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The 157th Continuous Year of Publication

No.  
CLVII

SPRING.

SUMMER.

THE  
OLD

FARMER'S

1949

ALMANAC

BY  
ROBERT B. THOMAS

BENJAMIN  
FRANKLIN

ROBERT  
THOMAS

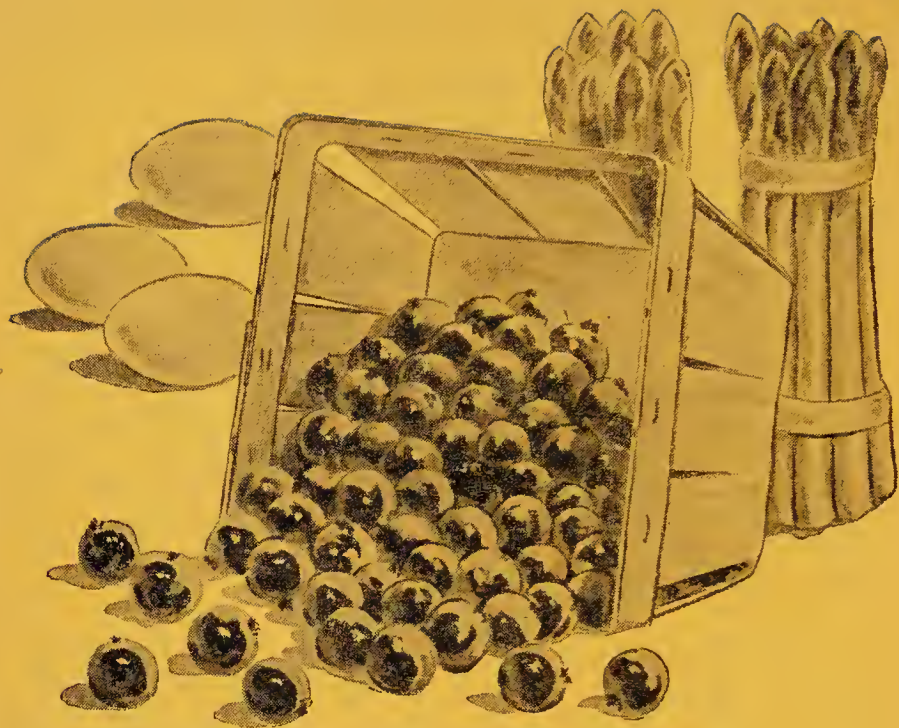
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BOSTON, MASSACHUSETTS



Number One Hundred and Fifty-Seven

THE  
(OLD)  
**FARMER'S ALMANACK,**

CALCULATED ON A NEW AND IMPROVED PLAN  
FOR THE YEAR OF OUR LORD

**1949**

Being 1st after BISSEXTILE or LEAP YEAR, and (until July 4)  
173rd year of American Independence.

FITTED FOR BOSTON, AND THE NEW ENGLAND STATES, WITH SPECIAL CORRECTIONS AND CALCULATIONS TO ANSWER FOR ALL THE UNITED STATES.

Containing, besides the large number of Astronomical Calculations  
and the Farmer's Calendar for every month  
in the year, a variety of

NEW, USEFUL, AND ENTERTAINING MATTER.

ESTABLISHED IN 1792

**BY ROBERT B. THOMAS.**



AUTUMN — Wheezy, sneezy, freezy  
WINTER — Slippy, drippy, nippy  
SPRING — Showery, flowery, bowery  
SUMMER — Hopy, croppy, poppy.

*Old English Wit.*

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## TO PATRONS & CORRESPONDENTS

This 157th continuous edition of The Old Farmer's Almanac(k), is published for Atomic Year 4. We find ourselves still in the white waters of postwar readjustments; inflation, inadequate housing, domestic and international tensions, family and personal unsettlement. Wartime passions and feelings have not yet died away. The assurance of peace through world government is not yet with us. The victory of good, though it seemed promised, over evil is not yet apparent. It is clear that this year will, as have others, remain a testing ground on which thinking individuals will resolutely oppose evil, yet will continue to examine standards, customs, beliefs with utmost care. God manifests Himself in many ways. His guidance will be apparent to those who are willing to recognize in their individual lives His laws, too.

S.A.S., Weston, Mass. In answer to your question as to whether the stock market is going up or down in 1949, we beg to state that if you think it will go up, it will go down, and vice versa. Lulu B., New Britain, Conn. You request the actual number of snowflakes which fell in New England during the month of December, 1947. Our staff reports the actual count they made, which came to quite a figure, remains inaccurate inasmuch as several of the flakes which fell on the Eastern side of Mount Mansfield, near Stowe, Vermont, became mixed up with some which had blown up from the ground (already counted). Sorry, better luck next time. J. B. Baesweiler, Germany. Glad to know this Almanac is being used in your school to stem the tide of Russian propaganda.

David Morton, of Amherst, Massachusetts, has again prepared the poetry on this year's Calendar Pages. B. M. Rice, of Peterborough, New Hampshire, has once more written the Farm Calendars, and edited most of the remainder of the edition. Professor Loring B. Andrews, of Scituate, Massachusetts, has prepared the astronomical data. Venerable Abraham Weatherwise has once more completed the weather predictions and prognostications. Last year this Almanac made its first bow in 156 years to the "comics." This met with considerable favor. It is continued herewith by Francis Dahl—his life story—and examples of his popular work.

Many government departments have again helped us with statistical material and we thank them for it. Also, you will find an interesting summary of Automobile Laws contributed to this issue by the American Automobile Association. In addition, more than a few noted journalists and scientists will be found on the pages following the Calendars.

As usual, the press, the radio stations, and others in positions to befriend us have been extremely helpful and cooperative. We reiterate that without this splendid interest and support these many years this Almanac could not have maintained its unbroken record of publication. Our gratitude to these men and women is deeply felt.

With great regret, we note the passing of Alton P. Swan during this past year, one of the heirs of Mabel M. Swan—a brother of Carroll Swan.

Of weather this past—and this coming—winter, we ask your attention to pages which follow. The caution which Mr. Weatherwise provided in last year's edition with regard to sun spots seems to have been well given if the first six months of 1948 (which are all we have to go by before our press date on this edition) are anything like the last six may prove to be.

In conclusion, we wish to express our appreciation to the many readers of, and advertisers in, this Almanac who have for so many years given us the confidence to carry on. It is to be hoped we may merit the continuance of this support. Man, however, in these great things can only propose, God is the true disposer. In this then by our works, and not by our words, that we would be judged. These we hope will sustain us in the humble though proud station we have so long held, in the name of

Your ob'd servant,

*W. O. Thomas.*

June 1, 1948

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## EXPLANATIONS AND SIGNS

In accord with long time usage the left and right hand calendar pages beginning respectively on pages 14 and 15 will be seen to contain numerous symbols (known as signs) and abbreviations which denote the many happenings in the heavens and on the earth which the OFA purports to set forth. On this page and pages 92 and 93 we include a brief summary of these hieroglyphics — the careful study of which will reward you with not only greater appreciation of this almanac but also stimulation with regard to further study of the wonders of the universe.

### Names and Characters of the Principal Planets.

☉ The Sun.	♀ Venus.	♃ Jupiter.	♆ Neptune.
☾ The Moon.	♁ The Earth.	♄ Saturn.	♇ Pluto.
☿ Mercury.	♂ Mars.	♅ or ♁ Uranus.	

### Names and Characters of the Aspects.

♁ Conjunction, or in the same degree.	♁ Dragon's Head, or Ascending Node.
⊥ Quadrature, 90 degrees.	♁ Dragon's Tail, or Descending Node.
♁ Opposition, or 180 degrees.	

### Names and Characters of the Signs of the Zodiac.

1. ♈ Aries, head.	5. ♌ Leo, heart.	9. ♎ Sagittarius, thighs.
2. ♉ Taurus, neck.	6. ♍ Virgo, belly.	10. ♏ Capricornus, knees.
3. ♊ Gemini, arms.	7. ♎ Libra, reins.	11. ♐ Aquarius, legs.
4. ♋ Cancer, breast.	8. ♏ Scorpio, secrets.	12. ♑ Pisces, feet.

### Chronological Cycles for 1949.

Golden Number . . . . . 12	Solar Cycle . . . . . 26	Roman Indiction . . . . . 17
Epact . . . . . 30	Dominical Letter . . . . . B	Year of Julian Period 6662

### Movable Feasts and Fasts for 1949.

Septuagesima Sun. Feb. 13	Good Friday Apr. 15	Whitsunday June 5
Shrove Sunday Feb. 27	Easter Sunday Apr. 17	Trinity Sunday June 12
Ash Wednesday Mar. 2	Low Sunday Apr. 24	Corpus Christi June 16
1st Sun. in Lent Mar. 6	Rogation Sunday May 22	1st Sunday in Advent Nov. 27
Palm Sunday Apr. 10	Ascension Day May 26	

## THE SEASONS, 1949

*Eastern Standard Time*

Winter Solstice (Winter 1948), December 21, 5.34 P.M.	— Sun enters Capricornus, ♏
Vernal Equinox (Spring, 1949), March 20, 5.49 P.M.	— " " Aries, ♈
Summer Solstice (Summer), June 21, 1.03 P.M.	— " " Cancer, ♋
Autumnal Equinox (Autumn), September 23, 4.06 A.M.	— " " Libra, ♎
Winter Solstice (Winter), December 21, 11.24 P.M.	— " " Capricornus, ♏

## CALCULATIONS AND CORRECTIONS

(For Outside New England, see Pages 7, 10, 11, 12)

While the predictions of the Calendar pages are made for the latitude and longitude of Boston and are in *Eastern Standard Time*, the time of the 75th meridian west of Greenwich, they may be used throughout the United States by applying the corrections given here and in the tables on pages 7 and 12.

The Table given below contains corrections in minutes of time for a number of important places in New England, and any other place in New England can use the correction of the place in the Table which is nearest in longitude to itself.

For the Rising and Setting of the Sun, Moon and Planets add tabular quantity if longitude from Boston is West, but subtract it if East; and this will give the value when the place is in or near the same latitude as Boston. When the latitude of the place differs considerably from that of Boston, the correction will also be right when the celestial body is on or near the Equator; but when it is remote from the Equator so much accuracy cannot be expected.

	<i>East.</i>	<i>West.</i>	<i>West.</i>
Eastport, Me. . . . .	16 min.	Concord, N.H. . . . .	2 min.
Bangor, Me. . . . .	9 "	Nashua, N.H. . . . .	2 "
Augusta, Me. . . . .	5 "	Plymouth, N.H. . . . .	3 "
Lewiston, Me. . . . .	4 "	Keene, N.H. . . . .	5 "
Portland, Me. . . . .	3 "	Montpelier, Vt. . . . .	6 "
Biddeford, Me. . . . .	2 "	Brattleboro, Vt. . . . .	6 "
Portsmouth, N.H. . . . .	1 "	Rutland, Vt. . . . .	8 "
Provincetown, Mass. . . . .	4 "	Burlington, Vt. . . . .	9 "
Gloucester, Mass. . . . .	2 "	Lowell, Mass. . . . .	1 "
Plymouth, Mass. . . . .	2 "	Worcester, Mass. . . . .	3 "
		Springfield, Mass. . . . .	6 min.
		Williamstown, Mass. . . . .	9 "
		Newport, R.I. . . . .	1 "
		Providence, R.I. . . . .	1 "
		Woonsocket, R.I. . . . .	2 "
		New London, Conn. . . . .	4 "
		Willimantic, Conn. . . . .	5 "
		Hartford, Conn. . . . .	6 "
		New Haven, Conn. . . . .	7 "
		Bridgeport, Conn. . . . .	9 "

## EARTH IN PERIHELION AND APHELION, 1949

The Earth will be in Perihelion on January 3, 9 A.M., distant from the Sun 91,323,000 miles. The Earth will be in Aphelion on July 2, 4 P.M., distant from the Sun 94,453,000 miles.

STANDARD TIME IS USED THROUGHOUT THIS ALMANAC

1949

Calendar grid for 1949, showing months from January to December with days of the week and dates.

WORLD CALENDAR

World Calendar grid for 1949, showing months from January to December with days of the week and dates.

The World Calendar does not change. It is the same each year. \*Dec. 31 is Year End Day—World Holiday. \*\*In Leap Years June 31, another World Holiday is added.

1950

World Calendar grid for 1950, showing months from January to December with days of the week and dates.

## LAST WINTER'S WEATHER

### "WHITE, LONG, COLD"

These past five winters—first "mild," then "turbulent," then "wet," then "old fashioned" in most places, and finally, last year's "white, long, and cold," followed the predictions of Mr. Weatherwise. In addition, his caution that the summer of 1948 might see crop failures due to sunspot conditions was absolutely in order. The cold May spelt apple failure in many places. Many millions of bees died of starvation.

Back in 1900 the city clerk of Providence, Rhode Island, kept careful track of the accuracy of the weather predictions of Mr. Weatherwise for that year. He found them 33% correct as against the United States Weather Bureau's 35% in its daily forecasts.

For the year 1947 a Selectman of Dublin, New Hampshire, kept a careful record of the Weatherwise's accuracy as a weather forecaster. At the end of the time he announced the old gentleman had been 78.5% correct, which compared with the Weather Bureau's 65.5% correct in its five day forecasts for the same period.

Of the twenty-two extreme weather spells in 1947 against which businessmen, farmers, and others might well have sought to be forewarned, Mr. Weatherwise correctly named in advance eleven. This compares with six called five days in advance by the Bureau.

To get back, however, to last year's winter—On December 26 there started in New York City a storm that was to leave the heaviest snowfall ever recorded there, even surpassing the Great Blizzard of '88. Snow started at about 5:30 a.m. and ended at 4 a.m. December 27, leaving behind in the city better than 28 inches and, in the suburbs, amounts up to three feet.

More and more storms, until on March 3 the Blue Hills Observatory outside Boston reported a total winter precipitation of more than eleven feet (later more than twelve feet) and Boston was approaching with 85.5 inches the all-time 96.4 inches of 1873-4.

As the snow accumulated over northern New England unusual reports of wild-life condition began to come in. It was estimated that only a third of the Canadian geese wintering off Cape Cod survived. Yet, as an oddity, one great confused flock circled over southern New Hampshire in the last days of February. In Vermont a herd of more than fifty deer literally invaded a small town—starved out from their natural winter browsing. Bobcats and lynx which usually waxed fat on hares and rabbits were reported killed in a semi-starving condition and less than half their normal weight. The soft engulfing snow never offered them a traveling crust and they starved while their prey waxed fat.

