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R. & A. MILLER'S

FARMER'S ALMANAC

FOR THE YEAR OF OUR LORD

1860,





Being Bissextile or Leap Year, and until the 20th June, the Twenty-Third Year of the Reign of Her Majesty Queen Victoria.

Calculated for the Meridian of Montreal, in Latitude 45° 30' 26" North, and Longitude 73° 24' 22" West, from the Royal Observatory, Greenwich, but arranged so as to serve without essential variation for all parts of Canada, East and West.

EDITION OF TWENTY THOUSAND.

Entered according to Act of Provincial Legislature, in the year of our Lord of One thousand eight hundred and fifty-nine, by R. & A. MILLER, in the soffice of the Registran of the Province of Canada.

Montreal:

PUBLISHED BY R. & A. MILLER.

60, ST. FRANÇOIS XAVIER STREET.

Explanation of Calendar Pages.

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; Montreal, Kingston, Toronto, and London. The rising and setting of the Sun are given for Montreal and Toronto. The Sun's declination North or South is given as usual. The rising and setting of the Moon are given with sufficient exactness for all practical purposes. The weather prognostications are again calculated according to the table of the celebrated Dr. Herschel, and for extraordinary accuracy Miller's Almanac retains its wonderful popularity.

Chronological Epcles.

Dominical Letter A. G.	Julian Period	6573
Golden Number 18	Jewish year commencing	
Jewish Lunar Cycle 15	14th January, 1859	5621
Epact or Moon's Age 7	Age of the World	5863
Selar Cycle 21	Mahometan year, Oct. 15th	1275

Modable Festidals.

Septuagesima Sunday, Febr. Quinquagesima " Ash Wednesday " First Sunday in Lent " Palm Sunday April Good Friday " Easter Sunday "	19 22 26	Low Sunday April Rogation Sunday May Ascensien Day " Whitsunday " Trinity Sunday June Corpus Christi, Fete-Dieu " Advent Sunday Dgc.	13 17 27 3 7
	6	Corpus Christi, Fel	e-Dieu "

Molidays obserbed at Public Offices.

Circumeision Jan.	1.	Corpus Christi	June	
Epiphany	6	St. Peter and St. Paul .	- 66	21
Annunciation March		All Saints Day	Nov.	1
Good Friday April	6	Conception of the Blessed		
Ascension Day May		Virgin Mary	Dec.	8
Queen Victoria's Birthday "	24	Christmas Day	- 44 .	25

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 Evening at Montreal 9 minutes past 8. The Eclipse attains its largest size at 35 minutes past 9, and ends about 11 o'clock. It begins in Toronto 7.46; middles 9.12, and ends at 38 minutes past 10.
- III.—On the 18th of July there will be a total Eclipse of the Sun in the Morning. On this Continent it will be only partial. In Canada it will be visible about two hours, beginning a few minutes past 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.

Vernal Equinox,	begins				57 Morn.	
Summer Solstice,	66.	June	21	0	35 Morn.	
Autumnal Equinox		September	22	2	44 Even.	
Winter Solstice,	44	December	21	8	43 Morn.	

			M.				
Sun in Winter Signs	89	1	2	Tropical Year365	5	48	
Sun in Spring Signs	92	20	38	Sun North of the Equator 186	10	47	
Sun in Summer Signs	93	14	9	Sun South of the Equator 178	19	6	
				Difference 7			

APPEARANCE OF PLANETS, 1860.

Until July 18th Venus will be the Evening Star, and then the Morning Star the rest of the year. Until July 17th, Mars will be Morning Star, then Evening the remainder of the year. Saturn will be Morning Star until February 11th, then Evening Star until August 22nd, then Morning Star the rest of the year. Venus will be Eclipsed by the Moon on the 24th of April, visible generally throughout the country. The Planet will disappear behind the Moon about half past eight in the Evening and re-appear about 9. Jupiter will also be Eclipsed by the Moon North 43° on the 26th of April, about one hour before the Moon sets.

	Moon's	Phase	8.	Montre	al. Ki	ngston.	T	oronto.	London.	Sun on I	Ieridian
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1	DAYS.	Mon	treal.	Tor	onto.	Sun's Declin		The Moon,	In the Asian Englaves, o		100
M	Week.	Sun Rises.	Sun Sets.	Sun Rises.	Snn Sets.	South	h.	R. & S.	Calcada	r, Aspec	08, 800.
1 2 3 4 5 6 7	A. Mon, Tues, Wed. Thu. Fri. Sat.	h. m. 7 46 46 46 45 45 45 45	h. m 4 20 21 22 23 24 25 27	, h. m. 7 40 40 40 39 39 39 39	h, m. 4 28 29 30 31 32 33 34	Deg. M 23 22 5 22 5 22 4 22 3 22 3 22 2	2 7 1 5 9	h, m, Morn, 1 12 2 16 3 24 4 83 5 42 6 44	Circumcis 1st Sun, aj Inclement be looked ining of the Epiphany, Variable	ter Chris	er may
8 9 10 11 12 13	A. Mon. Tues. Wed. Thu. Fri. Sat.	7 44 44 43 43 42 43 41	4 28 29 31 33 34 36 37	7 38 38 37 37 37 37 37 37	4 35 36 37 38 40 41 42	22 1	7 8 0 1 1	Rises, 6 18 7 37 8 54 10 9 11 22 Morn,	1st Sun. after Epiphany, Very unsettled and storm weather. Some thaw but not felong yet. Very fine day. Agreeable weather.		
15 16 17 18 19 20 21	A. Mon. Tues. Wed. Thu. Fri. Sat.	7 40 40 39 39 38 37 36	4 38 89 41 42 43 45 47	7 36 35 35 34 33 32 31	4 43 44 45 46 48 49 50	21 10 20 50 20 44 20 30 20 20 20 10 19 50	9 7 5 3 0	35 1 46 2 58 4 5 5 6 5 58 6 41	2nd Sun, a With the for a cha Very cold Lower Can Fair and	e new monge of the but sterada like.	on look weather
22 23 24 25 26 27 28	A. Mon. Tues. Wed. Thu. Fri. Sat.	7 35 34 33 32 31 31 30	4 49 51 52 53 54 55 56	7 30 29 28 27 26 25 24	4 52 53 54 56 57 58 5 00	19 4 19 3 19 1 19 1 18 4 18 3 18 1	0 6 1 6	Sets. 5 56 7 0 8 0 8 58 9 59 11 0	3rd Sun. aj The Jan as usual Conversion but a little of the mou	uary the	w came
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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 stock-yards. He will look to the continued fertility of his land, and will therefore have well-considered and thoroughly-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 will find that labour here, is time and money saved.

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MEMORANDUM FOR JANUARY.

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2nd MONTH. FEBRUARY, 20 Days. Begins on Wednesday.

	Moon's	Phase	8.	Montre	tl. Ki	ngston.	T	oronto.	London. Sun on Meridian			an.	
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5 6 7 8 9 10	A. Mon. Tues. Wed. Thu. Fri. Sat.	7 22 20 19 18 17 16 14	5 5 7 9 11 13 14 16	17 16 14 13 12	5 7 9 9 11 13 14 16	14 4 14 2	2 4 4	6 10 Rises. 6 28 7 47 9 3 10 19 11 84				ow	
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FEBRUARY.—The subject of saving manure should be given place and prominence in our agricultural journals. To turn, as far as possible, every resource to economical account, is a secret of success in the business of farming, as in every other. It should be, indeed, as a good farmer once remarked, "a prominent part of the farm-work, to manufacture as much manure thereon as possible." It should be a subject of 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.

