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ROBERT MILLER, MONTREAL.

MILLER'S 7.

CANADIAN

FARMER'S ALMANAC

FOR THE YEAR OF OUR LORD

1878.



PUBLISHED BY ROBERT MILLER,

397 NOTRE DAME STREET.

ROBERT MILLER, MONTREAL.

Importer, Wholesale Stationer, School Book Publisher and Blank Book Manufacturer.

Importers and Dealers in WINDOW SHADES and PAPER HANGINGS.

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AWARDED the ONLY MEDAL given for COTTON YARNS of CANADIAN MANUFACTURE, at the

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WILLIAM PARKS & SON,

New Brunswick Cotton Mills

ST. JOHN, N.B.

ALEXANDER SPENCE,

McGill Street, Montreal,

SOLE AGENT FOR QUEBEC AND ONTARIO.

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THE
CANADIAN
FARMERS' ALMANAC
FOR THE YEAR OF OUR LORD



1878.

Being the second after Bissextile or Leap Year, and until the 20th of June, the forty-first Year of the Reign of Her Majesty Queen Victoria.

Calculated for the Meridian of Montreal, in Latitude $45^{\circ} 30' 26''$ North, and Longitude $73^{\circ} 24' 22''$ West from the Royal Observatory, Greenwich. Also for the Meridian of Halifax, N. S., in Latitude $44^{\circ} 39' 20''$, and Longitude $63^{\circ} 36' 40''$. But the Almanac is arranged to serve without essential variations for most parts of the Dominion.

EDITION OF FIFTY THOUSAND.

Entered according to Act of Parliament, by ROBERT MILLER, in the Office of the Minister of Agriculture, at Ottawa.

Montreal :
PUBLISHED BY ROBERT MILLER,
397 NOTRE DAME STREET.

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OFFICE OF THE

Canadian Farmers' Almanac.

MONTREAL, October, 1877.

The publisher of this OLD, RELIABLE and STANDARD ALMANAC, with a view to meet the wants of his many patrons throughout Canada, has had the Calculations arranged so as to cover the Provinces of Ontario, Quebec, New Brunswick and Nova Scotia. This has necessitated a slight departure from the old and familiar arrangement of the monthly pages, viz., the absence of the *Weather Prophesie* and *Remarkable Events*, which will now be found at pages 5, 6, 7.

ROBERT MILLER,
Publisher

CHRONOLOGICAL CYCLES.

Dominical Letter.....	F	Julian Period.....	5391
Golden Number	16	Jewish Year commencing 30th Sep-	
Jewish Lunar Cycle.....	14	tember	5638
Epact or Moon's Age.....	16	Roman Indictions.....	6
Solar Cycle.....	11	Mohammedan Year.....	1395

MOVEABLE FESTIVALS.

Septuagesima Sunday.....	February	17	Easter Sunday.....	April	21
Sexagesima	"	23	Low	"	28
Quinquagesima	March	3	Rogation	May	26
Ash Wednesday.....	"	6	Ascension Day.....	"	30
First Sunday in Lent	"	10	Whitsunday	June	9
Mid-Lent Sunday.....	"	31	Trinity Sunday.....	"	16
Palm	April	14	Corpus Christi.....	"	20
Good Friday.....	"	19	Advent Sunday	December	1

HOLIDAYS OBSERVED IN PUBLIC OFFICES.

Circumcision	January	1	Corpus Christi.....	June	20
Epiphany.....	"	6	St. Peter and St. Paul.....	"	29
Annunciation Virgin Mary.....	March	25	All Saints Day.....	November	1
Good Friday.....	April	19	Conception of the Blessed Virgin		
Ascension Day.....	May	30	Mary.....	December	8
Queen's Birthday.....	"	24	Christmas Day.....	"	25

BANK HOLIDAYS IN ONTARIO.

Sundays, Christmas Day, New Year's Day, Ash Wednesday, Good Friday, Easter Monday, The Queen's Birth Day, and each day appointed by Royal Proclamation as a general Fast or Thanksgiving day.

SCARECROWS.—The first and the best is a suspended looking-glass. Take two small cheap mirrors, fasten them back to back, attach a cord to one angle, and hang them to an elastic pole. When the glass swings, the sun's rays are reflected over the field, even if it be a large one, and even the oldest and bravest of crows will depart precipitately should one of its lightning flashes fall on him. The second plan, although a terror to crows, is especially well-suited to fields subject to the raids of small birds and even chickens. It involves an artificial hawk made from a big potato and long goose and turkey feathers. The maker can exercise his imitative skill in sticking the feathers into the potato so that they resemble the spread wings and tail of the hawk. It is astonishing what a ferocious-looking bird of prey can be constructed from the above simple material. It only remains to hang the object from a tall, bent pole, and the wind will do the rest. The bird will make swoops and dashes in the most headlong and threatening manner. Even the most inquisitive of venerable hens have been known to hurry rapidly from its dangerous vicinity, while to small birds it carries unmixed dismay.—*Scientific American*.

ZODIACAL SIGNS.

Aries, the ram, Head and Face.

Gemini, Arms.

Leo, Heart.

Libra, Reins.

Sagittarius, Thighs.

Aquarius, Legs.



Pisces, Feet.

Taurus, Neck.

Cancer, Breast.

Virgo, Bowels.

Scorpio, Secrets.

Capricornus, Knees.

ECLIPSES DURING THE YEAR 1878.

During this year there will be four Eclipses, viz:—Two of the Sun and Two of the Moon.

I.—On the 2nd of February there will be an Annular Eclipse of the Sun, but not visible in these parts.

II.—On the 17th February there will be a partial Eclipse of the Moon, and partly visible. Begins at Halifax, N. S., 4h. 27m. in the morning, and at Montreal 3h. 47m. It will end at Halifax 9h. 26m., and at Montreal 8h. 46m.

III.—On the 29th of July there will be a total Eclipse of the Sun, visible in North America as a partial Eclipse. It begins on the Earth 3h. 4m. evening, mean time at Halifax in Longitude 144° 50' east of Greenwich, and Latitude 41° 21' north. Central Eclipse begins at 4h. 10m. evening in Longitude 117° 42' east, and Latitude 54° 14' north. Ends on the Earth 8h. 1m. evening in Longitude 69° 45' west, and Latitude 3° 37' north. This Eclipse begins at Halifax about 5h. 30m. evening, and at Montreal about 5h. 10m. The greatest observations will occur a few minutes before the setting of the Sun.

IV.—On the 12th of August there will be a partial Eclipse of the Moon, and it will be visible in part. In Halifax it begins in the evening at 5h. 8m., and in Montreal at 4h. 37m. The Moon rises about 7 o'clock, and the last contact with the shadow will be about 9.

A transit of Mercury will occur on the 6th of May. It will be visible between 11 in the morning and 7 in the evening.

EQUINOXES AND SOLSTICES FOR 1878.

	h. m.		h. m.
Vernal Equinox, March 20th...	3 37 mo.	Autumnal Equinox, Sep. 23rd.	2 20 mo.
Summer Solstice, June 21st...	0 13 ev.	Winter Solstice, Dec. 21st.....	8 12 ev.

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[1878.

JANUARY.

- D.
 1 *Circumcision.*
 2 The New Year opens roughly.
 3 Cold continues severe.
 4 Wind and storm.
 5 Snow fall this week.

 6 *Epiphany.*
 7 More steady weather.
 8 Somewhat moderated.
 9 Keen frost this week.
 10 S. W. wind brings snow.
 11 N. E. wind fair and frosty.
 12 Similar weather continues.

 13 *1st Sunday after Epiphany.*
 14 Weather more calm.
 15 Very pleasant day.
 16 Changeable aspects.
 17 Wind and snow.
 18 *Old Twelfth Day.*
 19 Unpleasant season.

 20 *2nd Sunday after Epiphany.*
 21 Cold, dull, damp.
 22 More like rain than snow.
 23 Changeable.
 24 Tendency to thaw, but
 25 There is a delay for heat.
 26 Sets in hard frost.

 27 *3rd Sunday after Epiphany.*
 28 Another comfortless day.
 29 A real cold day.
 30 The aspects are dreary.
 31 Threatening storm.

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MARCH.

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 1 ST. DAVID'S DAY.
 2 Rough for a beginning.

 3 *Quinquagesima Sunday.*
 4 Winter weather yet.
 5 More snow and wind.
 6 ASH WEDNESDAY.
 7 In the East more snow.
 8 Some pretty high winds.
 9 General blustery season.

 10 *First Sunday in Lent.*
 11 Milder weather and some
 12 *St. Gregory.*
 13 Cold rain with sleet.
 14 Steadily cold for some days
 15 But changeable.
 16 This day is damp.

 17 *2nd Sunday in Lent.*
 18 17th. ST. PATRICK'S DAY.
 19 Quite mild, but
 20 Change comes with heavy winds.
 21 A regular gale now
 22 And for some days.
 23 Rain west, snow east.

 24 *3rd Sunday in Lent.*
 25 *Annunciation of the Virgin Mary.*
 26 Rather variable, but
 27 On the whole March
 28 Has been a hard month.
 29 This day sunshiney.
 30 To-day also fine.

 31 *4th Sunday in Lent.*

FEBRUARY.

- D.
 1 The storm rages.
 2 *Purification of Virgin Mary.*

 3 *4th Sunday after Epiphany.*
 4 Plentiful snow now.
 5 Wind high, frost keen.
 6 Somewhat milder.
 7 Unsettled weather for
 8 Some days, but now
 9 Look for high winds.

 10 *5th Sunday after Epiphany.*
 11 Continues unpleasant.
 12 Some severe cold.
 13 A little milder.
 14 *St. Valentine's Day.*
 15 Young folks visit the post office.
 16 Sun glistens through frost.

 17 *Septuagesima Sunday.*
 18 Cheerless cold day.
 19 Not much milder.
 20 Changeable outlook.
 21 Pleasant and mild.
 22 Some thaw but brief.
 23 Not unpleasant.

 24 *Sexagesima Sunday.*
 25 *St. Mathias.*
 26 Cold continues but
 27 The probabilities are for
 28 More genial weather.

APRIL.

- D.
 1 ALL FOOL'S DAY, so called.
 2 A change all over the land.
 3 Quite spring like.
 4 *St. Ambrose.*
 5 Travelling not pleasant.
 6 Much snow melted.

 7 *5th Sunday in Lent.*
 8 Weather very unsettled.
 9 Fros. continues,
 10 But not very severe to-day.
 11 The sun shines out
 12 Warm and spring like.
 13 In the West spring begins.

 14 *Sunday before Easter.*
 15 A general pleasant
 16 Outlook for some days,
 17 But rather dull for the
 18 Farmer who wants to plow.
 19 GOOD FRIDAY.
 20 Very agreeable day.

 21 *Easter Sunday.*
 22 Some rains with wind.
 23 ST. GEORGE'S DAY.
 24 Very fine days.
 25 *St. Mark's Day.*
 26 Bright and cheerful.
 27 Change to dampness.

 28 *Low Sunday.*
 29 Cool rains with some winds.
 30 Frosty nights.

MAY.

- D.
- 1 *St. Philip and St. James.*
- 2 May has opened very fine.
- 3 Continues very agreeable.
- 4 A fine spring day.
-
- 5 *2nd Sunday after Easter.*
- 6 Some showers—cold night.
- 7 Mild agreeable weather.
- 8 Some farm work done West.
- 9 Very backward Easterly.
- 10 Foliage develops slowly.
- 11 The season agreeable.
-
- 12 *3rd Sunday after Easter.*
- 13 Unsettled weather.
- 14 Agreeable rain fall.
- 15 Now changeable.
- 16 Wind and rain now.
- 17 Change to fine and
- 18 Steady weather.
-
- 19 *4th Sunday after Easter.*
- 20 19th, *St. Dunstan.*
- 21 A very clear day.
- 22 Fine and sunshiny.
- 23 Beautiful weather.
- 24 QUEEN VICTORIA'S BIRTHDAY.
- 25 A very fine day.
-
- 26 *Rogation Sunday.*
- 27 26th *St. Augustine.*
- 28 Rather dull day.
- 29 Not unpleasant.
- 30 ASCENSION DAY.
- 31 Month ends brightly.

JUNE.

- D.
- 1 Cool and pleasant now.
-
- 2 *Sunday after Ascension.*
- 3 Warm showery day.
- 4 Pleasant and warm.
- 5 *St. Boniface.*
- 6 Cool for the season.
- 7 Bright sunny day.
- 8 Fine weather continues.
-
- 9 *Whit Sunday.*
- 10 Some frost these nights.
- 11 *St. Barnabas.*
- 12 The days are pleasant.
- 13 A change to heat and
- 14 Thus for some days.
- 15 A storm of wind.
-
- 16 *Trinity Sunday*
- 17 Thunder but not hard.
- 18 Very warm again.
- 19 Moderately warm.
- 20 This day is very fine.
- 21 Warm and windy.
- 22 Rain is falling to day.
-
- 23 *1st Sunday after Trinity.*
- 24 *St. John the Baptist.*
- 25 Great heat and dry.
- 26 Cooler weather to-day.
- 27 Again warm and pleasant.
- 28 A very fine day.
- 29 *St. Peter's Day.*
-
- 30 *2nd Sunday after Trinity.*

JULY.

- D.
- 1 Warm and showery.
- 2 Thunder and lightning.
- 3 Cool afterwards, but
- 4 There will be considerable
- 5 Heat and sultriness,
- 6 For some days to come.
-
- 7 *3rd Sunday after Trinity.*
- 8 Rain is needed, and
- 9 It will come to-day.
- 10 And also this day, but
- 11 Only in showers
- 12 With heat and wind.
- 13 Heat and thunder.
-
- 14 *4th Sunday after Trinity.*
- 15 *St. Swithin's day.*
- 16 Rainy days, but
- 17 Accompanied with wind.
- 18 Quite sultry evenings.
- 19 Pleasant but warm.
- 20 Unsettled weather.
-
- 21 *5th Sunday after Trinity.*
- 22 Heat through the week.
- 23 Clear and warm.
- 24 Pleasant but hot.
- 25 *St. James' Day.*
- 26 Not disagreeably hot.
- 27 *St. Joseph of Arimathea.*
-
- 28 *6th Sunday after Trinity.*
- 29 Sun bright, day sultry.
- 30 Somewhat cooler.
- 31 But yet warm days.

AUGUST.

- D.
- 1 A beautiful day.
- 2 Not extremely warm.
- 3 Changeable—cloudy.
-
- 4 *7th Sunday after Trinity.*
- 5 This day is very fine.
- 6 *Transfiguration.*
- 7 Thunder—lightning—rain.
- 8 Somewhat cool for the season.
- 9 Pleasant.
- 10 *St. Lawrence.*
-
- 11 *8th Sunday after Trinity.*
- 12 More thunder storms.
- 13 Settled but still warm.
- 14 It is warm with clouds.
- 15 Now for thunder and
- 16 A violent rain storm.
- 17 Fair and bright sun.
-
- 18 *9th Sunday after Trinity.*
- 19 The day is very pleasant.
- 20 Much cooler, some rain.
- 21 Prospect of settled weather.
- 22 Very fine and bright.
- 23 Very cool at night.
- 24 *St. Bartholomew.*
-
- 25 *10th Sunday after Trinity.*
- 26 Changeable and dull.
- 27 Now very fine.
- 28 Another bright day.
- 29 *St. John Baptist beheaded.*
- 30 High winds and some
- 31 Showers all round.

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SEPTEMBER.

D.

- 11th *Sunday after Trinity.*
 2 Cool and pleasant day.
 3 Rain may be expected.
 4 Wind and rain.
 5 Abatement of storm.
 6 Somewhat settled, but
 7 Cool rains on this day.

 8 12th *Sunday after Trinity.*
 9 8th, *Nativity of Virgin Mary.*
 10 A pleasant day.
 11 Another fine day.
 12 Changeable and dull.
 13 Rain and wind.
 14 Much finer weather.

 15 13th *Sunday after Trinity.*
 16 Very unsettled, and for
 17 Two days occasional
 18 Cool showers.
 19 A frost this night,
 20 But the days are fine.
 21 *St. Matthew's Day.*

 22 14th *Sunday after Trinity.*
 23 Weather changeable.
 24 Rough days and high
 25 Night winds may be
 26 Looked for. Very cool
 27 Nights and pleasant days.
 28 Variable season.

 29 15th *Sunday after Trinity.*
 30 29th, *St. Michael and all Angels.*

D.

OCTOBER.

- 1 Cool and pleasant day.
 2 The sun shines brightly.
 3 All serene without.
 4 Not warm, but fine.
 5 Changeable aspects.

 6 16th *Sunday after Trinity.*
 7 Cloudy and cool.
 8 Rather heavy frost.
 9 Rains and quite cold.
 10 No rain to day, but cloudy.
 11 Change and sunshine.
 12 The wind blows hard.

 13 17th *Sunday after Trinity.*
 14 Cool-cloudy day.
 15 Again hard wind.
 16 Settled and fine.
 17 A sunshiny day.
 18 *St. Luke the Evangelist.*
 19 Sharp frost to-night.

 20 18th *Sunday after Trinity.*
 21 Wet and dull day.
 22 Rather cheerless aspects.
 23 Frost has changed the foliage.
 24 Rather wintry look,
 25 But now much finer.
 26 Bright, cool, fine day.

 27 19th *Sunday after Trinity.*
 28 *St. Simon and St. Jude.*
 29 North-west winds are prevalent,
 30 With cool rain.
 31 Snow down East.

NOVEMBER.

D.

- 1 *All Saints Day.*
 2 Cold and rainy.

 3 20th *Sunday after Trinity.*
 4 Some snow falling East.
 5 Cold rains in the West.
 6 Rather wintry all over,
 7 Severe storm of wind.
 8 Quite frosty nights.
 9 Clear and cold.

 10 21st *Sunday after Trinity.*
 11 Milder but not settled.
 12 Dull, cloudy, cold.
 13 Rain and wind
 14 Now for some days,
 15 Clear and cold, with
 16 Snowy aspects East.

 17 22nd *Sunday after Trinity.*
 18 Considerable frost.
 19 Sunshiny but cool.
 20 Dull and changeable.
 21 Unpleasant storm.
 22 *St. Cecilia.*
 23 *St. Clement's Day.*

 24 23rd *Sunday after Trinity.*
 25 Cold and chilly.
 26 Frost and snow.
 27 Unsettled, but quite
 28 Wintry weather.
 29 Clear and cold.
 30 **ST. ANDREW'S DAY.**

D.

DECEMBER.

- 1 *Advent Sunday.*
 2 Cold and cloudy.
 3 Snow falls in Quebec.
 4 Rain continues westerly.
 5 Unsettled season.
 6 Fair and frosty.
 7 Winter set in fairly.

 8 2nd *Sunday in Advent.*
 9 8th, *Conception of Virgin Mary.*
 10 Cold and bright.
 11 Good sleighing in Quebec.
 12 Poor in Ontario.
 13 Weather unsteady.
 14 Hard, cold wind.