A wild, cold winter ready-made for the howl of wolves, but when spring came, it came with a rush. Only the absorbent earth long parched in the fall, and snow covered before much frost had set in it, and the fact that the mountains of snow had comparatively little water content prevented floods.

Many natural weather curiosities were observed in this weird winter. Up in North Adams, Mass., in an otherwise respectable blizzard, lightning sizzled and thunder roared to the consternation of week-end skiers. In early March the wondering folks of Hancock, New Hampshire were treated to a snowfall with unearthly lighting effects—due to the peculiar refraction of the sun's rays. Suddenly everything turned yellow, then as suddenly purple, and at last for a full twenty minutes, a lovely pink. Portland, Maine saw a 50 foot, rosy-hued fog bank, half a mile long on April 6th in its harbor. March was a month of wonders. Martha's Vineyard was treated to the spectacle of a blue moon. In Dayton, Ohio, on March 26 a green rain fell discoloring clothing and houses. The night before Bostonians saw three moons—the real moon with a "moon dog" on either side. But by that time spring was really on the way, which to a winter-weary New England was the greatest phenomena of all.

### NEXT WINTER'S WEATHER—"ICY"

The winter of 1948 (November, December), and 1949 (January, February, March) will not be as cold on the whole as the winter just past. However, it will last longer into March and there will be frequent storms of rain and sleet as well as snow which will create unusually icy conditions.



## TIDE CORRECTIONS

To obtain the time and height of high water at any place, apply the differences in accordance with the sign given to the daily predictions for Boston (Commonwealth Pier). Where a value in the "height difference" column is preceded by an \*, the height at Boston should be multiplied by this ratio.

	Time Differ- ence h.m.	Height Differ- ence Ft.		Time Differ- ence h.m.	Height Differ- ence Ft.
<b>MAINE</b>			<b>PENNSYLVANIA</b>		
Augusta . . . . .	+3 50	*0.4	Philadelphia . . . . .	+2 29	*0.5
Bangor . . . . .	-0 05	+3.6	<b>DELAWARE</b>		
Bar Harbor . . . . .	-0 33	+1.1	Rehoboth . . . . .	-3 37	*0.4
Boothbay Harbor . . . . .	-0 20	-0.8	<b>MARYLAND</b>		
Eastport . . . . .	-0 28	*1.9	Baltimore . . . . .	-4 25	*0.1
Old Orchard . . . . .	-0 10	-0.7	Ocean City . . . . .	-3 57	*0.4
Portland . . . . .	-0 10	-0.6	<b>DISTRICT OF COLUMBIA</b>		
Stonington . . . . .	-0 30	+0.2	Washington . . . . .	-3 08	*0.3
<b>NEW HAMPSHIRE</b>			<b>VIRGINIA</b>		
Hampton . . . . .	+0 15	-1.2	Norfolk . . . . .	-1 54	*0.3
<b>MASSACHUSETTS</b>			Virginia Beach . . . . .	-3 14	*0.3
Fall River . . . . .	-3 16	*0.5	<b>NORTH CAROLINA</b>		
Falmouth . . . . .	-0 40	*1.1	Beaufort . . . . .	-2 59	*0.3
Hyannisport . . . . .	+0 45	*0.3	Carolina Beach . . . . .	-3 30	*0.4
Lynn . . . . .	+0 05	-0.2	<b>SOUTH CAROLINA</b>		
Marblehead . . . . .	-0 05	-0.3	Myrtle Beach . . . . .	-3 45	*0.5
Marion . . . . .	-3 16	*0.4	Charleston . . . . .	-3 15	*0.5
Monument Beach . . . . .	-3 06	*0.4	<b>GEORGIA</b>		
Nantasket . . . . .	+0 10	+0.1	St. Simon's Island . . . . .	-2 51	*0.7
Nantucket . . . . .	+0 50	*0.3	Savannah . . . . .	-2 40	*0.8
New Bedford . . . . .	-3 21	*0.4	Tybee Beach . . . . .	-3 26	*0.8
Oak Bluffs . . . . .	+0 05	*0.2	<b>FLORIDA</b>		
Onset . . . . .	-3 06	*0.5	Daytona . . . . .	-3 20	*0.4
Plymouth . . . . .	0 00	+0.1	Fort Lauderdale . . . . .	-2 15	*0.3
Provincetown . . . . .	+0 15	-0.3	Jacksonville . . . . .	-0 40	*0.1
Scituate . . . . .	-0 05	-0.5	Miami . . . . .	-3 00	*0.3
Wellfleet . . . . .	+0 20	+0.6	Palm Beach . . . . .	-3 20	*0.3
Woods Hole . . . . .	-3 01	*0.2	Port Everglades . . . . .	-2 15	*0.3
<b>RHODE ISLAND</b>			St. Augustine . . . . .	-2 20	*0.5
Block Island . . . . .	-3 21	*0.3	St. Petersburg . . . . .	+3 58	*0.2
Narragansett Pier . . . . .	-3 31	*0.4	<b>WASHINGTON</b>		
Newport . . . . .	-3 31	*0.4	Ilwaco . . . . .	+1 44	-3.5
Providence . . . . .	-3 11	*0.5	Port Townsend . . . . .	+5 04	*0.5
Watch Hill . . . . .	-2 06	*0.3	Seattle . . . . .	+5 37	-2.0
<b>CONNECTICUT</b>			<b>OREGON</b>		
Long Island Sound . . . . .	-0 02	*0.7	Astoria . . . . .	+1 37	-3.3
New London . . . . .	-1 47	*0.3	Cape Arago . . . . .	+1 19	-4.8
<b>NEW YORK</b>			Yaquina Head . . . . .	+1 12	-3.7
Coney Island . . . . .	-3 00	*0.5	<b>CALIFORNIA</b>		
Long Beach . . . . .	-3 57	*0.5	Catalina Island . . . . .	-1 33	-5.9
Long Island Sound . . . . .	+0 08	*0.7	Crescent City . . . . .	+0 56	-5.0
New York City . . . . .	-2 50	*0.5	Eureka . . . . .	+1 20	-5.0
Ocean Beach . . . . .	-3 57	*0.4	Long Beach . . . . .	-1 37	-5.5
Southampton . . . . .	-3 22	*0.3	Monterey . . . . .	-0 03	*0.4
<b>NEW JERSEY</b>			Point Mendocino . . . . .	+0 24	*0.4
Atlantic City . . . . .	-3 57	*0.5	San Diego . . . . .	-1 35	-5.9
Bayside . . . . .	-0 24	*0.6	San Francisco . . . . .	+0 59	*0.4
Cape May . . . . .	-3 37	*0.5	Santa Barbara . . . . .	-1 19	-6.0
Ocean City . . . . .	-3 17	*0.4	Santa Cruz . . . . .	+0 08	*0.4
Seabright . . . . .					
to . . . . .	-3 44	*0.5			
Seaside Park . . . . .					

**Example:** The figures for Full Sea in Columns 11 and 12 of the left hand Almanac pages 14-36 are the times of high tide at Commonwealth Pier in Boston Harbor. The heights of these tides are given on the right hand pages 15-37. The heights are reckoned from Mean Low Water: each day has a set of figures—upper for the morning—and lower for the evening. Since Gulf ports are not beset with the tidal problems of ports on the open ocean, the conversion of the times of the tides at Boston to those of Miami is given by way of illustration.

See page 20, column 11.

	<b>BOSTON</b>		<b>MIAMI</b>
High Tide	1.00 P.M.E.S.T.	High tide (Boston)	1.00 P.M.
April 1.		Correction above	-3.00
Height	9.0 feet	High tide (Miami)	10.00 A.M.E.S.T.
		Height (Miami)	2.7 feet
		(8.9 x 0.3)	

## ECLIPSES FOR THE YEAR 1949

In the year 1949 there will be four eclipses, two of the Sun and two of the Moon.

I. A Total Eclipse of the Moon, April 12, 1949. This eclipse will be visible from all points in the United States. The total phase will begin at 10:28 P.M. E.S.T., the middle of the eclipse will occur at 11:11 P.M. E.S.T., and the total phase will end at 11:54 P.M. E.S.T. The beginning of the eclipse will be visible generally in the western part of the Indian Ocean, southwestern Asia, Europe, Africa, the Atlantic Ocean, the Arctic and Antarctic regions, North America, except the northwestern part, South America, and the eastern part of the Pacific Ocean. The ending will be visible generally in the western part of Africa, the extreme southwestern part of Europe, the Atlantic Ocean, the Arctic and Antarctic regions, North America, South America, and the eastern and central parts of the Pacific Ocean.

II. A Partial Eclipse of the Sun, April 28, 1949. This eclipse will be invisible in the United States. It will be visible generally throughout Europe, Western Russia, northern Africa, the North Atlantic Ocean, and from points within the Arctic Circle.

III. A Total Eclipse of the Moon, October 6, 1949. This lunar eclipse will also be visible from all points in the United States. The total phase will begin at 9:19 P.M. E.S.T., middle of the eclipse will be reached at 9:56 P.M. E.S.T., and the end of the total phase will come at 10:33 P.M. E.S.T. The beginning of the eclipse will be visible generally in western Asia, Europe, the western part of the Indian Ocean, Africa, the Atlantic Ocean, the Arctic and Antarctic regions, North America, except the extreme western and northwestern parts, South America, and the extreme southeastern part of the Pacific Ocean. The ending will be visible generally in central and western Europe, western Africa, the Atlantic Ocean, the Arctic and Antarctic regions, North America, South America, and the eastern and central parts of the Pacific Ocean.

IV. A Partial Eclipse of the Sun, October 21, 1949, not visible in the United States. Except for Australia, except the western part, New Zealand and the eastern part of Tasmania, this eclipse will be visible only from the islands and waters of the south Pacific Ocean, including the greater portion of Antarctica.

## OCCULTATIONS OF ALDEBARAN, 1949

No occultations of the bright star Aldebaran (Alpha Tauri) will be visible to observers in the United States during 1949.

## COLD AND MILDER?

Ivan R. Tannenhill, Chief of the Forecasting Division of the Weather Bureau, believes that the United States as a whole may well be at the beginning of a trend toward cooler temperatures. He points out that for the last 60 or 70 years, reaching its peak in the 1930's, this country has been getting warmer and warmer. Mr. Tannenhill says such cycles are the rule in the past with range trends up to 1000 years or more.

Dr. Edward F. Deevey, Jr. of the Yale faculty generally agrees with Mr. Tannenhill, and he is looking for a really cool trend of the long range 1000 years or more type for the whole earth. His predictions are based on his study of pollen deposited in glacial lake bottoms. Dr. Deevey's findings show that there have been four major climactic periods, each characterized by a different kind of forest growth. We are at present in the "oak-chestnut" phase — colder and more moist.

Now as to the other side. Writes John J. O'Neill in the *New York Herald Tribune* and the *Boston Globe* — "not only is the entire Northern Hemisphere getting warmer, but this may be true of the Southern Hemisphere as well" and this is not just "a change in the weather but a climactic change affecting the entire earth."

What is causing the earth to become warmer? Probably, Mr. O'Neill thinks, not a variation in the heat given off by the sun — for there is scarcely a measurable variation in that. The answer may be in radium and uranium or even heavier elements in the earth's crust.

## VENUS, MARS, JUPITER AND SATURN, 1949.

Below are given the times of the rising or setting of the Planets named, on the first, eleventh and twenty-first days of each month. The time of the rising or setting of any one of said Planets between the days named may be found with sufficient accuracy by interpolation. For explanation of keys (used in adjusting times given to your town) see pages 4 and 12 — especially if you live outside New England.

1949		VENUS		Key	MARS		Key	JUPITER		Key	SATURN		Key
		h. m.			h. m.			h. m.			h. m.		
JANUARY	1st	rises	5 18A.M.	O	sets	5 39P.M.	C	rises	7 14A.M.	P	rises	8 48P.M.	F
"	11th	"	5 38A.M.	P	"	5 40P.M.	C	"	6 44A.M.	P	"	8 07P.M.	F
"	21st	"	5 53A.M.	P	"	5 41P.M.	D	"	6 13A.M.	P	"	7 25P.M.	F
FEBRUARY	1st	rises	6 03A.M.	O	sets	5 43P.M.	E	rises	5 39A.M.	O	rises	6 38P.M.	F
"	11th	"	6 06A.M.	N	"	5 45P.M.	F	"	5 08A.M.	O	"	5 55P.M.	F
"	21st	"	6 04A.M.	M	"	5 47P.M.	G	"	4 36A.M.	O	"	5 10P.M.	F
MARCH	1st	rises	5 59A.M.	L	sets	5 48P.M.	G	rises	4 10A.M.	O	sets	6 18A.M.	L
"	11th	"	5 50A.M.	K	sets	5 49P.M.	H	"	3 38A.M.	O	"	5 36A.M.	L
"	21st	"	5 40A.M.	J	rises	5 50A.M.	I	"	3 04A.M.	O	"	4 55A.M.	M
APRIL	1st	rises	5 26A.M.	H	rises	5 25A.M.	H	rises	2 26A.M.	O	sets	4 11A.M.	M
"	11th	rises	5 14A.M.	G	"	5 02A.M.	G	"	1 51A.M.	O	"	3 30A.M.	M
"	21st	sets	6 36P.M.	L	"	4 40A.M.	G	"	1 15A.M.	O	"	2 50A.M.	M
MAY	1st	sets	7 01P.M.	N	rises	4 18A.M.	F	rises	12 38A.M.	O	sets	2 10A.M.	M
"	11th	"	7 25P.M.	O	"	3 58A.M.	E	"	12 01A.M.	O	"	1 31A.M.	M
"	21st	"	7 51P.M.	P	"	3 37A.M.	D	"	11 18P.M.	O	"	12 52A.M.	M
JUNE	1st	sets	8 14P.M.	Q	rises	3 17A.M.	C	rises	10 34P.M.	O	sets	12 10A.M.	M
"	11th	"	8 30P.M.	Q	"	2 59A.M.	C	"	9 53P.M.	O	"	11 29P.M.	M
"	21st	"	8 40P.M.	Q	"	2 43A.M.	B	"	9 12P.M.	O	"	10 51P.M.	L
JULY	1st	sets	8 44P.M.	P	rises	2 29A.M.	B	rises	8 29P.M.	O	sets	10 14P.M.	L
"	11th	"	8 42P.M.	O	"	2 16A.M.	A	rises	7 46P.M.	O	"	9 37P.M.	L
"	21st	"	8 35P.M.	M	"	2 04A.M.	A	sets	4 27A.M.	C	"	9 00P.M.	L
AUGUST	1st	sets	8 23P.M.	L	rises	1 53A.M.	A	sets	3 37A.M.	C	sets	8 20P.M.	L
"	11th	"	8 10P.M.	J	"	1 44A.M.	A	"	2 52A.M.	C	"	7 43P.M.	L
"	21st	"	7 55P.M.	I	"	1 36A.M.	B	"	2 07A.M.	C	"	7 07P.M.	L
SEPTEMBER	1st	sets	7 39P.M.	H	rises	1 28A.M.	B	sets	1 20A.M.	C	sets	6 27P.M.	L
"	11th	"	7 25P.M.	F	"	1 21A.M.	C	"	12 39A.M.	C	rises	4 38A.M.	G
"	21st	"	7 12P.M.	E	"	1 13A.M.	C	"	11 55A.M.	C	"	4 05A.M.	G
OCTOBER	1st	sets	7 02P.M.	D	rises	1 06A.M.	D	sets	11 17A.M.	C	rises	3 32A.M.	G
"	11th	"	6 55P.M.	B	"	12 57A.M.	D	"	10 41A.M.	C	"	2 59A.M.	G
"	21st	"	6 53P.M.	B	"	12 48A.M.	E	"	10 06A.M.	C	"	2 25A.M.	G
NOVEMBER	1st	sets	6 57P.M.	B	rises	12 37A.M.	F	sets	9 29A.M.	C	rises	1 47A.M.	G
"	11th	"	7 05P.M.	B	"	12 26A.M.	F	"	8 57A.M.	C	"	1 12A.M.	G
"	21st	"	7 16P.M.	B	"	12 14A.M.	G	"	8 26A.M.	C	"	12 37A.M.	G
DECEMBER	1st	sets	7 27P.M.	B	rises	12 01A.M.	G	sets	7 56A.M.	C	rises	12 00MD.	G
"	11th	"	7 35P.M.	C	"	11 44P.M.	H	"	7 26A.M.	C	"	11 19P.M.	G
"	21st	"	7 36P.M.	D	"	11 27P.M.	H	"	7 01A.M.	C	"	10 41P.M.	G
"	31st	sets	7 27P.M.	E	rises	11 07P.M.	I	sets	6 32A.M.	D	rises	10 02P.M.	G