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M.	Week.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	South	h.	R. & S.	Calendar, Aspects, &c		
1 2 3	Thu. Fri. Sat.	h. m. 6 45 1 44 12	h. m. 5 42 43 44	h. m. 6 43 42 40	h. m. 5 41 42 44	7 1	fin. 7	h. m. 2 12 3 10 3 59	St. David's Day. March is remarkable t year for very variable wea		
5 6 7 8 9	G. Mon. Tues. Wed. Thu. Fri. Sat.	6 40 38 36 34 31 29 27	5 45 47 48 49 51 53 54	6 39 37 34 33 31 29 27	5 46 48 49 50 51 53 55	5 4 5 2 4 5 4 3 4 1	8 5 8 5 2 8	4 41 5 15 5 46 rises. 7 51 9 10 10 28	2nd Sunday in Lent. There will be a good deal snow in L. C. In U. C. foresee a gool deal of re mixed with snow and sle		
11 12 13 14 15 16 17			5 55 56 58 59 1 2	6 25 23 22 20 18 16 15	5 56 57 58 6 1 2 3 4	3 2 3 2 1 1 5 1 2	25 11 Mo: 37 0 14 1 50 2 26 3 3 3		3rd Sunday in Lent. The wind will be high a storming about the time new moon. Dashes of rain and sor snow yet. St. Patrick's Day.		
18 19 20 21 22 23 24	G. Mon. Tues. Wed. Thu. Fri. Sat.	6 12 10 9 7 5 3	6 4 5 7 8 9 11 13	6 12 10 9 6 5 3	6 6 7 8 9 11 12 13	Nort: 0 8 0 5 1 1	5 h.	4 17 4 37 4 59 5 18 Sets. 7 47 8 49	4th Sunday in Lent. In the west not much pr pect of settled weather, I the sun occasionally smi with warmth and much winter disappears.		
25 26 27 28 29 30	G. Mon. Tues, Wed. Thu. Fri. Sat.	5 59 57 55 53 52 50 48	6 15 16 17 18 19 20 21	6 00 5 58 56 54 53 51 49	6 14 16 17 18 20 21 21	2 2 2 5 3 1 3 3 4	6 9 3 6 9 3	9 54 11 0 Morn. 0 2 1 3 1 54 2 38	Annunc Hard fr	ay in Lent and iation of V. M. costs continue to out the end of the ll be pleasant and c.	

MARCH .- 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 unprofitable-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.

	Moon's	Phase	84 2	Montrea	l. Ki	ngston	1. I	oronto.	London.	Sun	on M	erid	ian
La	Full Moon, Last Quarter, New Moon, First Quarter, .		d. 5 12 21 28	h. m. 5 6 ev 8 40 ev 0 50 m 9 42 m	7. 4 7. 8 0. 0	54 ev 28 ev 39 mc	80. 0	1. m. 42 ev. 17 ev. 27 mo. 19 mo.	h. m. 4 34 ev. 8 9 ev. 0 19 mo. 9 11 mo.	d. 1 9 17 25	h. 12 12 11 11	m. 8 1 59 57	8. 35 25 23 46
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it.	Week.	Sun Rises.	Sun Sets.	Sun. Rises.	Sun Sets.	Noi	th.	R.& S.	Calenda	г, д	speci	а, «	PC.
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8 9 10 11 12 13 14	G. Mon. Tues. Wed. Thu. Fri. Sat.	5 33 32 30 28 26 24 22	6 31 32 33 34 36 37 38	5 36 35 33 31 28 26 24	6 31 32 33 34 35 36 37	7 7 8 8 8 8 9	28 50 12 34 56 18 40	10 30 11 36 Morn. 31 1 15 1 51 2 18					
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22 23 24 25 26 27 28	G. Mon. Tues. Wed. Thu. Fri. Sat.	5 S 6 5 3 2 5 0 4 58	6 49 50 51 53 55 57 58	5 11 9 8 7 5 4 2	6 46 47 48 49 51 52 53	12 12 13 13 13 14 14	26 46 6 25 44 3 22	8 50 9 55 10 56 11 50 Morn, 35 1 13	St. George's Day. Raw and cold, be sure and St. Mark. keep your feet dry. Snow disappears greatly.				
29 80	G. Mon.	4 56 55	7 0	5 0	6 54 55	14 14	41 59	1 45 2 12				Saste	er.

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

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-	Moon's	Phase	8.	Montre	il. Ki	ngston.	T	oronto.	London.	Sun on Meridian.	
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I	DAYS.	Mon	treal.	Toro	onto.	Sun's Declin		The Moon.	Colondo	r, Aspects, &c.	
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6 7 8 9 10 11 12	G. Mon. Tues. Wed. Thu. Fri. Sat.	4 47 45 43 41 40 39 37	7 7 8 9 10 11 12 13	49 48 47 46 45	7 2 3 4 5 6 7 8	17 1 17 3 17 4	0 7 2 8 3	9 16 10 17 11 7 11 47 moon.	on the whole the. 4th Sunday after Easter. Fine weather yet. The ratens rain. Unsteady weather. Probably fair. The spring has opened cheerfully. Pleasant.		
13 14 15 16 17 18	G. Mon. Tues. Wed. Thu. Fri. Sat.	4 36 34 33 32 31 30 29	7 15 16 17 18 19 20 21	41 40 39 38 37	7 10 12 12 13 14 15 16	18 4	2 6 9 2	1 6 1 26 1 47 2 5 2 28 2 51 3 21	5th Sunday after Easter. Between last Quarter and New Moon there will be rain and in Seconsion Day. Som parts of Canada a good deal of it.		
20 21 22 23 24 25 26	G. Mon. Tues. Wed. Thu. Fri. Sat.	4 28 27 27 26 25 24 28	7 22 23 24 25 27 28 29	34 33 32 31 31	7 17 19 20 21 22 23 24	20 2 20 3 20 4 20 5 21	1	Sets. 8 48 9 45 10 33 11 14 11 48 Moru.	Sunday after Ascension. Cannot promise a change for settled fair weather, [ria, b. 1819. Birth day of Queen Victo- Chilly nights throughout the country.		
27 28 29 30 31	G. Mon. Tues. Wed. Thu.	4 22 21 21 20 20	30 31 32 33 34	28 28 27	7 25 25 26 26 26 27	21 2 21 3 21 4 21 5	4	16 41 1 5 1 30 1 56	Whit Sunday. Whit Monday. Whit Tuesday. May ends very finely. 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. Discouragement 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.

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	Moon's	Phase	s. 2	Iontrea	il. Ki	ngston.	T	oronto.	London. Sun on Meridian.		
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	DAYS.	Mon	treal.	Toro	nto.	Sun's Declin		The Moon.			
Mt.	. Week.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	North	h.	R. & S.	Calendar, Aspects, &c.		
1 2	Fri. Sat.	h. m. 4 20 20	h. m 7 84 86	h. m. 4 27 27	h. m. 7 28 20	Deg. M 22 1 22 1	9	h. m. 2 28 3 6	June enters changeably disposed, but after		
3456789	G. Mon. Tues. Wed. Thu. Fri. Sat.	4 19 19 18 17 17 17 17	7 37 38 39 40 40 41	4 26 25 24 24 24 24 24 24 24	7 30 31 31 32 32 34 34		7 4 9	Rises. 8 58 9 42 10 18 10 45 11 9 11 30	Trinity Sunday. it becomes very pleasant warm, and promising for good hay. CORPUS CHRISTI, FETE Crops for 1860, much better than 1889.		
10 11 12 13 14 15	G. Mon. Tues. Wed. Thu. Fri. Sat.	4 17 17 16 16 16 16 16	7 42 42 43 43 44 44 44	4 24 24 23 23 23 23 23 23	7 35 36 36 37 37 37 38 38	23 1 23 1 23 1 23 1 23 2 23 2 23 2 23 2	8	11 49 Morn. 10 30 52 1 21 1 54	Ist Sunday after Trinity. St. Barnabas. Changeable. More settled. Very pleasant. Look out for a June frost but not as 2nd Sunday after Trinity. general or severe as that in June 1859. Warm and showery. Some distant thunder. And no wonder. Very warm and sultry. 3rd Sunday after Trin. and Nativity St. J. Baptist. You may look for warm, and delightful weather and Sts. Peter and Paul.		
17 18 19 20 21 22 23	G. Mon. Tues. Wed. Thu. Fri. Sat.	4 16 16 16 16 16 17 17	7 45 46 46 46 47 47	4 23 23 28 23 24 25 25	7 39 39 39 40 40 40 39	23 20 23 21 23 21 23 21 23 21 23 21 23 21 23 21	7 7 7 7 6	2 35 3 26 Sets. 9 10 9 48 10 18 10 45			
24 25 26 27 28 29 30	G, Mon, Tues, Wed. Thu, Fri. Sat.	4 18 18 18 19 19 20 20	7 47 46 46 46 46 46 46 46	4 25 25 26 26 26 27 27	39 39 39 39 39 38 38	23 2 23 2 23 2 23 1 23 1 23 1 23 1	3 1 8 5	11 10 11 34 11 59 Morn. 29 1 4 1 48			

JUNE.—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 bushels less on his acre than the farmer who took time by the forelock and hoed early.

