THE GAZETTE

FOR THE YEAR OF OUR LORD

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PROPRIETORS AS A SUPPLEMENT TO THE GAZETTE

RICHARD WHITE, Man. Dir.

GAMETTE PERSTURG CO.

277.7.4 359 L l

PRINTING COMPANY.

1884

THE BIRLL

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NO. 12 HOSPITAL STREET, MONTREAL.

THE GAZETTE

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FOR THE YEAR OF OUR LORD

1884

CALCULATED AND ARRANGED SO AS TO PRACTICALLY SERVE FOR ALL THE PROVINCES.

PRESENTED WITH THE COMPLIMENTS OF THE PROPRIETORS
AS A SUPPLEMENT TO THE GAZETTE.

RICHARD WHITE, Man. Dir.
GAZETTE PRINTING CO-

Montreal;
GAZETTE PRINTING COMPANY.

1884.

Referring to the Pictorial Advertisements on 3 following pages,

LARMONTH & SONS

Most confidently recommend those Machines.

OLDS' PATENT TWO-HORSE POWER AND THRESHER

is certainly the best obtainable. It threshes from 250 to 400 bushels Oats, and 150 to 225 Wheat per day, clean and ready for market. Cylinder open, causing little or no dust when working.

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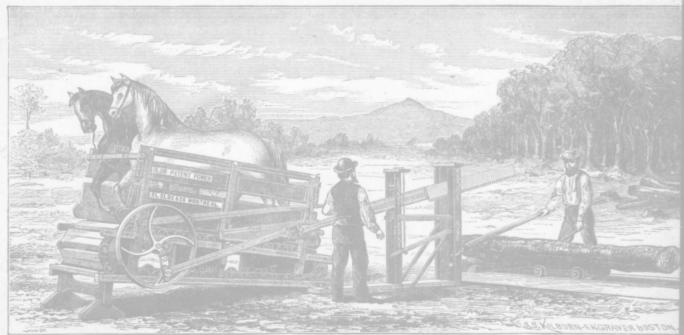
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The Saw one STRONG, Attachments are built COMPLETE AND the COMPACT power frame, forming MACHINE.

ASTRONOMICAL AND OTHER NOTES.

FIXED AND MOVABLE FESTIVALS, 1884.

New Years's Day Circumcision. " 6	Aseension Day
St. George 23	St. Thomas Dec. 21
Rogation Sunday May 18	Christmas Day 25

PRINCIPAL ARTICLES OF THE CALENDAR.

Golden Number	4	Dominical Letters F E
Epact	3	Roman Indiction 12
Solar Cycle	17	Julian Period 6597

The first day of January of the year 1884 is the 2,409,177th day since the commencement of the Julian Period.

The year 5,645, of the Jewish Era, commences on September 20th, 1884.

Ramadân [Month of Abstinence observed by the Turks] commences June 25th, 1884.

The year 1302 of the Modammedan Era commences on Oct. 21, 1884

HOLIDAYS OBSERVED IN BANKS AND PUBLIC OFFICES, PROVINCE OF QUEBEC.

Circumcision, Jan. 1st; Epiphany, Jan. 6th; Annunciation of the Virgin Mary, March 25; Good Friday, April 11th; Ascension Day, May 22nd; Queen's Birthday, May 24th; Corpus Christi, June 12th; St. Peter and St. Paul, June 29th; Dominion Day, July 1st; All Saints Day, November 1st; Conception of the Blessed Virgin, Dec. 8th; Christmas Day, Dec. 25th.

Bank Holidays in Ontario.—Dominion Day, Christmas Day, New Year's Day, Good Friday, The Queen's Birthday.

GENERAL.—Any day appointed by Royal Proclamation as a general Fast or Thanksgiving Day.

SIGNS OF THE ZODIAC.

	φ Aries	.The Ram.	□ Libr	aThe	Balance.
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- 8 Taurus The Bull. M Scorpio The Scorpion.
- ☐ Gemini......The Twins. 7 Sagittarius The Archer.
- & Capricornus The Goat. ≤ Cancer The Crab.
- Ω Leo The Lion. Aquarius The Water Bearer. My Virgo The Virgin.

₹ Pisces The Fishes.

SIGNS OF THE PLANETS

	DIGNS OF THE LLANEI	17.
⊙ Sun.	d Mars.	Ascending Node.
	24 Jupiter.	U Descending Node
♀ Venus.	h Saturn.	d Conjunction.
(Moon.	lfl Uranus.	□ Quadrature, 90°.
D First Quarter.	Ψ Neptune.	8 Opposition, 180°.
O Full Moon.	N. North.	° Degrees.
C Last Quarter.	S. South.	' Minutes.

New Moon. W. West.

MEAN TIME AS COMPARED WITH TWELVE O'CLOCK NOON AT MONTREAL.

PLACES EAST OF THIS MERIDIAN.

