources of strength, and unemployed valuable fertilizers, will receive due consideration. He wih find that labour here, is time and money saved.


## 2nd Moxth. FEDBIRUARY, 20 Days. Begins on Wedresday.

| Moou's Phases. |  |  |  | Mont | Kingston. |  | Toronto, |  | London, | Sun on Meridian. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ... | $\begin{aligned} & \text { d } \\ & 18 \\ & 18 \\ & 21 \end{aligned}$ | $\begin{aligned} & \text { h. } \mathrm{m} \\ & 941 \\ & 157 \\ & 244 \\ & 3 \end{aligned}$ |  | m. <br> 9 ev , <br> 5 ct . <br> 32 ev . <br> 49 ev . |  | m, 8 ev, 4 ev, 1 ev, 8 ev. |  | d <br> 1 <br> 9 <br> 17 <br> 17 <br> 20 | h mi 8. <br> $\mathbf{1 2}$ 13 51 <br> 12 14 29 <br> 12 14 17 <br> 18 18 81 |
|  | Y8. | Mont | eal. | Tor | nto. | $\begin{array}{r} \mathrm{Su} \\ \mathrm{Dec} \end{array}$ |  | $\begin{gathered} \text { The } \\ \text { Moon. } \end{gathered}$ |  |  |  |
| K. | Week. | Sun Rises. | $\begin{array}{\|l} \text { Sun } \\ \text { Sets, } \end{array}$ | Sun | $\begin{aligned} & \text { Sun } \\ & \text { Sets } \end{aligned}$ |  |  | R.\&8. |  |  |  |
| $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 4 \end{aligned}$ | $\begin{aligned} & \text { Wed. } \\ & \text { Thu. } \\ & \text { Fri. } \\ & \text { Sat. } \end{aligned}$ | $\begin{array}{\|c\|} \hline \mathrm{h} . \mathrm{m} . \\ 7 \\ 7.27 \\ 126 \\ 25 \\ 23 \end{array}$ | $\begin{array}{\|r\|} \hline \text { h. } \\ \hline \end{array} \quad 1 .$ | $\begin{gathered} \hline \text { h. m. } \\ 7924 \\ 22 \\ 21 \\ 20 \end{gathered}$ | $\begin{array}{r} \hline \mathrm{h} . \mathrm{m}_{1} \\ 5 \mathrm{~s} \\ 5 \\ 5 \\ 6 \\ 6 \end{array}$ | Deg. 17 ${ }_{16}^{16}$ 16 |  | $\begin{aligned} & \mathrm{h} . \mathrm{m} \\ & 2 \\ & \hline \end{aligned}$ |  |  | $V . M$. <br> able days |
| $\begin{array}{r} 5 \\ 6 \\ 7 \\ 78 \\ 9 \\ 10 \\ 11 \end{array}$ | A. <br> Mon. <br> Tues. <br> Wed. <br> Thu. <br> Sat. | 728 20 19 18 17 16 14 | 5 5 7 9 11 13 14 16 | $\begin{array}{r} 719 \\ 17 \\ 16 \\ 14 \\ 18 \\ 18 \\ 11 \end{array}$ | $\begin{array}{r} 7 \\ 9 \\ 9 \\ 11 \\ 13 \\ 14 \\ 16 \end{array}$ | 15 15 15 15 14 14 14 |  | $\begin{array}{rrr} 6 & 10 \\ \text { Rises. } \\ 6 & 88 \\ 7 & 87 \\ 9 & 48 \\ 10 & 39 \\ 11 & 19 \\ 19 \end{array}$ | The South W Look out fall. If very hart | rost | day. <br> South or ing snow. siderable |
| $\begin{aligned} & 16 \\ & 17 \\ & 17 \\ & 18 \end{aligned}$ | A. <br> Tues. <br> Wed. <br> Thu. <br> Pri. <br> Sat. | $7 \%$ 11 10 9 9 8 6 4 | $\begin{array}{r} 517 \\ 18 \\ 19 \\ 20 \\ 22 \\ 24 \\ 25 \end{array}$ | $\begin{array}{r} 79 \\ 7 \\ 6 \\ 4 \\ 2 \\ 1 \\ 600 \end{array}$ | $\begin{array}{r} 517 \\ 18 \\ 19 \\ 20 \\ 22 \\ 24 \\ 25 \end{array}$ | $\begin{gathered} 13 \\ 13 \\ 13 \\ 12 \\ 12 \\ 12 \\ 11 \end{gathered}$ | $\begin{aligned} & 45 \\ & 24 \\ & 42 \\ & 42 \end{aligned}$ | $\begin{array}{cc} \text { Morn. } \\ 0 & 48 \\ 1 & 57 \\ 2 & 55 \\ 3 & 55 \\ 3 & 54 \\ 4 & 42 \\ 5 & 18 \end{array}$ |  |  | Ax. <br> ost Office ine. ime there |
| $\begin{aligned} & 20 \\ & 21 \\ & 22 \\ & 23 \\ & 24 \\ & 25 \end{aligned}$ | A. <br> Tues. <br> Wed. <br> Thu. <br> Sat. | $\begin{gathered} 78 \\ 1 \\ 700 \\ 659 \\ 67 \\ 56 \\ 54 \end{gathered}$ | $\begin{array}{r} 527 \\ 28 \\ 30 \\ 82 \\ 34 \\ 35 \\ 37 \end{array}$ | $\begin{array}{r} 659 \\ 57 \\ 55 \\ 52 \\ 50 \\ 49 \\ 47 \end{array}$ | $\begin{array}{r} 527 \\ 28 \\ 30 \\ 31 \\ 33 \\ 34 \\ 35 \end{array}$ | $\begin{gathered} 11 \\ 11 \\ 10 \\ 10 \\ 9 \\ 9 \\ 9 \end{gathered}$ | 0 38 68 34 30 | $\begin{array}{cc} 6 & 12 \\ \text { Sets. } \\ 6 & 58 \\ 7 & 50 \\ 8 & 51 \\ 9 & 51 \\ 9 & 58 \end{array}$ |  |  |  |
| $\begin{aligned} & 28 \\ & 27 \\ & 27 \\ & 29 \\ & 29 \end{aligned}$ | A.... Mon. Tues. Wed. | $\begin{array}{r} 652 \\ 49 \\ 48 \\ 47 \end{array}$ | $\begin{array}{r} 538 \\ 39 \\ 40 \\ 41 \end{array}$ | $\begin{array}{r} 646 \\ 46 \\ 45 \\ 44 \end{array}$ | $\begin{array}{r} 537 \\ 38 \\ 39 \\ 40 \end{array}$ |  |  | $\left\lvert\, \begin{array}{cc} 10 & 57 \\ \text { Morn. } \\ 0 & 1 \\ 1 & 7 \end{array}\right.$ | ist Sund The mo sant. | ton | somewhat wholeplea- |

Frbruary.-The subject of saving manure should be given place and prominence in our agricultural journals. To turn, as far 68 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 careful 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.

| 1860.$]$ | MEmORANDUM TOR FRBRUARY. |
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3rd Monti.
MARCH, 31 Days. Begine on Thursday.

| Moon's 'hases. |  | Montreal. | Kingston. | Toronto. | Londen, | Sun on Meridian. |  |  |
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|  | d. | h. m. | h. | h.m. | h. m. | d. | h. | m. ${ }^{\text {s }}$ |
| Full Moon,...... | 7 | 750 mo . | 738 mo | 727 mo | 719 mo | ${ }_{9}^{1}$ | 12 | $\begin{array}{lll}12 & 27 \\ 10 & 34\end{array}$ |
| Lew New Muarter,... | 14 | ${ }_{9}^{4} 15 \mathrm{mo}$ | 48 mo . | 351 mo <br> 838 mo | ( ${ }^{8} 48 \mathrm{mo}$ | 17 |  | $\begin{array}{rrr}10 & 34 \\ 8 & 19\end{array}$ |
| First Quarter, | 30 | 159 mo . | 147 mo . | 135 mo . | 127 mo | 25 | 12 | 5. 54 |


|  |  | Montreal. |  | Toronto. |  | $\begin{array}{c}\text { Sun's } \\ \text { Deelinat. }\end{array}$ <br> South. | The <br> Moon. <br> R. \& S. | Calendar, Aspects, \&c. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M. | Week. | Sun Rises. | $\left\lvert\, \begin{aligned} & \text { Sun } \\ & \text { Sets. } \end{aligned}\right.$ | $\begin{gathered} \text { Sun } \\ \text { Rises. } \end{gathered}$ | $\begin{aligned} & \text { Sun } \\ & \text { Sets. } \end{aligned}$ |  |  |  |
|  | $\begin{aligned} & \text { Thu. } \\ & \begin{array}{c} \text { Pri. } \\ \text { Satit. } \end{array} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { h.m. } \\ & \hline 44 \\ & 0 \\ & 144 \\ & 1 \end{aligned}$ | $\begin{gathered} \text { h. m. } \\ 54 . \\ 543 \\ 43 \\ 44 \end{gathered}$ | $\begin{gathered} \mathrm{h} . \mathrm{m} \\ 64 . \\ 648 \\ 40 \\ 40 \end{gathered}$ | $\begin{gathered} \text { h. m. } \\ 5 \\ 541 \\ 42 \\ 44 \end{gathered}$ | $\begin{aligned} & 7 \\ & \hline \end{aligned}$ | $\begin{array}{ll} \mathrm{h} . \mathrm{m} . \\ 2 & 10 \\ 3 & 10 \\ 3 & 59 \end{array}$ | March is remarkable this year for very variable weath. |
|  | G... Mon, Toes. Ted. Whu. Trit Fri. Sat. | $\begin{gathered} 640 \\ 688 \\ 36 \\ 34 \\ 34 \\ 29 \\ 27 \end{gathered}$ | $\begin{gathered} 545 \\ 47 \\ 48 \\ 49 \\ 50 \\ 51 \\ 54 \\ 54 \end{gathered}$ | $\begin{array}{r} 639 \\ 37 \\ 34 \\ 33 \\ 31 \\ 29 \\ 27 \end{array}$ | $\begin{array}{r} r_{4}^{46} \\ 48 \\ 49 \\ 50 \\ 50 \\ 53 \\ 55 \end{array}$ | $\begin{array}{lll} 6 & 8 \\ 5 & 8 \\ 5 & 45 \\ 4 & 28 \\ 4 & 58 \\ 4 & 85 \\ 4 & 38 \\ 3 & 12 \end{array}$ |  | There will be a good deat of snow in L. C. In U, C. I roresee a gool deal of rain mised with snow and sleet. |
|  | G.... Mo. Tues. Tued. Whe. Thri. Sat. Sat. | $\begin{gathered} 625 \\ 24 \\ 24 \\ 20 \\ 20 \\ 18 \\ 18 \\ 14 \end{gathered}$ | $\begin{array}{r} 565 \\ 56 \\ 58 \\ 58 \\ 59 \\ 1 \\ 2 \end{array}$ | 625 28 22 20 20 18 16 15 |  | 3  <br> 3 25 <br> 3 1 <br> 2 37 <br> 2 37 <br> 2 14 <br> 1 50 <br> 1 26 <br> 1 3 |  | 3rd Sunday in Lent. <br> The wind will be high and storming about the time of new moon. <br> Dashes of rain and some St. Patrick's Day. |
|  | G.... Mo. Tut. Tut. Whe. Tri. Sat. Sat. | $\left\|\begin{array}{r} 612 \\ 10 \\ 9 \\ 7 \\ 5 \\ 3 \\ 3 \end{array}\right\|$ | 6 <br> 6 <br> 5 <br> 7 <br> 8 <br> 8 <br> 9 <br> 11 <br> 13 | $\begin{array}{r} 12 \\ 10 \\ 9 \\ 9 \\ 6 \\ 5 \\ 3 \\ 1 \end{array}$ | $\begin{array}{r} 66 \\ 8 \\ 8 \\ 9 \\ 112 \\ 12 \end{array}$ | 0  <br> 0 39 <br> 0 15 <br> North.  <br> 0  <br> 0 31 <br> 0 85 <br> 1 19 <br> 1 19 <br> 1 42 |  | -ith Sunday in Lent. <br> In the west not much prospect of settled weather, but the sun oecasionally smiles with warmth and much of winter disappears. |
|  | G. <br> Mo. <br> Tues. <br> Tued. <br> Wed. <br> Trut. <br> Fri. <br> Sat. <br> Sal | 5 590 55 55 58 58 50 48 48 | 1815 186 17 18 18 29 21 20 | 600 558 56 54 53 51 49 | 614 16 17 18 20 21 21 | $\begin{array}{cc} 2 & 6 \\ 2 & 6 \\ 2 & 29 \\ \frac{2}{3} & 63 \\ 3 & 16 \\ 3 & 39 \\ 4 & 3 \\ 4 & 3 \\ 4 & 26 \end{array}$ | $\begin{array}{cc} 9 & 5 \\ 11 & 5 \\ \text { Morn. } \\ 0 & 0 \\ 0 & 2 \\ 1 & 2 \\ 1 & 54 \\ 2 & 58 \end{array}$ | sth Sunday in Lent and Anuunciation of V.M. Hard frosts continue to the East, but the end of the aring like. |