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	Moon's	Phase	S.	Montred	l. Ki	ngston	. T	oronto.	London.	Sun on Meridian		
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1	DAYS.	Mon	treal.	Toro	nto.	Sur Decl		The Moon.	Calanda			
M.	Week.	Sun Rises,	Sun	Sun Rises.	Sun Sets,	Nor	th.	R. & S.	Calenda	r, Aspects, &c.		
1234567	G. Mon. Tues. Wed. Thu. Fri. Sat.	h, m, 4 20 21 22 23 23 24 25	h. m 7 46 46 46 46 46 46 46 46 46	4 27 28 29 30 30 30	h, m, 7 39 39 39 38 38 38 38	Deg. 23 23 22 22 22 22 22 22	Min. 4 0 55 50 44 38 31	h. m. 2 38 Rises. 8 17 8 46 9 12 9 33 9 54	July op heat, but moon's qu and no do about the	sunday after Trinity, by opens with stron but on the whole the squarter will be fai no doubt need be fet the crops. They are encouraging. But be sunday after Trinity.		
8 9 0 1 2 3 4	G. Mon. Tues. Wed. Thu. Fri. Sat.	4 26 27 28 28 29 30 31	7 44 44 48 49 49 41 41	34 34 34 34 35	7 37 36 36 36 36 35 34 34	22 22 22 22 22 21 21 21	25 17 10 2 53 45 85	10 12 10 32 10 54 11 19 11 49 Morn. 0 26	sth Sunday after Trinity. fore the New Moon there will be rain, thunder and lightening, gusts of wind and showers of rain. 8th Sunday after Trinity. A changeable and unset- tled week. Heat prevails— some rain descends. Make hay while you may Work and you shall have your pay. 7th Sunday after Trinity. After New Moon and throughout the first quarter St. Jamss. the weather will be variable			
15 16 17 18 19 20 21	G. Mon Tues. Wed. Thu. Fri. Sat.	4 32 33 33 34 35 35 35 36	7 41 40 39 38 37 36 35	38 39 40 41 42	33 32 32 31 30 29 29	21 21 21 20 20 20 20 20	26 16 6 55 44 33 21	1 12 2 10 3 18 Sets. 8 19 8 48 9 14				
22 23 24 25 26 27 28	G. Mon. Tues. Wed. Thu. Fri. Sat.	4 37 38 39 40 41 42 43	7 31 32 31 30 30 28	45 46 47 47 49	7 28 27 26 25 24 23 22	20 19 19 19 19 19 19	9 57 44 31 18 4 50	9 38 10 4 10 33 11 6 11 34 Morn. 0 33				
29 30 31	G. Mon. Tues.	4 44 46 47	7 27 26 25	51	7 21 21 20	18 18 18	36 21 7	1 29 2 32 3 39				

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

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	Moon's	Phase	s. A	Contrea	ıl, Ki	ngston,	T	oronto.	London.	Sun on meridian		
Inas Ne Fir	ll Moon st Quar w Moon st Quar ll Moon	rter,	d. h 1 0 9 4 16 5 23 7 31 4	29 ev 26 ev 56 m	. 0 . 4 . 5	m. 27 ev. 17 ev. 14 ev. 44 mo, 51 mo,	h. 0 4 5 7 8	m. 16 ev. 6 ev. 3 ev. 32 mo. 40 mo.	h. m. 0 8 ev. 4 58 ev. 3 58 ev. 4 55 mo. 3 32 mo.	d. h. m. s 1 12 6 6 9 12 5 4 17 12 3 4 25 12 1 4		
1	DAYS.	Mon	treal.	Toro	nto.	Sun's Declin		The Moon				
ж.	Week.	Sun Rises.	Sun Sets.	Sun Rises,	Sun Sets.	North	h.	R. & S.	Calenda	r, Aspects, &c.		
1 2 3 4	Wed. Thu. Fri. Sat.	h. m. 4 48 50 51 52	h. m. 7 24 22 21 20	h. m. 4 54 55 56 57	h. m. 7 18 17 16 15	17 3 17 2	lin.	h. m. Rises. 7 38 7 58 8 17	August enters gloomily. Clouds and rain. Unsettled for some days. Heat and thunder. 9th Sunday after Trinity.			
5 6 7 8 9 10	G. Mon. Tues. Wed. Thu. Fri. Sat.	4 53 55 56 57 58 59 5 1	7 19 17 16 14 12 11	58 59 5 0 1 2 3	7 14 13 12 10 8 7 6	16 3 16 1 15 5 15 4 15 2	18 11 15 17 10 13 5	·8 37 8 57 9 21 9 47 10 20 11 2 11 53	More settle pects for far bette first. F	h Sunday after Trinity. ore settled, and the pros pects for harvesting ar far better than on th		
12 13 14 15 16 17 18	G. Mon. Tues. Wed. Thu. Fri. Sat.	5 2 3 4 5 6 7 8	7 8 7 5 3 2 1 6 59	5 6 7 8 9 10 11 12	7 4 3 1 6 59 58 57 56	14 2 14 1 13 4 13 3	77 28 10 51 32 13	Morn 55 2 5 3 23 Sets. 7 13 7 40	This week and fine Some head has been Seasonable	19th Sunday after Trinity. This week will be agreeable and fine. Some heat, but not what has been felt. Seasonable weather. No rain to-day.		
19 20 21 22 23 24 25	G. Mon. Tues. Wed. Thu. Fri. Sat.	5 9 11 12 13 14 16 18	6 57 55 54 52 50 48 46	5 13 14 16 17 18 19 20	6 54 52 50 49 47 46 44	12 1 11 8 11 8 11 1	34 14 54 33 18 52 32	8 6 8 34 9 6 9 44 10 31 11 25 Morn.	11th Sunday after Trinity. I fear the rain this weel will spoil the prospect of a few grain fields. Bu it will not be of long con St. Bartholomero.			
26 27 28 29 30 31	G. Mon. Tues. Wed. Thu. Fri.		6 45 43 41 40 38 36	5 21 22 24 25 26 27	6 43 40 38 37 36 34	9 9 9 8	11 50 28 7 46 26	25 1 29 2 35 3 40 4 43 Rises.	St. Augustine. Some showers. But the month ends agree			

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

day. 1860.] MEMORANDUM FOR AUGUST. .9 dian. CC. 0 9 y. os-sre the No y. ble int y. ek ut h rf

9th Month. SEPTEMBER, 30 Days. Begins on Saturday.