 15 3rd *Sunday in Advent.*
 16 Cold high winds.
 17 Settled hard frost.
 18 No change,
 19 But there is a heavy snow fall.
 20 *Remember the Poor.*
 21 *St. Thomas' Day.*

 22 4th *Sunday in Advent.*
 23 The day is fine,
 24 But the temperature low.
 25 **CHRISTMAS DAY.**
 26 *St. Stephen's Day.*
 27 *St. John the Evangelist.*
 28 *Innocents Day.*

 29 1st *Sunday after Christmas.*
 30 Weather clear and crispy.
 31 The year ends seasonably

Moon's Phases.		Halifax.	Quebec.	Montreal.	Kingston.	Toronto.	London.
New Moon.....	d. 3	h. m. 9 49 mo.	h. m. 9 19 mo.	h. m. 9 10 mo.	h. m. 8 58 mo.	h. m. 8 47 mo.	h. m. 8 39 mo.
First Quarter.....	11	2 32 ev.	2 2 ev.	1 53 ev.	1 41 ev.	1 30 ev.	1 22 ev.
Full Moon.....	18	7 56 ev.	7 26 ev.	7 17 ev.	7 5 ev.	6 54 ev.	6 45 ev.
Third Quarter.....	25	11 35 mo.	11 5 mo.	10 56 mo.	10 44 mo.	10 33 mo.	10 25 mo.

DAYS.		Montreal.		The Moon.	Toronto.		Halifax, N.S.				The Dominion.	
M	Week.	Sun Rises.	Sun Sets.	R. & S.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	The Moon R.&S.	High. Tide.	Sun's Declin. South.	Sun on Meridian.
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	D. M.	h. m. s.
1	Tues.	7 46	4 20		7 40	4 21	7 37	4 31	6 4	23	1	12 3 57
2	Wed.	46	21	3 16	40	29	37	32	3 12	7 0	22	56
3	Thu.	46	22	4 20	40	30	37	33	4 16	7 50	22	50
4	Fri.	45	23	5 24	39	31	37	34	5 20	8 30	22	44
5	Sat.	45	24	6 32	39	32	37	35	6 28	9 8	22	38
6	F.	45	4 25	7 38	7 39	4 33	7 37	4 36	7 34	9 45	22	31
7	Mon.	44	27	8 41	39	34	37	37	8 37	10 21	22	24
8	Tues.	44	28	9 43	38	35	36	38	9 39	10 53	22	16
9	Wed.	44	29	10 44	38	36	36	39	10 40	11 25	22	8
10	Thu.	43	31	11 46	37	37	36	40	11 42	11 59	21	59
11	Fri.	43	33	Morn.	37	38	36	41	Morn.	Morn.	21	50
12	Sat.	42	34	0 50	37	40	35	43	0 46	0 36	20	40
13	F.	42	4 36	1 57	7 37	4 41	7 35	4 44	1 53	1 20	21	30
14	Mon.	41	37	3 6	36	42	34	45	3 2	2 13	21	20
15	Tues.	40	38	4 15	36	43	34	47	4 11	3 23	21	9
16	Wed.	40	39	5 23	35	44	33	48	5 19	4 43	20	58
17	Thu.	39	41	6 25	35	45	32	49	6 21	5 55	20	46
18	Fri.	39	42	Rises.	34	46	32	50	Rises.	6 56	20	34
19	Sat.	38	43	6 19	33	48	31	51	6 14	7 47	20	22
20	F.	7 37	4 45	7 38	7 32	4 49	7 30	4 53	7 34	8 32	20	9
21	Mon.	36	47	8 57	31	50	29	54	8 53	9 17	19	56
22	Tues.	35	49	10 15	30	52	29	55	10 11	10 2	19	43
23	Wed.	34	51	11 31	29	53	28	57	11 27	10 46	19	29
24	Thu.	33	52	Morn.	27	54	27	58	Morn	11 28	19	15
25	Fri.	32	53	0 42	26	56	26	59	0 42	ev.11	19	0
26	Sat.	31	54	0 1	25	57	25	5 1	1 57	0 56	18	45
27	F.	7 31	4 55	3 13	7 25	4 58	7 24	5 2	3 9	1 50	18	30
28	Mon.	30	56	4 16	24	5 0	23	3	4 16	3 0	18	14
29	Tues.	29	57	5 17	24	1	22	5	5 13	4 30	17	58
30	Wed.	28	59	6 6	23	2	21	6	6 2	5 53	17	42
31	Thu.	27	5 0	6 45	23	4	20	8	6 41	6 56	17	25

JANUARY.—We have felt it our duty on more than one occasion to remind our agricultural readers of the great importance which they ought to attach to the preservation and manufacture of manure. On the older farms, much exhausted, the manure heap, properly managed, is a bank of deposit in more senses than one. Let no available material be thrown away or wasted. The liquid manure should never be allowed to run to waste. It is the food of plants, and should be preserved in order to mix with earths and decaying substances. Upon a heavy clay soil, liquids may be mixed with sand, and spread over the land. The yield of produce will increase three or fourfold. Farmers should never complain of the want of manure while they neglect to take care of the slops and refuse of the house and of their stables.

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29 for
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31 cl

Tuesday.

1878.]

MEMORANDUM FOR JANUARY

9

London
h. m. s.
8 39 mo.
1 22 ev.
6 46 ev.
10 25 mo.

ominion.

Sun on Meridian.

h. m. s.
12 3 57
4 26
4 54
5 21
5 48

12 6 14
6 40
7 6
7 31
7 57
8 19
8 42

12 9 3
9 26
9 48
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should
of the

- 1 beautiful morning 12 clouded over
- 2 a little snow 1/2 not enough for flurries
- 3 clear cold fine all day ground bare
- 4 cloudy 12 at 10.4 m. comm. at 11.4 m.
- 5 fine 19 at 11.20 a foot of snow fell yet
- 6 clear and cold 1/2 this morning
- 7 clear cold 1/2 all day flurries snow
- 8 foggy and cold 1/2 a white frost
- 9 a little cloudy but fine 1 1/2 m.
- 10 cloudy with rain 12 1/2 did not rain much
- 11 fine 19 snow 3/4 fine snow last night
- 12 fine 32 some frost last night
- 13 cloudy 1/2 snow frost last night.
- 14 frothy 29 snowed all day & better
- 15 cloudy 18 a little snow last night
- 16 clear and cold 1/2 strong west wind
- 17 clear and cold 1/2 fine all day
- 18 fine clear 1/2 to day the crop on the ice 1/2
- 19 cloudy 22 a beautiful day
- 20 some cloudy but rather fine 1 1/2
- 21 cloudy a little rain last night 3/4
- 22 cloudy 3/4 dull day
- 23 cloudy 1/2 3/4 snow in afternoon but night
- 24 clear and cold 1/2 of afternoon 1/2
- 25 cloudy 1/2 dull day
- 26 cloudy 18 a little snow last night
- 27 cloudy 24 a fine day 3/4 at 12 1/2
- 28 cloudy 12 a little snow last night
- 29 fine clear and cold 1/2
- 30 clear and cold 1/2 13.30 or so
- 31 clear cold 1/2 this under the
month of Jan 1878 and
I think a usual cold month

Gillott's, Mitchell's and other makers Steel Pens at ROBERT MILLENS.

Moon's Phases.		Halifax.	Quebec.	Montreal.	Kingston.	Toronto.	London.
New Moon.....	D 2	h. m. 4 3 mo.	h. m. 3 33 mo.	h. m. 3 24 mo.	h. m. 3 12 mo.	h. m. 3 1 mo.	h. m. 2 53 mo.
First Quarter.....	10	9 2 mo.	8 32 mo.	8 23 mo.	8 11 mo.	8 0 mo.	7 52 mo.
Full Moon.....	17	7 2 mo.	6 32 mo.	6 23 mo.	6 11 mo.	6 0 mo.	6 52 mo.
Third Quarter.....	23	10 58 ev.	10 28 ev.	10 19 ev.	10 7 ev.	9 56 ev.	9 48 ev.

DAYS.		Montreal.		The Moon.	Toronto.		Halifax, N.S.			The Dominion.		
M.	Week.	Sun Rises.	Sun Sets.	R. & S.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	The Moon R. & S.	High Tide.	Sun's Declin.	Sun on Meridian.
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	D. M.	h. m. s.
1	Fri.	7 27	5 1	5 27	7 24	5 5	7 19	5 9	5 23	7 44	17 9	12 13 53
2	Sat.	27	2	5 27	23	5	18	11	5 23	8 22	16 51	14 1
3	F.	7 26	5 3	6 29	7 22	5 6	7 16	5 12	6 25	8 55	16 34	12 14 7
4	Mon.	25	4	7 33	21	6	15	13	7 29	9 26	16 16	14 13
5	Tues.	23	5	8 34	19	7	14	15	8 30	9 56	15 58	14 18
6	Wed.	22	6	9 36	17	8	13	16	9 32	10 26	15 40	14 22
7	Thu.	20.	7	10 39	16	9	11	18	10 35	10 55	15 21	14 25
8	Fri.	19	8	11 43	14	9	10	19	11 39	11 22	15 2	14 27
9	Sat.	18	9	Morn.	13	11	9	20	Morn.	11 53	14 43	24 29
10	F.	7 17	5 11	0 49	7 12	5 13	7 7	5 22	0 45	Morn.	14 24	12 14 20
11	Mon.	16	13	1 58	11	14	6	23	1 54	0 31	14 4	14 29
12	Tues.	14	14	3 6	9	16	4	25	3 2	1 18	13 45	14 28
13	Wed.	13	16	4 8	7	17	3	26	4 4	2 24	13 24	14 27
14	Thu.	11	17	5 4	6	18	1	27	5 0	3 59	13 4	14 25
15	Fri.	10	18	5 49	5	19	7 00	29	5 45	5 30	12 44	14 21
16	Sat.	9	19	6 25	4	20	6 58	30	6 21	6 40	12 23	14 13
17	F.	7 8	5 20	Rises.	7 2	5 22	6 57	5 32	Rises.	7 32	12 2	12 14 13
18	Mon.	6	22	7 51	1	24	55	33	7 46	8 17	11 41	14 8
19	Tues.	4	24	6 10	6 59	25	54	34	9 6	8 59	11 20	14 2
20	Wed.	3	25	10 29	57	27	52	36	10 25	9 40	10 58	13 55
21	Thu.	1	27	11 48	56	28	50	37	11 44	10 21	10 37	13 49
22	Fri.	6 59	28	Morn.	55	30	49	39	Morn.	11 2	10 15	13 40
23	Sat.	57	30	1 4	52	31	47	40	1 0	11 40	9 53	13 32
24	F.	6 56	5 32	2 12	6 50	5 33	6 46	5 41	2 8	ev. 23	9 31	12 13 23
25	Mon.	54	34	3 14	49	34	44	43	3 11	1 16	9 9	13 14
26	Tues.	52	35	4 5	47	35	42	44	4 1	2 28	8 47	13 3
27	Wed.	49	37	4 46	46	37	40	45	4 42	4 10	8 24	12 53
28	Thu.	48	38	5 17	46	38	39	47	5 13	5 40	8 1	12 12 42

FEBRUARY.—About dairy matters, we observe a general disposition on the part of skilled workers to give up the old-fashioned small milk pans. Milk-pans are prepared oblong in shape, three feet long by two and a half broad, and about eight inches deep, always made smaller at the bottom than the top. Each of these is fitted into a wooden frame on four legs, about two feet and a half from the floor. In the bottom of this pan is a hole large enough to receive a common bottle cork. When wishing to take the cream, this cork is withdrawn and the milk received in a pail or other utensil. Just as the last of the milk is about to escape, the cork is replaced and an unbroken mass of cream is left in the basin. Is not this process worth an experiment? We think it is, and recommend a trial.

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London.

h. m.
2 53 mo.
7 52 mo.
6 52 mo.
9 48 ev.

- 1 Cloudy $\frac{1}{2}$ windy all day fine after 4
 - 2 fine clear sun $\frac{1}{2}$ all day
 - 3 fine clear $\frac{1}{2}$ fine all day
 - 4 Cloudy $\frac{2}{4}$ north wind
 - 5 foggy $\frac{1}{2}$ heavy fog fine all day
 - 6 Cloudy $\frac{2}{8}$ Thawing very much
 - 7 fine $\frac{1}{30}$ very hot sun 40 at 2
 - 8 fine $\frac{2}{9}$ at 30 N 44
 - 9 Cloudy $\frac{2}{2}$ windy at 2 $\frac{23}{9}$ fine
 - 10 Snowy $\frac{1}{4}$ north wind strong
 - 11 fine $\frac{1}{2}$ but more than 40 and
 - 12 some clouds but fine 10
 - 13 Cloudy mid $\frac{1}{26}$ fine in the afternoon
 - 14 fine $\frac{1}{4}$ beautiful day
 - 15 fine clear Hold 0
 - 16 fine $\frac{1}{8}$ red sun this morning
 - 17 cloudy $\frac{2}{6}$ did not snow
 - 18 fine clear Hold 0
 - 19 fine $\frac{1}{4}$ no appearance of a snow storm
 - 20 Cloudy $\frac{1}{20}$ spotting snow the afternoon
 - 21 cloudy $\frac{2}{4}$ 2 inches of snow fell yesterday
 - 22 cloudy $\frac{1}{23}$ snow & snow
 - 23 cloudy $\frac{1}{30}$ rains all day 174 30
 - 24 cloudy $\frac{1}{36}$ turned out fine 40
 - 25 cloudy $\frac{2}{6}$ cloudy all day 0
 - 26 fine $\frac{1}{28}$ fine all day
 - 27 fine $\frac{1}{26}$ fine all day 44
 - 28 cloudy and cloudy $\frac{2}{6}$
- These ends Feb and no snow

ROBERT MILLER keeps a full stock of Pirie & Son's Writing Papers and Envelopes.]

Dominion.

Sun. on Meridian.

h. m. s.
12 18 53
14 1
12 14 7
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14 25
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24 29
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14 2
13 55
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13 32
12 13 23
13 14
13 8
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12 12 42

sition on s. Milk- lf broad, han the feet and ough to cork is last of f cream it is, and

Moon's Phases.		Halifax.	Quebec.	Montreal.	Kingston.	Toronto.	London.
	D.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
New Moon.....	3	11 3 ev.	10 33 ev.	10 24 ev.	10 12 ev.	10 1 ev.	9 53 ev.
First Quarter	11	11 46 ev.	11 16 ev.	11 7 ev.	10 55 ev.	10 44 ev.	10 36 ev.
Full Moon.....	18	4 52 ev.	4 22 ev.	4 13 ev.	4 1 ev.	3 50 ev.	3 42 ev.
Third Quarter.....	25	0 35 ev.	0 5 ev.	11 56 ev.	11 44 ev.	11 33 ev.	11 25 ev.

M	Week.	Montreal.		The Moon.	Toronto.		Halifax, N.S.			The Dominion.		
		Sun Rises.	Sun Sets.	R. & S.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	The Moon R.&S.	High Tide.	Sun's Declin.	Sun on Meridian.
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	D. M.	h. m. s.	
1	Fri.	6 45	5 42	Sets.	6 43	5 41	6 37	5 48	Sets.	6 41	7 16	12 12 30
2	Sat.	44	42	4 21	42	42	34	47	4 17	7 28	6 53	12 18
3	F.	6 42	5 44	5 25	6 40	5 44	6 32	5 51	5 21	8 2	6 30	12 12 5
4	Mon.	40	45	6 26	39	46	31	52	6 22	8 32	6 7	11 52
5	Tues.	38	47	7 27	37	48	29	53	7 23	8 59	5 44	11 38
6	Wed.	36	48	8 30	34	49	27	55	8 26	9 26	5 20	11 24
7	Thu.	34	49	9 33	33	50	25	56	9 29	9 54	4 57	11 10
8	Fri.	31	51	10 39	31	51	24	57	10 35	10 20	4 34	10 55
9	Sat.	29	53	11 45	29	53	22	59	11 41	10 50	4 10	10 39
10	F.	6 27	5 54	Morn.	6 27	5 55	6 20	6 0	Morn.	11 21	3 47	12 10 24
11	Mon.	25	55	0 51	25	56	18	1	0 47	11 58	3 23	10 8
12	Tues.	24	56	1 56	23	57	16	2	1 52	Morn.	3 0	9 51
13	Wed.	22	58	2 49	22	58	14	4	2 49	0 46	2 36	9 35
14	Thu.	20	59	3 40	20	6 1	13	5	3 36	1 55	2 12	9 18
15	Fri.	18	6 1	4 20	18	2	12	6	4 16	3 36	1 49	9 0
16	Sat.	16	2	4 52	16	3	10	7	4 48	5 9	1 25	8 43
17	F.	6 14	6 3	5 20	6 15	6 4	6 8	6 9	5 16	6 20	1 1	12 8 26
18	Mon.	12	4	Rises.	12	6	6	10	Rises.	7 8	0 37	8 8
19	Tues.	10	5	7 56	10	7	4	11	7 56	7 52	S. 14	7 50
20	Wed.	9	7	9 22	9	8	2	13	9 18	8 32	N. 9	7 32
21	Thu.	7	8	10 41	6	9	1	14	10 37	9 13	0 33	7 14
22	Fri.	5	9	11 56	5	11	5 59	15	11 52	9 54	0 56	6 55
23	Sat.	3	11	Morn.	3	12	57	16	Morn.	10 35	1 20	6 37
24	F.	6 1	6 13	1 3	6 1	6 13	5 55	6 18	0 59	16 16	1 44	12 6 19
25	Mon.	6 59	15	2 51	5 59	14	53	19	1 57	11 59	2 7	6 0
26	Tues.	57	16	2 45	58	16	51	20	2 41	ev 54	2 31	5 42
27	Wed.	55	17	3 21	56	17	49	21	3 17	2 7	2 54	5 23
28	Thu.	53	18	3 51	54	15	47	23	3 46	3 44	3 17	5 5
29	Fri.	52	19	4 10	53	20	46	24	4 6	5 10	3 14	4 47
30	Sat.	50	22	4 29	51	21	44	25	4 25	6 13	4 4	4 28
31	F.	5 48	6 21	4 48	5 49	6 21	5 42	6 26	4 44	6 54	4 27	12 4 10

MARCH.—That very delicious vegetable the cauliflower is very difficult to raise. Early sown they too frequently fail, but those sown or planted late are mostly saved. We are told that the late cauliflowers succeed, because the heat of the sun is gradually growing less, while frequent fogs and cool night dews are favourable to the development of the plant. Cauliflowers will not head in hot weather, in fact the growth is checked altogether and the plants come to a standstill. They may, however, be stimulated by abundant manures in the Spring, and proper protection during chilly nights. Our climate and other conditions demand abundant watering in dry weather, and protection from chills. With a good deal of care and caution this vegetable may be raised.

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Friday.

MEMORANDUM FOR MARCH.

13

London.
h. m.
9 53 ev.
10 36 ev.
3 42 ev.
1 25 ev.

minion.

Sun on
Meridian.

h. m. s.