Maren-It is a conceded fact, that 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 can 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 other business conducted on such principles, can never pay, either in pleasure or in profit. Nature is bountiful, but demands human exertion.
1860.] MEMORANDUM FOR MARCH. 9

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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 these who are going down hill in their cirenmstances, or are just keeping their heads above water, should not easily find out the canse. 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.
1860.] MEMORANDUM FOR APRIL. 11

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| Moon's Phases. |  | Montroal, | Kingston. | Toronto. | London. | Sun on Meridian. |  |  |
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|  | d. | h. m. | h. m. | h. m. | h. m. | d. |  |  |
| Full Moon. | 5 | ${ }_{2}^{2} 88 \mathrm{raO}$. | 156 mo . | 1484 mo , | ${ }_{1}^{13680 .}$ | 1 | 11 | [6653 <br> 56 <br> 8 |
| pw MIom. | 20 | ${ }_{1}^{2} 52 \mathrm{et}$. | 210 ev , 1 | 1288 ev . |  | 17 | 11 | 56 56 56 |
| First Quartêr. | 27 | 311 ev . | 259 ev . | 247 cv . | 139 ev . | 25 |  | $30 \quad 42$ |


| Days. |  | Montreal. |  | Toronto. |  |  | The Moon <br> R. \& S . | Calendar, Aspeets, \&c. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | Wee |  | Sun Sets. | Sun Rises. | $\begin{array}{\|l} \text { Sun } \\ \text { Sets. } \end{array}$ |  |  |  |
|  | Tues. Wed. Thu. Fri. Sat. | $\begin{gathered} \text { h. m. } \\ 454 \\ 534 \\ 551 \\ 50 \\ 59 \\ 49 \end{gathered}$ | $\left.\begin{array}{\|cc\|} \hline \mathrm{h} . & \mathrm{m} . \\ 7 & 0 \\ 1 \end{array} \right\rvert\,$ | $\left\|\begin{array}{r} \mathrm{h} . \mathrm{m} . \\ 458 \\ 57 \\ 55 \\ 54 \\ 53 \end{array}\right\|$ | $\begin{gathered} \mathrm{h} . \mathrm{m} . \\ 656 \\ 57 \\ 59 \\ 709 \end{gathered}$ | $\left\|\begin{array}{cc} \text { Deg. } & \text { Min. } \\ 15 & 17 \\ 15 & 35 \\ 15 & 53 \\ 16 & 10 \\ 16 & 27 \end{array}\right\|$ | $\begin{array}{\|l\|l} \hline \text { h. m. } \\ 2 & 38 \\ 3 & 2 \\ 3 & 28 \\ 3 & 28 \\ 8 & 59 \\ \text { Rises. } \end{array}$ | St. Philip and St. James. <br> The weather will be somewhat changeable in the beginning of this month, but on the whoie tine. |
| $\begin{array}{r} 7 \\ 7 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \end{array}$ | Gi. Mon. Tues. Wed. Thu. Fri. Sat. | $\begin{array}{r} 447 \\ 45 \\ 43 \\ 41 \\ 40 \\ 39 \\ 37 \end{array}$ | $\begin{array}{r} 77 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \end{array}$ | $\left\|\begin{array}{r} 451 \\ 49 \\ 48 \\ 47 \\ 466 \\ 45 \\ 44 \end{array}\right\|$ | 7 | $\begin{array}{ll} 16 & 44 \\ 17 & 60 \\ 17 & 17 \\ 17 & 39 \\ 17 & 48 \\ 18 & 3 \\ 18 & 18 \end{array}$ | $\left\lvert\, \begin{array}{rr} 9 & 16 \\ 10 \\ 10 & 17 \\ 11 & 7 \\ 11 & 47 \\ \text { moon. } \\ & 19 \end{array}\right.$ | Fiue weather yet. <br> Threatens rain. <br> Unsteady weather. <br> Probably fair. <br> The spring has opened cheerfully. Pleasant. |
| $19$ | $\begin{aligned} & \text { G. } \\ & \text { Moo. } \\ & \text { Tues. } \\ & \text { Wed. } \\ & \text { Thu. } \\ & \text { Fri. } \\ & \text { Sat. } \end{aligned}$ | $\begin{array}{r} 436 \\ 34 \\ 33 \\ 32 \\ 31 \\ 30 \\ 29 \end{array}$ | $\begin{array}{r} 715 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \end{array}$ | $\left\lvert\, \begin{gathered} 442 \\ 41 \\ 40 \\ 39 \\ 38 \\ 37 \\ 36 \end{gathered}\right.$ | 710 12 12 13 14 14 15 16 | $\begin{array}{ll} 18 & 83 \\ 18 & 48 \\ 19 & 2 \\ 19 & 16 \\ 19 & 29 \\ 19 & 42 \\ 19 & 55 \end{array}$ | $\begin{array}{lll} 1 & 6 \\ 1 & 20 \\ 1 & 47 \\ 2 & 47 \\ 2 & 5 \\ 2 & 28 \\ 2 & 51 \\ 3 & 21 \end{array}$ | Between last Quarter and New Moon there will be rain and in <br> Asconsion Day. <br> somn parts of Canada a good deal of it. |
| $20$ | G. Mon. Tues. Wed. Thu. Fri. Sat. | $\begin{array}{r} 428 \\ 27 \\ 27 \\ 26 \\ 25 \\ 24 \\ 21 \\ 28 \end{array}$ | $\begin{array}{r} 723 \\ 23 \\ 24 \\ 25 \\ 27 \\ 27 \\ 29 \\ 29 \end{array}$ | $\begin{array}{r} 435 \\ 34 \\ 33 \\ 32 \\ 31 \\ 31 \\ 30 \end{array}$ | 77 79 20 21 22 23 24 | 20 7 <br> 20 20 <br> 20 31 <br> 20 43 <br> 20 54 <br> 21 4 <br> 21 15 | Sets. 8 9 98 94 10 11 11 14 14 Morn. M | Cannot promise a chang for settled fair weather. ria. b. 1819 <br> Birth day of Queen Vieto Chilly nights throughout the country. |
| $\begin{aligned} & 27 \\ & 28 \\ & 29 \\ & 30 \\ & 31 \end{aligned}$ | G. <br> Mon. <br> Tues. <br> Wed. <br> Thu. | $\begin{array}{r} 422 \\ 21 \\ 21 \\ 20 \\ 20 \\ 20 \end{array}$ | $\begin{aligned} & 30 \\ & 31 \\ & 32 \\ & 33 \\ & 34 \end{aligned}$ | $\begin{array}{r} 429 \\ 98 \\ 28 \\ 27 \\ 27 \end{array}$ | 725 25 96 26 27 | $\begin{array}{lc} \begin{array}{ll} 21 & 25 \\ 21 & 34 \\ 11 & 44 \\ 21 & 41 \\ 21 & 62 \\ 22 \end{array} \end{array}$ | $\begin{array}{ll}  & 16 \\ & 41 \\ 1 & 5 \\ 1 & 30 \\ 1 & 56 \end{array}$ | Whit Monday. Whit Tuesday. May ends very fi 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 easily paid, for profits are small. Discouragenent follows, and with it that want of energy and enterprise which are essential to success. Therefore, buy no more land than you can pay for, without detracting from other claims.
1860.] memorandum for may. 13

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6th Montit.
Begins on Priday:

| Moon's Phases. |  | Mowtreal. | Kingston. | Toronto. | London. | Sun on Meridian. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | d. | t. m. | h. m. | h.m. | h. $\mathrm{m}_{\text {t }}$ |  | h. |  |  |
| Full Moon,...... | 3 | 1188230. | 1140 mo . | 1128 mo . | 1120 mo | $\frac{1}{9}$ | 11 |  | 35 59 |
| New Moon, ..... | 19 | $810 \mathrm{mio}$. 030 mo 8 | 7 788 mos 0 0 | , 787 mog | 739 mo <br> 11 <br> fs | 17 | ${ }_{13}^{11}$ |  | ${ }^{59}$ |
| First Quarter, . | 25 | 742 ev . | 730 ev . | 719 ev . | 711 ev . | 25 | 12 | 2 |  |