	Moon's	Phase	8.	Montre	al. Ki	ngston.	Toronto.	London.	Sun	on Meridian	
Ne Fir	st Quar w Moor st Quar Il Moor	n,	8 15 21	h. m. 6 13 m 1 15 m 6 31 ev 8 46 ev	0. 6 0. 1	m. 1 mo. 3 mo. 19 ev. 34 ev.	h. m. 5 50 mo. 0 52 mo. 6 7 ev. 8 22 ev.	h, m. 5 42 mo. 0 44 mo. 5 59 ev. 8 14 ev.	d. 1 9 17 25	h. m. s. 11 59 40 11 57 0 11 54 13 11 51 26	
1	DAYS.	Mon	treal.	Toro	nto.	Sun's Declinat	The Moon.				
M.	Week.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	North.	R. & S.	Calenda	r, As	pects, &c.	
1	Sat.	h. m. 5 26	h. m 6 34	h. m. 5 28	h. m. 6 32	Deg. Min 8, 2	h. m. 6 43	Very fine	day.		
2 3 4 5 6 7 8	G. Mon. Tues. Wed. Thu. Fri. Sat.	5 28 29 30 31 32 33 35	6 32 30 28 26 24 23 21	5 30 31 32 33 34 35 36	6 29 28 26 25 23 21 20	7 40 7 18 6 56 6 34 6 11- 5 49 5 26	7 4 7 24 7 50 8 21 8 58 9 43 10 39	Good wand most pleasant. Toward through	Sunday after Trinity, ood weather continue most of this week i sant: ward the end anough the moon's laster disposed to rain.		
9 10 11 12 13 14 15	G, Mon. Tues. Wed. Thu. Fri. Sat.	5 36 37 39 40 42 43	6 19 17 16 14 12 10,	5 37 38 39 40 41 42 43	6 18 16 15 13 11 9	5 3 4 41 4 18 3 55 3 32 3 9 2 45	Morn. 57 2 (14) 3 32 4 50	This week A good orain. The leave colour, but	arter disposed to rain. The Sunday after Trinity, this week very unsettled a good deal of wind and in. The leaves are changing tour, but there will be not the fost of severity. The Sunday after Trinity, weather fair and fine. Again changeable. Rather pleasant, again changeable.		
16 17 18 19 20 21 22	G. Mon. Tues. Wed. Thu. Fri. Sat.	.5 45 46 48 49 50 51 52	6 6 4 2 6 0 5 58 56 56	5 45 46 47 48 49 50 52	5 3 1 5 57 56 54	2 22 1 59 1 36 1 12 0 49 0 26 0 2	6 33 7 41 8 26 9 16 10 18 11 20	Weather Again ch Not disa Rather I St. Mather			
23 24 25 26 27 28 29	G. Mon. Tues. Wed. Thu. Fri. Sat.	5 54 56 56 57 59 6 00	5 54 52 50 48 46 44 42	5 52 53 54 55 57 59 6 00	5 52 50 49 47 45 43 40	South. 0 44 1 7 1 30 1 54 2 17 2 40	Morn. 28 1 32 2 36 3 37 4 36 Rises.	Settled a If wind there will the end of by the mod			
30	G.	6 2	5 40	6 1	5 39	2 54	5 30	17th Sundi	ay aft	er Trinity.	

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SEPTEMBER.—A bit of good advice is here:—To prevent confusion and embarrassment, and keep all things clearly and plainly before the farmer at the right time, he should carry a small book in his pocket, baving 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 proper places, according to time and season, and then brought to trial. Much confusion and delay will thus be prevented, and the work of the farm proceed with regularity and satisfaction.

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	Moon's	Phases	3.	Montrea	l. Kin	Kingston. To			London.	Sun on Meridian,			
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М.	Week.	Sun Rises,	Sun		Sun Sets.	Sou	th.	R. & S		ar, Aspects, &c.			
1 2 8 4 5 6	Mon. Tues. Wed. Thu. Fri. Sat.	h. m. 6 3 4 5 7 8	h. m 5 38 36 34 32 30 27	6 2 4 5 6	h. m. 5 38 36 34 33 32 29	Deg. 3 3 4 4 5 5 5	Min. 27 50 14 37 0 23	h, m 5 55 6 26 6 55 7 4 8 3 9 35	October santly, and be gather ruption.	Some rain, but you nee not be alarmed. 18th Sunday after Trinity			
7 8 9 10 11 12 13		6 11 12 13 14 15 16 18	5 25 24 21 20 19 17	9 10 11 12 14	5 27 26 24 29 20 19	5 6 6 7 7 8	46 9 32 54 17 40 2	10 38 11 53 Morn 1 (2 2) 3 3(4 5)	Fair we Moon's la wind be West.	18th Sunday after Trinity Fair weather through the Moon's last quarter if the wind be North or North			
14 15 16 17 18 19 20	G. Mon. Tues. Wed. Thu. Fri. Sat.	6 20 21 23 24 25 26 28	5 12 9 7 5 4 2	17 19 20 21 22	5 15 13 12 9 8 6 5	8 8 9 9 9 10	25 47 9 31 53 14 36	Sets. 5 3 6 1 7 8 9 16 10 1	Changer Tendene Some fr St. Luk Pleasan	windy and lair. 19th Sunday after Trinity. Changeable. Tendency to rain. Some frosty nights. St. Luke. Pleasant days. Dull weather.			
21 22 23 24 25 26 27	Tues.	6 29 31 32 33 35 36 38	4 59 57 58 53 52 50 59	27 28 29 30 31	5 3 2 4 59 58 57 56 54	10 11 11 12 12 12 12 13	57 18 39 0 21 41 2	11 2 Morn 0 2 1 2 2 2 3 2 4 2	You m variable, o agreeable the end of	20th Sunday after Trinity, You may look for dull, variable, damp and not very agreeable weather toward the end of this month.			
28 29 30 31	Tues.	6 39' 41 42 43	4 47 46 46 48	35 38	4 53 52 50 48	13 13 14 14	22 42 1 21	Rises 5	20 21st Sunday after Trinity and Sts. Simon and Jude, 1 The rain is cold and the in winter approaches.				

OCTOBER.—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 requisites; to lay it out in the best manner; to provide it well with fences, gates, and buildings; to select the best animals and the best implements to be had at reasonable rates; to bring the soil into good condition by draining, manuring, and good culture; to have every part under a good rotation of crops; and every operation arranged, so as the whole may be conducted without clashing and confusion. Try these methods.

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N.	Moon's	Phase	28,	Montre	al. Ki	ingsto	n. 5	Toronto.	London.	Sun	on M	erid	ian
Last Quar New Moon First Quar Full Moon		n, 12 rter, 20		h. m. 4 23 mo. 7 42 ev. 3 59 mo. 6 44 mo.				h. m. 4 00 mo. 7 19 ev. 3 35 mo. 6 20 mo.	h. m. 3 52 mo. 7 11 ev. 3 27 mo. 6 12 mo.	d. 1 9 17 25	h. 11 11 11 11	m. 43 44 45 47	8 45 5 16 25
]	DAYS.	Montreal.		Tor	onto.		n's linat.	The Moon.	Calendar, Aspects, &c.				
м.	Week.	Sun Rises,	Sun Sets.	Sun Rises.	Sun Sets.	South.		R. & S.					
1 2 3	Thu. Fri. Sat.	h. m. 6 44 46 48	h. m. 4 44 42 40	h. m. 6 41 43 44	h. m. 4 47 45 44	Deg. 14 ,14 ,15	Min. 40 59 18	h, m. 6 29 7 27 8 32	All Saints. Heavy, dull and chilly. Nights cold and frosty				
4 5 6 7 8 9	G. Mon. Tues. Wed. Thu. Fri. Sat.	6 49 50 52 54 55 56 57	4 39 37 36 34 32 31 29	6 45 47 48 49 50 51 53	4 43 41 40 39 38 36 35	15 15 16 16 16 17 17	36 54 12 30 47 4 21	9 41 10 51 Morn. 4 1 16 2 32 3 48	The asp are not p who have work.	22nd Sunday after Trinity The aspects of this wee are not pleasant for thos who have much out doc work. Rain and cold.			eek
11 12 13 14 15 16 17	G. Mon. Tues. Wed. Thu. Fri. Sat.	6 58 7 0 1 3 5 6 7	4 28 27 26 25 24 23 22	6 54 55 56 58 7 00 1 2	4 34 33 32 31 30 29 28	17 17 18 18 18 18 19	38 54 10 26 41 56	5 7 Sets. 4 51 5 47 6 52 7 59 9 8	The mid generally p has been	aday after Trinity, iddle of this month pleasant, yet there snow in Lower and dull cold rain Canada.			
18 19 20 21 22 23 24	G. Mon. Tues. Wed. Thu. Fri. Sat.	7 8 11 12 13 14 16 17	4 21 20 19 18 18 17 16	7 3 5 6 7 8 10 11	4 27 27 26 25 25 24 24	19 19 19 20 20 20 20	25 38 52 5 18 30 42	10 41 11 19 Morn, 19 1 19 2 19 3 17	24th Sunda Look out in Lower C Snowy as St. Cocilia U. Canad but the rai	for anad	a real a. ld.	stor	rm
25 26 27 28 29	G. Mon. Tues. Wed. Thu.	7 18 19 21 22 23	4 15 15 15 14 13	7 12 13 15 16 17	4 23 22 21 22 20	20 21 21 21 21 21	54 5 16 27 37	4 20 5 22 6 25 Rises, 5 21	25th Sunda and S Wind an Rain and Changea	t. Can d rai l win ble an	tharian. d. ad col	ne.	ty,

NOVEMBER .- 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 lest by careless tillage, broken fences, unhinged gates, and fields filled with weeds. Tools destroyed, property wasted, and disorder triumphant, will produce unpaid debts, duns, and sheriffs' executions. Avoid these ills by diligence and industry

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St. Andrew's Day.