	P.	M.		P. M.
Madras, India			Dublin, Ireland	
St. Petersburg, Russia			St. John's, Nfld	
Constantinople, Turkey	6	51	Placentia Bay, Nfld	
Vienna, Austria			Charlottetown, P.E.I	12 41
Berlin, Germany	- 5	48	Halifax, N.S	
Rome, Italy			St. John, N.B	
Paris, France			Boston, Mass	
London, England	4	54	Quebec City	12 9

PLACES WEST OF THIS MERIDIAN.

New York City	11 54 11 51½ 11 48 11 46 11 37	St. Paul. Winnipeg Sacramento, Cal San Francisco Victoria, B.C. Astoria, Oregon. Owbyhee, Sandwich Islands	10 26 8 51 8 45 8 43 8 42 6 35
Hamilton		Sydney, Australia	2 56

1st Mo.		JANU	ARY.	31	Days.	
Moon's Phases.	PHASES. DAY. HALIFAX. MONTREAL. TORONTO. WINNIPEG					
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Month. Day of Month. Week.	NOTE.—The times of sun rising and setting, and moon's phases, are calculated at mean time. ANNIVERSARIES, OCCURRENCES, FESTIVALS, HISTORICAL NOTES, &C. NOTE.—The times of sun rising and setting, and montre sun rising and setting, and setting sun rising and setting sun rising sun rising and setting sun rising sun risi					
2 Wed. Calc 3 Thur. Dou 4 Frid. Wei 5 Satur. Edv 6 SUN. EP 7 Mon. Cab 8 Tues. Gal 9 Wed. Em 10 Thur. Roy 11 Frid. Sch 12 Satur. Lav 13 SUN. Fir 14 Mon. St. 15 Tues. Tal 16 Wed. Edv 17 Thur. St. 18 Frid. Fes 19 Satur. Jan 20 SUN. Sc. 22 Tues. Che 23 Wed. Wil 24 Thur. Fre 25 Frid. Fir 26 Satur. St. 27 SUN. Th 28 Mon. Fir 29 Tues. Vic 30 Wed. Loi	glas Je t Indie vard, th IPHA ul mas dee, asi peror N al Excl legel, G aster, ph st Sur Hilary. ma, Fre vard Gi Anthony tival of the Wal derick, st Color Polycan ist elect toria C d Mete d Mete	ptured, 173 rold born. s discovere s discovere e Conquere NY. sacre, 1842 tronomer, diapoleon II hange, Lon derman crit dysiognomi hday afte ench traged bbon, histo . Mozart f. Helam, h han, actor, itt, statesm the Great, ured Regim p. Dr. Jei ric telegrap toss instit alf born, 1'	d, 1492. or, died 1066 lied 1642. II. died, 1873 don, burnt 1 dic, died 1826 st, died 1801 r Epiphan lian, born 17 orian, died 1 born, 1756. Chair; c, born 1736. fter Epiph istorian, died 1858. an, died 1808 born 1712. tent U. S. A. tener died, 18 or Epipha sh in Englan ited, 1856.	3. 838. 9. 19. 663. 794. 4 1859. 6. 1863. 323. 1ny. d, 1838.	7 42 4 27 7 41 4 28 7 41 4 29 7 41 4 30 7 41 4 31 7 41 4 33 7 40 4 33 7 40 4 35 7 40 4 36 7 40 4 36 7 40 4 36 7 38 4 40 7 38 4 40 7 36 4 48 7 36 4 48 7 36 4 48 7 36 4 48 7 36 4 48 7 36 4 48 7 36 4 48 7 36 4 48 7 36 4 48 7 36 4 48 7 36 4 48 7 36 4 48 7 37 4 59 7 29 4 57 7 29 4 57 7 29 4 57 7 29 4 57 7 29 4 57 7 29 4 57 7 29 4 57 7 29 5 5 7 29 5 5	

The month of good resolutions. Begin the year well by subscribing for THE GAZETTE—\$6 Daily; \$1 Weekly—Each Eight Pages. Remit to

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2nd Mo. FEBRUARY. 29 Days.

Mo	on's Phases	DAY.	HALIFAX.	MONTREAL.	TORONTO.	WINNIPEG.
OF	irst Quarter. ull Meon ast Quarter ew Moon	. 10-11	H. M. 1 41 mor. 0 31 mor. 10 56 eve. 2 19 eve.	H. M. 1 03 mor. 11 53 eve. 10 18 eve. 1 41 eve.	H. M. 0 40 mor. 11 30 eve. 9 55 eve. 1 18 eve.	H. M. 11 28 eve. 10 18 eve. 8 43 eve. 0 06 eve.
Day of Month.	Meek.	's phase	es, are calcul RSARIES, FE	sun rising an lated at mean STIVALS, OCCU AL NOTES, &C.	time.	Sun Sun rises. sets.
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The month on which good resolutions often 'weaken.' Those, however, who have subscribed for either the

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31	rd M	lo.		MA	RCH.	31	Days.
Mo	on's Pa	ASES.	DAY.	HALIFAX.	WINNIPEG.		
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To the business man THE GAZETTE is a profitable necessity. No other in Canada gives such full Market and Financial Information. Subscription, \$6 per annum.