## MORNING AND EVENING STARS, 1949

(A Planet is called Morning Star when it is above the horizon at sunrise, and Evening Star when it is above the horizon at sunset. More precisely, it is a Morning Star when it is less than  $180^\circ$  west of the Sun in right ascension and Evening Star when it is less than  $180^\circ$  east. When the planet is near conjunction or opposition, the distinction is unimportant.)

Mercury will be favorably situated for being seen as an Evening Star when near its greatest eastern elongations about January 17, May 10 and September 7. On these dates it will set 1 h. 33 m., 1 h. 52 m., and 1 h. 09 m., respectively, after sunset. It will be seen as Morning Star when near its greatest western elongations, about February 28, June 28 and October 19, on which dates it will rise 1 h. 06 m., 1 h. 13 m., and 1 h. 00 m., respectively, before sunrise.

Venus will grace the hours before sunrise as a Morning Star until April 16, when the planet reaches superior conjunction. During the rest of the year Venus will be an Evening Star and will attain greatest brilliance for the year on December 26.

Mars is an Evening Star until March 17, when it reaches conjunction, and is a Morning Star thereafter for the rest of the year.

Jupiter becomes a Morning Star as the year begins and remains so until July 20, when it reaches opposition. Thereafter, for the rest of the year, it is an Evening Star.

Saturn is a Morning Star at the year's beginning and so continues until February 21. Thence, until September 2, when it comes to conjunction with the sun, it is an Evening Star and thereafter, until the year's close, a Morning Star again.



## CALCULATIONS AND CORRECTIONS

### IF YOU LIVE OUTSIDE NEW ENGLAND

(For New England — See Page Four)

Times obtained for a place other than Boston by the conversions described below will in every case be in the Standard Time of the time zone in which the place lies. Some States by State ordinance do not observe Standard Time during the whole or part of the year. To obtain the time in everyday use in those States during the period such State ordinances are in effect one hour should be added to the time derived by conversion. The times used herein are Eastern Standard Time. To compensate for Daylight Saving Time in those States or Cities which adopt it by local ordinance, add one hour.

A direct reading of the figures on the Almanac pages gives information that applies precisely and solely to Boston. The examples which follow interpret the significance of this information and illustrate the way to get the same information for a place outside New England, such as Dallas. The date, April 11, used for the purpose of the illustrations, has been chosen at random.

**Sunrise and Sunset.** The times of sunrise and sunset at Boston on April 11 are read directly from columns 4 and 6 on page 20. The key letters adjacent to these times, in columns 5 and 7, are indices to the table on page 12 whereby the times of sunrise and sunset at Boston are converted into those for other key cities, to wit:—

BOSTON			DALLAS		
Sunrise	5:10	A.M.E.S.T.	Sunrise (Boston)	5:10	A.M.E.S.T.
Key Letter		G	Correction (Column G, page 12)	+ :52	
			<hr/>		
			Sunrise (Dallas)	6:02	A.M.C.S.T.
Sunset	6:22	P.M.E.S.T.	Sunset (Boston)	6:22	P.M.E.S.T.
Key letter		K	Correction (Column K, page 12)	+ :35	
			<hr/>		
			Sunset (Dallas)	6:57	P.M.C.S.T.

**Dawn and Dark.** The approximate times dawn will break and dark descend are found by applying the length of twilight taken from the table on page 93 to the times of sunrise and sunset given on the calendar pages. The latitude of the locality determines the column of the table from which the length of twilight is to be selected.

BOSTON			DALLAS		
(Latitude 42° 22' N.)			(Latitude 32° 48' N.)		
Sunrise	5:10	A.M.	Sunrise	6:02	A.M.
Subtract length of twilight (Column 4 of table)		1:39	Subtract length of twilight (Column 4 of table)	1:28	
			<hr/>		
Dawn breaks	3:31	A.M.E.S.T.	Dawn breaks	4:34	A.M.C.S.T.
Sunset	6:22	P.M.	Sunset	6:57	P.M.
Add length of twilight		1:39	Add length of twilight	1:28	
			<hr/>		
Dark descends	8:01	P.M.E.S.T.	Dark descends	8:25	P.M.C.S.T.

**Sun Fast.** The column headed "Sun Fast" is of primary use to sundial enthusiasts. The figures therein tell how fast on each day the time indicated by a *properly adjusted and graduated* sundial will be of the time indicated by a clock. On April 11 sun time in Boston will be 15 minutes Fast of Eastern Standard Time. The time indicated by a sundial located elsewhere than in Boston is converted to clock time by applying two corrections, the "Sun Fast" correction for Boston and that for the locality given in Column I of the table on page 12.

BOSTON			DALLAS		
Sundial time	2:34	P.M.	Sundial time	9:17	A.M.
Sun fast		- :15	Sun fast		- :15
			<hr/>		
Eastern Standard Time	2:19	P.M.	Correction (Column I, page 12)	+ :43	
			<hr/>		
			Central Standard Time	9:45	A.M.

**Length of Day.** The figures in the column headed "Length of Day" give directly the length of time the Sun will be above the horizon at Boston. The length of day in other localities is found by subtracting the time of sunrise from that of sunset for each locality. (See *Sunrise and Sunset* above).

BOSTON		DALLAS	
Length of day	13h 12m	Sunset	6:57 P.M.
(From calendar pages)		Sunrise	6:02 A.M.
		Length of Day	12h 55m

**Moonrise and Moonset.** The procedure for finding the times of moonrise and moonset follows that for finding those of sunrise and sunset except that, for localities outside New England, the constant additional correction taken from Column **J** on page 12 must be applied.

BOSTON		DALLAS	
Moonset	4:34 A.M., E.S.T.	Moonset (Boston)	4:34 A.M.
Key letter	J	Correction (Column J, page 12)	+ :38
		Correction (Column <b>J</b> , page 12)	+ :04
		Moonset (Dallas)	5:16 A.M., C.S.T.

**Moon Souths.** The time the moon souths in Boston is converted to the time it is due south in a locality other than Boston by applying the appropriate corrections from Columns I and **J** on page 12.

BOSTON		DALLAS	
Moon souths	10:55 P.M.E.S.T.	Moon souths (Boston)	10:55 P.M.
		Correction (Column I, page 12)	+ :43
		Correction (Column <b>J</b> , page 12)	+ :04
		Moon souths (Dallas)	11:42 P.M., C.S.T.

The other information concerning the Moon contained on the left hand Almanac pages applies without correction throughout the United States.

**Risings and Settings of the Planets.** The times of the rising and setting of the naked eye Planets with the exception of Mercury are given for Boston in the table on page 9. The procedure for converting these times to those of other localities follows that for converting the times of sunrise and sunset given above.

**Planetary Aspects.** The planetary aspects indicated by the symbols and abbreviations on the right hand Almanac pages 15-37, are explained on pages 4, 76 and 77.

TIDES: See page 7.

## WEATHER OUTSIDE NEW ENGLAND

Barring Easterlies and Tropical Storms it may be said that readers of the Almanac living outside of New England and West of the Hudson will experience much the same changes in the weather as those indicated herein . . . provided one day is subtracted for each Time Zone West of Boston.

ALMANAC DATA — OUTSIDE NEW ENGLAND  
 TABLE FOR FINDING TIMES OF SUNRISE, SUNSET, MOONRISE, MOONSET, MOONSET, AND RISING AND SETTING  
 OF PLANETS TO WITHIN 5 MIN. ACCURACY ANYWHERE IN U. S. A.

(See explanation on preceding pages 10 and 11.)

Your town (interpolate between nearest two). SUBTRACT OR ADD these MINUTES to Almanac times given.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	☾
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Atlanta, Ga.....	+22	+18	+15	+11	+8	+5	+1	-2	-6	-11	-14	-18	-21	-25	-28	-31	-35	+2
Butte, Mont.....	+31	+33	+35	+37	+39	+41	+42	+44	+46	+48	+50	+52	+54	+56	+58	+60	+62	+6
Charleston, W. Va.....	+57	+55	+53	+51	+50	+48	+46	+45	+42	+40	+39	+37	+35	+33	+32	+30	+28	+2
Chicago, Ill.....	+8	+8	+8	+7	+7	+7	+7	+6	+6	+6	+5	+5	+5	+5	+4	+4	+4	+2
Cincinnati, O.....	+66	+64	+63	+61	+60	+59	+57	+56	+54	+52	+51	+49	+47	+46	+45	+44	+42	+2
Dallas, Tex.....	+74	+70	+66	+63	+59	+56	+52	+48	+43	+38	+35	+31	+27	+23	+19	+16	+12	+4
Denver, Colo.....	+26	+24	+23	+22	+21	+20	+19	+17	+16	+14	+13	+12	+11	+9	+8	+7	+6	+5
Des Moines, Ia.....	+34	+33	+33	+33	+32	+32	+32	+31	+31	+30	+30	+29	+29	+29	+28	+28	+28	+3
Detroit, Mich.....	+48	+48	+48	+48	+48	+48	+48	+48	+48	+48	+48	+48	+48	+48	+48	+48	+48	+2
Indianapolis, Ind.....	+10	+9	+8	+6	+5	+4	+3	+2	+1	-1	-2	-3	-4	-5	-6	-7	-8	+2
Jacksonville, Fla.....	+80	+76	+71	+67	+62	+58	+53	+48	+43	+37	+32	+27	+23	+18	+14	+9	+5	+2
Los Angeles, Cal.....	+36	+33	+29	+26	+23	+20	+16	+13	+9	+5	+1	-2	-5	-9	-12	-15	-19	+7
Louisville, Ky.....	+13	+11	+10	+8	+6	+5	+3	+1	-1	-3	-5	-7	-8	-10	-12	-14	-16	+2
Miami, Fla.....	+86	+80	+74	+69	+63	+57	+51	+44	+37	+30	+23	+17	+11	+5	-1	-7	-12	+1
Minneapolis-St. Paul, Minn.....	+18	+19	+21	+22	+23	+25	+26	+27	+29	+30	+32	+33	+34	+36	+37	+38	+39	+3
New Orleans, La.....	+57	+53	+48	+43	+38	+33	+28	+22	+16	+10	+5	-1	-6	-9	-15	-20	-25	+3
New York, N. Y.....	+17	+17	+16	+15	+15	+14	+13	+13	+12	+11	+10	+10	+9	+8	+8	+7	+6	0
Omaha, Neb.....	+44	+43	+43	+42	+42	+41	+41	+40	+40	+39	+39	+38	+38	+37	+37	+36	+35	+4
Philadelphia, Pa.....	+25	+24	+23	+22	+21	+20	+19	+18	+17	+15	+14	+13	+12	+11	+10	+9	+8	+1
Pittsburgh, Pa.....	+43	+42	+41	+41	+40	+39	+38	+37	+36	+35	+34	+33	+32	+31	+31	+30	+29	+1
Raleigh, N. C.....	+53	+50	+47	+45	+42	+40	+37	+34	+31	+27	+24	+22	+19	+16	+14	+11	+8	+1
Richmond, Va.....	+42	+40	+38	+36	+34	+32	+30	+28	+26	+23	+21	+19	+17	+15	+13	+11	+9	+1
Rochester, N. Y.....	+23	+24	+24	+25	+25	+25	+26	+26	+26	+27	+27	+28	+28	+28	+28	+29	+29	+1
St. Louis, Mo.....	+30	+28	+27	+25	+24	+22	+20	+19	+17	+15	+13	+11	+10	+8	+7	+5	+3	+8
Seattle, Wash.....	+4	+7	+9	+12	+14	+17	+20	+23	+25	+28	+31	+34	+37	+39	+42	+45	+48	+3
Topeka, Kans.....	+51	+49	+48	+46	+45	+44	+42	+41	+39	+37	+36	+34	+33	+31	+30	+29	+27	+4

# MID-SUMMER PREDICTION!

Slowly rising thirsts beginning in May, continuing through September, and reaching peaks on torrid week-ends—offset by tall, cool glasses of Clicquot Club beverages.

*Economy note*—always ask for Clicquot Club. You get more for your money in the *bonest* full quart bottle—32 ounces instead of the 28 in some so-called “big” bottles. It’s delicious!

**AN EXTRA DRINK  
IN EVERY BOTTLE!**



**Clicquot Club**  
the “flavor-aged” ginger ale

COLA

ROOT BEER

SPARKLING WATER

*and other popular flavors*

**CLICQUOT CLUB COMPANY**

MILLIS, MASS.