1860.] MEMORANDUM FOR NOVE	MBER.
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MONTH. DECEMBER, 31 Days. Begins on Saturday.

Moon's Phases. Montreal. Kingston. Toronto. London. Sun on Meridian.

Ne Fir	st Quar w Moo st Qua ll Moor	n, rter,	5 12 20	1 7 ev. 7 54 mo. 1 16 mo.		0 55 ev. 7 42 mo. 1 4 mo.		m. 43 ev. 31 mo. 52 mo. 00 ev.	h. m. 0 35 ev. 7 23 mo. 0 44 mo. 9 52 ev.	d. 1 9 17 25	h. m. s. 11 49 29 11 58 52 11 56 42 12 0 41		
1	DAYS. Mo		treal.	Toro	onto.	Sun's Declinat.		The Moon.	61-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				
ж.	Week.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	South.		R. & S.	Calendar, Aspects, &c.				
1	Sat.	h. m. 7 26	h. m. 4 12	h. m. 7 19	h. m. 4 19	Deg.	Min. 56	h. m. 7 32	Generall	y ple	asant.		
2 3 4 5 6 7 8	G. Mon. Tues. Wed. Thu. Fri. Sat.	7 28 28 29 30 31 32 33	4 12 12 11 11 11 11 11	7 21 21 22 24 25 26 27	4 19 19 18 18 17 17	22 22 22 22 22 22 22 22 22	5 13 21 28 35 42 48	8 44 9 55 11 7 Morn, 18 1 32 2 47	1st Sunday in Advent. Changeable. Snow and wind. Sleighing in L. Canada. Wait for it in U. Canada. Weather now rather dis agreeable and stormy.				
9 10 11 12 13 14 15	G. Mon. Tues. Wed. Thu. Fri. Sat.	7 33 35 35 36 37 38 39	4 11 11 11 11 11 11 11 12	7 28 28 29 30 31 32 32	4 18 18 18 18 18 18 18	22 22 23 23 23 23 23 23	54 59 4 9 12 16 19	4 2 5 21 6 32 Sets. 5 39 6 48 7 57	2nd Sunday in Advent, This week threatens to be windy, rainy and snowy. Very much like winter, Keep cattle warm and yourself too,				
16 17 18 19 20 21 22	G. Mon. Tues. Wed. Thu. Fri. Sat.	7 40 41 42 42 43 43 44	4 12 13 12 13 13 14 14 14	7 33 33 34 36 36 37 37	4 19 19 20 20 20 20 20 21	23 23 23 23 23 23 23 23 23 23	21 23 25 26 27 27 27	9 3 10 5 11 8 Morn. 6 1 6 2 7	days, and ;	y fai you w kful f	r for a few vill have real for what you have and re-		
23 24 25 26 27 28 29	G. Mon. Tues. Wed. Tu. Fri. Sat.	7 44 45 45 45 45 46 46	4 15 15 16 16 17 18 18	7 38 38 38 38 38 38 38 38	4 21 22 23 24 24 25 26	23 23 23 23 23 23 23 23 23	26 25 23 21 18 15	2 8 4 11 5 13 6 14 Rises. 5 20 6 31	St. Stephe St. John Holy In	Day.	y your debts. Evangelist.		
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DECEMBER.—It has been properly remarked, that farmers do not sufficiently sub-divide their yards in winter. Large and small animals are turned in promiscuously. The larger ones are very ferocious and domineer over their inferiors, but are careful not to provoke the wrath of their equals. Turn those together which are of similar size, and they will be more quiet all round Calves are too much neglected, and come out small and puny in spring. A 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 supplied with good water, and they will present a good and sleek appearance in spring.

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The Royal Family.

THE QUEEN.

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

ISSUE :

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

Albert Edward (Prince of Wales,) born November 9th, 1841. Alice Maud Mary, born April 25th, 1843.

Alfred Ernest Albert, born August 6th, 1844. Belena Augusta Victoria, born May 25th, 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, 1786; married May 29th, 1818, to Edward, Duke of Kent, who died January 23rd, 1820. Issue—The Queen.

THE QUEEN'S COUSINS.

George V., King of Hanover, born May 27th, 1819. George, Duke of Cambridge, born March 26th, 1819.

Princess Augusta, (Duchess of Mecklenberg Strelitz), born July 19th, 1822.

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

CANADA.

THE GOVERNOR GENERAL,

AIDES-DE-CAMP, &c.

Sie Edmund Walker Head, Bart., Governor General of British North America, and Captain General and Governor-in-Chief of the Provinces of Canada, New Brunswick, Nova Scotia, and the Island of Prince Edward, &c., &c.

R. T. Pennefather, Governor General's Secretary.

Captain Rettallack, 63rd Regiment, Military Secretary and Aide-de-Camp.

Colonel Irvine, Provincial Aide-de-Camp.

EXECUTIVE COUNCIL.

President of the Council and Minis-

Commissioner of Crown Lands....Hon. ?. M. Vankoughnet, Commissioner of Public Works....Hon. John Rose.

Speaker of Legislative Council...Hon, N. F. Belleau. Provincial Secretary......Hon, Charles Alleyn.

OFFICERS:

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

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

Geological Survey.—Sir Wm. E. Logan, Provincial Geologist; A. Murray, Assistant ditto; T. S. Hunt, Chemist and Mineralogist; E. Billings, Palcontologist.

EDUCATIONAL DEPARTMENT.

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

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

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. Lunn; 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 ditto; A. Marling, First Clerk and Clerk of Accounts; A. J. Williamson, Clerk of Correspondence; F. J. Taylor, Clerk of Statistics; H. Butterworth, Assistant ditto; S. P. May, Clerk of Libraries; T. Churchill, Depository Clerk; J. T. R. Stinson, Assistant Clerk; C. Alderson, Packer and Depositary Messenger; James Moore, Office Messenger.

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PERMANENT OFFICERS OF THE LEGISLATIVE ASSEMBLY.

CHIEF DEPARTMENT.—Wm. B. Lindsay, Clerk; W. B. Lindsay, Jr., Clerk Assistant; Alfred Patrick, Deputy Clerk Assistant and Chief Clerk of Committees and Controverted Elections; Thomas Vaux, Accountant; Charles Langevin, Assistant ditto.

LAW CLERK'S DEPARTMENT.—G. W. Wicksteed, Law Clerk; D. P. Myrand, Assistant French Law Clerk; F. Badgley, Assistant English Clerk.

GENERAL DEPARTMENT.—W. P. Patrick, Chief Office Clerk; Henry Hartney, Assistant ditto; Wm. Spink, Clerk Routine and Records; H. B. Stuart, English Writing Clerk; Edouard Dénéchaud, French ditto; P. Rivet, A. G. D. Taylor, H. J. McCarthy, J. F. Gingras, and P. H. Blais, Junior Clerks.

COMMITTEE DEPARTMENT.—Alfred Patrick, Clerk of Committees and Controverted Elections; J. P. Leprohon, 1st Assistant ditto; F. X. Blanchet, 2nd ditto.

PRIVATE BILL DEPARTMENT.—Alfred Todd, Chief Clerk of Private Bills and Clerk of Votes; Thaddeus Patrick, Assistant ditto, and Clerk of Railroad Committee; W. B. Ross and Herrman Poetter, Assistants ditto.

TRANSLATORS.—D. P. Myrand, Chief French Translator; Wm. Fanning, E. P. Dorion, A. Desilets and T. G. Coursolles, Assistants ditto; F. Badgley, English Translator; Wm. Wilson, Assistant ditto; F. Hays, Extra ditto.