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4th Mo.		AP	RIL.	30	Days.	
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A RELIABLE REPORT OF THE MARKETS

The Venerable Bede, historian, died 735.

Sir Humphrey Davy, chemist, died 1829.

Noah Webster (dictionary) died 1843.

THUR. Restoration of the King (Charles II.) 1660.

King Arthur, of Britain, died 542.

SATUR. Joseph Grimaldi, comedian, died 1837.

Mon. Tues.

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Steamboat and Railway Managers should secure the success of their

Thos. Cromwell, Earl of Essex, beheaded 1540. 4 39 7 33

William Wilberforce, philanthropist, died 1833.4 40 7 32

Ignatius Loyola, founder of the Jesuits, died 1556 4 42 7 30

4 41 7 31

SUN. Seventh Sunday after Trinity—Si. Joseph. 4

First Battle of Plevna, 1877.

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WSUMMER EXCURSIONS

THOROUGH ADVERTISING.

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8th Mo. AUGUST. 31 Davs. MOON'S PHASES. DAY. HALIFAX. MONTREAL. WINNIPEG TORONTO. H. M. 5 49 eve. 9 51 eve. 4 37 eve. H. M. 4 37 eve. 8 39 eve. 3 25 eve. M. 12 eve. 14 eve. Full Moon Third Quarter. New Moon.... 52 eve. 10 10 54 eve. 40 eve. 00 eve. • 9 12 mor. First Quarter. 10 47 mor. 10 24 mor-11 27 mor. Note. - The times of sun rising and setting, and MONTREAL moon's phases, are calculated at mean time. Day Sun Sun ANNIVERSARIES, FESTIVALS, OCCURRENCES, HISTORICAL NOTES, &C. H. M. H. M. Lammas Day. 4 43 7 28 SATUR. Mehemet Ali, Pasha of Egypt, died 1849. 4 45 7 26 SUN. Eighth Sunday after Trinity. 4 46 7 25 Naval Battle of Camperdown, Admiral Duncan 4 477 MON. 4 Lord Howe, naval hero, died 1796. [died, 1863.4 48]7 Tues. Anne, Shakespeare's widow, died 1623. 4 50 7 21 First Atlantic telegraph commenced, 1857. THUR. 4 51 7 19 Armand Richelieu died, 1788. 4 52 7 18 SATUR. Queen Victoria visited Ireland, 1849. 4 53 7 16 Ninth Sunday after Trinity. 4 54 7 14 SUN. Thomas Betterton, celebrated actor, died 1635.4 56 7 13 Dean Conybeare, geologist, died 1857. TUES. 4 57 7 Disraeli created Earl of Beaconsfield, 1876. 4 58 7 14 THUR. 4 59 7 8 Napoleon Bonaparte born, 1769. SATUR, Thomas Fuller, divine and author, died 1661. SUN. Tenth Sunday after Trinity. 4 Battle of Gravélotte, 1870. 47 Robert Bloomfield, poet, died 1823. TUES. St. Bernard, Abbott of Chairvaux, died 1153. THUR, Lady Mary Wortley Montague died, 1762. 86 56 Irish Land Bill passed, 1881. SATUR. Metz invested, 1870. SUN. Eleventh Sunday after Trinity. 116 51 David Hume, historian, died 1766. Louis Phillippe, ex-King of France, died 1850.5 146 48 TUES. Landing of Julius Cæsar in Britain, 55 B.C. 5 15 6 46 Slavery aholished in English territories, 1833.5 166 44 28 THUR.

Now Prepare for the Fall Business, IF YOU DO NOT TAKE A GOOD MONTREAL DAILY PAPER

Loss of H.M.S. Royal George, 1782.

SATUR, Sir John Ross, Arctic navigator, died 1856.

SUN. Twelfth Sunday after Trinity.