12 12 30

12 12 18

12 12 5

11 52

11 38

11 24

11 10

10 55

10 39

12 10 24

10 8

9 51

9 35

9 18

9 0

8 43

8 26

8 8

7 50

7 32

7 14

6 55

6 37

6 19

6 0

5 42

5 23

5 5

4 47

4 28

4 10

4 0

3 42

3 24

3 6

2 48

2 30

2 12

1 54

1 36

1 18

1 0

0 42

0 24

0 6

0 0

1 fine clear cold 0 7 1/2
2 fine 19 all day falling 15
3 rain wind hail 2 8 all day 30 AM
4 cloudy 26 thick 2 1/2
5 fine 18 9

6 cloudy 36 at 3 PM 40
7 cloudy 40 rain 40 a little
8 fine 40 at 3 PM 48
9 fine 36 at 4 PM 46 not sun

10 cloudy 44 13 30, 12
11 cloudy 29 9 30 23 fine all day
12 cloudy 29 13 30, 16
13 rain at 7 a little 36
14 cloudy hot 28 fine 32

15 fine 30 a beautiful day
16 cloudy 24 fine of the moon 48
17 cloudy 17 fine after 10
18 fine 36 fine all day

19 cloudy 14 little rain 1 snow 14
20 cloudy 28 hot 5 a fine fine
21 clear 20 20 19 at 3 PM 36
22 fine 18 at 3 39

23 rain 38 not much rain 4
24 cloudy 26 19 24 34 snow in afternoon
25 cloudy 40 12 much of snow 1
26 cloudy 30 hot wind fine afternoon
27 cloudy 36 fine day after noon

28 cloudy 33 rain in afternoon all day
29 fine 34 19 28 88 than any sun
30 fine 34 13 30, 20 no hot sun 48
31 fine 36 at 9 PM

They are now in low water
mild and little snow

Judson's Mucilage and Simple Dyes, kept by ROBERT MILLER.

Moon's Phases.		Halifax.	Quebec.	Montreal.	Kingston.	Toronto.	London.
	D.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
New Moon	2	5 0 ev.	4 30 ev.	4 21 ev.	4 9 ev.	3 58 ev.	3 50 ev.
First Quarter	10	10 40 mo.	10 10 mo.	10 1 mo.	9 49 mo.	9 38 mo.	8 30 mo.
Full Moon	17	1 43 mo.	1 13 mo.	1 4 mo.	0 56 mo.	0 48 mo.	0 40 mo.
Third Quarter	24	4 19 mo.	3 49 mo.	3 40 mo.	3 28 mo.	3 17 mo.	3 9 mo.

M. Week.	Montreal.		The Moon.	Toronto.		Halifax, N.S.			The Dominion.		
	Sun Rises.	Sun Sets.	R. & S.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	The Moon R.&S.	High Tide.	Sun's Declin.	Sun on Meridian.
	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	D. M.	h. m. s.
1 Mon.	5 46	6 22	Sets.	5 47	6 21	5 40	6 28	Sets.	7 28	4 50	12 3 52
2 Tues.	44	23	6 22	46	22	38	29	6 18	7 59	5 13	3 34
3 Wed.	42	24	7 24	44	23	36	30	7 20	8 26	5 36	3 16
4 Thur.	41	25	8 30	42	25	35	31	8 26	8 55	5 39	2 58
5 Fri.	39	27	9 37	40	27	33	32	9 33	9 23	6 22	2 41
6 Sat.	37	29	10 44	38	28	31	34	10 40	9 53	6 44	2 23
7 F.	5 35	6 30	11 47	5 36	6 29	5 29	6 35	11 43	10 25	7 7	12 2 6
8 Mon.	53	31	Morn.	35	30	27	36	Morn.	11 0	7 29	1 49
9 Tues.	52	32	0 46	33	32	26	37	0 42	11 41	7 52	1 32
10 Wed.	30	33	1 35	31	33	24	39	1 31	Morn.	8 14	1 16
11 Thur.	28	34	2 18	29	34	22	40	2 14	0 34	8 36	0 59
12 Fri.	26	36	2 50	26	35	20	41	2 46	1 45	8 58	0 43
13 Sat.	24	37	3 18	24	36	18	42	3 14	3 19	9 19	0 28
14 F.	5 22	6 38	3 40	5 23	6 37	5 17	6 44	3 37	4 43	9 41	12 0 12
15 Mon.	20	40	4 4	21	39	15	45	4 0	5 48	10 2	11 59 57
16 Tues.	18	42	4 28	20	40	13	46	4 24	6 37	10 23	59 43
17 Wed.	17	43	Rises.	18	41	12	47	Rises.	7 20	10 44	59 28
18 Thur.	15	44	9 32	15	42	10	49	9 28	8 4	11 55	59 14
19 Fri.	13	45	10 44	14	43	8	50	10 40	8 47	11 26	59 1
20 Sat.	11	47	11 47	13	44	7	51	11 43	9 30	11 47	58 48
21 F.	5 10	6 48	Morn.	5 11	6 45	5 5	6 52	Morn.	10 13	12 7	11 58 35
22 Mon.	8	49	0 39	9	46	3	53	0 35	10 55	12 27	58 23
23 Tues.	6	50	1 20	8	47	2	55	1 16	11 44	12 47	58 11
24 Wed.	5	51	1 49	7	48	5 0	56	1 45	ev. 38	13 7	58 0
25 Thur.	3	53	2 15	5	49	4 58	57	2 11	1 41	13 26	57 49
26 Fri.	2	55	2 54	4	50	57	58	2 30	3 1	13 45	57 39
27 Sat.	5 0	57	2 53	3	51	55	7 0	2 49	4 20	14 4	57 29
28 F.	4 58	6 53	3 11	5 2	6 53	4 54	7 1	3 7	5 21	14 23	11 57 20
29 Mon.	56	59	3 27	1	54	52	2	3 23	6 8	14 42	57 12
30 Tues.	55	7 0	3 46	4 59	55	51	3	3 42	6 45	15 0	11 57 3

APRIL.—The ladies will now be thinking and planning about their flower gardens. It is quite as easy to raise young plants as it is to procure slips. A saucer or soup plate partially filled with clean sand, and the water kept above the surface. Set this in a sunny window and insert your cuttings. An ordinary plant will root nearly as readily as in a propagating bed, and may be transferred to small pots of earth. Let the stems of geraniums dry thoroughly on the cut surface. Verbenas may be put in as cut from any or all of the varieties. Pink slips may be pulled, not cut, from the extremities of growing shoots. The begonias, heliotropes, &c., may be inserted at once. Use small pots, with rich earth with dry sand. Give plenty of air and keep the plants pinched.

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Monday.

1878.]

MEMORANDUM FOR APRIL.

15

London.

E. m.
8 50 ev.
3 30 mo.
0 40 mo.
3 9 mo.

ominion.

Sun on Meridian.

h. m. s.

12 3 52
3 34
3 16
2 58
2 41
2 23
12 2 6
1 49
1 32
1 16
0 59
0 43
0 28

12 0 12

11 59 57
59 43
59 28
59 14
59 1
58 48

11 58 35

58 23
58 11
58 0
57 49
57 39
57 29

11 57 20

57 12

11 57 3

air flower
slips. A
bove the
ordinary
unferred
the cut
s. Pink
ts. The
ith rich

1 Cloudy 38 like rain fine day
2 Cloudy 36 " turned out fine
3 Fine 40 9 fine moon 5/8 at 3 00
4 Cloudy 40 fine after dark
5 Clear day rain snow 35

6 Rainy 38 18 24 49
7 Rainy 35 rain all day
8 Old cast 45 13 29 50

9 Fine with white frost night
10 Rain 50 moon visible all day

11 Rain 50 at noon visible all day
12 Rain 52 at 4 PM white day
13 Rain 45 18 29 25 - Rain all day

14 Cloudy 44 13 29 70 fine moon a little
15 Cloudy 49 13 29 95 but rather fine

16 Clear 41 13 30 04 fine after moon
17 Cloudy 50 13 30 06 fine moon
18 Fine 45 beautiful day

19 Fine 46 beautiful day
20 Fine 48 13 29 84

21 Cloudy rain last night 24 fine
22 Fine 42 13 29 95

23 Fine cloudy fine
24 Fine cloudy fine

25 Cloudy rain to day last night
26 Fine considerable day

27 Fine - moon 1/2
28 Cloudy no rain all day
29 Cloudy 52 rain

30 Fine 58 0
This has been a remarkable
mild month some say more so
than last

ROBERT MILLER Agent for Rowans & Gray's Bibles, &c.

Moon's Phases.		Halifax.	Quebec.	Montreal.	Kingston.	Toronto.	London.
	D.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
New Moon.....	2	8 36 mo.	8 6 mo.	7 57 mo.	7 45 mo.	7 34 mo.	7 23 mo.
First Quarter.....	9	6 18 ev.	5 48 ev.	5 39 ev.	5 27 ev.	5 16 ev.	5 8 ev.
Full Moon.....	16	10 17 mo.	9 47 mo.	9 38 mo.	9 26 mo.	9 15 mo.	9 7 mo.
Third Quarter.....	23	9 27 ev.	8 57 ev.	8 48 ev.	8 36 ev.	8 25 mo.	8 17 ev.
New Moon.....	31	9 33 ev.	9 3 ev.	8 54 ev.	8 42 ev.	8 30 ev.	8 23 ev.

M.	Week.	Montreal.		The Moon.	Toronto.		Halifax, N. S.			The Dominion.		
		Sun Rises.	Sun Sets.	R. & S.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	The Moon R.&S.	High Tide.	Sun's Declin.	Sun on Meridian.
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	Dg. M.	h. m. s.
1	Wed.	4 54	7 00	Sets.	4 58	6 56	4 49	7 5	Sets.	7 21	15 18	11 56 56
2	Thur.	53	1	7 27	57	57	48	6	7 23	7 58	15 36	56 49
3	Fri.	51	3	8 34	55	59	46	7	8 31	8 24	15 54	56 42
4	Sat.	50	4	9 39	54	7 00	45	9	9 35	8 57	16 11	56 36
5	F.	4 49	7 5	10 40	4 53	7 1	4 43	7 10	10 36	9 33	16 28	11 56 31
6	Mon.	47	7	11 32	51	2	42	11	11 28	10 9	16 45	56 29
7	Tues.	45	8	Morn.	49	3	41	12	Morn.	10 49	17 1	56 21
8	Wed.	44	9	10 17	48	4	39	13	0 13	11 35	17 17	56 18
9	Thur.	41	10	0 52	47	5	38	15	0 48	Morn.	17 33	56 14
10	Fri.	40	11	1 19	46	6	37	16	1 15	0 31	17 49	56 12
11	Sat.	39	12	1 44	45	7	35	17	1 40	1 40	18 4	56 10
12	F.	4 37	7 13	2 7	4 44	7 8	4 34	7 18	2 3	2 55	18 19	11 56 8
13	Mon.	36	15	2 28	42	10	33	19	2 24	4 10	18 34	56 7
14	Tues.	34	16	2 53	41	12	32	20	2 49	5 11	18 48	56 6
15	Wed.	33	17	3 21	40	13	31	21	3 17	6 5	19 2	56 7
16	Thur.	32	18	Rises.	39	14	30	23	Rises.	6 55	19 16	56 7
17	Fri.	31	19	9 30	38	15	29	24	9 26	7 43	19 30	56 9
18	Sat.	30	20	10 28	36	16	23	25	10 24	8 29	19 43	56 10
19	F.	4 29	7 21	11 13	4 36	7 17	4 27	7 26	11 9	9 14	19 56	11 56 13
20	Mon.	28	22	11 40	35	19	26	27	11 36	10 0	20 8	56 16
21	Tues.	27	23	Morn.	34	20	25	28	Morn.	10 43	20 20	56 19
22	Wed.	27	24	0 16	33	21	24	29	0 12	11 27	20 32	56 23
23	Thur.	26	25	0 36	32	22	23	30	0 32	ev.16	20 43	56 28
24	Fri.	25	27	0 58	31	23	22	31	0 54	1 9	21 54	56 33
25	Sat.	24	28	1 15	31	24	22	32	1 11	2 7	21 5	56 38
26	F.	4 23	7 29	1 32	4 30	7 25	4 21	7 33	1 28	3 13	21 15	11 56 45
27	Mon.	22	30	1 51	29	25	20	34	1 47	4 16	21 25	56 52
28	Tues.	21	31	2 10	28	26	19	35	2 6	5 10	21 35	56 59
29	Wed.	21	32	2 35	28	26	19	36	2 31	6 0	21 44	57 7
30	Thur.	20	33	3 4	27	26	18	36	3 0	6 41	21 53	57 15
31	Fri.	20	34	3 44	27	27	18	37	3 40	7 22	21 1	11 57 23

MAY.—We met with a piece of good advice the other day suitable for all farmers, and especially for the young folks. It was, "be sociable with animals." It is good advice for life in all relations to one another, but we recommend kindness and sociableness with all the creatures usually found in a farm yard. The cows and oxen, the calves, the sheep, the lambs, the pigs, the chickens and ducks, the horses and colts, and why not also the cats and dogs. They are in some respects our companions. They live with us and for us, and with a little familiarity may afford us great pleasure. Boys are often rough in speech and action, and animals know the difference between roughness and smoothness. They are sensitive to kindness and pleasant speech. To cows especially, if you want an increase of milk, be kind and social.

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1878.]

MEMORANDUM FOR MAY.

uesday.

London.

1. m.
4.5 mo.
8 ev.
7 mo.
17 ev.
22 ev.

London.

Sun on
eridian.

1. m. s.

1 56 56
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56 42
56 36

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for all
imals."
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1 Church 60 - some
2 pm 60 - some
3 cloudy 64 - some
4 Church 64 - some
5 cloudy 68 - some
6 pm 62
7 pm 5 - back all day
8 pm 66 13 29 71
9 pm 62 27 62 heavy rain
10 pm 54 - some
11 cloudy 48 - some
12 cloudy 44 13 29 69
13 cloudy 40 13 29 70 - some
14 Church 62 2 13 90
15 pm 62 - some
16 pm 52 13 30 - some
17 pm 60 - some
18 pm 62 - some
19 pm 62 13 30 15
20 rain 60 - some
21 rain 62 - some
22 pm 48 13 29 43
23 pm 34 13 30 05
24 pm 60 13 29 60
25 pm 62 - some
26 cloudy 62 13 29 50 - some
27 cloudy 58 29 50
28 pm 62
29 pm 62 13 29 62
30 pm 62 13 29 98
31 pm 64 13 29 55

The month of May has
been the best month of
the season

All the leading College and School Text Books to be had at ROBERT MILLER'S.

Moon's Phases.	D.	Halifax.	Quebec.	Montreal.	Kingsfen.	Toronto.	London.
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
First Quarter.....	7	11 40 ev.	11 10 ev.	11 1 ev.	10 49 ev.	10 38 ev.	10 30 ev.
Full Moon.....	14	7 37 ev.	7 7 ev.	6 53 ev.	6 46 ev.	6 35 ev.	6 27 ev.
Third Quarter.....	22	3 1 ev.	2 31 ev.	2 22 ev.	2 10 ev.	1 59 ev.	1 51 ev.
New Moon.....	30	8 16 mo.	7 46 mo.	7 37 mo.	7 25 mo.	7 14 mo.	7 6 mo.

DAYS.	M	Week.	Montreal.		The Moon.	Toronto.		Halifax, N.S.				The Dominion.	
			Sun Rises.	Sun Sets.	R. & S.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	The Moon R & S	High Tide.	Sun's Declin.	Sun on Meridian.
1	Sat.		h. m. 4 20	h. m. 7 34	h. m. Sets.	h. m. 4 27	h. m. 7 28	h. m. 4 17	h. m. 7 38	h. m. Sets.	h. m. 8 1	D. M. 22 9	h. m. s. 11 57 32
2	F.		4 20	7 36	9 28	4 27	7 29	4 19	7 39	9 24	8 39	22 17	11 57 42
3	Mon.		19	37	10 16	26	31	16	40	10 12	9 18	22 24	57 51
4	Tues.		19	37	10 54	26	31	16	41	10 50	10 0	22 31	58 1
5	Wed.		18	38	11 23	25	32	15	41	11 19	10 44	22 38	58 12
6	Thur.		17	39	11 50	24	32	15	42	11 46	11 32	22 44	58 22
7	Fri.		17	40	Morn.	24	34	15	43	Morn	Morn	22 49	58 33
8	Sat.		17	41	0 14	24	34	14	44	0 7	0 25	22 55	58 45
9	F.		4 17	7 42	0 32	4 24	7 35	4 14	7 44	0 28	1 24	23 0	11 58 56
10	Mon.		17	42	0 55	24	36	14	45	0 51	2 26	23 4	59 8
11	Tues.		17	43	1 20	24	36	14	45	1 16	3 34	23 8	59 20
12	Wed.		16	43	1 52	23	36	14	46	1 47	4 36	23 12	59 32
13	Thur.		16	44	2 26	23	37	14	47	2 22	5 40	23 15	59 44
14	Fri.		16	44	Rises.	23	37	13	48	Rises.	6 38	23 18	59 57
15	Sat.		16	44	9 05	23	38	13	49	9 1	7 32	23 21	12 0 9
16	F.		4 16	7 46	9 45	4 28	7 38	4 14	7 47	9 41	8 20	23 23	12 0 22
17	Mon.		16	46	10 16	23	39	14	48	10 12	9 5	23 24	0 35
18	Tues.		16	46	10 40	23	39	14	48	10 36	9 48	23 25	0 48
19	Wed.		16	46	10 1	23	39	14	48	10 57	10 29	23 26	1 1
20	Thur.		16	47	11 18	23	40	14	49	11 14	11 7	23 27	1 14
21	Fri.		16	47	11 36	24	40	14	49	11 32	11 48	23 27	1 27
22	Sat.		17	47	0 53	25	40	15	49	11 49	ev 30	23 26	1 40
23	F.		4 17	7 47	Morn.	4 25	7 39	4 15	7 49	Morn	1 14	23 25	12 1 53
24	Mon.		18	46	0 13	25	39	15	49	0 9	2 2	23 24	2 6
25	Tues.		18	47	36	25	39	15	49	0 32	3 1	23 22	2 18
26	Wed.		18	46	1 2	26	39	16	49	0 58	4 5	23 20	2 31
27	Thur.		19	46	1 37	26	39	16	49	1 33	5 8	23 18	2 44
28	Fri.		19	46	2 21	26	39	17	49	2 17	6 5	23 15	2 56
29	Sat.		20	46	3 17	25	38	17	49	3 13	6 55	23 12	3 8
30	F.		4 20	7 46	Sets.	4 25	7 38	4 16	7 49	Sets.	7 42	23 28	12 3 29

JUNE.—It is not pleasant to have that "thistle" nuisance called the "Canada Thistle," but there may be some good reason for it, although there are plenty of that same in the border States, which it would be hard to trace to a Canadian origin. We have them. Let us get rid of them. A practical man says:—"I once killed a patch of these thistles by sowing the land to buckwheat so thick that it completely smothered them." He says also, that "a man who wrote on this subject some years ago said that he had cut thistles several years ago from the 15th to the 25th of August, and they had always died." Another cut the thistles in August close to the ground, and put a tablespoonful of salt upon the head of each stalk. They were not killed, but weakened, so that three plowings next season destroyed them all.

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Saturday,

London,
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1 51 ev.
7 6 mo.

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Sun on
Meridm.

h. m. s.
11 57 32

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57 51

58 1

58 12

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58 33

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MEMORANDUM FOR JUNE.