| Days. |  | Montreal. |  | Toronto. |  | Sun's <br> Declinat. <br> North. | The <br> Moon. <br> R. \& S. | Calendar, Aspieots, *c. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4. | Week. | Sun Rises. | $\begin{array}{\|l\|l} \text { Sun } \\ \text { Sets. } \end{array}$ | Sun Rises. | $\begin{array}{\|l} \text { Sun } \\ \text { Sets, } \end{array}$ |  |  |  |
| $\begin{aligned} & \mathbf{1} \\ & \mathbf{2} \end{aligned}$ | $\begin{aligned} & \text { Fri. } \\ & \text { Sat. } \end{aligned}$ | $\begin{aligned} & \overline{\text { h. m }} \\ & 420 \\ & { }_{20} \end{aligned}$ | $\begin{aligned} & \mathrm{h} \cdot \mathrm{~m} \\ & 734 \\ & 86 \end{aligned}$ | $\begin{aligned} & \text { h. m. } \\ & 427 \\ & 27 \end{aligned}$ | $\begin{gathered} \overline{\mathrm{h} . \mathrm{m}} \\ 728 \\ 29 \end{gathered}$ | $\begin{array}{cc} \hline \operatorname{Deg} . & \text { Min } \\ 22 & 9 \\ 22 & 11 \end{array}$ | $\begin{array}{ll} \hline \mathrm{h} . & \mathrm{m} \\ { }_{2} & 28 \\ 3 & 6 \end{array}$ | June enters changeably disposed, but after |
| $\begin{aligned} & 3 \\ & 4 \\ & 5 \\ & 5 \\ & 6 \\ & 7 \\ & 8 \\ & 9 \end{aligned}$ | a.... Mon. Tues. Wed. Thu. Fri. Sat. | 119 19 18 17 17 17 17 | 737 37 38 39 40 40 41 | 24 426 25 24 24 24 24 24 | 730 31 31 39 32 34 -34 | $\begin{array}{ll}22 & 24 \\ 22 & 37 \\ 23 & 44 \\ 22 & 49 \\ 22 & 85 \\ 23 & 0 \\ 23 & 4\end{array}$ | $\begin{array}{cc}\text { Rises. } \\ 8 & 58 \\ 9 & 49 \\ 10 & 18 \\ 10 & 45 \\ 11 & 9 \\ 11 & 30\end{array}$ | Trinity Eunday. <br> it becomes very pleasant, warm, and promising for good hay. [DIEU, Corpus Christi, Frtis Crops for 1860, much better than 1859. |
| $\begin{aligned} & 70 \\ & 10 \\ & 18 \\ & 18 \\ & 14 \\ & 15 \\ & 16 \end{aligned}$ | G.a. Mon. Mon. Tues. Wed. Thu. Fri. Sat. | 1717 17 16 16 16 16 16 | $\begin{array}{r} 742 \\ 42 \\ 43 \\ 43 \\ 43 \\ 44 \\ 44 \end{array}$ | 174 24 23 23 23 23 23 23 | 735 78 36 37 37 38 38 38 | $\begin{aligned} & 33 \\ & 93 \\ & 23 \\ & \hline 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \end{aligned}$ | $\begin{array}{rr} \text { M19 } \\ \text { Morn. } \\ 10 \\ & 30 \\ & 62 \\ 1 & 21 \\ 1 & 54 \end{array}$ | 1st Sunday after Trinity. <br> St. Barnabas. <br> Changeable. <br> More settled. <br> Very pleasant. <br> Look out for a June frost but not as |
| $\begin{aligned} & 17 \\ & 18 \\ & 19 \\ & 20 \\ & 21 \\ & 22 \\ & 23 \end{aligned}$ | G. Mon. Tues. Wed. Thu. Pri. Sat. | 416 16 16 16 16 17 17 | $\begin{aligned} & 745 \\ & 46 \\ & 46 \\ & 46 \\ & 47 \\ & 47 \\ & 47 \end{aligned}$ | $\begin{gathered} 423 \\ 43 \\ 23 \\ 23 \\ 23 \\ 24 \\ 23 \\ 25 \end{gathered}$ | $\begin{array}{r} 739 \\ 39 \\ 39 \\ 40 \\ 40 \\ 40 \\ 39 \end{array}$ | $\begin{aligned} & 2328 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 27 \\ & 27 \\ & 23 \\ & 23 \\ & 28 \\ & 28 \end{aligned}$ | $\begin{array}{cc} 2 & 35 \\ 3 & 36 \\ \text { Sets. } \\ 9 & 10 \\ 9 & 10 \\ 10 & 48 \\ 10 & 18 \\ 10 & 45 \end{array}$ | 2nd Sunday aftor Trinity. general or severe as that in June 1859. <br> Warm and showery. Some distant thunder. And no wonder. Very warm and sultry. |
| $\begin{aligned} & 24 \\ & 25 \\ & 26 \\ & 27 \\ & 28 \\ & 29 \\ & 30 \end{aligned}$ | G.... Mon. Tues. Wed. Thu. Pri. Sat. | 418 18 18 18 19 19 20 20 | 747 74 46 46 46 46 46 46 | $\begin{array}{r} 425 \\ 25 \\ 26 \\ 26 \\ 26 \\ 27 \\ 27 \\ 27 \end{array}$ | 39 39 39 39 39 38 38 | $\begin{aligned} & 28 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 33 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \\ & 23 \end{aligned}$ | $\begin{array}{rr}11 & 10 \\ 11 & 34 \\ 11 & 59 \\ \text { Morn. } \\ 1 & 29 \\ 1 & 4 \\ 1 & 48\end{array}$ | 3rd Sunday after Trin. and Nativity Bt. J. Baptibt. <br> You may look for warm and delightful weather and <br> Sts. Peter and Paul June ends cheerfully, |

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 hoeing 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 bushele less on his acre than the farmer who took time by the forelock and hoed early.

| Moon's Phases. |  |  |  | Montreal. | Kingston. |  | Toron | London. Sunon Meridian. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Full Moon Last Quarter, New Moon, First Quarter, |  |  | $\begin{array}{l\|l} \text { d. } & h \\ 2 & h \\ 11 & 1 \\ 18 & \\ 25 & \end{array}$ |  |  |  |  |  | $\left\lvert\, \begin{gathered} \mathbf{c}^{2} \\ 1 \\ 1 \\ 17 \\ 17 \\ 25 \end{gathered}\right.$ | h $\mathbf{m}$ $\mathbf{s}$. <br> $\mathbf{1 2}$ 3 35 <br> 12 4 56 <br> 19 5 51 <br> 12 6 13 |
|  | Ays. | Montreal. |  | Toronto. |  | Sun's Declinat. | $\begin{array}{\|c\|c} \text { The } \\ \text { Moon. } \end{array}$ | Calendar, Aspects, \&o. |  |  |
| M, | Week. | Sun Rises. | $\begin{aligned} & \text { Sun } \\ & \text { Sets. } \end{aligned}$ | $\begin{array}{l\|l} \text { n } & \begin{array}{c} \text { Sun } \\ \text { Rises. } \end{array} \\ \hline \end{array}$ | $\begin{aligned} & \text { Sun } \\ & \text { Sets, } \end{aligned}$ | North. | E. \& B. |  |  |  |
| $\begin{aligned} & 6 \\ & 7 \end{aligned}$ | G. <br> Mon. <br> Tues. <br> Wed. <br> Thu, <br> Sat. | $\begin{array}{\|c} \mathrm{h} . \mathrm{m}, \\ 420 \\ 21 \\ 22 \\ 23 \\ 23 \\ 23 \\ 24 \\ 25 \end{array}$ | $\begin{array}{r} \mathrm{h} . \mathrm{m} . \\ 7 \\ \hline 46 \\ 46 \\ 46 \\ 45 \\ 45 \\ 44 \\ 46 \end{array}$ |  | $\begin{gathered} \hline \mathbf{h}_{\mathbf{1}} \mathbf{m}, \\ \mathbf{7} 89 \\ 39 \\ 39 \\ 38 \\ 39 \\ 88 \\ 38 \end{gathered}$ |   <br> Deg. Min. <br> 23 4 <br> 23 0 <br> 22 55 <br> 22 50 <br> 22 44 <br> 22 38 <br> 22 31 |  | 4th Sund July heat, bu and no about the very enco |  | Trinity. <br> ith strong whole the will be fair eed be felt They are g. But be- |
| $\begin{gathered} \dddot{8} \\ 9 \\ 10 \\ 11 \\ 18 \\ 13 \\ 14 \end{gathered}$ | …. <br> Mon. <br> Tues. <br> Wed. <br> Thut. <br> $\underset{\text { Fri. }}{ }$ <br> Sat. | $\begin{array}{r} 66 \\ 27 \\ 28 \\ 28 \\ 29 \\ 30 \\ 31 \end{array}$ | $\begin{array}{r} 741 \\ 41 \\ 43 \\ 43 \\ 42 \\ 41 \\ 41 \end{array}$ | $\begin{array}{c\|c} \hline 4 & 43 \\ \hline & 34 \\ 3 & 34 \\ 3 & 34 \\ 2 & 34 \\ 1 & 35 \\ 1 & 35 \end{array}$ | $\begin{array}{r} 737 \\ 36 \\ 36 \\ 36 \\ 85 \\ 34 \\ 34 \end{array}$ | 22 25 <br> 22 17 <br> 22 10 <br> 22 2 <br> 21 53 <br> 21 45 <br> 21 35 | $\begin{aligned} & 1012 \\ & 1032 \\ & 1054 \\ & 1119 \\ & 1119 \\ & \text { Morn. } \\ & 0268 \end{aligned}$ | 亏̈th Sunn fore the will bo lightenin and show |  | Trinity. oon there nder and of wind, n. |
| $\begin{aligned} & \text { 7̈ } \\ & 16 \\ & 17 \\ & 18 \\ & 19 \\ & 20 \\ & 21 \end{aligned}$ | $\begin{aligned} & \text { G.... } \\ & \text { Mon } \\ & \text { Tues. } \\ & \text { Wed, } \\ & \text { Thu. } \\ & \text { Fri. } \\ & \text { Sat. } \end{aligned}$ | $\begin{array}{r} 432 \\ 33 \\ 33 \\ 34 \\ 35 \\ 35 \\ 36 \end{array}$ | $\begin{array}{r} 741 \\ 40 \\ 39 \\ 38 \\ 37 \\ 36 \\ 35 \end{array}$ |  | $\begin{aligned} & 32 \\ & 32 \\ & 32 \\ & 30 \\ & 30 \\ & 99 \\ & 29 \end{aligned}$ | $\begin{array}{ll} 21 & 20 \\ 21 \\ 21 & 16 \\ 20 \\ 20 & 65 \\ 20 & 44 \\ 20 & 83 \\ 20 & 21 \end{array}$ | $\begin{array}{ll} 112 \\ 2 & 10 \\ 3 & 18 \\ \text { Sets. } \\ 8 & 19 \\ 8 & 48 \\ 9 & 14 \end{array}$ | A chang tled week. some rain Make ha Work at your pay. | cal | Trinity. and unset $t$ prevsil. ds. o you may shall have |
| $\begin{aligned} & \ddot{22} \\ & 93 \\ & 24 \\ & 25 \\ & 26 \\ & 27 \\ & 27 \\ & 28 \end{aligned}$ | Gon. Mues. Wed. WWu. Tri. Frit. | $\begin{array}{r} 437 \\ 38 \\ 39 \\ 40 \\ 41 \\ 41 \\ 42 \\ 43 \end{array}$ | $\begin{array}{r} 731 \\ 33 \\ 32 \\ 31 \\ 30 \\ 30 \\ 28 \end{array}$ |  | $\begin{array}{r} 728 \\ 27 \\ 26 \\ 25 \\ 24 \\ 23 \\ 22 \end{array}$ | $\begin{array}{cc} 20 & 9 \\ 19 & 57 \\ 19 & 44 \\ 19 & 31 \\ 19 & 18 \\ 19 & 4 \\ 18 & 50 \end{array}$ | $\begin{gathered} 98 \\ 104 \\ 10 \\ 108 \\ 11 \\ 1134 \\ \text { Morn. } \\ 033 \end{gathered}$ | After <br> througho <br> St, JAM <br> the weat <br> Hot an | er w | Trinity. <br> Moon and <br> rst quarter <br> be variable |
| $\begin{aligned} & \ddot{90} \\ & 30 \\ & 31 \end{aligned}$ | $\begin{aligned} & \text { G. } \\ & \text { Mon. } \\ & \text { Tues. } \end{aligned}$ | $\begin{array}{r} 441 \\ 46 \\ 47 \end{array}$ | $\begin{array}{r} 72 \\ \hline 26 \\ 25 \end{array}$ | $\begin{array}{r\|r} 7 & 4 \\ 7 & 50 \\ 6 & 51 \\ 5 & 52 \\ \hline \end{array}$ | 721 21 20 20 | $\begin{array}{ll} 18 & 36 \\ 18 & 21 \\ 18 & 7 \end{array}$ | $\begin{array}{ll} 129 \\ 2 & 32 \\ 3 & 39 \end{array}$ | $\begin{gathered} 8 \ddot{h} \text { Sund } \\ \text { Hot an } \\ \text { Some r } \end{gathered}$ |  | Trinity. under. |

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 field 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. Snbsoil plowing is also very beneficial, and may be repeated to great advantage, as the sub-soil gradually settles again.