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9th Mo. SEPTEMBER. 30 Days. Moon's Phases. HALIFAX. TORONTO. MONTREAL. WINNIPEG. O Full Moon.... 4 26 mor. 1 47 mor. 3 08 mor. 6 01 mor. 6 04 mor. 3 22 mor. 5 38 mor. 2 59 mor. Last Quarter ... New Moon 4 02 mor. 5 23 mor. 6 09 mor. 02 mor. 23 mor. 43 mor. 20 mor. 5 29 mor. 5 06 mor NOTE. -The times of sun rising and setting, and MONTREAL moon's phases, are calculated at mean time. ANNIVERSARIES, FESTIVALS, OCCURRENCES. rises. sets. H. M. H. M. HISTORICAL NOTES, &C. St. Giles. Louis XIV., of France, died 1715. John Howard, philanthropist, born 1726. TUES. Oliver Cromwell died, 1658. Dudley, Earl of Leicester, died 1588. 4 THUR. Malta captured, 1800. SATUR, Stratford-upon-Avon Jubilee, 1769. Thirteenth Sunday after Trinity. Alexandra Docks opened, Liverpool, 1881. 8 Sebastopol taken, 1855. William, the Conqueror, died 1087. The taking of Drogheda, 1649. THUR. Raising of the Siege of Vienna. SATUR. General Wolfe, capture of Quebec, died 1759. SUN. Fourteenth Sunday after Trinity. Opening Liverpool & Manchester Railway, 18305 MON. Fahrenheit (thermometers), died 1735. Cardinal Bellarmin died, 1621. 5 406 William Hazlitt, critic, died 1830. 5 41 6 President Garfield, U.S., died 1881. 5 42 7 SATUR. Siege of Paris began, 1870. 5 44 6 SUN. Fifteenth Sunday after Trinity. Mon. Virgil, epic poet, died 19 B.C. 5 46 5 58

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Thanksgiving for success of allied armies, 1855.5 565 43

5 475 57

5 48 5 55

5 53 5 47

5 55 5 45

Bishop Jewel died, 1571.

FRID. Occupation of Balaclava, 1854.

Michaelmas.

William of Wykeham died, 1404.

THUR. Richard Porson, Greek scholar, died 1808.

SUN. Sixteenth Sunday after Trinity.

TUES.

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TUES.

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10th Mo. OCTOBER. 31 D							Days.	
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12th Mo. DECEMBER. 31 Days.						
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ECLIPSES DURING THE YEAR 1884.

There will be five eclipses during the year 1884, three of the sun and two of the moon.

1.—On the 26th of March, a partial eclipse of the sun will take place, invisible in Canada. It will be visible on the western coast of Denmark and Norway, the Shetland and Farœ Isles, Iceland and Greenland, ending three degrees south of the North Pole. Greenwich mean time of conjunction, March 26, 18h. 51 m. 33s.

2.—A total eclipse of the moon, April 9-10, invisible in Canada. It will be visible in the South Pacific Ocean, the Marquesas and Society Islands. Greenwich mean time of Opposition, April 9, 23h. 53m. 51s.

3.—A partial eclipse of the sun, April 25, invisible in Canada. It will be visible in the south Atlantic Ocean, Patagonia, Falkland Isles, Tristran d'Acunha and the Cape of Good Hope. Greenwich mean time of conjunction, April 25th, 2h. 17m. 17s.

4.—A total eclipse of the moon, Oct. 4, partly visible in Eastern Canada. The first contact occurs at 2h. 20m. p. m., Montreal time, the moon being below the horizon and invisible. The moon will rise eclipsed, and the last contact with the penumbra [end of eclipse], will take place at 7h. 51m., Montreal time.

5.—A partial eclipse of the sun, October 18, invisible in Canada. It will be visible in Siberia, Kamschatka, Alaska and the Northern Pacific Ocean. Greenwich mean time of Conjuction, October 18, 11h, 39m. 7s.

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THE MOONLIGHT EVENINGS OF 1884.

SUGGESTIONS TO EXCURSIONISTS.

The prime necessity after a large and pleasant company has been secured, for the thorough enjoyment of an evening's outing. be it a snow-shoe tramp in winter or moonlight excursion in summer, is the accessory of brilliant moonlight, to this end evenings should always be chosen when the earth's satellite is above the horizon between the hours of six and twelve o'clock in the evening. Yet very few when contemplating the organization of a so-called "moonlight excursion" really take proper cognizance of the Moon's rising and setting. Sometimes a pitch-dark night is selected, considerably to the chagrin of the guests. To the end that all skating and tabogganing parties in winter, and moonlight excursions during the summer months may easily ascertain at a glance the most favorable evenings for the same, the following dates are inserted, and if only proper note is taken of these, the anomaly of a moonlight excursion, minus a moon, will cease to exist in the future.

1884.

- January.—Moonlight evenings are those from the 5th to the 14th,

 That is, from the moon's first quarter, when she
 souths about 6 p.m., and sets at midnight, [until two
 evenings after the full, when she rises about two hours
 after sunset.
- February.—The evenings giving a maximum of moonlight are those from the 4th until the 12th inclusive.
- March.—During March the moonlight evenings are those from about the 4th until the 12th or 13th.
- April.—The most favorable nights occur between April 2nd and 12th.
- May.—During this month the moonlight evenings are those between the 2nd and 13th.
- June.—During this month from the beginning until about the night of the 9th or 10th, and again from the 29th until the close of the month.
- July.—The evening of Dominion Day will be a moonlight one.

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Parties purchasing without conditions of cultivation will receive a Deed of Conveyance at time of purchase, if payment is made in full.

Payments may be made in LAND GRANT BONDS, which will be accepted at ten per cent. premium on their par value and accrued interest. These Bonds can be obtained on application at the Bank of Montreal, Montreal; or at any of its agencies.