1949] JANUARY, FIRST MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	23	00	7	22 21	13	21 27	19	20 18	25	18 55					
2	22	54	8	22 13	14	21 16	20	20 05	26	18 40						
3	22	49	9	22 05	15	21 05	21	19 52	27	18 24						
4	22	42	10	21 56	16	20 54	22	19 38	28	18 09						
5	22	36	11	21 47	17	20 42	23	19 24	29	17 53						
6	22	29	12	21 37	18	20 30	24	19 10	30	17 36						

- ☽ First Quarter, 7th day, 6h. 51 m., morning, E.
- ☾ Full Moon, 14th day, 4 h. 49 m., evening, E.
- ☾ Last Quarter, 21st day, 9 h. 07 m., morning, W.
- New Moon, 28th day, 9 h. 42 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☼ Rises		Key	☽ Sets		Key	Length of Days		Sun East	Full Sea, Boston		☽ Sets	Key	☽ Souths.		☽'s Place	Moon's Age
			h.	m.		h.	m.		h.	m.		h.	m.			h.	m.		
1	1	Sa.	7	13	P	4	23	B	9	10	12	0 $\frac{1}{4}$	0 $\frac{1}{4}$	6 $\frac{P}{M}$ 31	C	1 $\frac{P}{M}$ 50	Aqr	2	
2	2	S	7	13	P	4	24	B	9	11	12	1	1	7 37	D	2 37	Aqr	3	
3	3	M.	7	13	P	4	25	B	9	12	11	1 $\frac{3}{4}$	1 $\frac{3}{4}$	8 40	F	3 21	Psc	4	
4	4	Tu.	7	13	P	4	26	B	9	12	11	2 $\frac{1}{2}$	2 $\frac{1}{2}$	9 42	G	4 02	Psc	5	
5	5	W.	7	13	P	4	27	B	9	13	10	3 $\frac{1}{4}$	3 $\frac{1}{4}$	10 43	I	4 41	Psc	6	
6	6	Th.	7	13	P	4	28	B	9	15	10	4	4 $\frac{1}{4}$	11 $\frac{P}{M}$ 44	H	5 20	Ari	8	
7	7	Fr.	7	13	P	4	29	C	9	16	9	4 $\frac{3}{4}$	5	—	—	6 00	Ari	9	
8	8	Sa.	7	13	O	4	30	C	9	17	9	5 $\frac{1}{2}$	6	12 $\frac{A}{M}$ 46	L	6 42	Tau	10	
9	9	S	7	13	O	4	31	C	9	18	8	6 $\frac{1}{4}$	6 $\frac{3}{4}$	1 50	M	7 27	Tau	11	
10	10	M.	7	12	O	4	32	C	9	20	8	7 $\frac{1}{4}$	7 $\frac{3}{4}$	2 58	O	8 16	G'm	12	
11	11	Tu.	7	12	O	4	33	C	9	21	8	8	8 $\frac{3}{4}$	4 08	Q	9 11	G'm	13	
12	12	W.	7	12	O	4	34	C	9	22	7	8 $\frac{3}{4}$	9 $\frac{1}{2}$	5 19	Q	10 11	G'm	14	
13	13	Th.	7	11	O	4	35	C	9	24	7	9 $\frac{3}{4}$	10 $\frac{1}{4}$	6 $\frac{A}{M}$ 25	Q	11 $\frac{P}{M}$ 13	Cnc	15	
14	14	Fr.	7	11	O	4	36	C	9	25	7	10 $\frac{1}{2}$	11	rises	—	—	—	—	
15	15	Sa.	7	11	O	4	37	C	9	27	6	11 $\frac{1}{4}$	—	5 $\frac{P}{M}$ 28	B	12 $\frac{A}{M}$ 15	Cnc	16	
16	16	S	7	10	O	4	38	C	9	28	6	0	0	6 49	D	1 16	Leo	17	
17	17	M.	7	10	O	4	40	C	9	30	6	0 $\frac{3}{4}$	1	8 09	F	2 12	Leo	18	
18	18	Tu.	7	09	O	4	41	C	9	32	5	1 $\frac{1}{2}$	1 $\frac{3}{4}$	9 27	H	3 05	Vir	19	
19	19	W.	7	08	O	4	42	C	9	34	5	2 $\frac{1}{4}$	2 $\frac{3}{4}$	10 42	J	3 54	Vir	20	
20	20	Th.	7	08	O	4	43	C	9	36	5	3 $\frac{1}{4}$	3 $\frac{1}{2}$	11 $\frac{P}{M}$ 56	K	4 43	Lib	21	
21	21	Fr.	7	07	O	4	45	C	9	37	4	4 $\frac{1}{4}$	4 $\frac{1}{2}$	—	—	5 31	Lib	22	
22	22	Sa.	7	06	O	4	46	D	9	39	4	5	5 $\frac{3}{4}$	1 $\frac{A}{M}$ 10	M	6 20	Sco	23	
23	23	S	7	06	O	4	47	D	9	41	4	6	6 $\frac{3}{4}$	2 24	O	7 12	Sco	24	
24	24	M.	7	05	N	4	48	D	9	43	4	7	7 $\frac{3}{4}$	3 36	P	8 06	Sag	25	
25	25	Tu.	7	04	N	4	49	D	9	45	3	8	8 $\frac{3}{4}$	4 43	P	9 01	Sag	26	
26	26	W.	7	03	N	4	51	D	9	47	3	9	9 $\frac{3}{4}$	5 42	P	9 57	Cap	27	
27	27	Th.	7	03	N	4	52	D	9	49	3	9 $\frac{3}{4}$	10 $\frac{1}{2}$	6 $\frac{A}{M}$ 34	P	10 52	Cap	28	
28	28	Fr.	7	02	N	4	53	D	9	52	3	10 $\frac{1}{2}$	11 $\frac{1}{4}$	sets	—	11 $\frac{A}{M}$ 43	Aqr	29	
29	29	Sa.	7	01	N	4	55	D	9	54	2	11 $\frac{1}{4}$	—	5 $\frac{P}{M}$ 24	D	12 $\frac{P}{M}$ 31	Aqr	1	
30	30	S	7	00	N	4	56	D	9	56	2	0	0	6 29	E	1 16	Aqr	2	
31	31	M.	6	59	N	4	57	D	9	59	2	0 $\frac{1}{2}$	0 $\frac{3}{4}$	7 $\frac{P}{M}$ 32	G	1 $\frac{P}{M}$ 58	Psc	3	



JANUARY hath 31 days.

1949



The enormous death of day,  
Laid out upon the hills,  
The eye has brought away, —  
The eye that nothing fills,  
Not the vast curving sky

That bends above the old  
Day that is stretched to die  
— That scarce the hills can hold —  
On a quarter inch of eye,

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Sa.	Circumcision. Tides { 8.8	Cold,
2	B	UN Pact sgd 1942 (26 nations)	Tides { 8.7
3	M.	⊕ in 1st U.S. Bldg & Silk 1st mfd	{ 8.6 snow
4	Tu.	Europe 536 A.D.	Tides { 9.4
5	W.	□ Ψ ⊙ in Twelfth	Tides { 8.5
6	Th.	⊕ Apo on Night	Tides { 8.7
7	Fr.	⊕ Epiph. on Tides { 8.4	flurries.
8	Sa.	⊕ Eq. Tides { 8.3	
9	B	Gen. Israel Putnam b. 1718	Tides { 8.4
10	M.	Wilson's 14 pts. Given Cong. 1918	{ 8.5 Storm
11	Tu.	1st S. af. Epi. Brooklyn Tronado 1889	{ 8.7
12	W.	Plough Monday Radar Moon Contact 1946	{ 7.7
13	Th.	Fast of Teveth Tides { 9.3	expected.
14	Fr.	⊕ John Hancock b. 1737	Tides { 8.0
15	Sa.	⊕ Runs George Fox D. 1690	{ 9.7 Mild
16	B	St. Hillary. Coldest in year 11th-25th	{ 8.2
17	M.	Vermont Independent since 1777	{ 10.1 for
18	Tu.	2d S. a. Ep. Ψ Stat in R.A. in	{ 10.5 the
19	W.	⊕ Gr. Hel. Lat. S. ♂ ♀ Gr. El. E.	{ 9.0 season.
20	Th.	Scott at So. Pole 1912	Feed the birds now
21	Fr.	♀ in ♂ on Hol Eq. South	Tides { 9.9
22	Sa.	♂ Ψ Inaugural Day	Hol. D. C. snow
23	B	Cutter President of N.H. 1680	Tides { 10.0 now.
24	M.	Many chimney fires now	Tides { 9.4
25	Tu.	3rd S. af. Eph. Tides { 9.8	The
26	W.	♀ in Stat. ♀ in R.A. ♀ in ♂	{ 8.5
27	Th.	Conversion If clear betides St. Paul a happy year	{ 9.8 Jan-uary
28	Fr.	♂ ♀ ♀ rides 40 Pleiades low Photo 1886	{ 8.3
29	Sa.	♂ ♀ ♀ Tides { 9.9	thaw.
30	B	Burma Indep. 1947	Tides { 8.4
31	M.	♂ ♀ ♀ Tides { 10.0	Real
		Orville Wright d. 1948 (30th)	{ 8.6
		Chas. I behad.	Tides { 9.9
		Ghandi Assas 1948	Tides { 8.7
			{ 9.8 cold.

You will have more time to think things out this month than any other. There will be pencil work and taxes and planning for the farm year, but there should be, too, a kind of general stock-taking in your mind as to the whole business of farming these days.

It's a fact that when this country was young almost every man was a farmer. It's a fact that to-day only about one fifth of our total population are farmers. And it's a bitter fact, when you come to think on it, that the city-dwellers and the non-farmers in this country get ninety per cent of their necessary farm products from one half of our farmers—only ten per cent from the other half.

Look at it as you will, it means there are too many farmers, or, as in any other occupation, too many failures. But does that mean then a man hasn't the right to be a farmer, just as his Dad and Grandad—or Great-great-grandad—before him? Does it mean he hasn't the right to live on marginal lands and never know a year's prosperity or security or any modern convenience or comfort?—That he hasn't the right to senseless toil and poverty? Does it? Or can this nation's economy afford to waste land and any man's energy?

These are the things that you as a farmer might ask yourself. And perhaps from them you will sprout long, long thoughts. May they be constructive.

1949]

FEBRUARY, SECOND MONTH.

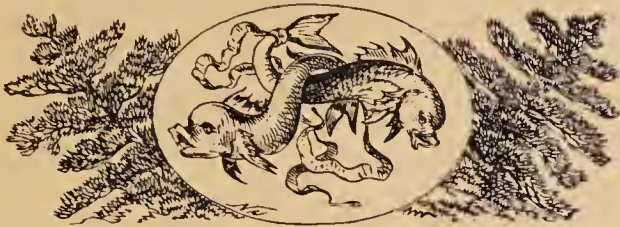
ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
1	17s.	03		7	15	15	13	13	17	19	11	12	25	9	01
2	16	45		8	14	56	14	12	57	20	10	51	26	8	39
3	16	28		9	14	36	15	12	36	21	10	29	27	8	16
4	16	10	10	14	17	16	12	16	22	10	07	28	7	53	
5	15	52		11	13	57	17	11	55	23	9	45			
6	15	33		12	13	37	18	11	33	24	9	23			

- ☽ First Quarter, 6th day, 3 h. 05 m., morning, W.
- ☾ Full Moon, 13th day, 4 h. 08 m., morning, W.
- ☾ Last Quarter, 19th day, 7 h. 43 m., evening, E.
- New Moon, 27th day, 3 h. 55 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉ Rises		Key	☉ Sets		Key	Length of Days		Sun Fast	Full Sea, Boston		☽ Sets	Key	☽ Souths.	☽'s Place	Moon's AGE		
			h.	m.		h.	m.		h.	m.		Morn	Even						h.	m.
32	1	Tu.	6	58	N	4	59	D	10	01	2	1 $\frac{1}{4}$	1 $\frac{1}{4}$	8 $\frac{P}{M}$ 33	H	2 $\frac{P}{M}$ 38	Psc	4		
33	2	W.	6	57	M	5	00	E	10	03	2	1 $\frac{3}{4}$	2	9	33	J	3	17	Ari	5
34	3	Th.	6	56	M	5	01	E	10	06	2	2 $\frac{1}{2}$	2 $\frac{3}{4}$	10	34	K	3	56	Ari	6
35	4	Fr.	6	54	M	5	03	E	10	08	2	3 $\frac{1}{4}$	3 $\frac{1}{2}$	11 $\frac{P}{M}$ 37	M	4	36	Ari	7	
36	5	Sa.	6	53	M	5	04	E	10	11	2	4	4 $\frac{1}{4}$	—	—	—	5	19	Tau	8
37	6	S.	6	52	M	5	05	E	10	13	2	4 $\frac{3}{4}$	5 $\frac{1}{4}$	12 $\frac{A}{M}$ 41	N	6	05	Tau	9	
38	7	M.	6	51	M	5	06	E	10	15	1	5 $\frac{1}{2}$	6 $\frac{1}{4}$	1	49	P	6	56	G'm	10
39	8	Tu.	6	50	M	5	08	E	10	18	1	6 $\frac{1}{2}$	7 $\frac{1}{4}$	2	58	Q	7	52	G'm	11
40	9	W.	6	49	M	5	09	E	10	21	1	7 $\frac{1}{2}$	8	4	05	Q	8	52	Cnc	12
41	10	Th.	6	47	M	5	10	E	10	23	1	8 $\frac{1}{4}$	9	5	07	Q	9	54	Cnc	13
42	11	Fr.	6	46	M	5	12	E	10	26	1	9 $\frac{1}{4}$	10	5	59	Q	10	56	Leo	14
43	12	Sa.	6	45	L	5	13	F	10	28	1	10 $\frac{1}{4}$	10 $\frac{3}{4}$	6 $\frac{M}{M}$ 42	P	11 $\frac{P}{M}$ 55	Leo	15		
44	13	S.	6	43	L	5	14	F	10	31	1	11	11 $\frac{1}{2}$	rises	—	—	—	—	—	—
45	14	M.	6	42	L	5	16	F	10	34	1	11 $\frac{3}{4}$	—	7 $\frac{P}{M}$ 04	G	12 $\frac{A}{M}$ 51	Vir	16		
46	15	Tu.	6	41	L	5	17	F	10	36	1	0 $\frac{3}{4}$	0 $\frac{3}{4}$	8	23	I	1	44	Vir	17
47	16	W.	6	39	L	5	18	F	10	39	2	1 $\frac{1}{4}$	1 $\frac{1}{2}$	9	41	K	2	35	Lib	18
48	17	Th.	6	38	L	5	19	F	10	42	2	2	2 $\frac{1}{2}$	10 $\frac{P}{M}$ 57	M	3	25	Lib	19	
49	18	Fr.	6	36	L	5	21	F	10	44	2	2 $\frac{3}{4}$	3 $\frac{1}{4}$	—	—	—	4	15	Scor	20
50	19	Sa.	6	35	L	5	22	F	10	47	2	3 $\frac{3}{4}$	4 $\frac{1}{4}$	12 $\frac{A}{M}$ 14	N	5	07	Scor	21	
51	20	S.	6	33	L	5	23	F	10	50	2	4 $\frac{3}{4}$	5 $\frac{1}{4}$	1	28	P	6	01	Sag	22
52	21	M.	6	32	L	5	25	F	10	53	2	5 $\frac{3}{4}$	6 $\frac{1}{2}$	2	38	P	6	57	Sag	23
53	22	Tu.	6	30	K	5	26	G	10	55	2	6 $\frac{3}{4}$	7 $\frac{1}{2}$	3	40	P	7	53	Cap	24
54	23	W.	6	29	K	5	27	G	10	58	2	7 $\frac{3}{4}$	8 $\frac{1}{2}$	4	32	P	8	47	Cap	25
55	24	Th.	6	27	K	5	28	G	11	01	2	8 $\frac{3}{4}$	9 $\frac{1}{2}$	5	15	P	9	40	Cap	26
56	25	Fr.	6	26	K	5	30	G	11	04	3	9 $\frac{1}{2}$	10 $\frac{1}{4}$	5	49	P	10	28	Aqr	28
57	26	Sa.	6	24	K	5	31	G	11	07	3	10 $\frac{1}{4}$	10 $\frac{3}{4}$	6 $\frac{M}{M}$ 16	N	11	14	Aqr	29	
58	27	S.	6	23	K	5	32	G	11	09	3	11	11 $\frac{1}{2}$	sets	—	—	11 $\frac{A}{M}$ 56	Psc	30	
59	28	M.	6	21	K	5	33	G	11	12	3	11 $\frac{3}{4}$	—	6 $\frac{P}{M}$ 24	H	12 $\frac{P}{M}$ 37	Psc	1		