8th Mosirs. AUEUST, 31 Days. Begins on Wednésday.


| DAYS. |  | Montreal. |  | Toronto. |  | Sun's Declinat. | $\begin{aligned} & \text { The } \\ & \text { Moon } \end{aligned}$ | Calendar, Aspeots, \&c. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | Week. | Sun Rises. | Sun Sets. | Bun Rises. | Sun Sets. | North. | R. \& S. |  |
|  |  | h. m. | h. m. | h. m. | h. $m$. | Deg. Min. | h. m, |  |
| 8 | Wed. Thu. | 448 | 724 | 454 | 718 | $\begin{array}{ll}17 & 51 \\ 17 & 38\end{array}$ | Rises, | C |
| 3 | Fri. | 51 | 21 | 56 | 16 | 17 <br> 17 <br> 00 | 758 | Unsettled for some days, |
| 4 | Sat. | 52 | 20 | 57 | 15 | 174 | $8 \quad 17$ | Heat and thunder. |
| 5 | G. | 453 | 719 | 58 | 714 | 1648 | - $8 \quad 37$ | 9th Sunday after Trinily. |
| 6 | Mon. | 55 | 17 | 59 | 13 | $16 \quad 31$ | $8 \quad 57$ | More settled, and the pros* |
| 7 | Tues, | 56 | 16 | 50 | 12 | 1615 | 921 | peets for harvesting sare |
| 8 | Wed. | 57 | 14 | 1 | 10 | $15 \quad 57$ | $\begin{array}{lll}9 & 47\end{array}$ | far better than on the |
| 9 | Thu. | 58 | 12 | 2 | 8 | 1540 | 1020 | first, Fair and fine. No |
| 10 | Fri. | 59 | 11 | 3 | 7 | $15 \quad 23$ | 11. 2 | reason for complain |
| 11 | Sat, | 51 | 9 | 5 | 6 | $15 \quad 5$ | 1153 |  |
| 12 | G. | 52 | 78 | 56 | 74 | 1417 | Morn. | 19th Sunday afler Trinity. |
| 13 | Mon. | 3 |  |  | 3 | 14.28 | . 55 | This week will be agreeable |
| 14 | Tues. | , | 5 | 8 | 1 | 1410 | 25 | and fine. |
| 15 | Wed. | 5 | 3 | 9 | 659 | $1351{ }^{\prime}$ | $3 \quad 23$ | Some heat, but not what |
| 16 | Thu. | 6 | 2 | 10 | 58 | 1832 | Sets. | has been felt. |
| 17 | Fri. | 7 | 1 | 11 | 57 | $13 \quad 13$ | 713 | Seasonable weather. |
| 18 | Sat. | 8 | 659 | 12 | 56 | $12 \mathrm{B8}$ | 740 | No rain to-day. |
| 19 | G. | 59 | 657 | 513 | 654 | 1234 | 86 | I1th Sunday after Trinity. |
| 20 | Mon. | 11 | 55 | 14 | 52 | 1215 | 834 | I fear the rain this week |
| 21 | Tues. | 12 | 54 | 16 | , 50 | 1154 | 96 | will spoil the prospects |
| 22 | Wed. | 18 | 52 | 17 | 49 | 1138 | 944 | of a few grain fields. But |
| 23 | Thu. | 14 | 50 | 18 | 47 | 1113 | $10 \quad 31$ | it will not be of long cou- |
| 24 | Fri. | 16 | 48 | 19 | 46 | $10 \quad 52$ | 1125 | St, Bartholonero. |
| 25 | Sat. | 18 | 46 | 20 | 44 | $10 \quad 32$ | Morn. | tinuan |
| 96 | G. | 519 | 645 | 521 | 643 |  | 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 | 28 | 36 | 846 | 4.43 | But the month ends agree- |
| 31 | Fri. | 24 | 36 | 27 | 34 | 826 | Rises. | ably. |

Avgugr.-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 then 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. TVhether these substances are mixed directly with manure, or eaten first by animals, they produce their relative effects.



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## 9th Montr. SEPTEMBERE, 30 Days. Begins on Saturday.

| Moon's Phases. |  | Montreal. | Kingston. | Toronto. | London. | Sun on Meridian. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | d. | h. m. | h. m. | h. m. | h. m. | d. |  | m . |  |
| LastQuarter, ... | 8 | ${ }^{6} 13 \mathrm{mo}$. | $\begin{array}{ll}6 & 1 \\ 1 & \mathrm{mo}\end{array}$ | 550 mo . | 542 mo | 1 |  |  |  |
| New Moon,...... | 15 | 115 mo . | 13 mo . | 052 mo . | 044 mo . | 9 |  | 57 | 0 |
| First Quarter,... | 21 | 631 ev . | ${ }_{6} 619 \mathrm{ev}$. | ${ }_{6} 7 \mathrm{7} \mathrm{ev}$. | 559 ev . | 17 |  | 54 | 18 |
| Fuil Moon, ....... | 29 | 846 ev . | 834 ev . | 822 ev . | 814 ev . | 25 |  | 51 |  |


| Days. |  | Montreal. |  | Toronto. |  | $\left\|\begin{array}{c} \text { Sun's } \\ \text { Declinat. } \end{array}\right\| \begin{gathered} \text { North. } \end{gathered}$ | The <br> Moon. <br> R. \& S. | Calendar, Aspects, \&c. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M. | Week. | Sun | Sun <br> Sets | $\underset{\text { Rises }}{\text { Sun }}$ | $\begin{aligned} & \text { Sun } \\ & \text { Sets. } \end{aligned}$ |  |  |  |
| 1 | Sat | $\begin{aligned} & \text { h. m. } \\ & 528 \end{aligned}$ | $\mathrm{h} . \mathrm{m} .$ | $\frac{\mathrm{h} . \mathrm{m}}{58}$ | $\begin{aligned} & \text { h. m. } \\ & 632 \end{aligned}$ | $\operatorname{Deg}_{8,} . \underset{2}{\text { Min. }}$ | $\underset{643}{\mathrm{~h}} \mathrm{~m}_{4}$ | Very |
| $\begin{aligned} & 3 \\ & 4 \end{aligned}$ | G. <br> Mon. <br> Tues. <br> Wed. <br> Thu. <br> Fri. Sat. | $\begin{array}{r} 528 \\ 599 \\ 30 \\ 31 \\ 39 \\ 33 \\ 35 \end{array}$ | $\begin{array}{r} 632 \\ 30 \\ 28 \\ 28 \\ 26 \\ 24 \\ 23 \\ 21 \end{array}$ | $\begin{array}{r} 530 \\ 31 \\ 32 \\ 33 \\ 34 \\ 35 \\ 38 \end{array}$ | $\begin{array}{r} 629 \\ 28 \\ 26 \\ 25 \\ 23 \\ 23 \\ 21 \\ 20 \end{array}$ | 7 4 <br> 7 18 <br> 6 18 <br> 6 54 <br> 6 34 <br> 6 $11-$ <br> 5 49 <br> 5 26 | $\begin{array}{rr} 7 & 24 \\ 7 & 50 \\ 8 & 21 \\ 8 & 58 \\ 9 & 43 \\ 10 & 39 \end{array}$ | isth Sinday after Trinity. Good weather continues and most of this week is pleasant. <br> Toward the end and through the moon's last quarter disposed to rain. |
| $\begin{aligned} & 10 \\ & 11 \\ & 12 \\ & 13 \\ & 14 \\ & 15 \end{aligned}$ | G, Mon. Tues. Wed. Thu. Pri. Sat. | $\begin{array}{r} 536 \\ 37 \\ 39 \\ 89 \\ \times 42 \end{array}$ | $\begin{array}{r}619 \\ 17 \\ 16 \\ 14 \\ 12 \\ 120 \\ \hline 10\end{array}$ | $\begin{array}{r} 537 \\ 38 \\ 39 \\ 40 \\ 41 \\ 42 \\ 43 \\ 43 \end{array}$ | $\begin{array}{r} 618 \\ 16 \\ 15 \\ 13 \\ 11 \end{array}$ | $\begin{array}{lll}5 & 3 \\ 4 & 31 \\ 4 & 41 \\ 4 & 18 \\ 3 & 55 \\ 3 & 32 \\ 3 & 9 \\ 2 & 9\end{array}$ | $\begin{gathered} 1144 \\ \text { Morn } \\ 57 \\ 8{ }^{2} 14 \\ 3 \quad 32 \end{gathered}$ | 14eth 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 uight frost of severity. |
| $\begin{aligned} & 17 \\ & 18 \\ & 19 \\ & 20 \\ & 21 \\ & 22 \end{aligned}$ | G. Mon. <br> Tues. <br> Wed. <br> Thu. <br> Sat, | 545 48 48 49 50 51 52 | $\begin{array}{rr} 6 & 6 \\ 4 \\ 4 & 2 \\ 6 & 0 \\ 5 & 58 \\ 56 \\ 56 \end{array}$ | $\begin{array}{r} 545 \\ 46 \\ 47 \\ 48 \\ 49 \\ 50 \\ 52 \end{array}$ | $\left.\begin{array}{r} 1 \\ 5 \\ 557 \\ 56 \\ 54 \\ 54 \end{array} \right\rvert\,$ | $\begin{array}{cc}2 \\ 2 & 22 \\ 1 & 59 \\ 1 & 36 \\ 1 & 12 \\ 0 & 49 \\ 0 & 49 \\ 0 & 29 \\ 0 & 2\end{array}$ | $\begin{array}{rr} 6 & 33 \\ 7 & 9 \\ 7 & 41 \\ 8 & 26 \\ 9 & 16 \\ 10 & 18 \\ 11 & 20 \end{array}$ | isth Sunday after qrinity. Weather fair and fine. Again changeable. Not disagrecable. Rather pleasant. St. Mathero. Rain and wind. |
| $\begin{aligned} & 24 \\ & 25 \\ & 25 \\ & 23 \end{aligned}$ | G. Mon. Mus. Ted. Wed. Tri. Fri. Sat. | $\begin{array}{r} \begin{array}{r} 544 \\ 56 \\ 56 \\ 57 \\ 59 \\ \mathbf{6} 00 \end{array}, ~ \end{array}$ | 554 52 50 48 46 44 42 | $\begin{array}{r} 552 \\ 53 \\ 54 \\ 55 \\ 57 \\ 59 \\ 600 \end{array}$ | $\begin{array}{r} 552 \\ 50 \\ 49 \\ 47 \\ 45 \\ 43 \\ 40 \\ 40 \end{array}$ | $\begin{array}{cc}\text { South. } \\ 0 & 44 \\ 1 & 74 \\ 1 & 30 \\ 1 & 54 \\ 2 & 17 \\ 2 & 17 \\ 2 & 40\end{array}$ |  | ích' Sunday after Trinity. Settled and fine. <br> If wind be South or S. W. there will be rain toward the end of the month, and by the moon's full. <br> St. Michael and all Angels. |
| 30 | G. | 6 | 540 | 61 | 539 | 254 |  | īth Sunday after Trinity. |