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By order of the Board.

CHARLES DRINKWATER.

Secretary.

Montreal, December, 1883.

as also that of Independence Day, the favorable evenings lasting until the 9th or 10th, and again from the 29th until the end.

August.—From the 1st until the 10th, and once again from the 28th to the month's end.

September.—From the 1st until the 6th evening, and also between the 26th and 30th.

October.—From the 1st until the 7th good moonlight obtains, after that take the evenings between the 26th and 31st.

November.—From Nov. 1st to the 4th, and from 25th to end of month.

December.—From 1st to 4th evening, then from Christmas until after the entry of the New Year, 1885.

MEASUREMENT OF THE CREAT LAKES.

The following measurements of the great lakes will be found interesting and are absolutely correct, having been taken by Government surveyors.

The greatest length of Lake Superior is 335 miles; the greatest breadth is 160 miles; mean depth 688 feet; elevation 627 feet;

area, 82,000 square miles.

The greatest length of Lake Michigan is 300 miles; its greatest breadth, 108; mean depth, 690 feet; Elevation, 506 feet; area, 23,000 square miles.

The greatest length of Lake Huron is 300 miles; its greatest breadth is 60 miles; mean depth, 00 feet; elevation, 274 feet;

area, 20,000 square miles.

The greatest length of Lake Erie is 250 miles; its greatest breadth is 80 miles; its mean depth is 84 feet; elevation 261 feet; area 6,000 square miles.

The greatest length of Lake Ontario is 180 miles; its greatest breadth is 65 miles; its mean depth is 500 feet; area, 6,000 square

miles.

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The total of all five is 1,265 miles, covering an area of upwards of 135,000 square miles.—Chicago Times.

THE UMBRELLA and the rain are often mist.

"ONE SWALLOW cannot make a summer," but one frog can make a Spring.

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FARMERS' NOTES.

FEBRUARY is the trying month for cattle, and most of the animals that pine and die in the spring months have really been sacrificed long before. Feed well at this season, not overmuch, but judiciously. Calves and young stock will not thrive on dry hav alone; they require the hay to be cut and mixed with meal, crushed grain, or mill stuff of some sort. All animals at this season should have roots, especially young stock. If fed entirely on dry feed their first stomach will be so distended that they will lose all shape, and never afterwards be presentable in the exhibition ring. More serious results than this follow, for when spring time comes the animals will be sure to scour, get thin, aud possibly die. Ignorant farmers wonder why so many animals die. Intelligent farmers are as apt to wonder why so many live. Let us enquire briefly into the rationale of feeding. All the food of animals consists of several bodies having distinct properties, and it is to the relative proportions of these that different food materials owe their differences in feeding value. Hay, besides woody matter which is nearly useless, contains starch, sugar, gum, oil; these are nonnitrogenous; and maintain the warmth of the body and produce fat. It also contains albuminous bodies, which are nitrogenous; these repair waste and afford material for the growth of the flesh. Hay, grain, straw, roots, vegetables, all contain these fat-formers and flesh-formers; if we wish to produce fat on an animal we feed Indian corn or some other food rich in fatformers; if the object is to produce flesh, on the other hand, we feed oats or wheat rich in flesh-formers. For milk, the best of all food is green grass, or in winter time, hay, well made from young grass, supplemented by succulent roots such as mangels.

MARCH.—This is the month of preparation for actual culture of the soil, which is still hard and covered with snow. As soon as manure can be carted out into the frozen fields, let it be done. In bad weather see to the repair of implements. Calculate what seeds and artificial manures will be required, and send your orders to reliable houses. If you wait until the time for planting or sowing comes, you may be disappointed. In order to

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raise early plants for vegetable and garden beds, a hot bed should be started this month. If hay should become scarce, give your cattle some middlings or bran with their cut fodder.

APRIL.—This is the month when the cultivation of the soil actually begins; the operations of ploughing, harrowing, rolling, planting, cultivating, have now to be attended to as the season advances and as the weather may permit. The theory of cultivation of the soil may well claim more than a passing reflection from the intelligent farmer. All soils consist of a mixture of clay and sand, the clay holds water, the sand allows it to filter through. When the clay is in excess we have a clayey soil, when sand is in excess we have a sandy soil, and when both are equal we have a loam, which is best of all for general purposes. There are other substances, which form but a very small proportion of the soil, but are essential for its fertility. The principle ones are (1) phosphoric acid, (2) potash, and (3) ammonia. They are removed in greater or less quality by every crop, and, when they are taken out, the soil, whether clayey, sandy, or loamy, becomes barren. To keep up fertility they must be restored. In stable manure we restore all three to the soil. The first may be restored in the form of bone dust or superphosphate of lime; these are special manures for turnips and grains, which take up a large quantity of phosphoric acid. The second ingredient of the soil, potash, often exists in an insoluble form, and is set free by processes of cultivation, liming, and exposure to the action of the atmosphere; it may be added in the form of plant ashes or kainit, a potash-soda mineral imported from Germany. The third substance, ammonia, is abstracted from the rain water by the soil, and may be added in form of tannery waste, guano, gas water, blood, wool, hair, and feathers. By keeping these facts in view, the farmer will be better able to judge what kinds of manure to employ on his fields for the various crops. Potatoes require an unusually large amount of potash for the tuber and lime for the tops. All green crops require ammonia, and all grains phosphoric acid, which exists as a phosphate of magnesia in barley and wheat.