The curved print of the hoof,  
On the green turf,  
Will be a scar,  
And that will stay, a proof  
Of how things were — and are

O, there will be wind-flowers,  
Edging with blue  
The curve, come spring,  
But the new delicate hours  
Will not erase this thing,

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Tu.	St. Bridget. ☾ In Apo. Tides {8.9	<i>The</i>
2	W.	Purif. of Mary ♂ ♀ ☉ ☾ on {8.9	all evening in your stove.
3	Th.	♀ Gr. Hel. Tides {8.9 [2nd Groundhog Day	Thus will your old orchard bless you twice.
4	Fr.	Manila recapt. 1945 Tides {8.8 north wind	
5	Sa.	Lancaster Massacre 1676 Tides {8.7 bloweth.	
6	B	5th S a. Ep. Set Tides {8.7	Why not put your leisure to work (if you can call it work) catching up on those seed catalogues? With them you could read yourself right through till spring, and though the Garden of Eden with a corps of old Scotch gardeners would scarce produce the yield of this never-never land, the seed catalogue, yet are we not all the better now and then for a taste of golden fruit? That is your luxury tonight by the apple wood fire. Read largely then, but order narrowly.
7	M.	22° below at your Kingst. R.I. 1934 hens {8.7	<i>Perhaps</i>
8	Tu.	Am. Boy Scouts no w Tides {8.9	and though the Garden of Eden with a corps of old Scotch gardeners would scarce produce the yield of this never-never land, the seed catalogue, yet are we not all the better now and then for a taste of golden fruit? That is your luxury tonight by the apple wood fire. Read largely then, but order narrowly.
9	W.	♂ ☽ ☾ Runs 18° below {9.3	
10	Th.	♂ ♀ ♀ ☾ Tides {9.7	<i>milder.</i>
11	Fr.	♂ in Thos. Edison b. 1848 {10.3	<i>Plenty</i>
12	Sa.	Lincoln's Birthday Tides {9.5	<i>of real</i>
13	B	Septuag. S. ♂ h ☾ Tides {11.2	<i>bad</i>
14	M.	St. Val. ♂ Stat. in R.A. ☾ in Hol. Ariz. {11.4	
15	Tu.	☾ on 18° below Boston 1817 {10.5	<i>weather.</i>
16	W.	♂ ♀ ☾ Record cold 1934 & 1943 Tides {10.7	
17	Th.	Auld Decr "Worst in year" Tides {10.5	<i>Button</i>
18	Fr.	de Valera "out" 1948 Tides {10.5	<i>up</i>
19	Sa.	Tornadoes in South, 1884 Tides {10.2	<i>your</i>
20	B	Serag. S. Tides {9.8	<i>overcoat.</i>
21	M.	♂ h ☉ Blizzard of 1802 Tides {9.5	
22	Tu.	♂ rides Washington's low Birthday Tides {9.3	<i>Snow,</i>
23	W.	♂ ♀ ☾ 1948 broke Blue Hill snow fall record 111.5 in. {9.2	
24	Th.	St. Matthias Tides {9.3	<i>rain,</i>
25	Fr.	♂ ♀ ☾ Colt six shooter pat. 1836 Tides {9.4	
26	Sa.	♂ ♀ ☾ ♀ in ♂ Arago b. 1786 {9.5	<i>and</i>
27	B	Quin. S. (Shrove) ♂ ♂ ☾ {9.6	
28	M.	♀ Gr. El. W. ♀ Aph. Tides {9.6	<i>ice.</i>

The Northwest Wind never dled in debt to a So-easter

doubled the productivity of that pasture.



1949]

## MARCH, THIRD MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /																																												
	1	7s. 31	7	5 12	13	2 51	19	0 29	25	-1 53	2	7 08	8	4 49	14	2 27	20	0s. 05	26	2 17	3	6 45	9	4 25	15	2 04	21	0N. 19	27	2 40	4	6 22	10	4 02	16	1 40	22	0 42	28	3 04	5	5 58	11	3 38	17	1 16	23	1 06	29	3 27	6	5 35	12	3 15	18	0 52	24	1 30	30

☽ First Quarter, 7th day, 7 h. 42 m., evening, W.

☾ Full Moon, 14th day, 2 h. 03 m., evening, E.

☾ Last Quarter, 21st day, 8 h. 10 m., morning, W.

● New Moon, 29th day, 10 h. 11 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉ Rises.		Key	☉ Sets.		Key	Length of Days.	Sun Fast	Full Sea, Boston		☽ Sets.	Key	☽ Souths.		☽'s Place	Moon's Age
			h.	m.		h.	m.				Morn.	Even.			h.	m.		
60	1	Tu.	6 20	K	5 34	G	11 15	3	0	0 $\frac{1}{4}$	7 $\frac{P}{M}$ 25	I	1 $\frac{P}{M}$ 16	Ari	2			
61	2	W.	6 18	K	5 36	G	11 18	3	0 $\frac{3}{4}$	1 $\frac{1}{4}$	8 26	K	1 55	Ari	3			
62	3	Th.	6 16	K	5 37	G	11 20	4	1 $\frac{1}{4}$	1 $\frac{1}{2}$	9 27	L	2 34	Ari	4			
63	4	Fr.	6 15	J	5 38	H	11 23	4	1 $\frac{1}{4}$	3 $\frac{3}{4}$	10 31	N	3 16	Tau	5			
64	5	Sa.	6 13	J	5 39	H	11 26	4	2 $\frac{1}{2}$	3	11 $\frac{P}{M}$ 37	P	4 00	Tau	6			
65	6	S.	6 12	J	5 40	H	11 29	4	3 $\frac{1}{4}$	3 $\frac{3}{4}$	—	—	4 48	G'm	7			
66	7	M.	6 10	J	5 42	H	11 32	5	4	4 $\frac{1}{2}$	12 $\frac{A}{M}$ 44	Q	5 41	G'm	8			
67	8	Tu.	6 08	J	5 43	H	11 35	5	5	5 $\frac{1}{2}$	1 50	Q	6 37	G'm	9			
68	9	W.	6 06	J	5 44	H	11 38	5	6	6 $\frac{3}{4}$	2 53	Q	7 36	Cnc	10			
69	10	Th.	6 05	J	5 45	H	11 40	5	7	7 $\frac{3}{4}$	3 48	Q	8 37	Cnc	11			
70	11	Fr.	6 03	J	5 46	H	11 43	6	8	8 $\frac{1}{2}$	4 33	Q	9 36	Leo	12			
71	12	Sa.	6 01	J	5 47	H	11 46	6	9	9 $\frac{1}{2}$	5 10	O	10 33	Leo	13			
72	13	S.	6 00	J	5 49	H	11 49	6	9 $\frac{3}{4}$	10 $\frac{1}{4}$	5 $\frac{A}{M}$ 42	M	11 $\frac{P}{M}$ 27	Vir	14			
73	14	M.	5 58	J	5 50	H	11 52	6	10 $\frac{3}{4}$	11	rises	—	—	—	—			
74	15	Tu.	5 56	I	5 51	I	11 55	7	11 $\frac{1}{2}$	—	7 $\frac{P}{M}$ 13	J	12 $\frac{A}{M}$ 19	Lib	15			
75	16	W.	5 55	I	5 52	I	11 58	7	0	0 $\frac{1}{4}$	8 34	L	1 11	Lib	16			
76	17	Th.	5 53	I	5 53	I	12 00	7	0 $\frac{3}{4}$	1 $\frac{1}{4}$	9 53	N	2 03	Scor	17			
77	18	Fr.	5 51	I	5 54	I	12 03	8	1 $\frac{1}{2}$	2	11 $\frac{P}{M}$ 12	P	2 57	Scor	18			
78	19	Sa.	5 49	I	5 56	I	12 06	8	2 $\frac{1}{4}$	3	—	—	3 52	Sag	19			
79	20	S.	5 48	I	5 57	I	12 09	8	3 $\frac{1}{4}$	4	12 $\frac{A}{M}$ 26	P	4 49	Sag	21			
80	21	M.	5 46	I	5 58	I	12 12	8	4 $\frac{1}{4}$	5	1 33	P	5 47	Sag	22			
81	22	Tu.	5 44	I	5 59	I	12 15	9	5 $\frac{1}{4}$	6	2 30	P	6 43	Cap	23			
82	23	W.	5 42	I	6 00	I	12 18	9	6 $\frac{1}{4}$	7 $\frac{1}{4}$	3 16	P	7 36	Cap	24			
83	24	Th.	5 41	I	6 01	I	12 21	9	7 $\frac{1}{2}$	8 $\frac{1}{4}$	3 52	P	8 26	Aqr	25			
84	25	Fr.	5 39	H	6 02	J	12 23	10	8 $\frac{1}{4}$	9	4 21	O	9 12	Aqr	26			
85	26	Sa.	5 37	H	6 04	J	12 26	10	9 $\frac{1}{4}$	9 $\frac{3}{4}$	4 45	M	9 55	Psc	27			
86	27	S.	5 35	H	6 05	J	12 29	10	10	10 $\frac{1}{4}$	5 05	K	10 36	Psc	28			
87	28	M.	5 34	H	6 06	J	12 32	11	10 $\frac{1}{2}$	11	5 $\frac{A}{M}$ 24	J	11 15	Psc	29			
88	29	Tu.	5 32	H	6 07	J	12 35	11	11 $\frac{1}{4}$	11 $\frac{1}{2}$	sets	—	11 $\frac{A}{M}$ 54	Ari	0			
89	30	W.	5 30	H	6 08	J	12 38	11	11 $\frac{3}{4}$	—	7 $\frac{P}{M}$ 20	L	12 $\frac{P}{M}$ 34	Ari	1			
90	31	Th.	5 28	H	6 09	J	12 41	12	0	0 $\frac{1}{2}$	8 $\frac{P}{M}$ 23	M	1 $\frac{P}{M}$ 15	Tau	2			

MARCH hath 31 days.

[1949



The straight ray of the sun  
Is a deed done:  
Clean, and a thing to trust,  
Hard at the earth's crust,

It strikes, it pierces quite  
To the earth's night,  
Plunging the close dark,  
To find its mark:

The small, the trusting seed  
That knows her need,  
And he, after such daring,  
Is gentle, and caring.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Tu.	☾ in Apo. ☽ on Eq. Shrove Tue. Mardi Gras	{9.1 {8.5
2	W.	Ash Wed. Hol. Texas	{9.2 {9.3 [1 <sup>st</sup> Hol. Neb.
3	Th.	Tides {9.3 {9.1	Storm
4	Fr.	☽ Stat. in Ice left Charles R.A. River 1941	{9.3 {8.7 threat.
5	Sa.	Gov. James McConaughy died 1948 (7th)	{9.2 {8.4
6	B	1 <sup>st</sup> S. I. Tides {9.0 {8.0	Strong
7	M.	The Ides Beware of Hol. begin Old Colind Cal.	{8.9 {7.7 winds
8	Tu.	☽☾ Iceberg patrol starts out	Tides {8.9 {7.6 and
9	W.	♀ Aph. ☽ in runs Ember high. Day	Tides {9.0 {7.8 cold
10	Th.	Masaryk suicide 1948 Tides {9.3 {8.2	snows,
11	Fr.	Blizzard of 1888 began Ember Day	Tides {9.8 {8.8 rains.
12	Sa.	St. Gregory. Ember Day	Tides {10.4 {9.6
13	B	2 <sup>nd</sup> S. I. ☽☾ Tides {10.9 {10.8	Milder
14	M.	Fast of Esther ☽ in Perl. Tides {11.3 {10.8	with
15	Tu.	☽☽☽ on Purim. Income taxes due	{11.4 {—
16	W.	Tides {11.2 {11.3 [15 <sup>th</sup> Hol. Tenn. indications	
17	Th.	St. Patrick ☽☽☽ ☽☽☽ Tides {11.3 {10.9 of	
18	Fr.	Grover Cleveland b. 1837 Tides {11.1 {10.2	Spring.
19	Sa.	Swallows arrive San Capistrano, Cal. Tides {10.7 {9.5	
20	B	3 <sup>rd</sup> S. I. Spring begins. ☽ en-ops Tides {10.2 {8.7	
21	M.	☽ rides low. Pocahontas d. 1617 Tides {9.5 {8.1	Fogs in
22	Tu.	♀ Gr. Hel. Lat. S. Tides {9.1 {7.8	the
23	W.	☽☽☽ Floods 1936, 1826 Tides {8.8 {7.7	valleys.
24	Th.	Longfellow d. 1882 Tides {8.8 {7.9	
25	Fr.	Ann. Lady Day. Earliest opening date Sebago Lake, Me.	
26	Sa.	Tides {9.0 {8.6 [25 <sup>th</sup> Hol. Md. Tides {8.9 {8.8	Dull
27	B	4 <sup>th</sup> S. I. ☽☽☽ Male child most likely if conceived Tides {9.1 {8.9	
28	M.	☽☽☽ ☽ in Apo. now Tides {9.2 {9.2	
29	Tu.	☽☽☽ ☽ Gr Hel. Lat S. ☽ on Eq. Tides {9.3 {9.4	
30	W.	Alaska purch. 1867 Tides {9.2 {9.1	penetrating
31	Th.	1945 warmest on record Tides {9.5 {9.1	cold.