19

- 1 Sun 20 13 30 75
 - 2 Sun 20 13 30 05 at 30h 75
 - 3 Sun 20 13 30 05
 - 4 Monday 20 13 29 40 heavy rain
 - 5 Tuesday 20 13 29 40
 - 6 Sun 20 13 30 05
 - 7 Sun 20 13 30 05
 - 8 Sun 20 13 30 05 rain but off
 - 9 Sun 20 13 30 05 Mrs Hemmellon came today
 - 10 Sun 20 13 30 05 the 10th of June
 - 11 Sun 20 13 29 60
 - 12 Sun 20 13 29 50
 - 13 Sun 20 13 29 40
 - 14 Sun 20 13 30 10
 - 15 Sun 20 13 30 00
 - 16 Sun 20 13 29 46
 - 17 Sun 20 13 29 15
 - 18 Sun 20 13 29 50
 - 19 Sun 20 13 29 72
 - 20 Sun 20 13 29 70
 - 21 Sun 20 13 29 74 same but night
 - 22 Sun 20 13 29 70
 - 23 Monday 20 13 29 70
 - 24 Tuesday 20 13 29 70
 - 25 Wednesday 20 13 29 70
 - 26 Thursday 20 13 29 70
 - 27 Friday 20 13 29 70
 - 28 Saturday 20 13 29 70
 - 29 Sunday 20 13 29 70
 - 30 Monday 20 13 29 70
- This has been done

Plain and Ornamental Binding done at ROBERT MILLER'S.

Moon's Phases.		Halifax.	Quebec.	Montreal.	Kingston.	Toronto.	London.
First Quarter.....	D. 7	h. m. 4 6 mo.	h. m. 3 36 mo.	h. m. 3 27 mo.	h. m. 3 15 mo.	h. m. 3 4 mo.	h. m. 2 56 mo.
Full Moon.....	14	6 40 mo.	6 10 mo.	6 1 mo.	5 49 mo.	5 38 mo.	5 30 mo.
Third Quarter.....	22	8 1 mo.	7 31 mo.	7 22 mo.	7 10 mo.	6 59 mo.	6 51 mo.
New Moon.....	29	5 26 ev.	4 56 ev.	4 47 ev.	4 35 ev.	4 24 ev.	4 16 ev.

M. Week.	DAYS.	Montreal.		The Moon.	Toronto.		Halifax, N.S.				The Dominion.	
		Sun Rises.	Sun Sets.	R. & S.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	The Moon R. & S.	High Tide.	Sun's Declin.	Sun on Meridian.
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	D. M.	h. m. s.
1	Mon.	4 20	7 46	8 52	4 27	7 39	4 18	7 49	8 48	8 25	23 4	12 3 32
2	Tues.	21	46	9 26	28	39	19	49	9 42	9 7	22 59	3 44
3	Wed.	22	46	9 52	29	39	20	49	9 48	9 51	22 54	3 55
4	Thur.	23	45	10 16	30	38	21	48	10 12	10 36	22 49	4 6
5	Fri.	23	45	10 39	30	38	21	48	10 35	11 22	22 43	4 16
6	Sat.	24	44	11 00	31	38	22	48	10 56	Morn	22 37	4 26
7	F.	4 25	7 44	11 24	4 32	7 38	4 22	7 47	11 20	0 9	22 31	12 4 36
8	Mon.	26	44	11 51	33	37	23	47	11 47	1 0	22 44	4 46
9	Tues.	27	44	Morn.	34	36	24	46	Morn	1 53	22 17	4 55
10	Wed.	28	43	0 25	34	36	25	46	0 21	2 56	22 9	5 3
11	Thur.	28	43	1 9	34	36	25	45	1 5	4 9	22 1	5 11
12	Fri.	30	42	2 2	34	35	26	44	1 58	5 24	22 59	5 19
13	Sat.	30	41	3 2	35	34	27	44	2 58	6 31	21 44	5 26
14	F.	4 31	7 41	Rises.	4 36	7 34	4 28	7 43	Rises.	7 27	21 35	12 5 33
15	Mon.	32	41	8 42	37	33	29	43	8 38	8 14	21 25	5 39
16	Tues.	33	40	9 4	38	32	30	42	9 0	9 55	21 15	5 45
17	Wed.	33	39	9 23	39	32	31	41	9 19	9 32	21 5	5 50
18	Thur.	34	38	9 41	40	31	32	40	9 37	10 9	20 54	5 55
19	Fri.	35	37	9 58	41	30	33	39	9 54	10 43	20 43	5 59
20	Sat.	36	36	10 16	42	29	34	38	10 12	11 14	20 32	6 3
21	F.	4 37	7 35	10 37	4 43	7 29	4 35	7 38	10 33	11 48	22 20	12 6 6
22	Mon.	38	34	11 2	44	28	36	37	10 58	ev. 24	20 8	6 9
23	Tues.	39	33	11 33	45	27	38	36	11 29	1 4	19 56	6 11
24	Wed.	40	32	Morn.	46	26	39	35	Morn	1 54	19 43	6 13
25	Thur.	41	31	0 11	47	25	40	34	0 7	2 57	19 30	6 14
26	Fri.	42	30	1 1	47	24	41	33	0 57	4 19	19 17	6 14
27	Sat.	43	30	2 3	49	23	42	31	1 59	5 37	19 3	6 14
28	F.	4 43	7 28	3 10	4 49	7 22	4 43	7 30	3 10	6 35	18 49	12 6 13
29	Mon.	44	27	Sets.	50	21	44	29	Sets.	7 26	18 35	6 12
30	Tues.	46	26	7 53	51	21	44	28	7 49	8 12	18 20	6 9
31	Wed.	47	25	8 18	52	20	45	27	8 14	8 54	18 6	12 6 7

JULY.—The surroundings of a farm house often present a cheerless and unpleasant aspect. This ought not to be so. It need not be so. With a little trouble, and without much expense, a nice lawn of grass may be formed. Rare flowers and choice shrubs are set off to advantage by intersecting plots of grass, which has been well called the groundwork of rural beauty. By frequent mowing and topdressing, a rough grass plot may be made soft to the foot and graceful to the eye. Take out the weeds, or they will spoil your work. If, after mowing, the cut grass shows, rake it off, but if it be, as it were, unseen, let it remain as mulch for the roots. If there are any bare spots, cut them out, and bring in fresh turf. If you cannot get sod, then seed down, but it will require a couple of years to get it into shape. Be determined to have something handsome and you will accomplish it.

Monday.

London.

h. m.
2 56 mo.
6 30 mo.
6 57 mo.
4 16 ev.

Dominion.

Sum on
Magdian.

h. m. s.

12 3 32
3 44
3 55
4 6
4 16
4 26

12 4 36
4 46
4 55
5 3

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ed. Rare
of grass,
-nt mow-
graceful
mowing,
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s in fresh
of years
you will

MEMORANDUM FOR JULY.

21

1 pin 08 4A 0A m, 44 at 4 28
 2 pin 06 at 7 01 3 17 94
 3 pin 07 17 17 pin 90 4 9 94
 4 pin 08 13 20 00 at 3 26
 5 pin 01 00 at 3 20 84
 6 pin 70 0 at 4 01 80
 7 pin 07 11 08, 2 off pm 80
 8 pin 08 13 29 80 at 4 - 88
 9 pin 09 00 at 2 20 83
 10 pin 76 08 a little more 70 at 4 01
 11 pin 70 08 at 3 70
 12 pin 70 08 at 4 04 80
 13 pin 74 0 at 4 04 82 4
 14 pin 71 94 at 4 0 86
 15 pin 08 13 29 95 at 86
 16 pin 08 13 29 95 20 0 a little
 17 pin 72 0 at 4 04 80 94
 18 pin 9 80 at 5 17 9 90
 19 pin 89 at 4 86
 20 pin 0 7 0 at 4 9 86
 21 pin 07 07 6 70 0 20 0 20 0 20 0 20 0
 22 pin 06 02 9 48 20 0 20 0 20 0 20 0
 23 pin 05 01 29 80 at 4 79 20 0
 24 pin 4 74 at 85
 25 pin 74 9 at 4 84 9
 26 pin 70 0 13 29 60 20 0 20 0 20 0 20 0
 27 pin 70 0 13 29 82 20 0 20 0 20 0 20 0
 28 pin 11 46 17 29 94 4 74
 29 pin 70 0 at 4 0 80
 30 pin 0 70 at 0 4 76
 31 cloudy 0 80 at 4 76
 This has been a

Paper Hangings and Window Shades shipped direct to Customers from Factory.

Thursday.

1878.]

MEMORANDUM FOR AUGUST.

London.

h. m.
7 55 mo.
6 52 ev.
10 43 mo.
0 35 mo.

minion.

Sun on Meridian.

h. m. s.
12 6 4
6 0
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12 4 57
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1. Fair 72 76 Rain & Thunder
 2. Cloudy 79 4 78 -
 3. Fair 72 at 4 84
 4. Fair 72 at 4 84 - Thunder
 5. Cloudy 76 at 4 86 rain
 6. Rain 74 very rain
 7. Rain 70 29 Thunder & Thunder
 8. Cloudy 78 at 74
 9. Sunny 74 Moderate Warm
 10. Fair 69 - at 4 PM 76
 11. Fair 70 Rain 64
 12. Cloudy 64 Moderate Day
 13. Cloudy 66 at 4 74 Fair
 14. Fair 68 at 4 Thunder Storm
 15. Rain 70 fair 64 at 4 74
 16. Fair 76 Sulfur 84 at 4 PM
 17. Fair 72 at 9 80 at 1 3 1 Thunder
 18. Cloudy 68 at noon 67
 19. Fair 68 Rain at 1 PM
 20. Cloudy 66 Rain to day
 21. Fair 70 no rain to day
 22. Fair 70 no rain 76
 23. Fair 66 no rain 78
 24. Fair 70 clouded out after 11
 25. Cloudy 66 rain last night
 26. Cloudy 66 clouded over
 27. Fair 68 68 72 79 70 at 3 PM 78
 28. Fair 68 at 4 PM 80
 29. Cloudy 68 at 4 80
 30. Fair 70 very warm 80
 31. Fair 70 very warm 80
 32. to day end on other
 33. Warm month

The Danville School States are superior to any now in use.

Moon's Phases.		Halifax.	Quebec.	Montreal.	Kingsto.	Toron'o.	London.
	D.	h. m.	h. m.	h. m.	h. m.	n. r.	h. m.
First Quarter.....	3	4 11 ev.	3 41 ev.	3 32 ev.	3 20 ev.	3 9 ev.	3 1 ev.
Full Moon.....	11	11 35 mo.	11 5 mo.	10 56 mo.	10 44 m.	10 33 mo.	10 25 mo.
Third Quarter.....	19	2 16 ev.	1 46 ev.	1 37 ev.	1 25 ev.	1 14 ev.	1 6 ev.
New Moon.....	26	9 56 mo.	9 26 mo.	9 17 mo.	9 5 m.	8 54 mo.	8 46 mo.

DAYS.		Montreal.		The Moon.	Toronto.		Halifax, N. S.			The Dominion.		
M.	Week.	Sun Rises.	Sun Sets.	R. & S.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	The Moon R. & S.	High Tides.	Sun's Declin.	Sun on Meridian
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	D. M.	h. m. s.
1	F.	5 26	6 34	8 28	5 27	6 33	5 23	6 38	8 24	10 35	8 1	11 59 50
2	Mon.	28	32	9 6	28	32	25	35	9 2	11 16	7 39	59 31
3	Tues.	29	30	9 54	30	29	26	34	9 50	M rn	7 17	59 12
4	Wed.	30	28	10 47	31	28	27	32	10 43	0 2	6 54	58 52
5	Thur.	31	26	11 51	32	26	28	30	11 47	0 54	6 39	58 32
6	Fri.	32	24	Morn.	34	25	29	28	Morn.	2 6	6 10	58 12
7	Sat.	33	23	0 57	35	26	31	26	0 58	3 42	5 46	57 52
8	F.	5 36	6 21	2 4	5 36	6 21	5 32	6 24	2 0	5 12	5 25	11 57 32
9	Mon.	36	19	3 10	37	20	33	22	3 6	6 18	5 2	57 11
10	Tues.	37	17	4 13	38	18	34	20	4 9	7 4	4 23	56 50
11	Wed.	39	16	Morn.	39	16	35	18	Rises.	7 40	4 16	56 29
12	Thur.	40	14	6 23	40	15	36	16	6 19	8 11	3 53	56 8
13	Fri.	42	12	6 46	41	13	37	14	6 42	8 40	3 30	55 47
14	Sat.	43	10	7 9	42	11	38	12	7 5	9 8	3 7	55 26
15	F.	5 44	6 7	7 34	5 43	6 9	5 39	6 10	7 30	9 36	2 44	11 55 5
16	Mon.	45	6	8 5	45	8	40	8	8 1	10 6	2 22	54 44
17	Tues.	46	4	8 45	46	7	41	6	8 41	10 35	1 58	54 23
18	Wed.	48	2	9 54	47	5	43	5	9 30	11 4	1 39	54 1
19	Thur.	49	1	10 33	48	3	44	4	10 29	11 41	1 11	53 40
20	Fri.	50	5 58	11 41	49	1	45	2	11 37	cv 29	0 48	53 19
21	Sat.	51	56	Morn.	50	5 57	46	6 0	Morn.	1 37	0 24	52 58
22	F.	5 52	5 57	0 56	5 52	5 56	5 47	5 59	0 52	3 12	N. 1	11 52 38
23	Mon.	54	55	2 15	52	54	48	57	2 11	4 44	S. 21	52 17
24	Tues.	56	53	3 33	53	52	49	55	3 25	5 52	0 45	51 55
25	Wed.	56	52	4 54	54	50	50	53	4 50	6 40	1 0	51 35
26	Thur.	57	50	Sets.	55	49	52	51	Sets.	7 24	1 32	51 15
27	Fri.	59	47	5 56	57	47	53	49	5 52	3 3	1 55	50 55
28	Sat.	6 0	44	6 26	57	45	54	47	6 22	3 46	2 18	50 35
29	F.	6 1	5 42	7 2	6 0	5 43	5 56	5 45	6 58	9 27	2 42	11 50 16
30	Mon.	2	40	7 48	1	40	57	48	7 44	10 11	3 5	11 49 56

SEPTEMBER.—A thresher from his youth makes a note of his observations about clover and clover seed. He says, where there was large yield, it was where seed had been sown one bushel to five or six acres, mown the last days of June and plastered after the first crop had been taken off. This thresher says:—"I have raised seed myself that went four and a half bushels to the acre." He experimented in taking clover from the field in three different conditions, and laid away to dry, for the purpose of knowing when was the best time to cut seed clover. The first was when field ripe; the second, when handsomely brown; and the third when still green. When dry the seed was rubbed out, and in the three could see no difference. This shows that the head receives enough sustenance from the stock after it is cut to mature the seed, and when cut a little greener, nearly every seed can be saved.

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MEMORANDUM FOR SEPTEMBER,

1878.]

Sunday,

L. n. d. o. n.

h. m. 8 1 ev. 10 3 mo. 1 6 ev. 8 46 mo.

ominion.

Sun on Meridum

h. m. s.

1 59 50 5 59 31 56 50 58 52 53 32 55 12 57 32 5 54 44 54 23 54 1 53 40 56 49 56 47 55 28

11 55 5 54 23 54 1 53 40 56 49 56 47 55 28

11 55 5 54 23 54 1 53 40 56 49 56 47 55 28

11 52 17 51 36 51 15 50 39

11 50 16 49 56

visions is where of June vs:—1 re expe- id away clove and the re three revery greener,

Monday 70 1329 88
 1 Sun 70 1 2 1/2 m. cloudy at 8 84
 2 Sun 70 1 1/2 m. at 8 80
 3 Sun 70 1 1/2 m. at 8 80
 4 Sun 70 1 1/2 m. at 8 80
 5 Sun 70 1 1/2 m. at 8 80
 6 cloudy 70
 7 Sun 70 1 1/2 m. at 8 80
 8 cloudy 68 at 3 m 78
 9 Sun 70 1 1/2 m. at 8 m 78
 10 Sun 70 1 1/2 m. at 8 80
 11 cloudy 68 1330 04 78
 12 Sun 70 1 1/2 m. at 3 80
 13 cloudy 70 Very warm at 3 84
 14 cloudy 70 1/2 m. cool then wind
 15 Sun 70 1330 00 Heavy wind Easterly
 16 Sun 70 1330 17
 17 cloudy 64
 18 Sun 70 1 1/2 m. Thunder & Rain
 19 Sun 70 1 1/2 m. at 3 84
 20 Sun 70 1 1/2 m. at 3 84
 21 Sun 70 1 1/2 m. at 3 84
 22 Sun 70 1 1/2 m. at 3 84
 23 Sun 70 1 1/2 m. at 3 84
 24 cloudy 89
 25 Sun 70 1 1/2 m. at 3 84
 26 Rain 1829 70
 27 Sun 70 1 1/2 m. at 3 84
 28 Sun 70 1 1/2 m. at 3 84
 29 Sun 70 1 1/2 m. at 3 84
 30 Sun 70 1 1/2 m. at 3 84

Moon's Phases.		Halifax.	Quebec.	Montreal.	Kingston.	Toronto.	London.
	D.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
First Quarter.....	3	2 46 mo.	2 16 mo.	2 7 mo.	1 55 mo.	1 44 mo.	1 36 mo.
Full Moon.....	11	4 40 mo.	4 10 mo.	4 1 mo.	3 49 mo.	3 38 mo.	3 30 mo.
Third Quarter.....	19	2 55 mo.	2 25 mo.	2 16 mo.	2 4 mo.	1 53 mo.	1 45 mo.
New Moon.....	25	6 44 ev.	6 14 ev.	5 42 ev.	5 53 ev.	5 42 ev.	5 34 ev.

M.	Week.	Montreal.		The Moon.	Toronto.		Halifax, N.S.			The Dominion.		
		Sun Rises.	Sun Sets.	R. & S.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	The Moon R. & S.	High Tide.	Sun's Declin.	Sun on Meridian.
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	D. M.	h. m. s.
1	Tues.	6 3	5 38	8 41	6 2	5 38	5 58	5 41	8 37	10 53	8 28	11 49 37
2	Wed.	4	36	9 42	3	36	59	40	9 38	11 40	3 52	49 18
3	Thur.	5	34	10 47	4	34	6 0	39	10 43	Morn.	4 15	49 0
4	Fri.	7	32	11 55	5	32	2	37	11 51	0 37	4 38	48 41
5	Sat.	8	30	Morn.	6	32	3	35	Morn.	1 50	5 1	48 24
6	F.	6 9	5 27	1 3	6 7	5 29	6 4	5 33	0 59	3 23	5 24	11 48 6
7	Mon.	11	25	2 7	8	27	5	31	2 3	4 48	5 47	47 49
8	Tues.	12	24	3 10	9	26	6	29	3 6	5 48	6 10	47 32
9	Wed.	13	21	4 11	10	24	8	27	4 7	6 34	6 33	47 16
10	Thur.	14	20	5 13	11	22	9	25	5 9	7 10	6 56	47 0
11	Fri.	15	19	Rises.	12	20	11	23	Rises.	7 42	7 18	46 44
12	Sat.	16	17	5 40	14	19	12	21	5 36	8 10	7 41	46 29
13	F.	6 18	5 14	6 8	6 15	5 17	6 13	5 19	6 4	8 38	8 3	11 46 15
14	Mon.	20	12	6 45	16	15	14	17	6 41	9 6	8 26	46 1
15	Tues.	21	9	7 30	17	13	15	15	7 26	9 38	8 48	45 48
16	Wed.	23	7	8 25	19	12	17	13	8 21	10 7	9 10	45 35
17	Thur.	24	5	9 27	20	9	18	11	9 23	10 40	9 32	45 23
18	Fri.	25	4	10 39	21	8	20	9	10 35	11 21	9 54	45 11
19	Sat.	26	2	11 52	22	6	22	8	11 48	ev. 11	10 15	45 1
20	F.	6 28	5 1	Morn.	6 24	5 5	6 23	5 7	Morn.	1 20	10 37	11 44 50
21	Mon.	29	4 59	1 8	25	3	24	5	1 4	2 47	10 58	44 41
22	Tues.	31	57	2 32	27	2	25	4	2 28	4 13	11 19	44 32
23	Wed.	32	55	3 44	28	4 59	26	2	3 40	5 18	11 40	44 24
24	Thur.	33	53	5 3	29	58	28	1	4 09	6 9	12 1	44 16
25	Fri.	35	52	Sets.	30	57	29	4 59	Sets.	6 54	12 22	44 9
26	Sat.	36	50	4 54	31	56	30	58	4 50	7 38	12 42	44 3
27	F.	6 38	4 49	5 36	6 32	4 54	6 31	4 56	5 32	8 22	13 3	11 43 58
28	Mon.	39	47	6 27	33	53	33	55	6 23	9 7	13 23	43 53
29	Tues.	41	46	7 23	35	52	34	53	7 24	9 52	13 43	43 50
30	Wed.	42	46	8 35	38	50	36	52	8 31	10 38	14 2	43 47
31	Thur.	43	45	9 44	40	48	37	51	9 40	11 24	14 22	11 44 43

OCTOBER.—An experienced correspondent of the *New England Farmer* gives his opinion on the subject of salting cows, which we give in a condensed form.