September.-A bit of good advice is here:-To prevent confusion and -embarrassment, and keep af things̀ clearly ànd plainly before the farmer at the right time, he should carry a small book in his pocket, having every item of work for each week or each half-week laid down before his eyes. Any proposed improvements can be noted down on the right page. Interesting experiments, suggested in the course of reading and observation, may be thus noted down in their pruper 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.

| day. | 1860.] MEMORANDUM FOR BEPTEMbER. |
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10th Можтн. OCTMBEIR, 31 Dayg: Begins on Monday.

| Moon's Plases, |  |  |  | Montreal | Ki | ngston. |  | loronto. | London. | Sun | Meridian, |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Last Quarter,.... d $_{7}$  <br> New Moon...... 14  <br> First Quarter...... 21  <br> Fuil Moon,...... 29  |  |  |  | n. $\mathbf{6}$ m 11 <br> $9 \quad 43 \mathrm{~m}$ <br> 916 mo <br> $\mathbf{1}$ <br> 916 m 156 ev |  | $\begin{aligned} & n . \\ & 59 \mathrm{ev} . \\ & 31 \mathrm{IV}, \\ & 4 \mathrm{mog} . \\ & 4 \mathrm{ev} . \end{aligned}$ |  | m. . 47 ev 20 mo. $32 . \mathrm{ev}$. | $\begin{aligned} & \hline \mathrm{h} . \mathrm{m} . \\ & 539 \mathrm{ev} . \\ & 912 \mathrm{mo} . \\ & 845 \mathrm{mov} . \\ & 124 \mathrm{ev} . \end{aligned}$ | d. 1 9 17 25 | $\mathbf{h}$ $\mathbf{m}$ 8 <br> $\mathbf{1 1}$ 49 28 <br> 11 47 8 <br> 11 45 18 <br> 11 45 7 |
| Days. |  | Montreal. |  | Toronto. |  | Sun's Declinat. |  | The Moon. | Calendar, Aspects, *c. |  |  |
| M. | Week. | sun Rises. | $\begin{aligned} & \text { Sun } \\ & \text { Sets. } \end{aligned}$ | $\begin{gathered} \text { Sun } \\ \text { Rises, } \end{gathered}$ | $\begin{aligned} & \text { Sun } \\ & \text { Sets. } \end{aligned}$ | South. |  | R. \& S. |  |  |  |
| $\left.\begin{aligned} & 8 \\ & 4 \\ & 5 \\ & 6 \end{aligned} \right\rvert\,$ | Mon. Tues. Wed. Thu. Fri. Sat. | $\left.\begin{array}{\|r\|} \hline \text { h. m. } \\ \mathbf{6} \\ \hline \\ 4 \\ 5 \\ 7 \\ 8 \\ 9 \end{array} \right\rvert\,$ | $\begin{array}{\|r} \text { h. } \mathrm{m} . \\ 538 \\ 36 \\ 34 \\ 32 \\ 30 \\ 27 \end{array}$ | $\begin{array}{r} \mathrm{h} . \mathrm{m} . \\ 6 \\ \hline \\ 8 \\ 3 \\ 5 \\ 5 \\ 6 \\ 7 \end{array}$ | $\begin{array}{r} \mathrm{h} . \mathrm{m} . \\ 538 \\ 36 \\ 34 \\ 33 \\ 32 \\ 29 \end{array}$ | $\begin{array}{rlrl} \text { Deg. } & \text { Mi } \\ 3 & 27 \\ 3 & 50 \\ 4 & 14 \\ 4 & 147 \\ \hline & 37 \\ 5 & 6 \\ 5 & 23 \end{array}$ |  | $\begin{array}{ll} \hline \text { h. } & \text { m. } \\ 5 & 55 \\ 6 & 24 \\ 6 & 59 \\ 7 & 41 \\ 8 & 31 \\ 9 & 32 \end{array}$ | Octob santly, be gath ruption some not be a |  | very pleacrops may out interyou need |
| $\begin{array}{r} \dddot{7} \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \end{array}$ | G.... Mon. Tues. Wed. Thu. Yri. Sat. | 611 12 13 14 15 16 18 | 125 24 21 20 19 17 14 | $\begin{array}{r} 68 \\ 9 \\ 10 \\ 11 \\ 11 \\ 14 \\ 15 \end{array}$ | $\begin{array}{r} 527 \\ 26 \\ 24 \\ 29 \\ 20 \\ 20 \\ 19 \\ 17 \end{array}$ |  |  | 10 39 <br> 11 82 <br> Morn.  <br> 1 6 <br> 2 21 <br> 3 28 <br> 3 38 <br> 4 57 |  |  | Trinity. rough the er if the or Northnt. |
| $\begin{aligned} & 74 \\ & 15 \\ & 16 \\ & 17 \\ & 18 \\ & 19 \\ & 20 \end{aligned}$ | G.". Mon. Tues. Wed. Thu. Pri. Sat. | $\begin{gathered} \mathbf{6} 90 \\ 21 \\ 23 \\ 24 \\ 25 \\ 28 \\ 28 \end{gathered}$ | $\begin{array}{r} 819 \\ 9 \\ 7 \\ 5 \\ 4 \\ 8 \end{array}$ | $\begin{array}{r} 616 \\ 17 \\ 19 \\ 20 \\ 21 \\ 22 \\ 24 \end{array}$ | $\begin{array}{r} 515 \\ 13 \\ 18 \\ 9 \\ 9 \\ 6 \\ 6 \\ 5 \end{array}$ | $\begin{array}{rr} 8 & 25 \\ 8 & 47 \\ 9 & 9 \\ 9 & 31 \\ 9 & 58 \\ 10 & 14 \\ 10 & 36 \end{array}$ |  | $\begin{array}{rr} \text { Sets. } \\ 5 & 39 \\ 6 & 15 \\ 7 & 6 \\ 8 & 6 \\ 9 & 6 \\ 10 & 10 \end{array}$ | igth Sund Changea Some fro St. Luke Pleasant Dull wea Dull wea |  | Trinity t. |
| $\begin{aligned} & 2 \ddot{1} \\ & 22 \\ & 23 \\ & 24 \\ & 25 \\ & 26 \\ & 27 \end{aligned}$ | G. Mon. Tues. Wed. Thu. Fri. Sat. | $\begin{array}{r} 629 \\ 31 \\ 39 \\ 33 \\ 35 \\ 36 \\ 38 \end{array}$ | $\begin{array}{r} \mathbf{4 9} \\ 57 \\ 55 \\ 53 \\ 52 \\ 50 \\ 59 \end{array}$ | $\begin{array}{r} 697 \\ 27 \\ 98 \\ 29 \\ 30 \\ 31 \\ 32 \end{array}$ | $\begin{array}{r} 53 \\ 2 \\ 49 \\ 68 \\ 58 \\ 57 \\ 56 \\ 54 \end{array}$ | $\begin{array}{ll} 10 & 57 \\ 11 & 18 \\ 11 & 89 \\ 12 & 0 \\ 12 & 21 \\ 18 & 41 \\ 13 & 2 \end{array}$ |  | 1194 <br> Morn. <br> $0 \quad 27$ <br> 1 <br> 2 <br> 2 <br> 3 <br> 3 <br> 39 <br> 4 <br> 4 | 粏茄 You n variable, agreeable | this | or-Tvinity. for dull, nd not very onth. |
| $\begin{aligned} & 28 \\ & 29 \\ & 30 \\ & 31 \end{aligned}$ | G. <br> Mon. <br> Tues. | $\begin{array}{r} 639 \\ 41 \\ 42 \\ 43 \end{array}$ | $\begin{aligned} & 477 \\ & 46 \\ & 46 \\ & 45 \end{aligned}$ | $\begin{array}{r} 633 \\ 35 \\ 38 \\ 40 \end{array}$ | $\begin{array}{r} 453 \\ 52 \\ 50 \\ 48 \end{array}$ | $\begin{array}{ll} 13 & 28 \\ 13 \\ 14 & 42 \\ 14 & 1 \\ 14 \end{array}$ |  | $\begin{array}{rr}5 & 29 \\ \text { Rises. } \\ 5 & 1 \\ 5 & 41\end{array}$ |  | ros | Trinity and Jude and the |

Ocronke.-There are many things essential to good farm management. Some of the most obvious will be-capital enough to buy the farm and stock it well; to select a size compatible with these reguisites ; 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.

| onday. | 1860.] | MEMORANDUM FOR OCTOBER. 23 |
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| tain- | 30 |  |
| may | 31 |  |

11th Mónta. NO VEMIRER, 30 Days. Begins on Thursday.

| Moon's Phase |  | Montreal. | Kingston. | Toronto. | London. | Sun on Meridian. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{d}_{6}$ | h. m. | h. m. | h. m. | h. m. | d. | h. |  |  |
| Last Quar | ${ }^{6}$ | ${ }_{6} 23 \mathrm{mo}$ | 411 mo | 400 mo | 352 mo . | 1 | 11 |  |  |
| First Quarter,... | 20 | 7 359 mov . 3 | 47 mo . | 719 ev , 385 mo | 11 | 17 |  |  |  |
| Tuil \%inovin,...... | 28 | 646 mo | 632 mo . | 620 mo . | 612 mo . | 25 |  |  | 23 |



Novempsp.-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


Month. DECENIBER, B1 Days. Begins on Saturday.