Man, what are you doing now shaking your head over broken harness and busted plough points? What were your winter months for but to be getting everything ready for spring? Now you are on the wrong foot, and what is the need of it?

With prices what they are on farm machinery, you may have put off ordering that new mower or sprayer. But think twice on this sort of economy if your old equipment is really on its last legs. If you are an orchardist or a crop farmer, you know that the success or failure of your last year's crop may well depend on getting each spray or dust on at just the right time. Even a few hours delay, once, may ruin you. Your equipment doesn't have to be new, but it must be dependable. Why not have two strings to your bow? The wise farmer likes the assurance—and insurance—of a reliable team of horses to fall back on in case something happens to the tractor. And it does.

Many a piece of farm machinery is out of commission for good and rusting now in the scrap heap, and all for want of a few drops of oil or cups of grease at the right time. Make it a rule that neither you nor your men use any piece of machinery without first checking it for grease, oil, gas and water.

1949]

## APRIL, FOURTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	4N.37	7	6 54	13	9 07	19	11 14	25	13 15						
	2	5 00	8	7 16	14	9 28	20	11 35	26	13 34						
	3	5 23	9	7 39	15	9 50	21	11 55	27	13 54						
	4	5 46	10	8 01	16	10 11	22	12 15	28	14 13						
	5	6 09	11	8 23	17	10 32	23	12 36	29	14 31						
	6	6 31	12	8 45	18	10 53	24	12 55	30	14 50						

▷ First Quarter, 6th day, 8 h. 01 m., morning, E.

○ Full Moon, 12th day, 11 h. 08 m., evening, E.

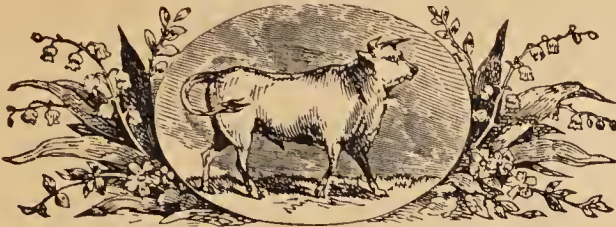
◁ Last Quarter, 19th day, 10 h. 27 m., evening, E.

● New Moon, 28th day, 3 h. 02 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉		☽		Length of Days.	Sun F.as.L.	Full Sea. Boston.		D	Key	D	D's	Moon's Age
			Rises.	Key	Sets.	Key			Morn.	Even.					
91	1	Fr.	5 27	H	6 10	J	12 44	12	0 $\frac{3}{4}$	1	9 28	O	1 $\frac{5}{8}$	Tau	3
92	2	Sa.	5 25	H	6 12	J	12 47	12	1 $\frac{1}{4}$	1 $\frac{3}{4}$	10 35	Q	2 45	Tau	4
93	3	S	5 23	H	6 13	J	12 49	12	2	2 $\frac{1}{2}$	11 $\frac{P}{M}$ 41	Q	3 35	G'm	5
94	4	M.	5 22	G	6 14	K	12 52	13	2 $\frac{3}{4}$	3 $\frac{1}{4}$	—	—	4 29	G'm	6
95	5	Tu.	5 20	G	6 15	K	12 55	13	3 $\frac{1}{2}$	4 $\frac{1}{4}$	12 $\frac{A}{M}$ 44	Q	5 26	Cnc	7
96	6	W.	5 18	G	6 16	K	12 58	13	4 $\frac{1}{4}$	5 $\frac{1}{4}$	1 41	Q	6 25	Cnc	8
97	7	Th.	5 16	G	6 17	K	13 01	14	5 $\frac{1}{2}$	6 $\frac{1}{4}$	2 28	Q	7 22	Leo	9
98	8	Fr.	5 15	G	6 18	K	13 04	14	6 $\frac{1}{2}$	7 $\frac{1}{4}$	3 07	P	8 18	Leo	10
99	9	Sa.	5 13	G	6 19	K	13 06	14	7 $\frac{1}{2}$	8	3 39	N	9 12	Vir	11
100	10	S	5 11	G	6 21	K	13 09	14	8 $\frac{1}{2}$	9	4 06	L	10 04	Vir	12
101	11	M.	5 10	G	6 22	K	13 12	15	9 $\frac{1}{2}$	10	4 $\frac{A}{M}$ 34	J	10 55	Lib	14
102	12	Tu.	5 08	G	6 23	K	13 15	15	10 $\frac{1}{4}$	10 $\frac{3}{4}$	rises	—	11 $\frac{P}{M}$ 47	Lib	15
103	13	W.	5 06	G	6 24	K	13 17	15	11 $\frac{1}{4}$	11 $\frac{1}{2}$	7 $\frac{P}{M}$ 23	M	—	—	—
104	14	Th.	5 05	F	6 25	L	13 20	15	—	0	8 44	O	12 $\frac{A}{M}$ 40	Sco	16
105	15	Fr.	5 03	F	6 26	L	13 23	16	0 $\frac{1}{4}$	0 $\frac{3}{4}$	10 04	P	1 36	Sco	17
106	16	Sa.	5 02	F	6 27	L	13 26	16	1 $\frac{1}{4}$	1 $\frac{3}{4}$	11 $\frac{P}{M}$ 18	P	2 34	Sag	18
107	17	S	5 00	F	6 28	L	13 28	16	2	2 $\frac{1}{2}$	—	—	3 34	Sag	19
108	18	M.	4 58	F	6 30	L	13 31	16	2 $\frac{3}{4}$	3 $\frac{1}{2}$	12 $\frac{A}{M}$ 21	P	4 33	Cap	20
109	19	Tu.	4 57	F	6 31	L	13 34	17	3 $\frac{3}{4}$	4 $\frac{1}{2}$	1 13	P	5 29	Cap	21
110	20	W.	4 55	F	6 32	L	13 36	17	4 $\frac{3}{4}$	5 $\frac{3}{4}$	1 53	P	6 21	Aqr	22
111	21	Th.	4 54	F	6 33	L	13 39	17	5 $\frac{3}{4}$	6 $\frac{3}{4}$	2 25	O	7 09	Aqr	23
112	22	Fr.	4 52	F	6 34	L	13 42	17	7	7 $\frac{3}{4}$	2 50	N	7 54	Aqr	24
113	23	Sa.	4 51	F	6 35	L	13 44	17	8	8 $\frac{1}{2}$	3 11	L	8 35	Psc	25
114	24	S	4 49	E	6 36	M	13 47	18	8 $\frac{3}{4}$	9 $\frac{1}{4}$	3 30	K	9 15	Psc	26
115	25	M.	4 48	E	6 37	M	13 50	18	9 $\frac{1}{2}$	9 $\frac{3}{4}$	3 48	I	9 54	Ari	27
116	26	Tu.	4 46	E	6 39	M	13 52	18	10	10 $\frac{1}{2}$	4 05	H	10 33	Ari	28
117	27	W.	4 45	E	6 40	M	13 55	18	10 $\frac{3}{4}$	11	4 24	F	11 13	Ari	29
118	28	Th.	4 43	E	6 41	M	13 57	18	11 $\frac{1}{4}$	11 $\frac{1}{2}$	sets	—	11 $\frac{A}{M}$ 56	Tau	0
119	29	Fr.	4 42	E	6 42	M	14 00	18	—	0	8 $\frac{P}{M}$ 27	P	12 $\frac{P}{M}$ 42	Tau	1
120	30	Sa.	4 41	E	6 43	M	14 02	18	0 $\frac{1}{4}$	0 $\frac{3}{4}$	9 $\frac{P}{M}$ 34	Q	1 $\frac{P}{M}$ 32	G'm	2





The first leaf — here,  
And small, and green,  
Makes a career  
Of being seen.

And now, and near,  
Arrives the bird,  
For a career  
Of being heard.

And I'll stand by,  
I'm important, here,  
— For once . . . the necessary  
Eye and ear.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, Etc.	Farmer's Calendar.
1	Fr.	A day which only foos observe	Hol. Mich. {9.6 8.9
2	Sa.	♂♀ L.H.R. Hol. b. 1877 Ariz.	Tides {9.6 8.6
3	B	♂Ψ♁ Passion S.	Tides {9.5 8.3
4	M.	♂♁ Okinawa (2nd) 1945	Tides {9.3 8.0
5	Tu.	♁ runs high. Army Day	Asteroids astray {9.2 7.9
6	W.	Day	Tides {9.2 8.2
7	Th.		Tides {9.2 8.2
8	Fr.	♂♀♂ Vt. denied adm. to Union 1777	{9.5 8.7
9	Sa.	♂♁ Snowed 9 inches 1917	March into Egypt {9.9 9.4
10	B	♁ Palm S.	Tides {10.4 10.2
11	M.	♁ on Arkansas Eq. 1944	Tornado {10.8 10.9
12	Tu.	♂♀♂♁♁ Total eclipse	in Peri. {11.1 11.4
13	W.	♂♀♁ Sup.	{11.1 11.7
14	Th.	Passover	{10.9 13th
15	Fr.	Good Fri. Titanic sk. 1912	{11.6 10.5
16	Sa.	♂♀♁ Sup.	Tides {11.3 9.9
17	B	Easter Day ♀ in ♁	rides low. {10.8 9.2
18	M.	Lucy Larcom d. 1893	Hol. N.C. {10.1 8.5
19	Tu.	Patriots' D. ♂♁	Hol. Me., Mass. {9.4 8.1
20	W.	Lincoln's Funeral 1865	Tides {8.9 7.8
21	Th.	♁ Mark Twain d. 1910	Hol. Texas {8.6 7.9
22	Fr.	♀ in Witches around Peri. tonight	Tides {8.5 8.1
23	Sa.	St. George.	Tides {8.5 8.4
24	B	1st S. of E. Low S.	♁ in Apo. {8.7 8.8
25	M.	♁ on Eq. {8.8 9.1	[24th D.S.T. begins some places
26	Tu.	Fast Day (N. H.)	Hol.-Miss. N.H., Fla., Ga. {8.9 9.4
27	W.	♂♁♁ Emerson d. 1882	Tides {8.9 9.6
28	Th.	♁ Partial eclipse	♂♀♁ Mars was conceived {8.9 9.8
29	Fr.	♂♀♁	Tides {8.8
30	Sa.	Bayard killed Ingolstad 1524	Tides {9.8 8.7

One swallow doesn't make the spring, nor does the first bluebird nor the first robin. But each is a part of spring, a symbol of it, just as are the wedges of geese flying north, the renewed cawing of the crows, town meeting and mud and marbles, sap buckets and freshets, the sour smell of lawns, the black pattern of apple tree prunings on melting snows.

Anything can be spring. And to each of us it has its special way of coming. To you in the city it comes dancing in with the first hurdy-gurdy. To young Bill here spring is the day Ma lets him shed his red flannels. To Ma it's the day there's mud instead of snow on the kitchen linoleum. Old Dobbin knows it as the day he gets hitched to the plough. And to "Granther"—well, the other seasons have sort of passed Granther by—but not spring. Spring to Granther is the first long sweet hour when he sits on the old bench and can smoke and dream again in the sun, remembering how spring, to the little fellow he used to be, was sulphur and molasses.

It always seems to us that the coming of spring is a better time for good resolutions than the first of the year. Resolutions have a way of getting snowed under then. But now they're thawed and living. This is the threshold of the growing year. Bring on your good resolves. Scramble and scratch or get ploughed under.

1949]

MAY, FIFTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.					
	0	1		0	1		0	1		0	1				
	1	15	N 08	7	16	52	13	18	26	19	19	48	25	20	59
	2	15	26	8	17	08	14	18	40	20	20	01	26	21	10
	3	15	44	9	17	24	15	18	55	21	20	13	27	21	20
	4	16	01	10	17	40	16	19	08	22	20	25	28	21	30
	5	16	18	11	17	56	17	19	22	23	20	37	29	21	39
	6	16	35	12	18	11	18	19	35	24	20	48	30	21	48