MAY.—With the general improvement in our agriculture it is hoped that a taste for rural ornamentation will grow. Every

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November, 1883.

farm house should have its flower garden well stocked with perennials that last over winter and come up in spring. The general seed-sowing is usually done this month, in fact, this is one of the busiest seasons of the whole year with the farmers of Canada. Those wishing to experiment will find what are believed to be the most excellent times, given in full, on another page.

JUNE.—All seed crops not yet committed to the soil should be put in without delay. After the first week in June it is not too early to sow any kind of seed suitable to our climate. The drill crops put in during April and May will now require attention, first, in the way of hand-hoeing, where this has to be done, and secondly, by the use of the horse-hoe or cultivator. Put out cabbages and cauliflowers, but let the soil have been previously well worked and well enriched. The Haltica, or turnip flea, is the great enemy of the cabbage; all efforts at his destruction have failed, and the only effective way of waging war with him is to treat him generously by sowing, between the cabbage rows. common white mustard, the young seedling plants of which are far more palatable to the flea than cabbage. Tomatoes also may be set out later in the month. Ground cherries do best when they come up from seed in the soil, which they will do for years. Finish planting everything now in field and garden, such as Indian corn, bush and pole beans, cucumbers, squashes, turnips, Tender plants may now be put out in the flower beds. Do not touch strawberry plants by weeding or hoeing, and do not now hoe around raspberry canes, otherwise the fruit will not form. Celery may be planted out at the end of the month. are still any "farmers" who are not members of an Agricultural Society, or if no such society exists in their district, then let them either join or organise a new one.

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July.—Notwithstanding what has been said of June, yet turnip sowing may sometimes be done in July. Soft turnips for immediate feeding need not necessarily be sown till July. The ground should have undergone a thorough pulverization. Light sandy soil is the best for turnips. They start best after the ground is warm, but the bulbs swell most rapidly during

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the cool dewy nights of autumn. The soil cannot be worked too deep or made too fine for turnips. Town manures are valued for this crop; and crushed bones have been applied with the best effects, either when covered in the drills in the manner of ordinary dung, or when sown by machine along with the seeds, so as to be in immediate contact with the latter. Guano has been largely used of late years. Superphosphate is very efficacious. One point of turnip culture that is often neglected is that the seed should be put in the moment the soil is prepared. If the earth of the prepared drill gets dried up before the seed is sown, how can it be expected to germinate? Hoeing and weeding of all drill crops should be carried on actively this month, and completed prior to hay-making. Having is an important matter, and the secret of good hay-making is fine weather. If the day is clear and the temperature high, do not be tempted to mow too much; wait till the rain is clearing away and the air is cool.

August.—Farmers in Canada are naturally working into a mixed husbandry, so that their cattle may not have to feed all through the winter and pasture in the summer, but feed in winter on straw and roots and coarse grain, and in summer partially or wholly on green fodder in-doors. This is the only way to enrich a farm, or to attain to anything like high farming. We, therefore, recommend our readers to note at this season how convenient it is to have a field of tares or green oats or barley or Indian corn or rape, or any other green eatable thing for the cattle to grow or fatten upon when the pastures are all burnt up. After having there will be work in the garden, and especially in the orchard. Look after the ripening of fruit, destroy caterpillars, if any still remain; pick the early August apples, and send them into market. When the rains come, beds of strawberries may be made up. See that the ground is well drained and enriched with old manure. Mushrooms now appear in the horse pastures. The calving of cows for the season will now be over. All thoroughbred calves should be registered in the official stock register of the Board of Agricul-

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Maps and Pamphlets will be furnished gratis and post-free, on application, by letter, addressed to Department of Agriculture, Ottawa, Canada,

SEPTEMBER.—This is exhibition month, and if exhibition committees made their arrangements in time, each Provincial and Dominion exhibition might be duly noted in the calendar of this Almanac. Exhibitions are to be encouraged, as they afford to the farmer the opportunity of seeing what improvements in implements and cultivation are being introduced; what progress is being made in the improvement of stock; what new agricultural plants and vegetables are coming into use, and they also enable him to sell stock and seed grain or whatever he has to sell, and to buy stock or seed, or exchange with friends; but they also enable him to show that he can do something better than any of his neighbors, and they give him the opportunity to give his family a treat, and such a one as to interest them in the agricultural profession.