| Moon's Phases. |  | Montreal. | Kingston. | Toronto. | London. | Sun on Meridian |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | d. | h. m | h.m. | h. m. | h. m. |  | h. |  |  |
| New Moon...... | 5 | 1784. | 055 ev . | 045 ev . | ${ }^{0} 35 \mathrm{ev}$. | 1 |  |  |  |
| Yirst Quarter,... | 20 | , | ${ }_{1}{ }_{1}^{48} \mathrm{mmo}$ \% | \% 731 mis. | 7 723 mo | 9 |  |  |  |
| Fuil Moon,....... | 27 | 1023 ev . | 1011 ev . | 1000 ev . | 952 ev . | 25 | 12 | 0 |  |


|  | Ays. | Montreal. |  | Toronto. |  | $\begin{gathered} \text { Sun's } \\ \text { Declinat. } \end{gathered}$ | $\begin{aligned} & \text { The } \\ & \text { Moon. } \end{aligned}$ | Calendar, Aspects, \&c. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M. | Week. | Sun Rises | $\begin{aligned} & \text { Sun } \\ & \text { Sets, } \end{aligned}$ | Sun Rises. | $\begin{array}{\|l} \text { Sun } \\ \text { Sets. } \end{array}$ | South. | R. \& 8 . |  |
| 1 | Sat. | ${ }_{7}^{\mathrm{h}} . \mathrm{m} .$ | h. m. $412$ | $\frac{\text { h. }}{7}{ }_{19}$ | ${ }_{4}^{\mathrm{h} . \mathrm{m} .}$ | $\begin{array}{\|c\|} \hline \operatorname{Deg}, ~ M i n . ~ \\ 21 \\ 56 \end{array}$ | ${ }_{7}^{\text {h. }} \mathrm{m} .$ | Generally pleasant. |
| $\begin{aligned} & 2 \\ & 3 \end{aligned}$ | Mo. | 728 28 28 | ${ }_{4}^{412}$ | 721 21 | 419 19 | $\begin{array}{ll}22 & 5 \\ 22 & 13\end{array}$ | $\begin{array}{lll}8 & 41 \\ 9 & 55\end{array}$ | 1 ist Sunday in Advent. |
| $4 .$ | Tues. | 29 | 11 | 22 | 18 | 2281 | 117 | Snow and wind. |
| 5 | Wed. | 30 | 11 | 24 | 18 | 2288 | Morn, | Sleighing in L. Cana |
| $6$ | Thu. | 31 | 11 | 25 | 17 | 2235 |  | Wait for it in U, Can |
| 7 | Fri. | 32 | 11 | 28 | 17 | 2242 | 132 | Weather now rather dis- |
| 8 | Sat. | 33 | 11 | 27 | 17 | 2248 | 247 | agreeable and stormy. |
| 9 | G. | 733 | 411 | 728 | 418 | 2254 |  | żd Sunday |
| 10 | Mon. | 35 | 11 |  | 18 |  | 521 | This week threatens to be |
| 11 | Tues. | 35 | 11 | 29 | 18 | 234 | 632 | indy, rainy and snow |
| 18 | Wed. | 36 | 11 | 30 | 18 | 23.9 | Sets. | Very mucht like winter |
| 18 | Thu. | 37 | 11 | 31 | 18 | 2312 | 539 | Keep cattle warm and |
| 1 | Fri. | 38 | 11 | 32 | 18 | 2316 | 649 | yourself too. |
| 15 | Sat. | 39 | 12 | 32 | 18 | 2319 | 787 |  |
| 176 | G. | 740 | 412 | 733 | 419 | 23 21 | 93 | 3rd Sunday in Advent. |
|  | Mon. | 41 | 13 | 33 | 19 |  | 10 | Generally fair for a few |
| 18 | Tues. | 42 | 12 | 34 | 20 | 2325 | 11 | days, and you will have real |
| 19 | Wed. | 42 | 13 | 36 | 20 | 2326 | Morn. | frost. |
| 20 | Thu. | 43 | 13 | 36 | 20 |  |  |  |
| 21 | Pri. | 43 | 14 | 37 | 20 | 2397 |  | St. Thomas. [have and re- |
| 20 | Sat. | 4 | 14 | 37 | 21 | 2387 |  | member the poor. |
| 23 | G. | 744 | 415 | 738 | 421 |  |  | Mïh Sunday in Adve |
| 24 | Mon. | 45 | 15 | 38 | 22 | 2385 | 411 | Prepare to pay your |
| $20$ | Tues. | 45 | 16 | 38 | 23 | 238 | 513 | Christmas Day. |
| 26 | Wed. | 45 | 16 | 38 | 24 | 2321 | 614 | St. Stephen |
|  | T u. | 45 | 17 | 38 | 24 | 2318 | Rises. | St. John the Evangelist. |
| $28$ | Fri. | 46 | 18 | 38 | 25 | 2315 |  | Holy Innoeents. |
| 99 | Sat. | 46 | 18 | 39 | 26 | 2311 | 631 | Forgive your enemies. |
| 30 |  | 747 |  |  |  |  |  |  |
| $\mathbf{3 1}$ | Mon. | 46 | 20 | 39 | 27 | 23 | 857 | Very fine day. |

Degember.-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 qufet all round Calves are too much neglected, ind come out small and puny in spring. A good 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 supplled with good watef, and they will present a good and sleek appearance in spring.


## ©he chonal family.

THE QUEEN.
$V_{\text {reroria, }}$ 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 30th, 1837 ; Proclaimed June 21st, 1837; Crowned June 28th, 1838 ; Married February 10th, 1840, to Field Marshal His Royal Highness Prince Albert Augustus Charles Emanuel, Prince of Saxe Cobourg and Gotha, Knight of the Most Noble Order of the Garter, \&c., \&c., \&c. issur:
Victoria Adelaide Mary Louisa (Princess Royal) born November 21 st. 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 25tb, 1846.
Louise Caroline 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, Duchess of Kent, daughter of Francis, Duke of Saxe Cobourg, born August 17th, 1788 ; 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 27th, 1819.
George, Duke of Oambridge, born March 26th, 1819.
Princess Augusta, (Duchess of Meeklenberg Strelitz), born July 19th, 1822.

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

## CANADA.

## THE GOVERNOR GENERAL, Aides-de-Camp, \&c.

Sir Edmund Walegr Head, Bart., Governor General of British North America, and Captain General and Governor-in-Chief of the Provinces of Canada, New Brunswick, Nova Scotla, and the Island of Prince Edward, \&c., de.<br>R. T. Pennefather, Governor General's Secretary.<br>Captain Rettallack, 63rd Regiment, Military Secretary and Aide-doCamp.<br>Colonel Irvine, Provincial Aide-de-Camp.

## EXEOUTIVE COUNCIL.

President of theCouncil and Minis-<br>ter of Agriculture. . . . . . . . . . . . . Hon. John Ross.<br>Attorney General East................... Gon. George E. Cartier.<br>Attorney General West. ............ Hon. John A. Macdonald.<br>Commissioner of Crown Lands.... Hon. P. M. Vankoughnet,<br>Commissioner of Public Works.... Hon. John Rose.<br>Speaker of Legislative Council..... Hon. N. F. Belleau.<br>Provincial Secretary .............. Hon. Charles Alleyn.<br>Postmaster General. . . . . . . . . . . . . . Hon. Sydney Smith.<br>Minister of Finance . . . . . . . . . . . . . . Hon. A. T. Galt.<br>Receiver General. . . . . . . . . . . . . . . . Hon. George Sherwood.

## OFFICERS:

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

Indian Department.-R. T. Pennefather, Superintendent General of Indian Affairs ; S. Y. Chesley, Assistant ditto ; Michael Turner, Chiel Clerk; W. R. Bartlett, Visiting Superintendent; David Thorburn, ditto; George Ironside, ditto ; Froom Talfourd, ditto ; Francis Assickenaek, Interpreter.

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

## Edecational Defartment.

Lower Canada.-Old Government House.-Hon. P. J. O. Ohanreau, Superintendent; Louis Giard, Secretary ; Joseph Lenoir, French Corresponding Olerk 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.

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Protestant 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. Luni ; A. N. Rennie, Secretary.

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 Aitto; A. Marling, First Clerk and Clerk of Accounts; A. J. Williamson, Olerk 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,
Ohisp Department.-Wm. B. Lindsay, Clerk; W. B. Lindsay, Jr., Clerk Assistant; Alfred Patrick, Deputy Clerk Assistant and Chief Clerk of Committees and Oontroverted Elections; Thomas Vaux, Accountant ; Oharles Langevin, Assistant ditto.

Law Clere's Drpartmant.-G. W. Wicksteed, Law Clerk; D. P. Myrand, Assistant French Law Clerk; F. Badgley, Assistant English Clerk.

Gemeral Departmbmt.-W. P. Patrick, Ohief Offce Olerk; 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, and P. H. Blais, Junior Clerks.

Committhe Dhpartmbat.-Alfred Patrick, Clerk of Committees and Oontroverted Elections ; J. P. Leprohon, 1st Assistant ditto ; F. X. Blanchet, 2nd ditto.

Privata Bill Departmait.-Alfred Todd, Ohief Olerk of Private Bills and Olerk of Votes ; Thaddeus Patrick, Assistant ditto, and Clerk of Railroad Committee ; W. B. Ross and Herrman Poetter, Assistants ditto.

Translators.-D. P. Myrand, Ohief French Translator; Wm. Fanning, B. P. Dorion, A. Desilets and T. G. Coursolles, Assistants ditto ; F. Badgley, English Translator; Wm. Wilson, Assistant ditto ; F. Hays, Extra ditto.

Jouralal Dapartment.-G. M. Muir, English Journal Clerk; W. O. Burrage, Assistant ditto ; P. E. Gagnon, French ditto ; W. H. Lemoine, Assistant ditto.

Library Drpartsesmt.-Alpheus Todd, Librarian; A. G. Lajoié, Assistant ditto ; A. Lapevière, Clerk.

Sergiamt-AT-Amms Dapabtibnt.-D. W. Macdonell, Sergeant-atArms ; U. C. Burrage, Deputy ditto ; A. L. Cardinal, Ohief Messenger ; M. McGarthy, O. Vincent and E. Stacy, Assistants ditto ; R. Defries, Postmaster ; Jos. Blais, Assistant ditto ; J. O'Connor, Door-keeper ; R. Bailie, Assistant ditte; P. Leliberté, Jos. Lemonde, Edward Pelletier, William Graham, Jas. Hoy and E. Storr, Messengers.

## PERMANENT OFFICERS LEGISLATIVE COUNOIL.

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

John MeGillivray McLean, Clerk.
W. Agar Adamison, D. C. L., Chaplain and Llbrarian.

## PUBLIC DEPARTMENTS.

Oivil Secnetary's Oppick.-R. T. Pennefather, Secredary; Henry Cotton, chief clerk; John Kidd, 2nd clerk; Philip Hill, office keeper; George Boxall, messenger.

Provinotal Secretary's Ofrice.-Hon. Charles Alleyn, Provincial Secretary ; Etienne Parent, Assistant Secretary East; Edmund A. Meredith, Assistant Secretary West; Thos. Ross, Accomntant 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.

Provincial Rgeistrar's Offics.-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.

Regriver General's Offige.-Hon. Geo. Sherwood, Receiver General; T. D. Harrington, Deputy ditto ; G. C. Reiffenstein, Chief or Debenture 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, Olerk in charge of Municipal Loan Fund of Upper and Lower Canada; Chas. W. Shay, Assistant Book-keeper and General Clerk; F. Braun, Clerk in charge of Seignioral Act of 1854 F. L. Casault, Messenger ; N. Casault, Assistant ditto.

Departicent of the Minister of Financr.-Hon. A. T. Gait, Ministen of Finance ; Joseph Cary, Deputy Inspector General ; William Dickinson, Acting Deputy ditto; David A. Ross, Ohief Clerk; Norris Godard, Book-keeper; John Drysdale, ditto ; Archibald 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 Aecounts ; Thomas Cruse, Book-keeper; Thomas D. Tims, Assistant ditto; O. Camble, Registrar of Free Banks; Christopher Green, James Patterson, Edward C. Barber, Olerkह.