1. Cows, and even calves (which are not given credit for knowing much) do know when they want salt, and how much they want.
2. If salt is always kept where they can get it, they will eat the quantity they require and no more.
3. That salt fed to cows has as much influence on the milk and butter as the food and drink.
4. That salt fed to cows in just the right time will affect the time of churning as much as four degrees of temperature, and if not fed at all, more than fifteen degrees.
5. That salt gives to butter a clearer and brighter appearance. Others may think differently, but this is given as the result of experience.

Tuesday.

1878.]

MEMORANDUM FOR OCTOBER

London.	
h. m.	
o. 1 36 mo.	
o. 3 30 mo.	
o. 1 45 mo.	
o. 5 34 ev.	
Dominion.	
Sun on Meridian.	
h. m. s.	
11 49 37	
49 18	
49 0	
48 41	
48 24	
11 48 6	
47 49	
47 32	
47 15	
47 0	
46 44	
46 29	
11 46 15	
46 1	
45 48	
45 35	
45 22	
45 11	
45 1	
11 44 50	
44 41	
44 33	
44 24	
44 16	
44 9	
44 3	
11 43 58	
43 50	
43 50	
43 47	
11 44 43	

1	fine 60 B 30 00 at 3 24
2	fine 62 B 29 70
3	fine 62 B 29 70 at 3 PM rain
4	fine 60 B 29 50 at 7 PM 54
5	fine 48 B 29 97
6	rain 50 B 29 95
7	fine 48 B 30 12
8	cloudy 56 B 29 95 fine in the afternoon
9	Rain 52 B 29 60 at 7 AM Thunder storm
10	fine strong wind 51 29 65
11	fine 46 a gale all night great damage
12	cloudy 50 fine in the afternoon
13	fine 44 fine all day
14	fine 50 beautiful day
15	cloudy 60 like rain
16	cloudy 58 at 3 PM 70 B 29 80
17	fine 65 B 29 80
18	cloudy 50 B 29 80
19	rain 52 B 29 40
20	rain 42 B 29 60 with a day
21	fine 50 B 30 04 wind last night
22	cloudy fog 47 48
23	rain 46 with a cold
24	fine 46
25	fine 48
26	cloudy 44
27	cloudy 39
28	rain 9 76
29	cloudy 32
30	rain 42
31	cloudy 46

Canton's and Prang's Christmas and New Year Stationery at ROBERT MILLER'S.

It is very sad seldom that so little snow fell in October

Moon's Phases.		Halifax.	Quebec.	Montreal.	Kingston.	Toronto.	London.
First Quarter	D. 1	h. m. 5 36 ev.	h. m. 5 6 ev.	h. m. 4 57 ev.	h. m. 4 45 ev.	h. m. 4 34 ev.	h. m. 4 26 ev.
Full Moon	9	10 19 ev.	9 49 ev.	9 40 ev.	9 28 ev.	9 17 ev.	9 9 ev.
Third Quarter	17	1 44 ev.	1 14 ev.	1 5 ev.	0 53 ev.	0 42 ev.	0 34 ev.
New Moon	24	4 56 mo.	4 26 mo.	4 17 mo.	4 5 mo.	3 54 mo.	3 46 mo.

M.	Week.	Montreal.		The Moon.	Toronto.		Halifax, N.S.				The Dominion.	
		Sun Rises.	Sun Sets.	R. & S.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	The Moon R.&S.	High Tide.	Sun's Declin.	Sun on Meridian.
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	D. M.	h. m. s.
1	Fri.	6 44	4 44	10 53	6 41	4 47	6 33	4 49	10 49	Morn.	14 41	11 43 43
2	Sat.	46	42	11 59	43	45	40	47	11 55	0 19	15 0	43 42
3	F.	6 48	4 40	Morn.	6 44	4 44	6 42	4 46	Morn.	1 25	15 19	11 43 43
4	Mon.	49	39	1 1	45	43	43	44	0 57	2 39	15 39	43 43
5	Tues.	50	37	2 3	47	41	44	43	1 59	4 0	15 55	43 44
6	Wed.	52	36	3 6	48	40	45	42	3 2	5 3	16 13	43 47
7	Thur.	54	34	4 6	49	39	46	41	4 2	5 53	16 31	43 50
8	Fri.	55	32	5 9	50	38	47	39	5 5	6 32	16 48	43 54
9	Sat.	56	31	Rises.	51	36	49	38	Rises.	7 7	17 5	43 59
10	F.	6 57	4 29	4 46	6 53	4 35	6 50	4 37	4 42	7 39	17 22	11 44 5
11	Mon.	58	28	5 27	54	34	51	36	5 23	8 11	17 38	44 11
12	Tues.	7 0	27	6 21	56	33	53	35	6 17	8 43	17 55	44 19
13	Wed	1	26	7 23	56	32	54	34	7 19	9 17	18 11	44 27
14	Thur.	3	25	8 30	58	31	55	33	8 26	9 52	18 26	44 37
15	Fri.	5	24	9 41	7 0	30	57	32	9 37	10 29	18 41	44 47
16	Sat.	6	23	10 54	1	29	58	31	10 50	11 12	18 56	44 58
17	F.	7 7	4 22	Morn.	7 2	4 28	6 59	4 30	Morn.	ev. 3	19 11	11 45 10
18	Mon	8	21	0 7	3	27	7 0	29	0 3	1 5	19 25	45 22
19	Tues.	11	20	1 22	5	27	2	29	1 18	2 14	19 39	45 36
20	Wed.	12	19	2 37	6	26	3	28	2 34	3 30	19 53	45 50
21	Thur.	13	18	3 55	7	26	4	27	3 51	4 37	20 6	46 5
22	Fri.	14	18	5 19	8	25	5	26	5 14	5 36	20 18	46 21
23	Sat.	16	17	6 37	10	24	7	23	6 34	6 27	20 31	46 38
24	F.	7 17	4 16	Sets.	7 11	4 24	7 9	4 25	Sets.	7 18	20 43	11 46 56
25	Mon.	18	15	5 8	12	23	10	24	5 4	8 6	20 55	47 14
26	Tues.	19	15	6 13	13	22	11	24	6 9	8 54	21 6	47 38
27	Wed.	21	15	7 25	15	21	13	24	7 21	9 41	21 17	47 53
28	Thur.	22	14	8 36	16	21	14	23	8 32	10 27	21 27	48 13
29	Fri.	23	13	9 44	17	20	15	23	9 44	11 11	21 37	48 34
30	Sat.	25	13	1 51	18	19	16	22	10 47	11 59	21 47	11 48 56

NOVEMBER.—In addition to the trade in cattle for the foreign market, there has been considerable business done in the sale of horses. Last September Messrs. Potter and Stevenson visited Canada for the purpose of exporting horses to England regularly. In that month they shipped eleven fine carriage horses. It is believed a profitable trade may be established between Canada and Great Britain. Canadian horses are greatly admired and prized. We mention these facts to suggest the utility of paying attention to the raising of first class animals. It will not pay to attempt a business of this kind, unless the greatest care be exercised in the choice of mares and sires. Common sense dictates this much, but for further and practical particulars, it would be well to consult the best authorities.

on Friday.

MEMORANDUM FOR NOVEMBER.

29

to.	London.
v.	h. m.
v.	4 26 ev.
v.	9 9 ev.
v.	0 34 ev.
to.	3 46 mo.

1	11 44 5
2	11 44 11
3	11 43 43
4	11 43 42
5	11 43 43
6	11 43 44
7	11 43 47
8	11 43 50
9	11 43 54
10	11 43 59
11	11 44 5
12	11 44 11
13	11 43 43
14	11 43 42
15	11 43 43
16	11 43 44
17	11 43 47
18	11 43 50
19	11 43 54
20	11 43 59
21	11 44 5
22	11 44 11
23	11 43 43
24	11 43 42
25	11 43 43
26	11 43 44
27	11 43 47
28	11 43 50
29	11 43 54
30	11 43 59

1 fine cold 13 29 70
 2 Cloudy 4 13 29 87
 3 fine 39
 4 cloudy 2 2 snow felt
 5 fine 12 6
 6 fine 2 26 13 29 86 cold
 7 fine 29 13 29 89 Brown last night
 8 fine 3 36 13 29 72
 9 fine 28 0 13 29 60
 10 Cloudy 3 6 13 29 68
 11 Cloudy 3 4 13 29 68 snow
 12 rain 14 0 13 29 40
 13 rain 3 5 13 29 35
 14 Cloudy 2 2 13 30 50
 15 fine 3 6 13 30 44
 16 fine 3 0 13 30 41
 17 fine 2 8 13 30 30
 18 rain 2 36 13 30 60
 19 rain 3 8 13 29 90
 20 Cloudy 4 35 13 29 56
 21 Cloudy 4 9 13 29 80
 22 Cloudy 3 8 13 29 45
 23 rain 3 30 13 28 90. great rain
 24 Cloudy 3 8 13 29 82
 25 Cloudy 3 30 13 29 86.
 26 fine 2 4 13 30 10
 27 Cloudy 2 8 13 30 10
 28 rain 3 8 13 29 28
 29 Cloudy 3 2 13 29 84
 30 Cloudy 3 2 13 29 11

I never know to let the snow fall
 by how long this month this

ROBERT MILLER, Keeps a full assortment of Goodall & Son's Fancy Stationery.

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 horses. It
 Great Br.
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 animals. It
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 ach, but fo
 authorities.

Moon's Phases.		Halifax.	Quebec.	Montreal.	Kingston.	Toronto.	London.
First Quarter.....	D. 1	h. m. 0 23 ev.	h. m. 11 53 ev.	h. m. 11 44 ev.	h. m. 11 32 ev.	h. m. 11 21 ev.	h. m. 11 13 ev.
Full Moon.....	9	3 35 ev.	3 5 ev.	2 56 ev.	2 44 ev.	2 33 ev.	2 25 ev.
Third Quarter..	16	10 49 ev.	10 19 ev.	10 10 ev.	9 58 ev.	9 47 ev.	9 39 ev.
New Moon.....	23	5 10 ev.	4 40 ev.	4 31 ev.	4 19 ev.	4 8 ev.	4 0 ev.
First Quarter.....	31	9 43 mo.	9 13 mo.	9 4 mo.	8 52 mo.	8 41 mo.	8 33 mo.

M.	Week.	Montreal.		The Moon.	Toronto.		Halifax, N.S.				The Dominion.	
		Sun Rises.	Sun Sets.	R. & S.	Sun Rises.	Sun Sets.	Sun Rises.	Sun Sets.	The Moon R & S.	High Tide.	Sun's Declin.	Sun on Meridian.
1	F.	7 26	4 12	h. m. 11 53	h. m. 7 19	h. m. 4 19	h. m. 7 17	h. m. 2 21	h. m. 11 49	Morn.	D. M. 21 56	h. m. 11 49
2	Mon.	26	12	Morn.	21	19	18	21	Morn.	0 50	22 5	49 44
3	Tues.	28	12	0 55	21	19	19	20	0 51	1 44	22 13	50 5
4	Wed.	29	11	1 59	22	18	20	20	1 55	2 47	22 21	50 20
5	Thur.	30	11	2 58	24	18	21	20	2 54	3 55	22 29	50 54
6	Fri.	31	11	4 1	25	17	22	20	3 57	4 54	22 36	51 20
7	Sat.	32	11	5 6	26	17	24	20	5 2	5 46	22 42	51 46
8	F.	7 32	4 11	6 11	7 27	4 17	7 25	4 20	6 7	6 30	22 48	11 52 11
9	Mon.	35	11	Rises.	28	18	26	19	Rises.	7 11	22 54	52 30
10	Tues.	35	11	5 19	28	18	27	19	5 15	7 50	22 59	53 6
11	Wed.	36	11	6 20	29	18	27	19	6 16	8 27	23 4	53 33
12	Thur.	37	11	7 32	29	18	28	19	7 28	9 5	23 9	54 1
13	Fri.	38	11	8 46	31	18	29	20	8 42	9 44	23 12	54 31
14	Sat.	39	11	9 58	32	18	30	20	9 54	10 25	23 16	54 59
15	F.	7 40	4 12	11 6	7 32	4 18	7 31	4 21	11 2	11 6	23 19	11 55 28
16	Mon.	41	12	Morn.	33	19	31	21	Morn.	11 55	23 21	55 57
17	Tues.	42	12	0 25	34	19	31	21	0 21	ev. 45	23 23	56 26
18	Wed.	42	12	1 39	34	20	32	21	1 35	1 42	23 25	56 56
19	Thur.	43	13	2 58	34	20	32	22	2 54	2 46	23 26	57 26
20	Fri.	43	13	4 14	36	20	33	22	4 10	3 56	23 27	57 56
21	Sat.	44	14	5 34	36	20	34	23	5 30	5 6	23 27	58 26
22	F.	7 45	4 15	6 44	7 37	4 21	7 34	4 23	6 40	6 11	23 26	11 58 56
23	Mon.	45	16	Sets.	37	21	35	24	Sets.	7 8	23 26	59 26
24	Tues.	45	16	5 1	38	22	35	24	4 57	8 1	23 24	59 56
25	Wed.	45	16	6 13	38	23	36	25	6 9	8 47	23 23	12 0 36
26	Thur.	46	17	7 24	38	24	37	26	7 20	9 32	23 20	0 56
27	Fri.	46	18	8 34	38	24	37	27	8 28	10 14	23 18	1 26
28	Sat.	46	18	9 38	38	25	37	27	9 34	10 53	23 15	1 55
29	F.	7 47	4 18	10 42	7 39	4 26	7 37	4 28	10 38	11 31	23 11	12 2 34
30	Mon.	47	19	11 43	39	26	37	29	11 39	Morn.	23 7	2 51
31	Tues.	48	20	Morn.	39	27	37	30	Morn.	0 11	23 2	11 3 22

DECEMBER.—Now for a bit of old fashioned advice about the proper method of spending long winter evenings. We are aware there are plenty means of spending time, but we recommend the purchase of a few well chosen suitable books for the cultivation of the mind. Of course, preparations for any special vocation is a primary consideration, but there is a tendency to seek only amusement. That is all very well in its place, but experience has taught many people, once young, that if they had spent considerably more time in solid reading and earnest study of nature and science, it would have been greatly to their advantage. The days of opportunity neglected can never be recalled. Be wise to-day, and the to-morrows granted will be all the happier and better.

Sunday.

London.	
h. m.	
r.	11 13 ev.
r.	2 25 ev.
r.	9 39 ev.
r.	4 0 ev.
o.	8 33 mo.

Dominion.

Sun on Meridian.	
h. m. s.	
1.	11 49 19
6	49 43
5	50 5
3	50 20
1	50 54
19	51 20
16	51 46
2	51 46
.....	
8	11 52 13
4	52 39
9	53 6
4	53 33
9	54 1
2	54 31
6	54 59
.....	
9	11 55 28
1	55 57
3	56 26
5	56 56
6	57 26
7	57 56
7	58 26
.....	
6	11 58 56
6	59 26
4	59 56
3	0 26
0	0 56
8	1 26
5	1 56
.....	
1	12 2 24
7	2 54
2	11 3 22

per method
 is of spend-
 able books
 al vocation
 ent. That
 nce young
 nest study
 The days
 he to mor-

- 1 cloudy 26 17 30. 49
- 2 rain 32⁵ 13 29, 75 - rain last night
- 3 rain 38 13 24 32
- 4 cloudy 32⁹ 13 29 50 a little snow
- 5 cloudy 25 17 29 62
- 6 cloudy 18 17 29 62
- 7 cloudy 20 13 29 40
- 8 fine 18⁹ 13 30 27
- 9 cloudy 19¹¹ 13 30 00
- 10 rainy 33 13 28 90 great flood
- 11 cloudy 0 44 13 29. 15 - wind
- 12 fine 19¹¹ 13 29 98 a great flood
- 13 cloudy 0 17 13 30 16
- 14 cloudy 20 0 13 30 16
- 15 fine 21 16 13 29 80
- 16 cloudy 12 0 13 29 80
- 17 cloudy 0 16 at moon 26
- 18 fine 16 9 13 24 95
- 19 fine 6 13 24 30
- 20 cloudy 12 13 30 18
- 21 cloudy 21 17 36 - snowing
- 22 cloudy 0 24 13 29 89 snow
- 23 fine 12 13 29 50
- 24 cloudy 23 at moon
- 25 fine 19 13 29 87 not well to day
- 26 cloudy 28 13 29 40 windy
- 27 cloudy 18 13 29 50
- 28 cloudy 14 13 29 40
- 29 cloudy 0 at 13 30 00
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MILLER'S Carpenter's and Mavor's Spelling Books.

The Royal Family.

THE QUEEN.

VICTORIA, of the United Kingdom of Great Britain and Ireland, &c., Queen, Defender of the Faith. Her Majesty was born at Kensington Palace May 24, 1819; succeeded to the throne June 20, 1837, on the death of her uncle, King William IV.; was crowned June 28, 1838; and married February 10, 1840, to his late Royal Highness Prince Albert. Her Majesty is the only child of his late Royal Highness Edward Duke of Kent, son of King George III. The children of Her Majesty are:—

Her Royal Highness VICTORIA-Adelaide-Mary-Louisa, PRINCESS ROYAL OF ENGLAND AND PRUSSIA, born November 21, 1840, and married to his Royal Highness Frederick William Crown Prince of Germany, January 25, 1858, and has issue five sons and four daughters.

His Royal Highness ALBERT-EDWARD, PRINCE OF WALES, born November 9, 1841; married March 10, 1863, Alexandra of Denmark (Princess of Wales), born December 1, 1844, and has issue three sons and three daughters.

Her Royal Highness Alice-Maud-Mary, born April 25, 1843, married to H. R. H. Prince Frederick Louis of Hesse, July 1, 1862, and has issue two sons and five daughters.

His Royal Highness Alfred-Ernest-Albert, Duke of Edinburgh, born August 6, 1844, married to the Grand Duchess Marie-Alexandrowna, and has issue one son and one daughter.

Her Royal Highness Helena-Augusta-Victoria, born May 25, 1846, married July 5, 1866, Prince Frederick Christian of Schleswig Holstein, and has issue three sons and two daughters.