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OCTOBER—The harvesting of root crops is one that requires great attention, and, as the culture of them is extending, we would impress upon all who have not had long experience the necessity of attending to the points noted below: - To take up and store roots successfully is a simple art when properly understood, but the frequent destruction of roots in the cellar shows that it is not always understood or carried out. Potatoes should be dug in dry weather, and allowed to dry completely on the surface before being put together in heaps or in the cellar; the best way is to put them on a barn floor and exclude the light, otherwise they will become green and acquire a bitter taste and Mangels, turnips, and carrots should be poisonous qualities. topped and the fine root fibres cut off. Before storing they should, in like manner, be exposed to dry air that the wounds may heel over; if put at once into the cellar, the wounded tissue will begin to ferment, and a large portion of the roots will be rotted by contact. If facts such as these are kept clearly in view, no farmer need lose his roots. Of course the cellar must be kept well-aired, cool, and dry, and frost carefully excluded. When the root crops have been secured, the whole strength of the farm should be thrown into fall ploughing, which may continue, if the season allows, into November. This is an important operation, whether we view it as a means of preparing the soil for the future crop, or as a convenience to enable the farmer

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to have spring time for proper spring work. The addition of manure to a soil is not enough, the pulverisation, mixture, freezing, thawing, and rain-washing of the soil are the processes by which its fertility is secured. Let us illustrate this:-Bone receives the rain water which contains carbonic acid gas; this changes a portion of the bone into carbonate of lime, and the rest into bi-basic phosphate, which gradually dissolves and becomes available to the plant. If the rain water drains away over the hard surface, or if the soil lies soaked in stagnant water, and there is no passage of rain through it, this change cannot take place. When lime is added to the soil it quickly acts on the organic matter, but the lime must be diffused completely through the soil otherwise it becomes inert before it has had an opportunity of doing its work by being brought into actual contact with soil particles. The clay of the soil is a silicate of alumina; with lime, if the particles be brought together in presence of water, a double silicate of lime and alumina is formed. If soda be brought into contact with this the lime gives way and a double silicate of soda and alumina is formed. If potash be added, the soda gives way, and we have now a double silicate of potash and alumina; and lastly, potash will yield to ammonia, and thus ammonia will be collected from the air and rain, and become fixed in the soil so as to be available for plant growth.—Abridged from Belcher.

RULES FOR FARMERS.

1. Do not over-crop yourself; or in other words, do not undertake more than you can accomplish with ease.

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3. Have a regular system in all you do, and do everything with a clear understanding as to result and effect;

3. Keep your lands well up to a good standard by a proper fertilizing and a judicious rotation of profitable crops.

4. Keep none but a good stock, and see to it that said stock is kept in good condition;

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EARTHQUAKES.

Notable ones since the Christian Era—Their Great Number and Frequency—Java 1883—Probable Cause.

Between 6,000 and 7,000 separate earthquakes are recorded as having taken place at all parts of the globe between the years 1606 B.C. and 1850 A.D.

The most notable and remarkable are, Judea 31 B.C., which caused the death of 10,000 persons, according to Josephus. That which occurred at the Crucifixion is said to be authenticated elsewhere than in the sacred records, and a darkness like the one there spoken of was also noticed on Jan. 22, 1835, in Central America. The earthquake of A.D. 63 resulting in the partial overthrow of Pompeii and Herculaneum, was followed sixteen years later by the bursting forth of Vesuvius, when the desruction was completed. Other notable earthquakes were:-Italy 526 A.D., when 120,000 persons perished; Sicily 1693, when 60,000 people lost their lives. Gibbon says about 542 and preceding or following years, each was marked by repeated earthquakes, Constantinople being shaken for over forty days, and at Antioch 250,000 persons are said to have perished. During this period the superior planets were in perihelion. The Arabian and Persian chronicles record one hundred and eleven earthquakes between the eighth and ninth centuries; some of these lasted seventy days, nearly all being accompanied by winds and floods. Readers of the "Relations des Jesuites" will probably remember the great earthquakes spoken of which shook and tossed the earth all over Canada from Gaspé to Montreal for a space of six months during the year 1663. These earthquakes rivalled the one in the Mississippi Valley in 1811. The severest earthquake ever remembered on the Atlantic coast in this region was that of November 1755, an echo of the convulsion that overthrew Lisbon. On October 19, 1870, occurred the most considerable shock observed in North America during the present century. The source of this disturbance was traced to the volcanic region from 50 to 100 miles N.E. of Quebec. From that place it spread to St. John, N.B., thence was felt westward to Chicago and southward to

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New York. The velocity of the wave was about 14,000 feet per second. The occurrence of the shock was telegraphed to Montreal by operators of the Telegraph Company in time to call attention of those in the latter city before the shock reached them.