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 Canat Office Clerk; J. M. Mnckle, P. E. Shepherd, Dr. L. O'Brle, Check Clerks ; C. Ross, Extra Check Clerk ; J. Walls, Messenger.

## MILITARY.

Lient. General Sir W. F. Wiluars, Bart., K.C.B., Commanding the Forces in British North America.
Major W. J. Williams, Royal Artillery, Military Secretary.
Oapt. O. B. B. Woolsey, Poyal Artillery, and Lient. R. Grant, Royal Engineers, Aides-de-Camp.
Miltary Secketaby'b Depaitment.-Major W. J. Williams, Military Secretary ; P. Lawlor, 1st Clerk ; J. R. Spong, R. G. Greig, and M. Riordan, Clerks ; R. Dalgleish, Office-keeper.
adjutatt Gemeral's Department.-Colonel the Hon. R. Rollo, Assistant Adjutant General ; Ens. C. Macdonald, Town Major ; W. Wright 1st Clerk ; P. Walsh and G. Frauckum, Olerks ; J.Dillon, Town Major's Clerk; W. Rowan, Town Sergeant.
Quarthrmaster Gieneral's Départment.-Colonel Napier, C.b., Deputy Ouartermaster Geheral ; N. Hughes, 1st Clerk ; E. Roe and A. Mitchell, Olerks.
Mmitary Store Departimest.-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.

## Hsad Quartras, Royal Eyginerrs Omios.

Montreal-Commanding Royal Engineers Canada, Colonel Henry Servante ; Assistant ditto, W. C. Menzies ; Draftsman and Surveyor, O. 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 Distriet Branch; A. Kemp, Clerk of the Worke; J. Conroy, Officeleeper.

Kingaton District.-Lient. Colonel Fanshawe, Commanding Royal Zngineers Kingston; W. Wheeler, 2nd class Clerk of Works ; J. B. Eiarper, 3nd class Clerk; R. Goodfellow, Office-keeper.

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

## Commissariat Dapartmemt.

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

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

Kingston-Assist. Com. Genl. Cumming ; Deputy Assist Com. Genl. \$. B. Brown,

Toronto.-Asislst, Com, Gen. Goold ; Deputy Assist. Com. Gen. Wild.
Ariy Medical Stafy.-J. Clarke, Surgeon Major in charge, Montreal;
E. B. Traon Staff Surgeon, Montreal; W. Odell, M.D., Staff Surgeon Ist
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 Assist, 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 is the Provisions of the 20th 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.
Puilené Judges.
Chs. Mondelet, Assistant Judge.
Officers.-John Boston, Sheriff ; Joseph Jones, Coroner; Alexander M. Delisle, Clerk of the Orown; Charles E. Schiller, Deputy Clerk of the Crown ; Benjamin Delisle, High Constable; George J. Stanley, Crier ; Thomas McGinn, Gaoler.

COURTS IN APPRAL AND BRROR.

- Montreal-1st March, 1st June, 1st September and 1st December.

Quebec-12th March, 12th Juae, 12th September and 12th December. J. U. Beaudry, Olerk of Appeals; Charles Drolet, Deputy do.
court of criminal jurisdiction.
Montreal-24th March and 24th September.
Quebec-24th January and 24th June.
Three Rivers=2nd February and 11th Septomber,
Sherbrooke-12th February and 20th September.
Kamourask a-5th to 10th April and 21st to 26th October.
Aylmer-10th June and 10th December.
Terms to contlinue till the business is closed. Extraordinary terms may be held by proclamation.

[^0]
## SUPERIOR OOURT.

Jurisdiction for Sums exceeding Eb0 Currency; 12 Fict,j cap; B8; sec, 19 and 47 , and 20 Vic.; cap. 44, sec. 30 .

## Honorable Edward Bowen, Chief Justice:

 Jubais.Hon. Dominique Mondelet,
" Charles Dewey Day.
" James Smith.
" J, A. Taschereau.
" Itypollte Guy.

* William Power.
" Peter Winter.
Andrew Stuert,
S. C. Monk, J. A. Berthelot.
- Morrrmal. - $\dagger$ Hochelaga, Jacques Cartier, Laval, Vaudreuil, Soulana Iges, Laprairie, Chambly and Verchères and City of Montreal-Held at Montreal from 17 th to 27 th of erery month, except January, July and August. Monk, Coffin \& Papinesu, Prothonotiry ; John Boston, Sheriff,

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

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

## CIRCUIT COURTS,

Jurisdiction in suits not exceeding $£ 50$, Quesied distriot.
Quebec Circuit, held at Quebec, 20th to 25th of every month, except July and August. Clerk, Burroughs \& Fiset.

Lotbinière Circuit, held at Lotbinierre, 13th to 22nd March, July and Notember. Clerk, foseph Filteat.

Portneuf Circuit, held at Cap Sante, 7th to 16th January, May and September. Olerk, R. Lelièvre.
montrial distriot.
Montreal Circuit, held at Montreal, 10th to 15 th of every month, ex $=$ cept January, July and August. Olerk, Monk; Coffin \& Papineau.

Vaudreuil Circuit, held at Vaudreuil, 1st to 5th Mareh, July \& No vember. Clerk, J. O. Bastien.

Soulanges Circuit, held at OAtean Landing, ath to 10th March, July and Navember. Clerk, H. J. Sentenne.

OTTAWA DISTRIGT.
Ottana Oircuit held at Aylmer from 20th to 25th January, May and September. Olerk, H. Driscoll.

Appeals from the Clrcuit Court to the Queen's Bench are allowed, by the 20 Viet, eap. 45, sec, 60, in casess over twenty-five pounds chirency.

Eivery day not a Sunday or a Holy day is a Juridicial day.

## GENERAL QUARTER SEGSTONS OF THE PEAOE.

Chairman: Oharles J. Coursol.
A. M. Delisle and W. H. Brehaut, Clerk of the Peace ; O. E. Schiller, Deputy ćlerk of the Peace ; L. D. Réné Cotret and

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

Sherbrooke: 8th January, 8th April, 8th July and 8th October. Clerke, Short \& Morris.
Kamouraska: 7th January and 15th July. Clerks, Chalou \& Déry. Aylmer: 5th April and 5th October. Olerk, H. Driscoll.
Percé, Gaspé Basin, New Carlisle and Carleton: On the three daya 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, sad the Hon. Jas. Macaulay, tate chief justice of the Court of Common Pleas, and has jurisdietion In Appeal from the Courts of Ohancery, Queen's Bench and Common Pleas. It sits three times a year, namely on the 2rd Thursday after each Term, except Trinity Term.

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

Terms for examination of witnesses commence on the second Tuesday in Febrnary and May, last Tuesday in August, 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, $J$ une, September and December, and end on the Saturday of the followfing week.

A weekly sitting on every Monday is held thronghout 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 of 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 Quers's Bewch.-Hon. Sir J. B. Robinson, Bart, chiefjustice; Hon. Archibald McLean and Hon. R. E. Burns, puisne judges ; C. C. Small, clerk of the Crown and pleas; O. Robinson, reporter ; Robert Pearson, clerk of the process ; W. B. Heward, clerk in Banc. and chambers ; W. B. Heward, elerk in practice court.

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

Courz of Common Plese-Hon. W. If. Draper, C. B., chief justice; Hon. W. B. Riehards and Hon. J. H. Hagarty, pulsne judges ; L. Heyden elerk of the Crown and pleas ; E. C. Jones, reporter,

The Court of Common Pleas, established by the 12 Vic. cap. 68, conalists of three Judger, who sit in Term in the same manner as the Judges of the Queen's Bench.

LAW TERMS.
Qunem's Bench and Comon Pleas.- Hilary Term begins on the first Monday in February. Easter Term begins on the third Monday in May. Frinity Term begins on the Monday next after the 21st of Angust Michaelmas Term begins on the third Monday in November. And each term ends on the Saturday of the ensuing week.
From the 18t July to the 218t August is vacation in all the Courts.
Circuits are beld twice a year in each County, viz. : The Spring Cir* euit between Hilary and Easter Terins, The Autumn Circuit between Trinity and Nichaelmas Terms.
In the County of York, however, there are three Circuits every year
vis.: The Winter, commencing on the Thursday in January next after the Kunicipal Elections. The Spring, on the second Monday in April $f_{j}$ and the Autumn, on the second Monday in October.

Thefe 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; Ohatham, Sandwich and Sarnia ; the Toronto or Home Sittings, at Toronto.

Coumt or Probatz. -The Governor General, judge (ex-officio); Secker Brough, Toronto, Official principal; C. FitzGibbon, Toronto, registrar,

## POST OFFICE DEPARTMENT.

## Honorable Sydney Smith, Post-Master General.

W. H. Griffin, Deputy Post-Master General ; H. A. Wiekstead, Acconntant; Edwin F. King, Secretary ; John Ashworth, Cashier. Money Order Branch.-P. Lesueur, Superintendent.

## Classimicatior op Cleriks.

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

2nd Class.-J. O. Stewart, J. Audette, Peter Holt, Charles McKenzie. 3rd Class.-John Boyd, W. D. Lesueur, J. Brophy, J. MeMahon, E. H. Benjamin, D. Waters, George Mason.
$4^{\text {th }}$ Class.-B. King, G. H. Hargrave, H. J. Garrett, George Holt, E. G. Bennett, H. F. Hhyward, R. Sinclair.

John Hinifin, Office Keeper.

## MONTREAL.

J. B. Meillear, M.D., LL.D., Postmaster.

James Sinpson, Assistant Postmaster.
P. W. Cooper, B. McEvenue, M. Emery, H. A. R. Huddle, MeDuff Simpson, M. Murphy, J. Maitland, U. Benoit, John McKeon, Alexander Robertson, L. Malard, W. MeGillivray, John Muir and 0. Raymond, Clerks.
P. O'Reilly, John J. Drew, A. Auger and L. Lafricnin, Letter Oarriera.

Ofice Hours : from 8 A. M. to 7 P. M ; and from 8 to 10 A . M. on Sundays.

## RBGULATIONS AND RATES.

Letter Rates.-Letters posted in Canada addressed to any place within the Province pass, if prepaid, for 5 cents per $\ddagger$ oz., but if posted unpaid are charged 7 cents per $\frac{1}{2} \mathrm{oz}$.

On Letters to Nova Scotta, New Brunswick and Prince Edward's Island the rate is 5 cents per $\frac{1}{6}$ oz., with optional pre-payment.

The rate on letters to the United Kingdom will be :

$$
\begin{aligned}
& \text { By Canadian Packet } 121 \text { cents per } \frac{1}{\text { B }} \text { ounce. } \\
& \text { By Cunard }
\end{aligned}
$$

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 bejond sen, and for Foreign Countries, via England, must be prepaid.

The rate on Letters for the United States, (except
California and Oregon),
10
10
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 1213 cts .

$$
\text { " } \quad \text { United States } 6 \text { u }
$$

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


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.-Newspspers received from England by the Canadian Packet Maile are delivered free.

Newspapers from England by the Ounard Packet Mails are charged 2 cents each on delivery. (This is the American transit charge.)
United States Nowspapers, brought by Mail into Canada, are charged one cent each on delivery.