JOURNAL DEPARTMENT.—G. M. Muir, English Journal Clerk; W. C. Burrage, Assistant ditto; P. E. Gagnon, French ditto; W. H. Lemoine, Assistant ditto.

LIBRARY DEPARTMENT.—Alpheus Todd, Librarian; A. G. Lajoie, Assistant ditto; A. Lapevière, Clerk.

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

PERMANENT OFFICERS LEGISLATIVE COUNCIL.

John F. Taylor, Clerk of the House, Master in Chancery, and Acting
Accountant.

Robert Lemoine, Deputy and Assistant Clerk, Master in Chancery, and French Translator.

Fennings Taylor, Deputy and Assistant Clerk, Master in Chancery, and Chief Office Clerk.

Joseph E. Doucet, Additional Clerk Assistant, and Assistant French Translator.

W. Anstruther Maingy, Additional Clerk Assistant and Second Office Clerk.

James Adamson, Clerk of the English Journals.

R. G. Belleau, Clerk of the French Journals.

John McGillivray McLean, Clerk.

W. Agar Adamson, D. C. L., Chaplain and Librarian.

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E. L. Montizambert, A. M., Law Clerk, acting also as English Translator and Clerk of Select Committees.
René Kimber, Gentleman Usher of the Black Rod.
O. Vallerand, Sergeant-at-Arms.

E. Botterell, Door-keeper.
M. Keating, House-keeper and Chief Messenger.
S. Skinner, Assistant House-keeper and Messenger.

F. Boulet, J. Casault, A. Lachance, J. Doherty, J. Hanley, J. Young, Peter Dunn, J. Pageau, Patrick Madigan and J. B. Myrand, Messengers.

PUBLIC DEPARTMENTS.

Civil Secretary's Office.—R. T. Pennefather, Secretary; Henry
Cotton, chief clerk; John Kidd, 2nd clerk; Philip Hill, office keeper;

George Boxall, messenger.

Provincial Secretary's Office.—Hon. Charles Alleyn, Provincial Secretary; Etienne Parent, Assistant Secretary East; Edmund A. Meredith, Assistant Secretary West; Thos. Ross, Accountant of the Contingencies and Receiver of Marriage License Fees; S. Tetu, W. H. Jones, and G. S. Bertrand, first class clerks (east); J. Mackay, and H. B. 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 REGISTRAR'S OFFICE.—Hon. Charles Alleyn, Provincial Registrar; William Kent, Chief Clerk; G. H. Lane, Second ditto; Amable Bélanger, Assistant ditto; and J. A. Bélanger, Extra ditto;

Maxime Valiquette, Messenger.

RECEIVER GENERAL'S OFFICE.—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, Clerk 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.

DEPARTMENT OF THE MINISTER OF FINANCE.—Hon. A. T. Galt, Minister of Finance; Joseph Cary, Deputy Inspector General; William Dickinson, Acting Deputy ditto; David A. Ross, Chief Clerk; Norris Godard, Book-keeper; John Drysdale, ditto; 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 Accounts; Thomas Cruse, Book-keeper; Thomas D. Tims, Assistant ditto; C. Camble, Registrar of Free Banks; Christopher Green, James Patterson,

Edward C. Barber, Clerks.

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

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MILITARY.

Lieut. General Sir W. F. WILLIAMS, Bart., K.C.B., Commanding the Forces in British North America.

Major W. J. Williams, Royal Artillery, Military Secretary.

Capt. O. B. B. Woolsey, Royal Artillery, and Lieut. R. Grant, Royal

Engineers, Aides-de-Camp.

MILITARY SECRETARY'S DEPARTMENT.—Major W. J. Williams, Military Secretary; P. Lawlor, 1st Clerk; J. R. Spong, R. G. Greig, and M. Riordan, Clerks; R. Dalgleish, Office-keeper.

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

QUARTERMASTER GENERAL'S DEPARTMENT.—Colonel Napier, C.B., Deputy Quartermaster General; N. Hughes, 1st Clerk; E. Roe and A. Mitchell. Olerks.

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

HEAD QUARTERS, ROYAL ENGINEERS OFFICE.

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

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

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

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

COMMISSARIAT DEPARTMENT.

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

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

Kingston — Assist. Com. Genl. Cumming; Deputy Assist Com. Genl. S. B. Brown.

Toronto.—Assist. Com. Gen. Goold; Deputy Assist. Com. Gen. Wild.
ARMY MEDICAL STAFF.—J. Clarke, Surgeon Major in charge, Montreal;
B. B. Tuson Staff Surgeon, Montreal; W. Odell, M.D., Staff Surgeon 1st

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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; ----, Purveyor's Clerk, 1st class; B. Abbott and Mr. Moore, Purveyor's Clerks, 2nd class, Montreal.

REGIMENTS IN CANADA AND OFFICERS COMMANDING.

Montreal .- Hend Quarters of the Army in Canada.

Royal Artillery, Colonel Taylor.

Head Quarters Royal Canadian Rifle Regiment,

Quebec .- Royal Artillery, Colonel Dalton.

17th Regiment, Lieut. Colonel Gordon.

Detachment Royal Canadian Rifle Regiment.

Kingston,-Detachment R. C. Rifle Regiment. Toronto. - Detachment R. C. Rifle Regiment.

COURTS OF JUSTICE.

According to 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,

Puisné Judges.

W. C. Meredith.

Chs. Mondelet, Assistant Judge.

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

COURTS IN APPEAL AND MERCE.

* Montreal-1st March, 1st June, 1st September and 1st December. Quebec-12th March, 12th June, 12th September and 12th December. J. U. Beaudry, Clerk 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 September.

Sherbrooke-12th February and 20th September.

Kamouraska-5th to 10th April and 21st to 26th October.

Aylmer-10th June and 10th December.

Terms to continue till the business is closed. Extraordinary terms may be held by proclamation.

By the 17th Section of the 20 Vict., cap. 44, cases in Appeal from the Districts of Ottawa, Montreal, Terrebonne, Joliette, Richelieu, St. Francis, Bedfor., St. Hyaichte, Derville and Beauharnois, are to be heard and determined at the City of Montreal only, and the writs in such cases are returnable there; and cases in Appeal from the Districts of Three Rivers, Quebec, Saguenay, Gaspé, Rimouski, Kamouraska, Montmagny, Beauce and Arthabaska are to be heard and determined at the City of Quebec only, and the writs in such cases are returnable there.

Honorable Edward Bowen, Chief Justice:

JUDGES.

- " Charles Dewey Day.
- James Smith. J. A. Taschereau.
- 23 Hypolite Guy.
- William Power.
- 66 Peter Winter.
 - Andrew Stuart,
 - S. C. Monk, J. A. Berthelot.

Hon. Dominique Mondelet, Hon. Edward Short.

- Auguste N. Morin.
- 11 William Badgley. 11 Jean Chabot.
- 11 John S. McCord.
- 33 Jean C. Bruneau. 16
- David Roy.

Assistant Judges.

* Monteral. -- † Hochelaga, Jacques Cartier, Laval, Vaudreuil, Soulanges, Laprairie, Chambly and Vercheres and City of Montreal -- Held at Montreal from 17th to 27th of every month, except January, July and August. Monk, Coffin & Papineau, Prothonotary; John Boston, Sheriff.

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

OTTAWA .- Ottawa and Pontiac -Held 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,

QUEBEC DISTRICT.

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

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

Portneuf Circuit, held at Cap Santé, 7th to 16th January, May and September. Clerk, R. Lelièvre.

MONTRHAL DISTRICT.

Montreal Circuit, held at Montreal, 10th to 15th of every month, except January, July and August. Clerk, Monk, Coffin & Papineau.

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

Soulanges Circuit, held at Côteau Landing, 6th to 10th March, July and November. Clerk, H. J. Sentenne.

OTTAWA DISTRICT.

Ottawa Circuit held at Aylmer from 20th to 25th January, May and September, Clerk, H. Driscoll.

* Districts. † Counties, &c., comprised.

Appeals from the Circuit Court to the Queen's Bench are allowed, by the 28 Vict. eap. 44, sec. 60, in cases over twenty-five pounds currency. Every day not a Sunday or a Holy day is a Juridicial day.