- ☽ First Quarter, 5th day, 4 h. 33 m., evening, E.
- ☾ Full Moon, 12th day, 7 h. 51 m., morning, W.
- ☾ Last Quarter, 19th day, 2 h. 22 m., evening, W.
- New Moon, 27th day, 5 h. 24 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉		☽		Length of Days.	Sun Fast.	Full Sea, Boston.		☽		☽'s		Moon's Age
			Rises.	Key	Sets.	Key			Morn.	Even.	Sets.	Key	Souths.	Place	
121	1	S	4 39	E	6 44	M	14 05	19	0 $\frac{3}{4}$	1 $\frac{1}{4}$	10 $\frac{P}{M}$ 38	Q	2 $\frac{P}{M}$ 25	G'm	3
122	2	M	4 38	E	6 45	M	14 07	19	1 $\frac{1}{2}$	2	11 $\frac{P}{M}$ 37	Q	3 21	Cnc	5
123	3	Tu	4 37	E	6 46	M	14 10	19	2 $\frac{1}{4}$	2 $\frac{3}{4}$	—	—	4 19	Cnc	6
124	4	W	4 35	D	6 47	N	14 12	19	3	3	12 $\frac{A}{M}$ 26	Q	5 15	Leo	7
125	5	Th	4 34	D	6 49	N	14 15	19	4	4 $\frac{1}{4}$	1 07	Q	6 10	Leo	8
126	6	Fr	4 33	D	6 50	N	14 17	19	5	5 $\frac{1}{4}$	1 40	O	7 03	Vir	9
127	7	Sa	4 31	D	6 51	N	14 19	19	6	6 $\frac{1}{4}$	2 08	M	7 53	Vir	10
128	8	S	4 30	D	6 52	N	14 22	19	7 $\frac{1}{4}$	7 $\frac{3}{4}$	2 32	K	8 43	Lib	11
129	9	M	4 29	D	6 53	N	14 24	19	8 $\frac{1}{4}$	8 $\frac{1}{2}$	2 55	I	9 33	Lib	12
130	10	Tu	4 28	D	6 54	N	14 26	19	9	9 $\frac{1}{2}$	3 18	G	10 24	Scor	13
131	11	W	4 27	D	6 55	N	14 28	19	10	10 $\frac{1}{4}$	3 $\frac{A}{M}$ 44	F	11 $\frac{P}{M}$ 19	Scor	14
132	12	Th	4 26	D	6 56	N	14 31	19	10 $\frac{3}{4}$	11	rises	—	—	—	—
133	13	Fr	4 24	D	6 57	N	14 33	19	11 $\frac{3}{4}$	—	8 $\frac{P}{M}$ 53	P	12 $\frac{A}{M}$ 16	Sag	15
134	14	Sa	4 23	C	6 58	O	14 35	20	0	0 $\frac{1}{2}$	10 04	P	1 16	Sag	16
135	15	S	4 22	C	6 59	O	14 37	20	0 $\frac{3}{4}$	1 $\frac{1}{2}$	11 02	P	2 17	Cap	17
136	16	M	4 21	C	7 00	O	14 39	20	1 $\frac{1}{2}$	2 $\frac{1}{4}$	11 $\frac{P}{M}$ 49	P	3 16	Cap	18
137	17	Tu	4 20	C	7 01	O	14 41	19	2 $\frac{1}{2}$	3 $\frac{1}{4}$	—	—	4 12	Cap	19
138	18	W	4 19	C	7 02	O	14 43	19	3 $\frac{1}{4}$	4	12 $\frac{A}{M}$ 23	P	5 03	Aqr	20
139	19	Th	4 18	C	7 03	O	14 45	19	4 $\frac{1}{4}$	5	12 52	N	5 49	Aqr	21
140	20	Fr	4 18	C	7 04	O	14 47	19	5 $\frac{1}{4}$	6	1 15	M	6 32	Psc	22
141	21	Sa	4 17	C	7 05	O	14 48	19	6 $\frac{1}{4}$	7	1 35	K	7 13	Psc	23
142	22	S	4 16	C	7 06	O	14 50	19	7 $\frac{1}{4}$	7 $\frac{3}{4}$	1 52	J	7 52	Ari	24
143	23	M	4 15	C	7 07	O	14 52	19	8	8 $\frac{1}{2}$	2 11	H	8 31	Ari	25
144	24	Tu	4 14	C	7 08	O	14 53	19	8 $\frac{3}{4}$	9	2 29	G	9 10	Ari	26
145	25	W	4 14	B	7 09	P	14 55	19	9 $\frac{1}{2}$	9 $\frac{3}{4}$	2 49	E	9 52	Tau	27
146	26	Th	4 13	B	7 10	P	14 57	19	10 $\frac{1}{4}$	10 $\frac{1}{2}$	3 $\frac{A}{M}$ 13	C	10 37	Tau	28
147	27	Fr	4 12	B	7 10	P	14 58	19	11	11	sets	—	11 $\frac{A}{M}$ 26	G'm	29
148	28	Sa	4 12	B	7 11	P	15 00	18	11 $\frac{3}{4}$	11 $\frac{3}{4}$	8 $\frac{P}{M}$ 30	Q	12 $\frac{P}{M}$ 19	G'm	1
149	29	S	4 11	B	7 12	P	15 01	18	—	0 $\frac{1}{4}$	9 31	Q	1 16	G'm	2
150	30	M	4 10	B	7 13	P	15 02	18	0 $\frac{1}{4}$	1	10 24	Q	2 14	Cnc	3
151	31	Tu	4 10	B	7 13	P	15 03	18	1	1 $\frac{3}{4}$	11 $\frac{P}{M}$ 08	Q	3 $\frac{P}{M}$ 11	Cnc	4



MAY hath 31 days.

[1949



The grass came, crowding and abrupt,  
And startling as a sudden sound;  
The leaf came, sharp to interrupt  
A man's brown study of the ground,  
With a green urgency to spread,  
Among the dull things in his head.

But least of all was he prepared  
For the bright bird-song, the quick note,  
The singular and sweet that fared  
Above him . . . And the verse he wrote  
That evening brought a fashion in  
From countries where the man had been.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	B	2nd S. a. E. St. Philip & St. James {9.9 8.5	Not too late yet to be setting out your young orchards, but remember, a tree is never better than the hole in which it is set. All the roots should have a chance to spread freely and uncrowded, the hole dug deeply enough so the first top spread of roots are covered with a couple of inches of dirt at least and the vertical roots are not shrugged up. It is a good plan to use a little gunpowder to loosen the sides of each hole, especially in clay or hardpan.
2	M.	♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ Gr. Hel. Runs [1st Stat. in high. Cal. {9.8 8.2 R.A.	
3	Tu.	Invention of the Cross [2nd Hor. Cal. {9.8 8.3	Tides {9.5 8.2
4	W.	Linnaeus Hol. R.I. Tides {9.5 8.2	
5	Th.	"For France, the Army, Josephine"-1821 {9.4 8.4	Clear.
6	Fr.	Corridor 1942 ♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ Tides {9.4 8.8	
7	Sa.	Kentucky Derby Tides {9.6 9.3	Humid.
8	B	3rd S. a. E. Mother's Day Tides {9.9 10.0	
9	M.	♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ on Eq. Tides {10.2 10.7	Good
10	Tu.	♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ Gr. El. in. Hol. {10.5 11.2	
11	W.	Fred W. Goudy d. 1947 Peri. N. & S. Car. Tides {10.6 11.6	A good time now for reforestation as the ground while still moist is not likely to be wet. Statisties show that since 1926 the total forest acreage planted in the United States was less than 6,500,000 and there are 75 million acres in which planting is needed. Though these figures are misleading, since on many times 75 million acres nature is doing a better job of re-seeding than man, still on every farm there is a need for some reforesting. Get a forester's advice, however, before starting.
12	Th.	N.E. first marriage 1621 War decl. on Mexico, 1846 Asteroids abroad {10.6 11.7	
13	Fr.	Israel 1948 Tides {11.6 10.0	growing
14	Sa.	4th S. a. E. Rides Father Flanagan low. died 1948 Tides {10.6 9.0	
15	B	The Nickel born 1866 [15th ♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ {11.2 9.5	and planting
16	M.	Lag B'omer ♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ in ♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ Tides {10.0 8.5	
17	Tu.	Waterloo, 1815 Tides {9.4 8.2	days.
18	W.	Salem Witchcraft going strong 1692 Ore. Hol. {8.8 8.1	
19	Th.	Stat. in R. A. ♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ Hol. N. Car. {8.4 8.1	Sultry as
20	Fr.	Am. Red Cross fd 1881 Tides {8.2 8.3	
21	Sa.	Kog S. 5th S. af. ♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ in Apo. Eq. on {8.2 8.1	it becomes
22	B	Stat. in [22nd Nat'l Marine Day] R. A. Tides {8.3 8.9	
23	M.	Minor Rogation Days Tides {8.4 8.2	warmer.
24	Tu.	♀ in ♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ Tides {8.4 9.5	
25	W.	♀ in ♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ Tides {8.4 9.5	Fine
26	Th.	♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ ASCENSION Tides {8.5 9.7	
27	Fr.	St. Bede. ♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ Tides {8.6 9.9	for
28	Sa.	♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ Tides {8.6 10.1	
29	B	♁♂♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓ runs high Cromwell left Ireland 1650 {8.6 10.2	the holiday.
30	M.	Memorial Day Joan of Arc Tides {8.6 8.6	
31	Tu.	Johnstown Flood 1889 {10.2 8.6	

1949]

## JUNE, SIXTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	22N.05	7	22 46	13	23 13	19	23 26	25	23 24						
2	22 13	8	22 52	14	23 17	20	23 26	26	23 22							
3	22 20	9	22 57	15	23 19	21	23 27	27	23 20							
4	22 27	10	23 02	16	23 22	22	23 27	28	23 17							
5	22 34	11	23 06	17	23 23	23	23 26	29	23 14							
6	22 40	12	23 10	18	23 25	24	23 25	30	23 10							

- ☽ First Quarter, 3rd day, 10 h. 27 m., evening, W.  
 ○ Full Moon, 10th day, 4 h. 45 m., evening, E.  
 ☾ Last Quarter, 18th day, 7 h. 29 m., morning, W.  
 ● New Moon, 26th day, 5 h. 02 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉		Key	☽		Key	Length of Days.	Sun East.	Full Sea. Boston.		☽	Key	☽		☽'s Place	Moon's Ago
			Rises.	h. m.		Sets.	h. m.				Morn.	Even.			h.	m.		
152	1	W.	4 09	B	7 15	P	15 05	18	1 3 <sub>4</sub>	2 1 <sub>2</sub>	11 <sup>P</sup> <sub>M</sub> 43	O	4 <sup>P</sup> <sub>M</sub> 07	Leo	5			
153	2	Th.	4 09	B	7 16	P	15 07	18	2 3 <sub>4</sub>	3 1 <sub>2</sub>	—	—	4 59	Leo	6			
154	3	Fr.	4 08	B	7 16	P	15 08	18	3 4 <sub>4</sub>	4 1 <sub>4</sub>	12 <sup>A</sup> <sub>M</sub> 11	M	5 49	Vir	7			
155	4	Sa.	4 08	B	7 17	P	15 09	17	4 4 <sub>4</sub>	5 1 <sub>4</sub>	12 36	K	6 38	Vir	8			
156	5	S.	4 08	B	7 18	P	15 10	17	5 3 <sub>4</sub>	6 1 <sub>4</sub>	12 59	J	7 26	Lib	9			
157	6	M.	4 07	B	7 18	P	15 11	17	6 3 <sub>4</sub>	7 1 <sub>4</sub>	1 21	H	8 15	Lib	10			
158	7	Tu.	4 07	B	7 19	P	15 12	17	7 3 <sub>4</sub>	8 1 <sub>4</sub>	1 45	F	9 06	Scor	11			
159	8	W.	4 07	B	7 20	P	15 13	17	8 3 <sub>4</sub>	9	2 11	D	10 01	Scor	12			
160	9	Th.	4 07	B	7 20	P	15 14	17	9 3 <sub>4</sub>	10	2 44	C	10 <sup>P</sup> <sub>M</sub> 59	Sag	13			
161	10	Fr.	4 06	B	7 21	P	15 15	16	10 1 <sub>2</sub>	10 3 <sub>4</sub>	rises	—	Midn	Sag	14			
162	11	Sa.	4 06	B	7 21	P	15 15	16	11 1 <sub>2</sub>	11 1 <sub>2</sub>	8 <sup>P</sup> <sub>M</sub> 47	P	—	—	—			
163	12	S.	4 06	B	7 22	P	15 16	16	—	0 1 <sub>4</sub>	9 40	P	1 <sup>A</sup> <sub>M</sub> 00	Cap	15			
164	13	M.	4 06	B	7 22	P	15 16	16	0 1 <sub>2</sub>	1	10 21	P	1 58	Cap	16			
165	14	Tu.	4 06	B	7 23	Q	15 17	16	1 1 <sub>4</sub>	1 3 <sub>4</sub>	10 52	O	2 52	Aqr	17			
166	15	W.	4 06	A	7 23	Q	15 17	15	2	2 3 <sub>4</sub>	11 18	M	3 42	Aqr	18			
167	16	Th.	4 06	A	7 24	Q	15 18	15	2 3 <sub>4</sub>	3 1 <sub>2</sub>	11 39	L	4 27	Psc	19			
168	17	Fr.	4 06	A	7 24	Q	15 18	15	3 4 <sub>4</sub>	4 1 <sub>4</sub>	11 <sup>P</sup> <sub>M</sub> 58	J	5 09	Psc	20			
169	18	Sa.	4 06	A	7 24	Q	15 18	15	4 1 <sub>2</sub>	5 1 <sub>4</sub>	—	—	5 48	Psc	22			
170	19	S.	4 06	A	7 25	Q	15 19	15	5 1 <sub>2</sub>	6	12 <sup>A</sup> <sub>M</sub> 15	I	6 27	Ari	23			
171	20	M.	4 06	A	7 25	Q	15 19	14	6 1 <sub>4</sub>	6 3 <sub>4</sub>	12 33	G	7 06	Ari	24			
172	21	Tu.	4 07	A	7 25	Q	15 19	14	7 1 <sub>4</sub>	7 3 <sub>4</sub>	12 52	F	7 47	Tau	25			
173	22	W.	4 07	A	7 25	Q	15 19	14	8	8 1 <sub>2</sub>	1 14	D	8 31	Tau	26			
174	23	Th.	4 07	A	7 25	Q	15 19	14	9	9 1 <sub>4</sub>	1 40	B	9 18	Tau	27			
175	24	Fr.	4 07	A	7 26	Q	15 18	14	9 3 <sub>4</sub>	10	2 13	A	10 10	G'm	28			
176	25	Sa.	4 08	A	7 26	Q	15 18	13	10 1 <sub>2</sub>	10 1 <sub>2</sub>	2 <sup>A</sup> <sub>M</sub> 55	A	11 <sup>A</sup> <sub>M</sub> 06	G'm	29			
177	26	S.	4 08	A	7 26	Q	15 18	13	11 1 <sub>4</sub>	11 1 <sub>4</sub>	sets	—	12 <sup>P</sup> <sub>M</sub> 04	Cnc	0			
178	27	M.	4 08	A	7 26	Q	15 18	13	—	0	9 <sup>P</sup> <sub>M</sub> 09	Q	1 03	Cnc	1			
179	28	Tu.	4 09	A	7 26	Q	15 17	13	0	0 3 <sub>4</sub>	9 48	P	2 01	Leo	2			
180	29	W.	4 09	B	7 26	P	15 17	12	0 3 <sub>4</sub>	1 1 <sub>2</sub>	10 19	N	2 55	Leo	3			
181	30	Th.	4 10	B	7 26	P	15 16	12	1 1 <sub>2</sub>	2 1 <sub>4</sub>	10 <sup>P</sup> <sub>M</sub> 45	L	3 <sup>P</sup> <sub>M</sub> 47	Vir	4			

JUNE hath 30 days.