Postuge Stamps.-Postage Stamps of the respective values of 1 cent, for Newspapers ; 5 cents for ordinary Provincial Letters; 10 cents for United States rate; $12 \frac{1}{2}$ cents for Canadian 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 cents on packets not exceeding 4 oz . in welght ; 12 1 conts on $\frac{1}{2} \mathrm{lb}$. packets ; and $12 \frac{1}{2}$ cents additional for every additional $\frac{1}{} \mathrm{lb}$. These charges must be prepaid.

Penal Clause:-The Act contains the following penal clause:
To fnclose 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 news* paper posted to pass as a newspaper, at the rate of postage applicable to newspapers,? (except in the case of accounts and recelpts of news ${ }^{2}$ paper publlshers, which are permitted to pass folded within the newspapers sent by them to their subscribers), shall be a misdemeanor.

Money Orders.-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 halr cants to be introduced in the Money Orders.

Money Orders on England, Scotlund and Ireland. - Woney 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 $\mathcal{E} 2$ 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 bo procured.

## FARMING.

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

Wsgds.-Professor Buckman of England has recently found in a pint of ordinary clover seed, 7,600 weed seeds ; and in a pint of Ducth clover, 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.

Newspapishs.-There are 3,364 newspapers publighed it the United States and territories; of which 613 are in New York, 419 in Peunsylvania, 882 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 England and Wales there are 272 ; in Scotland, 66 ; in Ireland, 113 ; and In the British Isles and Jersey, 17. There ard about 1,500 in Germany, about 600 in France, 30 or 40 in Spain, very few in Italy, 18 in Oon* stantinople, and about 100 in Russia.

## TO AsCBRTAIN THE LRNGTH OF THE DAY AND NIG日T,

Ат any time of the year, add 12 hours to the time of the eun's setting) and from the sum subtract the time of rising, for the length of the day. Subtract the time of setting from 12 hours, and to the remalinder add the time of risling next mornlug, for the length of the night. These rules are equally true for apparent time

TRUE TIME.
Two Kinds of times are used in Almanacs ; clock or medn-time in some, and apparent or sun-tine 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 thie is a mistake. The sun is seldom on the meridian at twelve $\mathrm{g}^{\prime}$ 'lock, 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 is 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, 17th, and 25th 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 clock 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 atmosphere. The more modern and improved Almanars, which use clock-time, give the rising and setting of the suu's upper limb $_{j}$, 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 sarface 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 meridiani line.
HoMe Detorats. - "No man can tell," says Taylor, "but he that loves his children, how many delicious accents make a man's beart dance in their pretty conversation ; their cbildishness, 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.

Treseraph Linss,-In America, 45,000 miles ; in England, 10,000; in France, 8,000 ; in Germany and Austria; 10,000 ; in Prussie, 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 telegrapt could be laid around the globe for less than half the cost of the Erie railroad.

Coal fiblds or Europs amd Nobth America.-The coal fields 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.

Rallroad Travelimg.-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
In Prussia, killed or wounded, 1, $\} \quad$ 1,494,075 $\mid$ In England, kilhed or wound- $\}$ 311,851

> in passengers

1,611,237
"Belirium, ditto.
375,092
" United Atates, ditto
188,459

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.

Popdlation or the Globs.-Professor Dietrich of the University of Berlin has furnished the Academy of Sciences in that city with the most recent and reliable tables on this subject, giving the following results, with his grounds for them;
Population of Europe .............. 272,000,000
Population of Australia, etc,
$2,000,000$
" "Asis ............ 720,000,000
"
" America ......... $200,000,000$
" " Africa, 89,000,000

Total
$1,283,000,000$
or more than twelve hundred millions. Reckoning the average death 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 mipute. Thus one human being dies on an arerage every second, and more than one is born.

The entire population is thus divided in point of religion :


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 animalcuie and the whale, is one-third of an inch in length-the common house fly.

Difparances or Tims.-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? Wis 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 cir umstances attendant on the institution of agriculture, should give it the same pre-eminence in physical economy that the Christlan 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.

One of the most hacknied abuses of agricultural labor is, that money cannot be made from it. This is the common slang of those who are too stupid or too indolent to secure to themselves from such labor the remuneration that would result from skill and enterprise, and perseverance. These very persons get a living, somehow or other, from the soil; it may be a living without luxury or elegance, though favorable to health and muscular vigor ; yet, were they depending for subsistence on many other occupations, and to manifest as little talent and application to judicious industry as they do on a farm, they would starve to death, or be compelled to take shelter in an almshouse. The mass of slanderers upon agriculture seem to imagine that getting a living upon a farm is not making money. They do not seem to consider that we do not eat silver and gold as we do beef-steaks, mutton-chops and potatoes, They do not seem to realize that money is valuable only as the representative of property that can be used in social and domestic economy -as the means by which we may obtain what we need for food, or apparel, or the other things wanted in life

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, snd 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 ent, 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 sortas 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 unon 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 prodnces 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 beantifal and beneficial featores in civilized life and social economy. It is essentially the same between the farmer and every other olass 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 conld not subsist. If they were to fail of receiving his products, they all would cease to exist, or else they wonld 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 adrantage 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, it may be proper to remark, that that depends not so much on the occupation as it does on the character and talents of the individual engaged in it. Any occupation, however respectable and elevated in itself, may be degraded and rendered comparatively disreputable, by a want of character and tatents in the persons who have it in trust; and, on the other hand, an occupation that in itself is subordinate and seemingly without
the ele able w positic

A M of $\mathrm{Art}_{3}$ he thin numbe tained to the much © The
"Th ourselv recepta or less is the c dities f put our not tho preserv roughly also is :
"The metical wheat' be quer voir ; si station, scale w on a sm bushel c iron. I tank of for the f "This polts, a Internal part alst and the say, a et When fil forming out any addition applicati would b used to moisture grain m would b
the elements of high consideration, may be elevated and rendered honorable when in the hards 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 aotion 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 screwpolts, and consequently easily transported from place to place. The Internal parts should be galvanized, to prevent rust, and the external part also, if desired. It should be hermetically tight at all the points, and the only opening should be what is ealled 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 additional advantage to such a reservoir would be an air-pump, by the application of which, for the purpose of exhanstion, any casual vermin would be killed. If the grain were moist, the same air-pump might be used 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 available for granaries, economizing space of comparatively little value. The grain would be easily poured in from the surface ; and to discharge it, an Archimedean screw should be used. The size of the reservoir should be proportioned to the locality, and it should hold a specified number of quarters, so as to serve as a measure of quantity, and prevent the expense of meterage. * . If constructed above the ground, a stair or ladder mnst communicate with the upper part, and the lower part must be formed like a hopper, for the purpose of discharge. For many farm localities this arrangement might be best, and wheat might be thrashed into grain direct from the field and stored. * . Granaries of this description would occupy less than one-third the cubic space of those of the ordinary description, and their cost would 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 for selling. The fear of loss being dispelled, people would buy with less hesitation, and the great food stores of the community would, by a wholesome competition, insure the great mass of the community against 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 irregular fluctuation of prices. There is nothing difflenlt in this proposition. It is merely applying existing arrangements to unusual cases. There needs but the practical example to be set by influential people, and the great mass will travel in the same track. To the weal thy agriculturist it will be but the amplification of the principle of the tin-lined corn-bin, that keeps out the rat from the oats of the stable. * . Were this mode of preserving grain to become general, the facility of ascertaining stock and crops after reaping would be very great. The granaries 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 relative to guano were presented by Mr. Horace Green.
Guano is generally understood to have been brought to the notice of Europeans by Humboldt in 1804. It was first brought to England as merchandise in 1830. It had, however, been used in Peru for 600 years. Of this excrementitions matter voided by sea-birds, a very large proportion was decomposed before the guano of commerce was extracted from its beds, and more still before its arrival in port. Proof of the rapid depreciation of guano in keeping might be found in the analyses of the dung of birds by Sir Humphrey Davy and M. Coindet. Coindet found 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 decreased from 23 per cent. in the recent excrement to 16 per cent. in that of six months old, and to eight per cent. after fermentation. It appeared that in five years ( $1845-50$ ) nearly 650,000 tons of guano had been brought almost round the world for the stimulation of the soils of this country ; but it was generally believed that the zenith of supply from Peru was
past. From the mean of many analyses of different varieties, it was stated that the amount of ammonia was, in Saldanha Bay, 1.68 per cent. ; in Patagonia, 2.65 per cent. ; in Cape and Algoa Bay, 2.00 per cent. ; and in the New Islands, 1.96 per cent. ; but in phosphate of lime, which was the next most important element, the guanos were richer as they were pooreri n ammonia. The mean amount of phosphate of lime was, in Saldanha Bay, 55.40 per cent. ; in Patagonia, 44.00 per cent. ; in Cape and Algoa Bay, 20.00 per cent. ; and in the New Islands, 62.80. The question, however, arose, whether or not large quantities of such manures could be sold at a price which should not exceed the home cost of super-phosphate of lime. Reference was then made to the Guano Substitute Prize of $£ 1000$, and the Gold Medal, which were offered by the Royal A gricultural Society for the discovery of a manure qual in its fertilizing properties to Peruvian guano, and which could be sold at a price not exceeding $£ 5$ per ton; and it was contended that, as, according to the composition of guano as given by Professor Way, and the known value of these several articles in the markets of commerce, the value of a ton of such material would be upwards of $£ 12$, it was not at all probable that any one would dispose of it for $£ 5$. The suthor then proceeded to describe the fisheries guano of Mr. Pettit, and gave the results of several analyses, from which it was deduced hat, according to the scale before alluded to, the mean value of the samples tested was $£ 97 \mathrm{~s} .7 \mathrm{~d}$. per ton. The manufacture of this guano on a large scale would be carried on by a process of the following ature: A given weight of fishy matter was placed in a large tank, and sulphuric acid of commerce added to the mass. The action of the Acid was so powerful as speedily to reduce the organic matter to a soft pulpy consistency, resembling in appearance the fecal matter of birds. This pasty mass being placed in a centrifugal drying machine, and the uperabundant moisture forcibly driven off, the partially dry matter was pow submitted to a heat not exceeding $212^{\circ}$ Fahrenheit, and afterwards pulverized in a suitable manner. In this process the oily matter of The fish separated itself and swam upon the surface of the liquid; hence : could be easily separated, and formed an important item in the ecolomy of the manufacture-siace, taking all kinds of fishy matter, we lained an sverage of three per cent. of oil, worth $£ 25$ per ton, or tree-fourths of the whole expense of the raw material. Another profess might in some cases be adopted with advantage, especially with dartilaginous fish. As to the supply of the raw materiai, it was believed, Fom the testimony of many persons on the coasts, that an ample supply f refuse fish would be obtained at an average price of $£ 1$ per ton; and aking 60 tons of this weekly, the cost of manufacture and incidental $x$ penses would be $£ 10,643$ per annum. From this there would result 3 tons of oll, which, at $£ 25$ per ton, would give $£ 2,325$, and 1,658 tons Iguano, at $£$ ' 7 per ton, or $£ 11,571$, making together $£ 13,896$ as the mount of sales, or a profit of $£ 3,253$.
It was stated that some years ago an inquiry was instituted as to hether the offal and refuse fish of Newfoundland could not be prepared to a manure at a cheaper rate than that already in the market, when was found that there were diffioulties in the way, which led to the bandomment of the idea.

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