Her Royal Highness Louisa-Caroline-Alberta, born March 18, 1848, married March 23, 1871, to the Marquis of Lorne.

His Royal Highness Arthur-William-Patrick-Albert, K. G., born May 1, 1850.

His Royal Highness Leopold-George-Duncan-Albert, born April 7, 1853.

Her Royal Highness Beatrice-Mary-Victoria-Feodore, born April 14, 1857.

NEW FACTS ABOUT BUTTER.—We gather the following interesting facts from the *Agricultural Gazette*:—A report has been made to the Board of Inland Revenue by the Principal of the Chemical Laboratory, Somerset House, on experiments conducted by him for the analysis of butter; 117 samples were tested, the result being that while a few samples were found to be very poor in quality, and a few others exceptionally rich, the great bulk examined were found to possess considerable uniformity of composition, the principal variations being apparently due to a difference in the method of manufacture, the different seasons of the year when made, and the various modes of feeding. As might be expected, some of the poorest butters were produced by and obtained from small farmers in Ireland, at a time when there was very little grass, and food was scarce. It was also noticed that the butter was relatively poorer in its essential constituents when the food was chiefly cotton and oil cake, than was the case when roots and grass formed the staple food. A noticeable feature in the results recorded is the great variation in the quantity of water in the different butters, the lowest being 4.15 per cent, and the highest 20.75 per cent. The Devon and Dorset butters, which usually stand so high in the market, were found to contain in nearly all cases a high percentage of water, and one which was procured from the dairy of a private gentleman contained as much as 16.99 per cent, and a second sample, recently obtained from the same source, contained 15.70 per cent. Another point of interest was in some measure elucidated, and which has reference to the deterioration which certain butters undergo when kept in small quantities in glass or earthenware vessels. It was found that whilst some of the finest and best prepared butters undergo little or no change, there is in others a gradual disappearance of the characteristic principles of butter, and a consequent assimilation to the constitution of an ordinary animal fat. This change, which appears to be due to an incipient fermentation, and is generally accompanied by the development of fungi, is probably caused either by the use of sour cream or by insufficient care in making butter.

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DOMINION OF CANADA.

Seat of Government, Ottawa.

GOVERNOR-GENERAL.

His Excellency the Right Honorable Earl of Dufferin and Clandeboye, Governor-General of the Dominion of Canada.

Governor's military secretary, Lieut.-Col. Hon. Edward George Percy Littleton, of the Grenadier Guards; Lieut. F. R. Hamilton, 9th Foot, and Lieut. F. Ward, R.N., aides-de-camp; Lieut.-Col. Bernard and Lieut. Col. Cumberland, extra aides-de-camp; F. Baker, private secretary.

Deputy Governors to sign Money Warrants.—Wm. A. Himsworth and E. A. Meredith, LL.D.

LIEUTENANT GOVERNORS.

Their Honors the hon. D. A. McDonald, Ontario; hon. Luc Letelier de St. Just, Quebec; hon. Adam G. Archibald, Nova Scotia; hon. S. L. Tiley, C.B., New Brunswick; hon. Sir Robert Hodgson, Knight, Prince Edward Island; hon. Joseph Cauchon Manitoba; hon. David Laird, North West Territories; hon. A. N. Richard British Columbia.

COMMANDING HER MAJESTY'S FORCES IN BRITISH NORTH AMERICA.

Lieut. General O'Grady Haly, K.C.B.

PRIVY COUNCIL.

Premier and Minister Public Works, hon. Alexander McKenzie; Minister of Justice and Attorney General, hon. Edw. Blake; Minister of Militia and Defence, hon. W. B. Vail; Minister of Customs, hon. Isaac Burpee; Minister of Finance, hon. Richard J. Cartwright; Minister of Inland Revenue, hon. R. Laflame; President of the Privy Council, hon. ———; Minister of Marine and Fisheries, hon. A. J. Smith; Postmaster General, hon. L. S. Huntington; Minister of Agriculture, hon. C. A. P. Palton; Secretary of State for Canada, hon. R. W. Scott; Minister of the Interior, hon. D. Mills; Receiver General, hon. Thomas Coffin. *Officers*—Clerk of the Privy Council, Wm. A. Himsworth; assistant, J. O. Coté. *Clerks*.—F. H. Himsworth, H. Alexander, Wm. Horace Lee, Lewis J. Burpee, and Frank Newby; M. Naughton, doorkeeper and messenger; Benoni Grenier, W. Groom and Wm. Reynolds, messengers. *Commissioner per Dedimus potestatem.*—Wm. A. Himsworth.

HORSE-POX.—This is probably identical with cow pox, being indistinguishable when inoculated on men or cattle. It most frequently attacks the limbs, but may affect the face or other parts of the body. There is usually some little fever, which, however, passes unnoticed by the owner. Then swelling, heat and tenderness supervene commonly in a heel, and firm nodules form, increasing to one-third or one-half an inch in diameter, the hair bristles up, and the skin reddens unless previously colored. On the ninth to the twelfth day, a limpid fluid oozes from the surface and agglutinates the hairs in yellowish scabs, on the removal of which a red, raw depression is seen with the scab fixed in its centre. In three or four days the secretion ceases, the scabs dry up and the parts heal spontaneously. It is easily transmitted from horse to horse, to man or to the cow. No treatment is required.—*Farmer's Veterinary Adviser.*

Courtesy is a science of the highest importance. It is like grace and beauty in the body, which charm at first sight and lead to further intimacy and friendship, opening a door that we may derive instruction from the example of others, and at the same time enabling us to benefit them by our example, if there be anything in our character worthy of imitation.

RATES OF POSTAGE.

Postage on all matter transmissible by Post—within Canada—to Prince Edward Island, Newfoundland, Great Britain, &c., &c.

LETTER RATES.

Between places within the Dominion.....	3cts per ½ oz
Between Canada and the United States.....	3cts. per ½ oz
Between Canada and Newfoundland.....	5cts. per ½ oz
Between Canada and the United Kingdom.....	5cts. per ½ oz

Pre-payment must, in all cases, be made by Postage Stamp.

REGISTRATION FEES.

Within the Dominion.....	2cts. each letter.
To the United States.....	5cts. do do
To Newfoundland.....	2cts. do do
To the United Kingdom.....	8cts. do do

These Registration Fees are, of course, in addition to the Postage.

NEWSPAPER RATES.

Between places in the Dominion, to the United States, to Newfoundland, publishers pre-pay their edition in bulk, at the rate of one cent for each pound weight; no further charge on delivery. Transient newspapers within the Dominion, to the United States, Newfoundland, 1c. per 4 oz., to the United Kingdom, 2c. per oz., to be pre-paid by stamp.

ON CANADIAN PERIODICALS.

From office of publication, or from news agencies, for places in the Dominion, to the United States or to Newfoundland, the postage rate is the same as for Newspaper, *i.e.*, 1c. per 4 oz., paid. Transient Periodicals, 1c. per 4 oz.

PERIODICALS AND BOOKS FOR UNITED KINGDOM

Are subject to the British Book Rates, namely :—

Between 1 oz. and 2 oz.....	2c.
do 2 " " 4 "	4c.
do 4 " " 8 "	6c.

And so on, the scale progressing by a rate of 2c. for every 2 oz.

LOCAL OR "DROP" LETTERS AND POSTAL CARDS.

1c. per ½ oz., to be pre-paid.

Canadian Postal Cards of 1c. each circulate within the Dominion, Newfoundland and United States.

MISCELLANEOUS POSTAL MATTER.

On Books, Pamphlets, Occasional Publications, Printed Circulars, Price-Currents, Hand Bills, Book and Newspaper Manuscript, Printers' Proof Sheets, Maps, Prints, Drawings, Engravings, Lithographs, Photographs, Sheet Music, Documents, wholly or partly printed or written, such as Deeds, Insurance Policies, Militia and School Returns, or other documents of like nature, Packages of Seeds, Cuttings, Bulbs, &c., Patterns or Samples of Goods or Merchandize, when posted in Canada, for any place in Canada, the rate is 1c. per 4 oz. in weight, to be pre-paid by stamp.

Miscellaneous matter as above specified for the United States or Newfoundland may also be forwarded on pre-payment of the 1c. per 4 oz. rate, with the exception of packets of samples and patterns of merchandize addressed to the United States on which a special rate of 10c. has to be prepaid, which must not exceed 8 oz.

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POSTAGE RATES ON LETTERS AND PAPERS TO PRINCIPAL COLONIES AND FOREIGN COUNTRIES, PREPAYMENT COMPULSORY,

COUNTRY.	Per ½ oz.	Newspapers.	ROUTE.
	cents.	cents.	
Australia.....	8	4	Via San Francisco
do	16	4	“ England.
Argentine Confederation.....	28	6	“ New York.
Austria.....	10	4	“ England.
Bahamas.....	6	4	“ New York.
Belgium	10	4	“ England.
Bermuda.....	6	4	“ New York.
Brazil.....	16	..	“ “
Cape of Good Hope.....	28	4	“ England.
Ceylon.....	22	4	“ “
Chili.....	20	6	“ New York.
Cuba.....	8	4	“ England.
Denmark.....	10	4	“ “
Egypt.....	10	6	“ “
France.....	10 pr ¼ oz	per 2 oz	“ “
do	12 pr ½ oz	4	New York
Germany.....	5	4	England
Gibraltar.....	10	4	“ “
Holland.....	10	4	“ “
Hong Kong.....	13	4	“ San Francisco
India.....	16	4	“ England.
Italy.....	10	4	“ “
Japan.....	8	6	“ San Francisco
Malta.....	10	4	“ England.
Mexico.....	13	..	“ New York.
New Zealand.....	15	4	“ San Francisco
Norway.....	10	4	“ England.
Russia.....	10	4	“ “
Spain.....	10	6	“ “
Sweden.....	10	4	“ “
Switzerland.....	10	4	“ “
West Indies.....	28	..	“ “
West Indies.....	16	16	“ New York.

Table shewing Postage, including Registration Fee, to be collected on REGISTERED LETTERS, from Canada to

France.....	28c. per ½ oz.
Germany.....	8c. “ ½ oz.
India.....	42c. “ ½ oz.

KEEPING POULTRY IN LARGE NUMBERS.—Keeping poultry, as a business to support a family, has often been tried in the United States and England, but with very poor success. The difficulty seems to be that the fowls, when kept in large numbers, are much more subject to diseases, and to become infected with vermin. That is the experience of all persons who have kept fowls extensively. Besides these difficulties a large number of fowls cannot be made to extend their foraging over a sufficiently extended surface of land, 20 to 30 rods from their house being about as far as they can be made to roam; and 1,000 or more would soon exhaust their locality of all bugs and worms upon it, eat every spear of grass, and begin to sicken and fall off in laying egg. If fowls could be kept in lots of about 100 each, 40 rods apart, there might be enough kept on a farm to support the owner, as the profit would average about one dollar per fowl.

MONEY ORDERS.

Every money order office in the Provinces of Quebec, Ontario, New Brunswick, Nova Scotia, Prince Edward Island, Manitoba and British Columbia issues money orders on every other money order office in these Provinces, as well as on every money order office in the United Kingdom. Every money order office in the United Kingdom also issues money orders on every money order office in these Provinces.

All the money order Post Offices are authorized to draw money orders on each other for any sum up to \$100, and for as many orders of \$100 each as the applicant may require, upon the following terms, viz.,

On Orders up to \$4.....	2 cents
“ “ \$10.....	5 “
“ over \$10 and up to \$20	10 “
“ over \$20 “ \$40.....	20 “
“ over \$40 “ \$60.....	30 “
“ over \$60 “ \$80.....	40 “
“ over \$80 “ \$100.....	50 “

MONEY ORDERS ON THE UNITED KINGDOM.

The money order offices throughout the Dominion also draw upon all the money order offices in England, Ireland and Scotland, and the Channel Islands, for any sum up to £10 sterling, and grant as many orders for £10 sterling each as may be needed to make up the amount to be remitted.

The terms are as under :

On Orders up to £2.....	25 cents.
“ over £2 and up to £5.....	50 “
“ over £5 “ £7.....	75 “
“ over £7 “ £10.....	\$1.00

MONEY ORDERS ON THE LOWER PROVINCES.

The money order offices in Canada draw also upon all money order offices in Newfoundland. Orders like those of the United Kingdom are made payable in sterling money, and for sums up to £10 sterling. The terms are :

For Orders up to £5, 25 cents.
 “ over £5 and up to £10, 50 cents.

No half cents can be introduced into orders.

ORDERS ON BRITISH INDIA.—On Orders up to £2, 30 cts. ; over £2, and up to £5, 60 cts. ; over £5, and up to £7, 90 cts. ; over £7, and up to £10, \$1.20.

ORDERS ON UNITED STATES.—On Orders up to \$20, 25 cts. ; on Orders up to \$40, 50 cts.

No money order exceeding \$100 in amount can be granted in any office in Canada ; but Postmasters are at liberty to grant two or more orders for \$100, or for any lesser sum. They cannot, however, grant two or more orders for sums of or under \$30 on the same day to the same applicant in favor of the same payee.

Cows COMING FRESH—Some dairymen insist that the cow, soon after calving, should be allowed to go to the trough and take all the cold water that the appetite craves. We do not approve of this course, preferring to give her a pail of tepid water in which a little bran is mingled, making a thin gruel. Our practice has been to give freely tepid water, or sufficient to satisfy thirst, and not allow cold water from the trough until the third day, and not then if the cow seems to be weak or ailing. It is important that the milk from the udder be completely drawn soon after the cow has calved, and if the bag is swollen or inflamed, it will require attention in this respect, frequently three or four times during the day. So soon as the feverish condition of the cow incident to calving shall have subsided, generous feed should be given, bran mashes at first, which may be increased gradually with additions of oaten meal and rations of roots of which mangolds and carrots are best, as they give no unpleasant flavor to the milk.

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POST OFFICE SAVINGS BANK.

1. The direct security of the Dominion is given by the Statute for all deposits made in the Post Office Savings Banks.

2. Any person may have a deposit account, and may deposit nearly any number of dollars, from \$1 up to \$300, or more, with the permission of the Postmaster General.

3. Deposits may be made by married women, and deposits so made, or made by women who shall afterwards marry, will be repaid to any such women.

4. As respects children under ten years of age, money may be deposited—

FIRSTLY—By a parent or friend as Trustee for the child, in which case the deposits can be withdrawn by the Trustee until the child shall attain the age of ten years, after which time repayment will be made only on the joint receipts of both Trustee and child.

SECONDLY—In the child's own name—and, if so deposited, repayment will not be made until the child shall attain the age of ten years.

5. A depositor in any of the Savings Bank Post Offices may continue his deposits at any other of such offices without notice or change of Pass Book, and can withdraw money at that Savings Bank Office which is most convenient to him. For instance, if he makes his first deposit at the Savings Bank at Cobourg, he may make further deposits at, or withdraw his money through, the Post Office bank at Collingwood or Quebec, Sarnia, Brockville, or any place which may be convenient to him, whether he continue to reside at Cobourg or remove to some other place.

6. Each depositor is supplied with a Pass Book, which is to be produced to the Postmaster every time the depositor pays in or withdraws money, and the sums paid in or withdrawn are entered therein by the Postmaster receiving or paying the same.

HAY TEA FOR CALVES.—The practice common in most of our dairy districts, of killing calves when only a few hours old, in order to save the milk which they would require in rearing, is, in our opinion, carried to a far greater extent than is either necessary or profitable. It certainly seems to be a needless species of cruelty to both mother and offspring, and while we have no disposition to interfere with the personal rights of dairymen, or force our opinions upon their notice, we are inclined to think there are better ways of disposing of surplus calves than "deaconing." The truth is we have none too many cows, or beef cattle, and it is a shame to destroy tens of thousands of calves annually which bring nothing to the owner except the few shillings received for the skin. It is certainly possible to raise these calves without giving them fresh new milk. With a little skimmed milk and hay tea they will thrive almost if not quite as well as upon the pure lacteal fluid. Fifty years ago Sir James Stewart Denham, of Scotland, instituted experiments in rearing calves with hay tea taken from their mothers when three days old, and those experiments were eminently successful. Two pounds of hay were steeped in twenty quarts of water, and then boiled down one-half, and to this was added a quart of skimmed milk. In some instances molasses was added also to give sweetness, and the calves not only thrived on this diet but preferred it to fresh milk. When calves are taken from their dams immediately, care should be taken to feed them, at first, with their mother's milk, which at the time is peculiarly adapted to act as a gentle purgative which rids the bowels of the calf of the meconium with which they are charged at birth.

Memory is strengthened by exercise, and life by remembrances.

Game of all kinds, birds, rabbit, or deer, can be kept sweet a long time by putting finely pulverized charcoal in a thin muslin bag and placing it inside the game. Change the charcoal every day. It is excellent to keep any meat, fish or fowl pure and sweet. Wash clean before cooking.

"I rise for information," said a member of a legislative body. "I am glad, very glad to hear it," said a bystander, "for no man wants it more."

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7. Each depositor's account is kept in the Postmaster General's Office, in Ottawa, and in addition to the Postmaster's receipt in the Pass Book, a *direct acknowledgment from the Postmaster General for each sum paid in* is sent to the depositor. If this acknowledgment does not reach the depositor within ten days from the date of his deposit, *he must apply immediately to the Postmaster General, by letter, being careful to give his address and, if necessary, renew his application until he receives a satisfactory reply.*

8. When a depositor wishes to withdraw money, he can do so by applying to the Postmaster General, who will send him by return mail a cheque for the amount, payable at whatever Savings Bank Post Office the depositor may have named in his application.

9. Interest at the rate of 4 per cent. per annum is allowed on deposits, and the interest is added to the principal on the 30th June in each year.

10. Postmasters are forbidden by law to disclose the name of any depositor, or the amount of any sum deposited or withdrawn.

11. No charge is made to depositors on paying in or drawing out money, nor for Pass Books, nor for postage on communications with the Postmaster General in relation to their deposits.

12. The Postmaster General is always ready to receive and attend to all applications, complaints, or other communications addressed to him by depositors or others, relative to Post Office Savings Bank business.

13. A full statement of the Regulations of the Post Office Savings Bank may be seen at the nearest Post Office.

THE STAMP ACTS.

These Acts impose a duty on every promissory note, draft, or bill of exchange, not exceeding \$25, 1 cent; not exceeding \$50, 2 cents; less than \$100, 3 cents; *not less than \$100, if executed singly, 3 cents per \$100, or fraction thereof; if executed in duplicate, 2 cents per \$100, or fraction thereof on each part; if executed in more than two parts, 1 cent per \$100 or fraction thereof on each part.*

Any interest payable with note at maturity must be counted as part thereof. The duty is to be paid by *bill stamp* on which the date is to be written. Bank notes, checks, and money orders are exempt. These Acts impose heavy penalties for violation.

FACTS WORTH KNOWING.

Much of the trouble experienced in postal matters arises from carelessness, and a few general hints may be found of value:—

See that every letter, newspaper, or packet is securely folded and sealed, for every such packet has to be several times handled, and in the mail-bag is exposed to compression and friction.

Carefully secure every letter containing money or valuables, first with gum or mucilage and then with wax, and be sure to leave a good impression of a seal.

Never seal with wax letters for East and West Indies, and other hot climates, as the wax melts and letters adhere to one another. The practice gives rise to serious inconvenience and injury.