Java is a seat of almost perpetual volcanic and earthquake activity, a great catastrophe took place there in 1772, but the most remarkable earthquake and volcanic eruption for many years past took place there in August, 1883, commencing on the 25th of that month. North Bantam was covered with ashes, crops ruined, roads and bridges destroyed. Tidal waves swamped the city of Batavia, and swept across the Pacific Ocean, were noticed at San Francisco. The temperature of the sea off the coast of Java rose 30° owing to the steam ejected into the sea. Seventeen volcanoes were in active operation at one time. Fifteen waterspouts were noticed together. The Island of Serung was completely inundated. A mountain disappeared and the sea now flows over where it once stood. Seventy-five thousand lives were estimated as having been lost. A range of mountains entirely disappeared.

A range of mountains entirely disappeared.

Earthquakes are very far from being of rare occurrence.

Hein having estimated that at least two occur on an average daily on the earth. At Cabul thirty-three have been felt in a single day. At Honduras during the year 1856 one hundred and eight were counted in seven days. At Hawaii in 1868,

two thousand occurred in a single month.

The greatest number of earthquakes are usually recorded about the middle of each century and a second epoch, less powerful than the first, usually occurs nearer the close of the

century.

What these tremors arise from has not yet been definitely settled, some consider them results of severe cold, contracting the rocks; but most authorities at present ascribe them to the presence of underground lava, volcanoes very often becoming active at the same time. Professor Alexis Perry, of Dijon, traces a relation between earthquakes and the age of the moon. By very careful analysis he established the fact that earthquakes occur more frequently at perigee than at apogee, also their frquency increases at the syzygies and diminishes at the quadrates. "The shocks are generally experienced," he says, "when the Moon is on the Meridian." Perrey, another authority, favors the theory and thinks the solar equinoxes and solstices give the largest number of shocks. Mallet found the winter solstice—[Naturally enough.—Ep.]—to give the largest number.

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2. Money Orders are issued in Canada on the following Foreign Countries and British Possessions, at the rates of commission shown below:— The United Kingdom
Austria-Hungary \$10 \$20 \$30 \$40 \$50 The United States 10c, 20c, 30c, 40c, 50c,
Barbadoes. Newfoundland. British India Victoria (Australia) New South Wales. Tasmania Money Orders on the above countries are drawn in Canada Currency. Tables showing the sums payable in other countries where the money is of a different denomination, on Orders issued in Canada, will be found below.
Table showing the amounts in Canadian money to be paid for Money Orders drawn on the United Kingdom, British India, Jamaica, Barbadoes Victoria, New South Wales, Tasmania and Zealand.
Amount Payable oents. Money. Amount Payable oents. Amount Payable oents. Amount Payable oents. Amount Payable oents. Amount Payable of Dollars of and oents. Money. Amount Payable of Dollars of and oents. Money.

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£ s. d. 0 0 1 0 0 2 0 0 3 0 0 4 0 0 5 0 0 6 0 0 7 0 0 8 0 0 9	\$ C. 0 2 0 4 0 6 0 8 0 10 0 12 0 14 0 16 0 18 0 20	£ 8. d. 0 0 11 0 1 0 0 2 0 0 3.0 0 4 0 0 6 0 0 7 0 0 8 0 0 9 0	\$ c. 0 22 0 24 0 49 0 73 0 97 1 22 1 46 1 71 1 95 2 19	£ e. d. 0 10 0 0 11 0 0 12 0 0 13 0 0 14 0 0 16 0 0 17 0 0 18 0 0 19 0	\$ C. 44 2 68 2 92 3 17 3 41 3 65 3 90 4 14 4 38 4 63	£ s. d. 1 0 0 0 2 0 0 0 3 0 0 0 4 0 0 0 5 0 0 6 0 0 0 7 0 0 8 0 0 9 0 0	\$ C. 4 87 9 74 14 61 19 48 24 35 29 22 34 09 38 96 43 88 48 70

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Note.—The original order issued in Canada must be sent to the payee by the remitter.

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Table showing the sums payable in Germany, in Marks and Pfennings, on Orders issued in Canada.

Cana- dian Money	Value in Germ'n Money.	Canadian. Money.	Value in Germ'n Money.	Cana- dian Money.	Value in German Money.	Cana- dian Money.	Value in German Money.
cents. 1 2 3 4 5 6 7 8 9 10	pf. 4 8 12 16 20 25 29 33 37 41	cents. 20 25 30 40 50 60 70 75 80 90	m. pf. 0 83 1 04 1 25 1 66 2 08 2 50 2 91 3 12 3 33 3 75	\$ cts, 1 00 2 00 3 00 4 00 5 00 6 00 7 00 8 00 9 00 10 00	m. pf, 4 16 8 32 12 48 16 64 20 80 24 96 29 12 33 28 37 44 41 60	\$ cts. 15 00 20 00 25 00 30 00 35 00 40 00 45 00 50 00	m. pf. 62 40 83 20 104 00 124 80 145 60 166 40 187 20 208 00

NOTE.—The original order issued in Canada should be retained by the remitter. The payee will receive a proper form of Money Order from the Chief Office at Cologne.

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