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GENERAL QUARTER SESSIONS OF THE PEACE.

Chairman: CHARLES J. COURSOL.

A. M Delisle and W. H. Brehaut, Clerk of the Peace; C. E. Schiller,
Deputy Clerk of the Peace; L. D. Rene Cotret and
Clerks.

TERMS.

Montreal: 4th to 14th February, May, August and November.

Quebec: 8th January, 4th April, 4th July and 4th October. Clerk, Pierre A. Doucet.

Three Rivers: 8th January, 4th April, 4th July and 4th October. Clerk, L. U. A. Genest.

Sherbrooke: 8th January, 8th April, 8th July and 8th October. Clerks, Short & Morris.

Kamouraska: 7th January and 15th July. Clerks, Chalou & Dery.

Aylmer: 5th April and 5th October. Clerk, H. Driscoll.

Percé, Gaspé Basin, New Carlisle and Carleton: On the three days following the Circuit Court. Clerks, Wilkie & Harper.

LAW COURTS OF UPPER CANADA.

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

Clerk-The Registrar of the Court of Chancery, Toronto.

COURT OF CHANCERY.—Hon. W. H. Blake, chancellor; Hon. J. C. P. Esten and Hon. J. G. Spragge, vice-chancellors; A. N. Buell, master, Alexander Grant, Registrar and reporter.

Terms for examination of witnesses commence on the second Tuesday in February and May, last Tuesday in 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, June, September and December, and ead on the Saturday of the follow-

ing week.

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

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

COURT OF QUEEN'S BENCH.—Hon. Sir J. B. Robinson, Bart, chiefjustice; Hon. Archibald McLean and Hon. R. E. Burns, puisne judges; C. C. Small, clerk of the Crown and pleas; C. Robinson, reporter; Robert Pearson, clerk of the process; W. B. Heward, clerk in Banc. and chambers; W. B. Heward, clerk in practice court.

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

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COURT OF COMMON PLEAS.—Hon. W. H. Draper, C. B., chief justice; Hon. W. B. Richards and Hon. J. H. Hagarty, pulsue judges; L. Heyden elerk of the Crown and pleas; E. C. Jones, reporter.

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

LAW TERMS.

QUBEN'S BENCH AND COMMON PLEAS.—Hilary Term begins on the first Monday in February. Easter Term begins on the third Monday in May. Trinity Term begins on the Monday next after the 21st of August Michaelmas Term begins on the third Monday in November. And each term ends on the Saturday of the ensuing week.

From the 1st July to the 21st August is vacation in all the Courts.

Circuits are held twice a year in each County, viz.: The Spring Circuit between Hilary and Easter Terms, The Autumn Circuit between 1.

Trinity and Michaelmas Terms.

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

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

COURT OF PROBATE.—The Governor General, judge (ex-officio); Secker Brough, Toronto, Official principal; C. FitzGibbon, Toronto, registrar.

POST OFFICE DEPARTMENT.

Honorable Sydney Smith, Post-Master General.

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

Money Order Branch.—P. Lesueur, Superintendent.

CLASSIFICATION OF CLERKS.

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

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

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

John Hinifin, Office Keeper.

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MONTREAL.

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

James Simpson, Assistant Postmaster.

P. W. Cooper, B. McEvenue, M. Emery, H. A. R. Huddle, McDuff Simpson, M. Murphy, J. Maitland, U. Benoit, John McKeon, Alexander Robertson, L. Malard, W. McGillivray, John Muir and O. Raymond, Clerks.

P. O'Reilly, John J. Drew, A. Auger and L. Lafricain, Letter Carriers.
Office Hours: from 8 A. M. to 7 P. M; and from 8 to 10 A. M.
on Sundays.

REGULATIONS AND RATES.

Letter Rates.—Letters posted in Canada addressed to any place within the Province pass, if prepaid, for 5 cents per ½ oz., but if posted unpaid are charged 7 cents per ½ oz.

On Letters to Nova Scotia, New Brunswick and Prince Edward's Island the rate is 5 cents per 1 oz., with optional pre-payment.

The rate on letters to the United Kingdom will be:

By Canadian Packet 121 cents per 1 ounce.

By Cunard " 17 " "

Letters for the United Kingdom must be prepaid, or they will be charged a fine of 6d. sterling on arrival in England.

Letters for British Colonies and possessions beyond sea, and for Foreign Countries, via England, must be prepaid.

The rate on Letters for the United States, (except

California and Oregon), 10 cents per 1 om.

Registration Charges.—For the Registration of a Letter addressed to any place in British North America the charge is 2 cents.

For the Registration of a Letter to United Kingdom 121 cts.
"United States 5"

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

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

For a paper published 6 times a week 2s. per qr., or 40 cents.
" " 1s. " 20 "
" 18. " 13 "
" 18. " 13 "

When the above rates are not paid in advance by either Publisher or Subscriber, such Papers are charged one cent each on delivery.

Newspapers by Mail from England or United States.—Newspapers received from England by the Canadian Packet Mails are delivered free.

Newspapers from England by the Cunard Packet Mails are charged 2 cents each on delivery. (This is the American transit charge.)

United States Newspapers, brought by Mail into Canada, are charged one cent each on delivery.

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Postage Stamps.—Postage Stamps of the respective values of 1 cent, for Newspapers; 5 cents for ordinary Provincial Letters; 10 cents for United States rate; 12½ 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 weight; 12½ cents on ½ lb. packets; and 12½ cents additional for every additional ½ lb. These charges must be

prepaid

Penal Clause .- The Act contains the following penal clause:

To inclose a letter, or letters, or any writing intended to serve the purpose of a letter, in a Parcel posted for the Parcel Post, shall be a

misdemeanor.

To inclose a letter or any writing, or to make any written mark to serve the purpose of a letter, or to inclose any other thing in a newspaper posted to pass as a newspaper, at the rate of postage applicable to newspapers, except in the case of accounts and receipts of newspaper publishers, which are permitted to pass folded within the 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:

Unde	r and up	to \$10										5	cents.
Over'	\$10 and	not exceeding	\$20				. 10					10	66
"	20	((30			٠.				à		15	- 66
66	30	11	40	6								30	66
11	40	11	60				è		١.			45	66
66	60	11	80									60	"
66	80	"	100										66

No single order can be issued for more than \$100.

N.B .- No HALF CENTS to be introduced in the Money Orders.

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

FARMING.

A German 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.

WEEDS.—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.

NEWSPAPERS .- There are 3,364 newspapers published in the United States and territories; of which 613 are in New York, 419 in Pennsylvania, 382 in Ohio, 221 in Illinois, and 219 in Massachusetts. There are 50 in Canada, 5 in the Sandwich Islands, and 2 in New Brunswick. In England and Wales there are 272; in Scotland, 66; in Ireland, 113; and in the British Isles and Jersey, 17. There are about 1,500 in Germany, about 600 in France, 30 or 40 in Spain, very few in Italy, 13 in Constantinople, and about 100 in Russia.

TO ASCERTAIN THE LENGTH OF THE DAY AND NIGHT.

Ar any time of the year, add 12 hours to the time of the sun'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 remainder add the time of rising next morning, for the length of the night. These rules are equally true for apparent time

TRUM TIME.

Two kinds of times are used in Almanacs; clock or mean-time in some, and apparent or sun-time in others. Clock-time is always right, while sun-time varies every day. People generally suppose it is twelve o'clock when the sun is due south, or at a properly made noon-mark. But this is a mistake. The sun is seldom on the meridian at twelve o'clock; indeed this is the case only on four days of the year: namely, April 15, June, 15, Sept. 1, and Dec. 24. In this Almanac as in most other Almanacs, the time used is clock-time. The time when the sun is on the meridian or at the noon-mark, is also given to the nearest second, for the 1st, 9th, 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 Almanacs, which use clock-time, give the rising and setting of the sun's upper limb, and duly allow for refraction. The practice of setting timepieces by the rising or setting of the sun or moon is not strictly correct, as the unevenness of the earth's surface and intervening objects, such as hills and forests near the points of rising and setting, occasion a deviation in every place, from the time expressed in the Almanac, which time is adapted to a smooth, level horizon. The only means of keeping correct time is by the use of a noon-mark, or a meridian

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

TELEGRAPH LINES .- In America, 45,000 miles; in England, 10,000; in France, 8,000; in Germany and Austria, 10,000; in Prussia, 4,000; in Russia, 5,000; in the rest of Europe, 7,650; in India, 5,000, in Australia, 12,000; elsewhere, 500. Total in 1858, 96,350. Over all the lines in the United States the number of messages per year is estimated at

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4,000,000. It is supposed that a telegraph could be laid around the globe for less than half the cost of the Eric railroad.