When letters are delayed or missing, communicate immediately with the Inspector or of the Division in which the Post Office is situated. In the case of a missing letter state the exact contents, address, the office at which the letter was posted, the name of the person by whom posted and the name of the person by whom received at the office. In case of a delayed letter or paper, send the envelope or cover in an entire state to the Inspector, so that the place of delay may be ascertained by an examination of the post marks.

In the event of a supposed abstraction of money or valuables from a letter, seal the letter and cover to the Inspector for the Division in which is situated the office at which the letter was delivered, stating day and hour on which delivered, name of Postmaster or Clerk by whom delivered, and persons by whom received.

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COURTS.

PROVINCE OF QUEBEC.

COURT OF QUEEN'S BENCH.—17th to 27th of every month, except January, July and August.

COURT IN APPEAL AND ERROR.—Montreal, 11th to 22nd March, June, September and December; Quebec, 1st to 8th March, June, September and December.

CROWN SIDE.—Quebec, 27th April and 27th October; Montreal, 24th March and 24th September; Three Rivers, 23rd March and 23rd September; Sherbrooke, 6th March and 1st October; Kamouraska, 23rd March and 18th December; Aylmer, 21st January and first July; Percé, 13th March and 13th August; New Carlisle, 13th January and 13th September; Arthabaskville, 19th February and 19th October; Beauce, 20th June and 20th October; Montmagny, 25th March and 25th November.

TERMS.

MONTREAL.—Hochelaga, Jacques Cartier, Laval, Vaudreuil, Soulanges, Laprairie, Chambly, Vercheres and City of Montreal. Held at Montreal 1st May to 30th June, 1st September till 20th December.

QUEBEC.—Portneuf, Quebec, Montmorenci, Levis, Lotbinière and City of Quebec. Held at Quebec, from 1st to 5th of every month, except January, July, and August.

OTTAWA.—Ottawa and Pontiac. Held at Aylmer, from 13th to 19th February, June and November.

THREE RIVERS.—Maskinongé, St. Maurice, (including City of Three Rivers, Champlain and Nicolet. Held at Three Rivers from 17th March to 22nd of June, September and December.

IMPROVING PASTURES.—In the dairying districts more improved land is devoted to pasturage than to all other purposes, and more income is derived from it annually. Yet there is comparatively little done to improve this branch of husbandry. It is noticeable in passing through the country that pastures as a general rule are growing less productive, and the quality of feed poorer, by reason of foul weeds that are increasing in the soil. Thistles, milkweed, daisies and many other unwholesome weeds, occupy the soil instead of nutritious grasses. To eradicate them and get a clean sward of grass that will pay for fertilizing, keep them from seeding for a season, so their seed will be ploughed under, then cultivate and kill the root and re-seed with a variety of grasses adapted to the soil. Mow the first crop of grass, to give the roots a good spread in the soil before tramping it by cattle, and keep cattle off in the spring til the grass gets sufficient growth to strengtben and protect its root. It will then yield more feed during the season following than if kept closely grazed in early spring. If cattle are turned into large pastures before there is food enough to get their fill, they rove about and cripple the young grass by their travel, and acquire thereby a restless habit of roving which lessens their thrift. Where the sward is not much engrossed with foul weeds, many may be destroyed as follows:—Daisies, Johnswort, and others that are not top rooted, are killed at once by pulling off the top and throwing a handful of salt upon the root bed. The milkweed (so called) is easily kept down by whipping and splitting the leaves late in August; then the thick sap will flow so copiously from the wounded stalk so as to kill the root. No time of the farmer is better employed than in plucking all foul weeds before they go to seed; for if thoroughly done in due time it will enable him to keep master of his soil. No practice will more fully verify the old saying, that one stitch in time saves nine. Dairy farmers especially should war against any plant growth that would injure the quality of milk for butter and cheese, or lessen the growth of others that are more desirable. The quality of milk is varied by the kind of forage eaten. It therefore behoves the milk producer to keep a clean grass sward for grazing with cows.

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CIRCUIT COURTS.

JURISDICTION FOR SUMS NOT EXCEEDING \$200.

MONTREAL DISTRICT.—Montreal Circuit, Montreal, 10th to 15th of every month except January, July and August.

QUEBEC DISTRICT.—Quebec Circuit Court, 16th to 21st January and June and 20th to 25th of every month, except July and August.

THREE RIVERS DISTRICT.—Three Rivers Circuit, Three Rivers, 22nd to 27th March, June, September and December.

OTTAWA DISTRICT.—Ottawa Circuit, Aylmer, 7th to 12th February, June and November.

Ottawa County, (2nd), Papineauville, 7th to 10th January, May and September.

Ottawa County Circuit. Held at Buckingham, 19th and 20th January, May and September.

PROVINCE OF ONTARIO.

COURT OF ERROR AND APPEAL.—Constituted for the hearing of appeals in civil cases from the Courts of Queen's Bench, Chancery and Common Pleas and appeals in Criminal cases from the Courts of Queen's Bench and Common Pleas. From the judgment of this Court, an appeal lies to the Supreme Court of Canada, in cases over \$4,000, or where annual rent, fee, or future pleas and appeals in criminal cases from the Courts of Queen's Bench and rights of any amount are effected.

COURT OF QUEEN'S BENCH.—The jurisdiction of this Court extends to all manner of actions, causes and suits, criminal and civil, real, personal and mixed, within Ontario, and it may proceed in such, by such process and course as are provided by law.

COURT OF COMMON PLEAS.—This Court has the same powers and jurisdiction, as a Court of Record, as the Court of Queen's Bench. Writs of summons and capias issue alternately from either Court.

SALT FOR SPRING CROPS.—Many farmers in some towns of this country are using salt on oats and barley this spring. The refuse salt can be bought at about \$2.50 per ton in bulk, and costs little more than gypsum. Salt has been used considerably on winter wheat, and with good results, but is believed to be even better on spring grain. The advantage is greatest in dry seasons, and when sown with wheat, winter snows and rains always intervene before the grain heads. It is found that salt makes the straw of all grain brighter, and the berry plumper. It is claimed especially for its use on barley that it makes the grain fill more slowly in hot and dry weather. At a meeting of the Western New York Farmers' Club, May 2nd, S. Reed and D. E. Rogers said that salt had proven fully as beneficial to all crops, except clover, as gypsum. Now that salt can be procured so cheaply, they, with their neighbors, are sending for it by the boat-load. Much of this refuse salt consists of the scrapings of salt kettles, and I believe contains generally a considerable portion of sulphate of lime.

Some interesting facts were brought out about plaster, or gypsum. It is not usually of much benefit on oats, barley or wheat, excepting where the land has recently been clovered. It thus seems that the affinity of plaster for clover extends to subsequent crops. Fields which have been in clover are usually warm and dry. The soil is also filled with decaying clover roots, which must be giving off ammonia. If one use of gypsum be to fix ammonia and make it available as plant food, its good effects on clover sod may be easily explained. Salt also, like gypsum, appears to be often of more benefit to crops than we could infer from its constituent elements. Undoubtedly salt dissolves certain kinds of plant food, and makes it more available than it could be otherwise. We know, however, that its benefits extend to the second year, as it does nearly as much good to the grass as to the preceding grain crop.

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COURT OF CHANCERY.—This Court has the like jurisdiction as the Court of Chancery in England, in case of fraud, accident, trust, executors, administrators, co-partnerships, account, mortgages, awards, dower, infants, idiots, lunatics and their estates, waste, specific performance, discovery, and to prevent multiplicity of suits, staying proceedings at law prosecuted against equity and good conscience, and may decree the issue, repeal or avoidance of letters patent, and generally the like powers which the Court of Chancery in England possesses.

COUNTY COURTS.—Presided over by a resident Judge in each County. Their jurisdiction extends to all personal actions where the debt or damages claimed do not exceed \$200; and to all suits relating to debt, covenant or contract where the amount is ascertained by the acts of the parties or signature of the defendant, to \$400; and to all bail bonds and recognizances of bail given in the County Court, to any amount; but not to cases involving the title to lands, validity of wills, or actions for libel, slander, crim. con. or seduction.

SURROGATE COURTS.—The jurisdiction of these courts relates to all testamentary matters and causes, and to the granting or revoking of probate of wills and letters of administration of the effects of deceased persons having estate or effects in Ontario, and all matters arising out of or connected with the grant or revocation of probate or administration, subject to an appeal to the Court of Chancery.

COURTS OF GENERAL SESSIONS.—The County Judge in each county holds a Court of General Session in his county semi-annually on the second Tuesday in June and December, except in the County of York, in which county said Court is held three times, commencing on the second Tuesday in March, June and December, for the trial of cases of felony and misdemeanor, but treason and capital felonies are exempt from their jurisdiction.

Terms of the Courts.

COURT OF ERROR AND APPEAL.—This Court holds its sittings twice a year at Toronto in the months of January and June, upon such days as it may by rule or order from time to time appoint.

LAW TERMS.—Hilary begins first Monday in February, and ends Saturday of the ensuing week; Easter begins third Monday in May, and ends Saturday of the second week thereafter; Michaelmas begins third Monday in November, and ends Saturday of the second week thereafter.

CHANCERY TERMS.—*Examination Terms.*—From 1st Tuesday of February to the Saturday after the 2nd Tuesday of April; and from 1st Tuesday of September to the Saturday after 1st Tuesday of November. *Hearing Terms.*—From 4th Monday in April until Saturday of the following week, and from 3rd Monday in November until Saturday of the following week. The Court also sits every Tuesday (except during the regular vacations.)

COUNTY COURT TERMS.—The several County Courts in Ontario hold and terms in each year, to commence on the first Monday in January, April, July four October.

SALTING FOR WEEDS.—Weeds may be destroyed by scattering a small quantity of salt regularly over the walk, but this should only be done when the weather is fine, or it may be washed to the sides and do much damage to the verges. By treating walks to a slight dressing of salt every spring and autumn, they may be kept free of weeds at a minimum of the amount of labor and cost that would be required to pull them up, and not only this, but it has such an effect in killing all mossy conferva as to render the gravel always bright and new looking, nearly equaling in that respect any fresh raised from the pit and newly laid down. It may be remarked, however, that it does not do to use salt where the edgings are of box, as that is sure to suffer injury, and perhaps be killed altogether; but grass verges will stand it well if not sown too close to soak the roots, or get washed to them, should rain by chance occur immediately afterwards. Many other remedies have been recommended to extirpate weeds from walks, such as the use of some of the mineral acids, but there is nothing so cheap and simple, or that can be so readily and safely applied; as salt.

BANKS IN THE DOMINION OF CANADA.

ONTARIO.

Place.	Name of Bank.	Manager or Agent.
Almonte.	Merchants' Bank of Canada.	F. A. W. Lister.
Arnprior.	Bank of Ottawa.	D. M. Finnie.
Aurora.	Federal Bank of Canada.	George Mair.
Aylmer.	Exchange Bank of Canada.	J. G. Billott.
Ayr.	Consolidated Bank of Canada.	John Wyllie.
Barrle.	Bank of Toronto.	J. A. Strathy.
	Canadian Bank of Commerce.	J. S. Carnegie.
Belleville.	Bank of Montreal.	R. Richardson.
	Merchants' Bank of Canada.	
	Consolidated Bank of Canada.	Wm. Hamilton.
Berlin.	Consolidated Bank of Canada.	C. J. Brent.
	Merchants' Bank of Canada.	Charles Crookall.
Bowmanville.	Dominion Bank.	J. A. Codd.
	Ontario Bank.	Geo. McGill, Manager.
Bradford.	Standard Bank of Canada.	T. Dewson.
Brampton.	Dominion Bank.	R. A. Helliwell.
	Merchants' Bank of Canada.	F. Cresswell, jr.
Brantford.	Bank of British North America.	A. Robertson.
	Bank of Montreal.	S. Read.
	Canadian Bank of Commerce.	E. Mitchell, Acting M'gr.
Brockville.	Bank of Montreal.	J. N. Travers.
	The Molsons Bank.	J. W. B. Rivers.
Cannington.	Standard Bank of Canada.	John Houston.
Cayuga.	Canadian Bank of Commerce.	W. Roberts.
Chatham.	Canadian Bank of Commerce.	W. S. Ireland.
	Consolidated Bank of Canada.	A. Richardson.
	Merchants' Bank of Canada.	Robert N. Rogers.
Clinton.	Consolidated Bank of Canada.	M. Lough.
Cobourg.	Bank of Montreal.	C. Brough.
	Bank of Toronto.	Joseph Henderson.
	Dominion Bank.	W. D. Burn.
Colborne.	Standard Bank of Canada.	J. B. Cummins.
Collingwood.	Bank of Toronto.	G. W. Hodgetts.
	Canadian Bank of Commerce.	John McMaster.
Cornwall.	Bank of Montreal.	Neil McLean.
Dundas.	Canadian Bank of Commerce.	D. H. Charles.
Dunville.	Imperial Bank of Canada.	Wm. Ker.
Elora.	Merchants' Bank of Canada.	
Exeter.	The Molsons Bank.	H. C. Brewer.
Fergus.	Bank of Montreal.	Chas. R. Dunsford.
Galt.	Canadian Bank of Commerce.	E. Cowdry.
	Consolidated Bank of Canada.	John Cavers.
	Merchants' Bank of Canada.	J. S. Meredith.
Georgetown.	Bank of Hamilton.	J. O. Mowat.
Goderich.	Bank of Montreal.	James H. Finlay.
	Canadian Bank of Commerce.	A. M. Ross.
Guelph.	Bank of Montreal.	A. T. Kerr.
	Canadian Bank of Commerce.	Wm Smith.
	Federal Bank of Canada.	T. Y. Grant.
	Ontario Bank.	E. Merritt.
Hamilton.	Bank of Hamilton.	H. C. Hammond, Cash.
	Bank of British North America.	Thomas Corsan.
	Bank of Montreal.	Thomas R. Christian.
	Canadian Bank of Commerce.	John C. Kemp.
	Consolidated Bank of Canada.	J. M. Burns.
	Exchange Bank of Canada.	C. M. Counsell.
	Merchants' Bank of Canada.	A. M. Crombie.
Harriston.	Standard Bank of Canada.	A. J. Somerville.
Ingersoll.	Imperial Bank of Canada.	C. S. Boare.
	Merchants' Bank of Canada.	D. Miller.
	The Molsons Bank.	W. Dempster.
Kincardine.	Merchants' Bank of Canada.	T. E. P. Trew.
Kingston.	Bank of British North America.	George Durnford.
	Bank of Montreal.	R. M. Moore.
	Merchants' Bank of Canada.	D. Fraser.
Lindsay.	Bank of Montreal.	C. Sweeney.
	Ontario Bank.	S. A. McMurtry.

Place.
Listowel
London

Lucan...
Markham
Meaford
Millbrook
Milton...
Morrisburg
Mount Forest
Napawee.

Newcastle
Newmarket
Newark
Norwich
Orangeville
Orillia...
Oshawa.

Ottawa.

Owen Sound

Paris...
Parkhill...
Pembroke.

Perth...

Peterborough

Pictou...

Port Colborne
Port Elgin
Port Hope.

Port Perry.
Prescott...
Prince Arthur
Renfrew...
St. Catharines

St. Mary's...

St. Thomas.

Sarnia...

Seaford...
Simcoe...

Smith's Falls

Place.	Name of Bank.	Manager or Agent.
Listowel	Bank of Hamilton	W. Corbould.
London	Bank of British North America	Oswald Weir.
	Bank of Montreal	F. A. Despard.
	Canadian Bank of Commerce	R. W. Smylie.
	Federal Bank of Canada	Charles Murray.
	Merchants' Bank of Canada	W. F. Harper.
	The Molsons Bank	Joseph Jeffery.
Lucan	Canadian Bank of Commerce	J. E. Thomas.
Markham	Standard Bank of Canada	F. A. Reesor.
Meaford	The Molsons Bank	P. Fuller.
Millbrook	The Molsons Bank	C. W. Clinch.
Milton	Bank of Hamilton	E. A. Colquhoun, Agent.
Morrisburgh	The Molsons Bank	J. F. Feilde.
Mount Forest	Ontario Bank	B. Clouston.
Napanee	Bank of British North America	A. Allan, Acting Agent.
	Merchants' Bank of Canada	Alex. Smith.
Newcastle	Standard Bank of Canada	J. K. Allen.
New Hamburg	Consolidated Bank of Canada	H. T. Denison.
Newmarket	Consolidated Bank of Canada	Joseph Cawthra.
Norwich	Consolidated Bank of Canada	John Greenwood.
Orangeville	Canadian Bank of Commerce	R. T. Haun.
Orillia	Dominion Bank	H. S. Scadding.
Oshawa	Bank of Montreal	R. A. Macgregor.
	Dominion Bank	W. H. Holland.
	Ontario Bank	R. Milroy.
Ottawa	Bank of British North America	James Robertson.
	Bank of Montreal	A. Drummond.
	Bank of Ottawa	P. Robertson, Cash.
	Canadian Bank of Commerce	Robert Gill.
	La Banque Nationale	Samuel Benoit.
	Merchants' Bank of Canada	Thomas Kirby.
	Ontario Bank	J. H. Woodman.
	Quebec Bank	H. V. Noel.
	Union Bank of Lower Canada	J. G. Leisch.
Owen Sound	Merchants' Bank of Canada	W. H. Scott, Act. Agent.
	The Molsons Bank	E. W. Strathy.
Paris	Bank of British North America	John Carnegie.
Parkhill	Exchange Bank of Canada	D. E. Cameron.
Pembroke	Merchants' Bank of Canada	
	Quebec Bank	J. Walker.
Perth	Bank of Montreal	R. J. Drummond.
	Merchants' Bank of Canada	James Gray.
Peterborough	Bank of Montreal	F. J. Lewis.
	Bank of Toronto	J. H. Roper.
	Canadian Bank of Commerce	W. Manson.
	Ontario Bank	George E. Shaw.
Pictou	Bank of Montreal	Fred. White, A'g Agent.
	Standard Bank of Canada	Geo. P. Reid.
Port Colborne	Imperial Bank of Canada	Edw. Hay, Act. Manager.
Port Elgin	Bank of Hamilton	H. S. Steven.
Port Hope	Bank of Montreal	J. L. Thompson.
	Bank of Toronto	W. R. Wadsworth.
	Ontario Bank	G. H. G. McVity.
Port Perry	Ontario Bank	A. C. Mowbray.
Prescott	Merchants' Bank of Canada	J. F. Harper.
Prince Arthur's Landing	Ontario Bank	D. F. Burk.
Renfrew	Merchants' Bank of Canada	C. G. Morgan.
St. Catharines	Bank of Toronto	E. D. Boswell, Acting.
	(Branch)	A. Green, Manager.
	Canadian Bank of Commerce	H. C. Barwick.
	Consolidated Bank of Canada	Wm. T. Benson.
	Imperial Bank of Canada	C. M. Arnold, Manager.
	Quebec Bank	D. B. Crombie.
St. Mary's	Bank of Montreal	R. Hillyard.
	Federal Bank of Canada	C. S. Rumsey.
St. Thomas	Imperial Bank of Canada	M. A. Gilbert.
	Merchants' Bank of Canada	John Pottenger.
	The Molsons Bank	Geo. Kendal Morton.
Sarnia	Bank of Montreal	W. L. Creighton.
	Canadian Bank of Commerce	T. W. Nisbet.
Seaforth	Consolidated Bank of Canada	M. P. Hayes.
Simcoe	Canadian Bank of Commerce	F. W. Holmsted.
	Federal Bank of Canada	Henry Groff.
Smith's Falls	The Molsons Bank	A. Lloyd Thomas.

Place.	Name of Bank.	Manager or Agent.
Stratford.....	Bank of Montreal.....	J. Hogg.
	Canadian Bank of Commerce.....	A. H. Ireland.
	Merchants' Bank of Canada.....	
Strathroy.....	Canadian Bank of Commerce.....	A. H. Ireland.
	Federal Bank of Canada.....	W. Thomson Smith.
Thorold	Canadian Bank of Commerce.....	W. J. Robertson.
	Quebec Bank.....	G. W. Henry.
Tilsonburg.....	Federal Bank of Canada.....	John Cowan.
	The Molsons Bank.....	
Toronto.....	Bank of British North America.....	Samuel Taylor.
	Bank of Montreal.....	G. W. Yarker.
	Bank of Toronto	D. Coulson, Cashier.
	Canadian Bank of Commerce.....	J. S. Lockie, Manager.
	Consolidated Bank of Canada.....	Thomas McCracken, Asst. Gen'l Manager.
	Dominion Bank.....	R. H. Bethune, Cash.
	Federal Bank of Canada.....	H. S. Strathy, Cash.
Trenton.....	Imperial Bank of Canada.....	D. R. Wilkie, Cash.
	La Banque Nationale.....	Bank of Toronto, Agent.
	Merchants' Bank of Canada.....	Wm. Cooke.
	Ontario Bank.....	A. Fisher, Br. Manager.
	Quebec Bank.....	Jas. L. Scarth.
	Standard Bank of Canada.....	J. L. Brodie, Cash.
	The Molsons Bank.....	L. H. Robertson.
Uxbridge.....	Canadian Bank of Commerce.....	P. H. Fauquier.
	Dominion Bank.....	N. H. Crowdy.
Walkerton.....	Canadian Bank of Commerce.....	D. Just.
	Merchants' Bank of Canada.....	Alex. Sproat.
Waterloo.....	Merchants' Bank of Canada.....	D. M. Harman.
Welland.....	Imperial Bank of Canada.....	J. W. McGlashan.
Whitby.....	Dominion Bank.....	H. B. Taylor.
	Ontario Bank.....	Thomas Dow.
Windsor.....	Canadian Bank of Commerce.....	B. E. Walker, Manager.
	Merchants' Bank of Canada.....	A. Wickson.
	The Molsons Bank.....	Thomas Blackenay.
Wingham.....	Consolidated Bank of Canada.....	A. Green.
Woodstock.....	Canadian Bank of Commerce.....	Chas. M. Stock.
	Consolidated Bank of Canada.....	Thos. McDonald.
Yorkville.....	Federal Bank of Canada.....	R. J. Montgomery.

QUEBEC.

Beauharnois.....	Merchants' Bank of Canada.....	Norbert Roy.
Bedford.....	Exchange Bank of Canada.....	T. L. Rogers.
Carleton	La Banque Nationale.....	John Meagher.
Coaticook.....	Eastern Townships Bank.....	B. Austin.
	Metropolitan Bank.....	A. W. Hart.
Cowansville.....	Eastern Townships Bank.....	J. McKinnon.
Fraserville.....	Stadacona Bank.....	James Rafferty.
Gaspe.....	La Banque Nationale.....	J. Le Boutillier & Co.
Gaspe Basin.....	La Banque Nationale.....	John Le Boutillier.
Joliette.....	Exchange Bank of Canada.....	
Levis.....	Merchants' Bank of Canada.....	I. Wells.
Montreal.....	Bank of British North America.....	R. R. Grindley, Gn'l M'gr.
	Bank of Montreal.....	{ R. B. Angus, Gen'l Man.
		{ W. J. Buchanan, L. Mr.
	Bank of Toronto.....	J. M. Smith.
	Banque D'Hochelega.....	Jean Salem Paquet.
	Banque Jacques Cartier.....	— Martinay.
	Banque Ville Marie.....	Pierre Aimé Fauteux.
	Canadian Bank of Commerce.....	W. Simpson.
	Consolidated Bank of Canada.....	J. B. Renny, Gen'l Man.
	Exchange Bank of Canada.....	C. R. Murray, Cash.
	La Banque du Peuple.....	A. A. Trottier, Cash.
	La Banque Nationale.....	J. B. Sancer.
	Mechanics' Bank.....	A. Lenzie.
	Merchants' Bank of Canada.....	{ Geo. Hague, Gen'l Man.
		{ W. W. L. Chipman, Local Manager.
Ontario Bank.....	C. Holland.	
Quebec Bank.....	Thos. McDougall.	
The Molsoas Bank.....	F. W. Thomas, Cash.	
Union Bank of Lower Canada.....	F. Nash.	

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Waterloo
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Winnipeg

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Annapolis
Antigonish
Bridgewater
Halifax...

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Lunenburg
Maitland
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Parrsboro.
Pictou.....

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Windsor...
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Place.	Name of Bank.	Manager or Agent.
Quebec	Bank of British North America	C. F. Smith.
	Bank of Montreal	J. Porteous.
	La Banque Nationale	François Vezina, Cash.
	Quebec Bank	Jas. Stevenson, Cash.
	Stadacona Bank	W. R. Dean, Cash.
	Union Bank of Lower Canada	P. McEwen, Cashier.
Richmond	Eastern Townships Bank	A. J. Cleveland.
St. Cuthbert	Banque Ville Marie	C. N. Paquin, Cash.
St. Hyacinthe	La Banque St. Hyacinthe	R. St. Jacques.
St. Johns	Banque de St. Jean	
Sherbrooke	Merchants' Bank of Canada	W. L. Marler.
	Consolidated Bank of Canada	William Addie.
	Eastern Townships Bank	W. Farwell, Cash.
	La Banque Nationale	P. Lafrance.
Sorel	Merchants' Bank of Canada	A. A. Taillon.
Stanstead	The Molsons Bank	H. C. Brewer.
	Eastern Townships Bank	A. P. Ball.
Three Rivers	La Banque Nationale	Union F'k of Lower Can.
	Quebec Bank	F. G. V otherspoon.
	Union Bank of Lower Canada	C. A. Boxer.
Valleyfield	Exchange Bank of Canada	D. B. Pease.
Waterloo	Eastern Townships Bank	W. I. Briggs.
West Farnham	Banque de St. Jean	Ph. Baudouin.
Wingham	Consolidated Bank of Canada	

MANITOBA.

Winnipeg	Merchants' Bank of Canada	D. Macarthur.
	Ontario Bank	George Brown.

NOVA SCOTIA.

Amherst	Bank of Nova Scotia	J. M. Hay.
Annapolis	Union Bank of Halifax	Alex. Shearer.
Antigonish	Merchants' Bank of Halifax	T. M. King.
Bridgewater	Merchants' Bank of Halifax	Andrew Gow.
Halifax	Bank of British North America	Jeffrey Penfold.
	Bank of Montreal	F. Gundry.
	Bank of Nova Scotia	Thos. Fyshe, Cashier.
	People's Bank of Halifax	Peter Jack, Cashier.
	Merchants' Bank of Halifax	Geo. Maclean, Cashier.
	Union Bank of Halifax	W. S. Stirling, Cashier.
	Halifax Banking Co.	Samuel H. Black, Cashier.
Kentville	Bank of Nova Scotia	L. De V. Chipman.
Liverpool	Bank of Liverpool	John Leslie, Cashier.
Lockeport	People's Bank of Halifax	Austen Locke.
Lunenburg	Merchants' Bank of Halifax	S. Finck, Agent.
Maitland	Merchants' Bank of Halifax	David Frieze, Agent.
New Glasgow	Bank of Nova Scotia	Jas. W. Carmichael.
North Sydney	Bank of Nova Scotia	Hon. T. D. Archibald.
Parrsboro	Halifax Banking Co.	A. S. Townshend, Agent.
Pictou	Bank of Nova Scotia	Howard Primrose.
	Merchants' Bank of Halifax	William Ives.
	Pictou Bank	T. Watson, Cashier.
Stellarton	Bank of British North America	J. F. Reid, Agent.
Sydney, C. B.	Merchants' Bank of Halifax	J. E. Burchell.
Truro	Halifax Banking Co.	Charles Blanchard, Agt.
	Merchants' Bank of Halifax	John B. Dickie & F. H. Arnaud.
Weymouth	Merchants' Bank of Halifax	Colin Campbell, jr.
Windsor	Commercial Bank of Windsor	G. W. Payzant.
Wolfville	People's Bank of Halifax	A. D. W. Barss.
Yarmouth	Bank of Nova Scotia	James Murray.
	Exchange Bank	A. S. Murray, Cashier.
	Bank of Yarmouth	T. W. Johns.

NEW BRUNSWICK.

Campbellton	The Molsons Bank	John McMahon.
Chatham	Bank of Montreal	F. E. Winslow, Agent.
Fredericton	Bank of British North America	R. Napier.
	People's Bank of New Brunswick	A. F. Randolph.
Moncton	Bank of Montreal	J. Robertson, Agent.

Place.	Name of Bank.	Manager or Agent.
Newcastle.....	Bank of Montreal.....	R. J. B. Crombie, Agent.
St. John.....	Bank of British North America.....	J. P. Lawless.
	Bank of Montreal.....	E. C. Jones.
	Bank of New Brunswick.....	Wm. Girvan, Cashier.
	Bank of Nova Scotia.....	J. M. Robinson, Acting Manager.
	Maritime Bank of Dominion of Canada.....	Alfred Ray, Cashier.
St. Stephen.....	St. Stephen's Bank.....	R. Watson, Cashier.

PRINCE EDWARD ISLAND.

Charlottetown.....	Bank of Prince Edward Island.....	J. R. Brecken, Cash.
	Merchants' Bank of Halifax.....	Owen Connolly.
	Merchants' Bank of P. E. Island.....	Wm. McLean, Cash.
	Union Bank of P. E. Island.....	Geo. McLeod, Cash.
Georgetown.....	Merchants' Bank of P. E. Island.....	H. C. McLeod, Agent.
Rustico.....	Farmers' Bank of Rustico.....	M. J. Blanchard, Cash.
Souris.....	Merchants' Bank of Halifax.....
Summerside.....	Merchants' Bank of Halifax.....	Stephen McNeil, Agent.
	Summerside Bank.....	R. McC. Stavert, Cash.
	Union Bank of P. E. Island.....	Neil McKelvie.

NEWFOUNDLAND.

St. Johns... ..	Commercial Bank of Newfoundland.....	Robert Brown.
	Union Bank of Newfoundland.....	Randel Green, Cash.

BRITISH COLUMBIA.

Barkerville.....	Bank of British Columbia.....	W. Fraser.
Stanley.....	Bank of British North America.....	James Cran, Agent.
Victoria.....	Bank of British Columbia.....	Wm. C. Ward.
	Bank of British North America.....	John Goodfellow.

Never mind any other dowry if you have industry and economy.

The day of judgment is always nearer the day of promise than it seems.

The rays of happiness, like those of light, are colorless when unbroken.

It is sad but true that we can silence our consciences easier than our desires.

A good constitution is like a savings-box, its value is not known until it is broken.

What a catalogue of social virtues a man requires to make him generally beloved!

What wits we should be if we only uttered the bright things we think of when the occasion has past.

It is man the conqueror, not time, who works so much destruction on the monuments and works of art.

Pleasure is a subject in which we are all interested. At twenty-five we kill pleasure, at thirty we enjoy it, at forty we husband it, at fifty we hunt after it, and alas! at sixty we regret it!

An exchange says that it is very poor practice, indeed, to compel cows to live upon what they cannot eat with a relish. The appetite should be kept keen by a frequent change of food, or by a mixed ration, such as the system requires.

It is a very high mind to which gratitude is not a painful sensation. If you wish to please, you will find it wiser to receive, solicit even, favors, than accord them; for the vanity of the obligator is always flattered, that of the obligee rarely.

It is especially important to breed from first-class stock, since the bull gives character to the progeny more than does the cow. The product of an inferior cow is better from a first-class bull than that of an inferior bull out of a first-class cow.

I will govern my life and thoughts as if the whole world were to see the one and to read the other; for what does it signify to make anything a secret to my neighbour when to God (who is the searcher of our hearts) all our privacies are open?—Seneca.

1878.]

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We find in a late number of the North British *Agriculturalist* an interesting experiment, illustrative of the subject, of special feeding and quality of Milk made by Dr. Stephenson Macadam, and reported by him to the Pharmaceutical Society of Edinburgh, Scotland. This experiment was upon ewes. Ten ewes, with lambs, were selected and placed in a pasture with abundant grass, in May. The milk taken from each ewe was kept separate and analyzed separately. After the sheep had been some weeks upon this good grass, the ewes were milked, and the following table gives the results of the analyses of the ten samples :

IN 100 PARTS BY WEIGHT :

Ewe No.	Total Solids.	Fat in Solids.	Solids not Fat.	Ash in Solids.
1.....	17.45	5.02	12.43	0.79
2.....	18.77	6.56	12.21	0.81
3.....	20.25	8.94	11.31	0.82
4.....	21.01	9.56	11.45	0.95
5.....	17.76	5.30	12.46	0.87
6.....	18.76	6.63	12.13	0.81
7.....	18.94	7.37	11.57	0.73
8.....	17.04	5.37	11.67	0.93
9.....	17.44	4.56	12.88	0.93
10.....	20.13	8.46	11.67	0.89
Average of all.....	18.75	6.77	11.97	0.85
Lowest.....	17.04	4.56	11.31	0.73
Highest.....	21.01	9.56	12.88	0.95

These analyses show the remarkable richness of ewes' milk, when fed only upon grass. To test the effect of richer food, arrangements were made to give other food besides the pasture to certain ewes. Numbers 1, 2 and 3 were each fed daily with one pound linseed cake for ten days ; Nos. 4, 5, and 6 with a pound of cotton cake ; Nos. 7, 8, and 9 with a pound of oats ; while No. 10 was given only grass. All ran in pasture except when eating their allowance of other food. At the end of the ten days the ewes were again milked, and the ten samples gave the following results on analysis :

Analysis of milk from ewes fed on artificial food in addition to natural pasture

IN 100 PARTS BY WEIGHT.

Ewes.	Total Solids.	Fat in Solids.	Solids in not fat.	Ash in Solids.
Linseed Cake { No. 1.....	21.32	9.79	11.54	0.87
2.....	18.67	6.63	12.24	0.85
3.....	16.28	4.67	11.67	0.87
Cotton Cake { 4.....	22.17	10.15	12.02	0.84
5.....	19.33	7.63	11.70	0.88
6.....	20.65	8.56	12.09	0.91
Oats..... { 7.....	19.43	6.96	12.48	0.87
8.....	22.20	10.48	11.72	0.96
9.....	20.13	4.41	11.72	0.77
10.....	20.75	9.80	11.35	0.88
Average of all.....	20.11	8.27	11.35	0.89
Lowest.....	16.28	4.67	11.84	0.77
Highest.....	22.20	10.48	12.48	0.96

The difference in composition of the milk from the extra feeding is not uniform, but it will be perceived that the average total solids were increased from 18.75 to 20.11 per cent., which may be considered a great change to be made in ten days ; but in what constituent of the milk was the change made ? If we examine the table, we shall find the change to be made almost wholly in the fat ; the average fat was increased from 6.77 per cent. to 8.27 per cent. But the greatest change was

made by the addition of oats to the grass feed. Here the total solids were increased from 17.81 to 20.50 per cent, or nearly 3 per cent. Here, also, the change is in the element of fat from 5.77 to 8.62 per cent. The linseed cake did not increase the average of the solids in the milk of three sheep but a mere fraction, as the milk of No. 3 seemed to have lost in solids from 20.25 to 16.28 per cent., while the other two sheep gained very much, but this gain was neutralized by the loss of No. 3. The cotton cake also increased the fat $1\frac{1}{2}$ per cent.

A careful examination of these tables will show conclusively, so far as a single experiment can, the effect of extra food of a character rich in oil and albuminoids. Your readers will also be interested in these tables, as giving the fullest information upon the composition of the milk of ewes yet published. It will show a good foundation for the high reputation of the cheese made in France from ewes' milk, and it will also assist in dispelling the erroneous teachings of the German experiments.—*Country Gentleman.*

WHITE HOLLAND TURKEYS—This variety of turkeys is becoming more popular as the public become better acquainted with their excellent table qualities and beauty; for certainly a large, clean, healthy white turkey is a beautiful fowl as any one could wish to see. They are pure white in plumage, with pink legs, and of good size, though not so large as the bronze, and yet large enough for market; and we are told are as hardy, and stand our severe change of temperature in winter better than any other variety. The feathers are nearly equal to geese feathers for sale, and will bring almost as much if carefully selected, and the large feathers stripped.

In raising poultry, it is not sufficient merely to provide proper food; but the food must be properly given. Some persons have an idea that if they throw down a heap of corn once or twice a day that is all that is required; but no plan is so extravagant nor so injurious as this. The corn or other food should be scattered as far and wide as possible, that the birds may be longer employed in finding it, to the benefit of their health; and that they may not accomplish in a few minutes that which should occupy them for hours.

A great sale of Canadian short-horns took place in England, on the 4th Sept. at which forty-two head of cattle were sold for eighty-two thousand dollars. Two Duchess heifers brought the large sum of forty-five thousand dollars. This sale will no doubt prove beneficial to Canada, as directing attention to her capabilities for raising the more thoroughbred varieties of cattle, as well as supplying superior beef for the shambles.

READY.—A farmer being provided poorly with materials of sustenance for his men, fed them with pork cooked with rind upon it. A young man of the company not liking that outer portion of the food, was observed by the host to be carefully removing the outside covering, whereupon the latter said: "Young man, we eat rind and all here." To which the young youth replied, "All right, old man, I'm cutting it off for you."

—"And now, Mrs. Sullivan," said the counsel, "will you be kind enough to tell the jury whether your husband was in the habit of striking you with impunity?" "Wid what, sir?" "With impunity." "He wuz, sir, now and thin; but he struck me oftener wid his fisht."

If Canadian agriculture has an unsatisfied need, it is surely the need for more intelligence and more enterprising interest on the part of its working men and women. From one end of the land to the other, its crying defect—recognized by all—is that its best blood—or, in other words, its best brains and its best energy—is leaving it to seek other fields of labor. The influences which lead these best of the farmers' sons to other occupations is not so much the desire to make more money, or to find a less laborious occupation, as it is the desire to lead a more satisfactory life—a life where that part of us which has been developed by the better education and better civilization for which, in this century, we have worked so hard and so well, may find responsive companionship and encouraging intercourse with others.

[1878.

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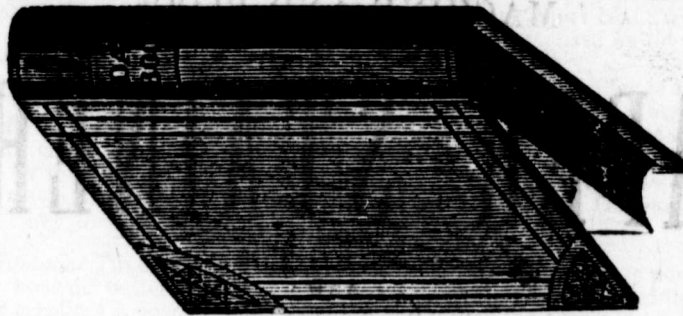
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