COAL FIELDS OF EUROPE AND NORTH 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.

RAILROAD TRAVELLING.—The statistics on this subject prove that this mode of travelling is much safer than the old modes. Thus in the French post system there were nearly seven times as many deaths as in an equal number of miles by railroad. Yet the number of accidents is inexcusably great, especially in the United States. The summary of several years shows.

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 In Prussia, killed, or wounded, 1, 1,494,075
 In England, killed or wound- 1, in passengers. 1, in passenge

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

POPULATION OF THE GLOBE.—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;

or more than twelve hundred millions. Reckening 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 minute. Thus one human being dies on an average every second, and more than one is born.

The entire population is thus divided in point of religion:

Christians—Protestants	Jews	160,000,000
Total	of the second substitution in	

This estimate is judged to be in some particulars rather too large.

The average size of living beings on the earth, midway between the smallest microscopic animalcule and the whale, is one-third of an inch in length—the common house fly.

DIFFERENCES OF TIME.—When it is 12 o'clock at noon in New York city it is forenoon at all places west of New York, and afternoon with all places east; as by the following table:

		. 36		and the state of t	P	M	M.	
Philadelphia	11	55	52	Lubec, Me	12	28	06	
Buffalo, N. Y	11	56	32	St. Helena	4	33	40	
Charleston, L. C	11	36	40	London, Eng.	4	55	42	
Cinciunati, Ohio	11	16	18	Rome, Italy	.5	46	03	
New Orleans, La.	10	55	40	Jerusalem	7	17	24	
Oregon City	-8	46	40	Calcutta	10	49	36	
Honolulu, Sandwich Islands	6	24	08	Montreal	12	01	99	

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

ANTIQUITY OF FARMING.

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

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

were seen alone!

MONEY MADE BY FARMING.

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

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

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This exchange of labor between the farmer and the three classes of persons named, is one of the beautiful and beneficial features in civilized life and social economy. It is essentially the same between the farmer and every other class of persons. They are all living upon his labor, or are employed in completing the processes he has begun for sustaining the fabric of human society. Without him they could not subsist. they were to fail of receiving his products, they all would cease to exist, or else they would be obliged to become farmers themselves. This is not mentioned to create odium against either class of persons in the community, but simply to show the relation between all classes, and the dependence severally of each upon any other one. It is strange, therefore, that it should ever have been imagined, that the occupation of the farmer is subordinate, or in any respect less reputable than that of any other persons. If a comparison were to be instituted, for which there is no occasion, the advantage would be the other way. It would be found that all others would be subordinate to him, and in some measure dependent upon him. So far as respectability is concerned, 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 talents in the persons who have it in trust; and, on the other hand, an occupation that in itself is subordinate and seemingly without the elements of high consideration, may be elevated and rendered honorable when in the 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 notion that a granary or grain receptacle must necessarily be a building with a floor or windows more or less multiplied in altitude. We may reason by analogy as to what is the cheapest and most effective means of securing perishable commodities from the action of the atmosphere and vermin. In England we put our flour in sacks. Brother Jonathan puts his in barrels, which does not thoroughly answer. * * If Brother Jonathan wishes really to preserve his flour or his 'crackers' undamaged, he makes them to roughly 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 'munmy wheat' of Egypt. This will readily be admitted, but the expense would be queried. Let us examine into this. A canister is a metallic reservoir; so is a gasometer; so is an iron water-tank in a ship, at a railway station, or elsewhere; and a cubic foot of water-tank on a very large scale will be found to cost very much less than a cubic foot of canister on a small scale. And if a bushel of wheat be more valuable than a bushel of water, it will clearly pay to put wheat in huge canisters of iron. The wheat canister, in short, should be a wrought or cast metal tank of greater or less size, according to the wants of the owner, whether for the farmer's crop or the grain-merchant's stock.

"This tank should be constructed of small parts, connected by screwbolts, and consequently easily transported from place to place. The Internal parts should be 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 called a man-hole—that is to say, a canister-top where the lid goes on, large enough to admit a man. When filled with grain, the top should be put on, the fitting of the edge forming an air-tight joint. Wheat put dry into such a vessel, and without any vermin, would remain wheat any number of years. But an additional advantage to such a reservoir would be an air-pump, by the application of which, for the purpose of exhaustion, any casual vermin would be killed. If the grain were moist, the same air-pump might be 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

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ground with perfect safety; and thus cellars might be rendered available for granaries, economizing space of comparatively little value. past. grain would be easily poured in from the surface; and to discharge it, state 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 must 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 difficult in this proposition. is merely applying existing arrangements to unusual cases. sample needs but the practical example to be set by influential people, and the on a l great mass will travel in the same track. To the wealthy 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. 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 rela-

tive 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 excrementations 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

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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, 2.55 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 Agricultural 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 author then proceeded to describe the fisheries guano of Mr. Pettit, and gave the results of several analyses, from which it was deduced that, according to the scale before alluded to, the mean value of the samples tested was £9 7s. 7d. per ton. The manufacture of this guano on a large scale would be carried on by a process of the following nature: A given weight of fishy matter was placed in a large tank, -bin, 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 superabundant moisture forcibly driven off, the partially dry matter was how submitted to a heat not exceeding 212 ° 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 It could be easily separated, and formed an important item in the ecoe of long of the manufacture—since, taking all kinds of fishy matter, we mained an average of three per cent. of oil, worth £25 per ton, or Gree-fourths of the whole expense of the raw material. Another proess might in some cases be adopted with advantage, especially with cartilaginous fish. As to the supply of the raw material, it was believed, from the testimony of many persons on the coasts, that an ample supply of 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 expenses would be £10,643 per annum. From this there would result 3 tons of oil, which, at £25 per ton, would give £2,325, and 1,653 tons of guano, at £7 per ton, or £11,571, making together £13,896 as the amount of sales, or a profit of £3,253.

It was stated that some years ago an inquiry was instituted as to whether the offal and refuse fish of Newfoundland could not be prepared into a manure at a cheaper rate than that already in the market, when was found that there were difficulties in the way, which led to the bandonment of the idea.

SABBATH HYMN AND TUNE BOOK.

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

1. The number, variety and poetic beauty of the hymns relating to the Saviour, his offices and works.

2. The large number of hymns, the utterances of religious emotion, matifitted to quicken and strengthen the Christian graces.

3. The predominance of hymns addressed to God, Father, Son and Holy Spirit.

4. The collection of hymns, relating to particular topics, into appropriate sections, with running titles or scriptural mottoes.

5. The excellent anylitical or philosophical arrangement for the con- and, venience of pastors and choirs, and the edification of all classes.

6. The translation of ancient songs of praise, from the Greek, Latin, French and German, hallowed by the use of the people of God for many centuries.

7. The introduction of hymns, from different branches of the true ucin Church, translated from modern European tongues, thereby creating a band of union among the various members of the Church Catholic.

8. The judicious selection of Chants for the introduction and close of divine worship.

9. The scientific value of the indexes appended to the hymns.

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

Much voluminous testimony is given in its favour, both by American and European scholars and divines.

"I do not believe there is its superior in the English or any other

language."-G. E. Adams, D.D., Me.

"I have no hesitation in affirming it as my deliberate judgment, that the Sabbath Hymn Book is decidedly to be preferred, as a manual of sacred songs, to any other compilation of which I have knowledge."-R. S. Stous, D.D., Mass.

"It is the best collection of sacred lyrics I have ever met with."-J.

A. James, D.D., Birmingham, England.

"It is truly a noble compilation of sacred hymnology, for the closet, the family, and the Church."-H. Wilkes, D.D., Montreal.

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Sole Agents for Upper and Lower Canada.

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