[1949



Lovely and fragrant, the young day  
Wanders . . . wanders . . . unaware  
Of self, and unaware of eyes  
Upon her, and how each small thing  
Shines freshly, shines in a new way:

It is because of her the air  
Brightens, now, and the blue wing  
Is bluer for the young, unwise  
Loving look of the young day.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
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1	W.	Nicomede.	Tides { <sup>10.1</sup> <sub>8.7</sub>
2	Th.	♁ ♃ ♄ inf.	Tides { <sup>10.0</sup> <sub>8.3</sub>
3	Fr.	Shavuoth Confederate Mem. Day	Tides { <sup>9.8</sup> <sub>9.1</sub>
4	Sa.	Jeremy Belknap b. 1744	Tides { <sup>9.7</sup> <sub>9.4</sub> Rain
5	B	Whit S. Pentecost	♁ in Aph. { <sup>9.6</sup> <sub>9.9</sub>
6	M.	♁ ♀ ♃ Invasion 1944	Tides { <sup>9.7</sup> <sub>10.4</sub> and
7	Tu.	♁ ♀ ♂ ♃ in Perl.	Tides { <sup>9.8</sup> <sub>10.3</sub>
8	W.	Old Folks Day W. Cunningham, Mass.	Ember Day { <sup>9.9</sup> <sub>11.2</sub>
9	Th.	Hall 1946	Tides { <sup>9.9</sup> <sub>11.4</sub> warmer.
10	Fr.	Ember Day Invasion Moon	Tides { <sup>9.8</sup> <sub>11.4</sub> Spell
11	Sa.	St. Barnabas. ♁ low	Ember Day Tides { <sup>9.7</sup> <sub>11.3</sub>
12	B	Trinity S. Don't have ears	{ <sup>9.5</sup> of
13	M.	♁ in ♄ ♁ ♃ pierced now	{ <sup>10.9</sup> <sub>9.2</sub> real
14	Tu.	Flag Day Hol. Mo.-Pa.	Tides { <sup>10.5</sup> <sub>9.0</sub> nice
15	W.	St. Bernard Stat. in R.A. Idaho	Tides { <sup>10.0</sup> <sub>8.7</sub>
16	Th.	Corpus Christi Sacred Heart	{ <sup>9.4</sup> <sub>8.5</sub> weather.
17	Fr.	Bunker Hill Day Hol. 1 city, Mass.	Tides { <sup>8.9</sup> <sub>8.4</sub>
18	Sa.	♁ on Eq. White frost 1851	Tides { <sup>8.5</sup> <sub>8.4</sub> Cooler
19	B	2nd S.a. ♁. Father's Day	♁ in Apo. { <sup>8.2</sup> <sub>8.5</sub>
20	M.	Lizzie Borden acquitted 1893 ♀ Peri. V.a.	{ <sup>8.0</sup> <sub>8.7</sub> and
21	Tu.	♁ ♃ SUMMER 1.03 BEGINS. p.m.	{ <sup>9.7</sup> <sub>8.9</sub> signs
22	W.	♁ ♂ ♁ Chas. A. Lindbergh, Jr. born 1930	{ <sup>8.0</sup> <sub>9.2</sub> of
23	Th.	Irvin Cobb b. 1876	Tides { <sup>8.1</sup> <sub>9.5</sub> a storm.
24	Fr.	♁ ♃ ♄ St. John, N.H. in R.A. ♁ ♃ ♄ Baptist, B.	{ <sup>8.2</sup> <sub>9.3</sub>
25	Sa.	♁ Gr. Hel. Lat. S.	Tides { <sup>8.4</sup> <sub>10.1</sub>
26	B	2nd a. ♁. ♁ runs high	{ <sup>8.6</sup> <sub>10.3</sub> Rain
27	M.	♁ ♃ Jos. & Hyrum Smith murd. 1844	{ <sup>8.7</sup> again,
28	Tu.	♁ Gr. El. W. Douglas Chandler conv. of treason 1947	{ <sup>10.5</sup> <sub>9.0</sub>
29	W.	U.S. Public Debt 1945	Tides { <sup>10.6</sup> <sub>9.2</sub> warm
30	Th.	271 billion ♁ ♃	{ <sup>10.5</sup> <sub>9.4</sub> days.

There is nothing better on a fine June dawning when all the world ought to be up and doing anyway, than to hear the crowing of a rooster. Or the crowing of many roosters. But we know this feeling is not universal even among countryfolk. We remember how, a few years ago, our neighbor Brown took an aversion as sudden as it was violent to the clarion of our old Plymouth Rock.

Now it did seem peculiar that Brown should get touchy over that bird, for in other respects he was a good-natured, even congenial, man. Indeed it was these qualities and a fondness for mulled cider that led him, one winter evening when we were cozy about the hearth, to a confession that cleared up the mystery.

It seems that a few years back he had fared badly in a horse trade, much to the delight and amusement of his friends, for Brown openly prided himself on his knowledge of horsetflesh. "Old Brown sure took a trimming" was the consensus of opinion, and that remark buzzed through the poor fellow's head all the long summer night. Just before dawn he dozed off at last only to find himself sitting suddenly bolt upright listening to the crow of the old rooster.

"That derved bird," he said, "wasn't giving out any regular 'cock a doodle,' but as plain as day—'Old Brown he took a trimming,' and," by God, that's what he's hollered at me every morning since."

Coldest June on record, 1897



1949]

## JULY, SEVENTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		/	Days.		/	Days.		/	Days.		/	Days.		/
	1	23		06	7		22	35		13	21		49	19	
	2	23	02	8	22	38	14	21	40	20	20	38	26	19	25
	3	22	57	9	22	21	15	21	31	21	20	27	27	19	11
	4	22	52	10	22	13	16	21	20	22	20	15	28	18	57
	5	22	47	11	22	06	17	21	11	23	20	03	29	18	43
	6	22	41	12	21	57	18	21	00	24	19	50	30	18	29

☽ First Quarter, 3rd day, 3 h. 08 m., morning, W.

☾ Full Moon, 10th day, 2 h. 41 m., morning, W.

☾ Last Quarter, 18th day, 1 h. 01 m., morning, E.

● New Moon, 25th day, 2 h. 33 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week.	☀ Rises.		Key	☀ Sets.		Key	Length of Days.	Sun. Past.	Full Sea.		☽ Sets.	Key	☽ Souths.		☽'s Place	Moon's Age
			h.	m.		h.	m.				Morn	Even			h.	m.		
182	1	Fr.	4	10	B	7	26	P	15 15	12	2 $\frac{1}{2}$	3	11 <sup>P</sup> 08 <sub>M</sub>	J	4 <sup>P</sup> 36 <sub>M</sub>	Vir	5	
183	2	Sa.	4	11	B	7	25	P	15 15	12	3 $\frac{1}{2}$	4	11 30	I	5 24	Lib	7	
184	3	S.	4	11	B	7	25	P	15 14	12	4 $\frac{1}{4}$	5	11 <sup>P</sup> 52 <sub>M</sub>	G	6 12	Lib	8	
185	4	M.	4	12	B	7	25	P	15 13	12	5 $\frac{1}{4}$	5 $\frac{3}{4}$	—	—	7 01	Scor	9	
186	5	Tu.	4	12	B	7	25	P	15 12	11	6 $\frac{1}{2}$	6 $\frac{3}{4}$	12 <sup>A</sup> 17 <sub>M</sub>	E	7 53	Scor	10	
187	6	W.	4	13	B	7	24	P	15 11	11	7 $\frac{1}{2}$	7 $\frac{3}{4}$	12 47	C	8 49	Sag	11	
188	7	Th.	4	14	B	7	24	P	15 10	11	8 $\frac{1}{2}$	8 $\frac{3}{4}$	1 23	B	9 47	Sag	12	
189	8	Fr.	4	14	B	7	24	P	15 09	11	9 $\frac{1}{2}$	9 $\frac{3}{4}$	2 08	B	10 47	Cap	13	
190	9	Sa.	4	15	B	7	23	P	15 08	11	10 $\frac{1}{4}$	10 $\frac{1}{2}$	3 <sup>A</sup> 03 <sub>M</sub>	B	11 <sup>P</sup> 46 <sub>M</sub>	Cap	14	
191	10	S.	4	16	B	7	23	P	15 07	11	11 $\frac{1}{4}$	11 $\frac{1}{4}$	rises	—	—	—	—	
192	11	M.	4	17	B	7	22	P	15 06	10	—	0	8 <sup>P</sup> 51 <sub>M</sub>	P	12 <sup>A</sup> 41 <sub>M</sub>	Cap	15	
193	12	Tu.	4	17	B	7	22	P	15 04	10	0	0 $\frac{3}{4}$	9 19	N	1 33	Aqr	16	
194	13	W.	4	18	B	7	21	P	15 03	10	0 $\frac{3}{4}$	1 $\frac{1}{2}$	9 41	L	2 20	Aqr	17	
195	14	Th.	4	19	B	7	21	P	15 02	10	1 $\frac{1}{2}$	2 $\frac{1}{4}$	10 01	K	3 03	Psc	18	
196	15	Fr.	4	20	B	7	20	P	15 00	10	2 $\frac{1}{4}$	2 $\frac{3}{4}$	10 19	I	3 44	Psc	19	
197	16	Sa.	4	21	B	7	19	P	14 59	10	3	3 $\frac{1}{2}$	10 37	H	4 23	Ari	20	
198	17	S.	4	21	B	7	19	P	14 57	10	3 $\frac{3}{4}$	4 $\frac{1}{4}$	10 55	F	5 02	Ari	21	
199	18	M.	4	22	B	7	18	P	14 56	10	4 $\frac{3}{4}$	5 $\frac{1}{4}$	11 16	E	5 42	Ari	22	
200	19	Tu.	4	23	C	7	17	O	14 54	10	5 $\frac{1}{2}$	6	11 <sup>P</sup> 40 <sub>M</sub>	C	6 24	Tau	23	
201	20	W.	4	24	C	7	16	O	14 52	10	6 $\frac{1}{2}$	7	—	—	7 09	Tau	24	
202	21	Th.	4	25	C	7	16	O	14 51	10	7 $\frac{1}{2}$	7 $\frac{3}{4}$	12 <sup>A</sup> 10 <sub>M</sub>	A	7 59	G'm	25	
203	22	Fr.	4	26	C	7	15	O	14 49	9	8 $\frac{1}{2}$	8 $\frac{1}{2}$	12 52	A	8 53	G'm	26	
204	23	Sa.	4	27	C	7	14	O	14 47	9	9 $\frac{1}{4}$	9 $\frac{1}{2}$	1 35	A	9 50	Cnc	27	
205	24	S.	4	28	C	7	13	O	14 45	9	10	10 $\frac{1}{4}$	2 <sup>A</sup> 35 <sub>M</sub>	A	10 50	Cnc	28	
206	25	M.	4	29	C	7	12	O	14 43	9	10 $\frac{3}{4}$	11	sets	—	11 <sup>A</sup> 49 <sub>M</sub>	Leo	29	
207	26	Tu.	4	30	C	7	11	O	14 41	9	11 $\frac{1}{2}$	11 $\frac{3}{4}$	8 <sup>P</sup> 15 <sub>M</sub>	O	12 <sup>P</sup> 46 <sub>M</sub>	Leo	1	
208	27	W.	4	31	C	7	10	O	14 39	9	—	0 $\frac{1}{4}$	8 43	M	1 40	Vir	2	
209	28	Th.	4	32	C	7	09	O	14 37	9	0 $\frac{1}{2}$	1	9 07	K	2 31	Vir	3	
210	29	Fr.	4	33	C	7	08	O	14 35	9	1 $\frac{1}{4}$	1 $\frac{3}{4}$	9 30	I	3 21	Lib	4	
211	30	Sa.	4	34	C	7	07	O	14 33	9	2 $\frac{1}{4}$	2 $\frac{3}{4}$	9 53	G	4 09	Lib	5	
212	31	S.	4	35	D	7	06	N	14 31	9	3	3 $\frac{1}{2}$	10 <sup>P</sup> 16 <sub>M</sub>	F	4 <sup>P</sup> 58 <sub>M</sub>	Scor	6	



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## AUGUST, EIGHTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	17	N.	59	7	16	23	13	14	37	19	12	45	25	10	43
2	17	44			8	16	06	14	14	19	20	12	24	26	10	22
3	17	28			9	15	49	15	14	01	21	12	04	27	10	01
4	17	12			10	15	31	16	13	42	22	11	44	28	9	40
5	16	56			11	15	14	17	13	23	23	11	24	29	9	17
6	16	40			12	14	56	18	13	03	24	11	03	30	8	57

☽ First Quarter, 1st day, 7 h. 57 m., morning, E.

☾ Full Moon, 8th day, 2 h. 33 m., evening, E.

☾ Last Quarter, 16th day, 5 h. 59 m., evening, E.

● New Moon, 23rd day, 10 h. 59 m., evening, W.

☽ First Quarter, 30th day, 2 h. 16 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	☉ Key	☉ Sets. h. m.	☉ Key	Length of Days. h. m.	Sun. First. m.	Full Sea. Boston. Morn. h. Even. h.	☽ Sets. h. m.	☽ Key	☽ Souths. h. m.	☽ Place	☽ Moon's Age
213	1	M.	4 36	D	7 05	N	14 29	10	4	4 $\frac{1}{2}$ 10 $\frac{P}{M}$ 44	D	5 $\frac{P}{M}$ 50	Scor	7
214	2	Tu.	4 37	D	7 03	N	14 27	10	5	5 $\frac{1}{2}$ 11 17	B	6 44	Scor	8
215	3	W.	4 38	D	7 02	N	14 25	10	6	6 $\frac{1}{2}$ 11 $\frac{P}{M}$ 59	B	7 40	Sag	9
216	4	Th.	4 39	D	7 01	N	14 22	10	7 $\frac{1}{4}$	7 $\frac{1}{2}$ —	—	8 39	Sag	10
217	5	Fr.	4 40	D	7 00	N	14 20	10	8 $\frac{1}{4}$	8 $\frac{1}{2}$ 12 $\frac{A}{M}$ 50	B	9 37	Cap	11
218	6	Sa.	4 41	D	6 59	N	14 18	10	9 $\frac{1}{4}$	9 $\frac{1}{2}$ 1 50	B	10 33	Cap	12
219	7	S.	4 42	D	6 57	N	14 15	10	10	10 $\frac{1}{4}$ 2 $\frac{A}{M}$ 57	B	11 $\frac{P}{M}$ 26	Aqr	13
220	8	M.	4 43	D	6 56	N	14 13	10	11	11 rises	—	—	—	—
221	9	Tu.	4 44	D	6 55	N	14 11	10	11 $\frac{1}{2}$	11 $\frac{3}{4}$ 7 $\frac{P}{M}$ 44	M	12 $\frac{A}{M}$ 14	Aqr	14
222	10	W.	4 45	E	6 53	M	14 08	11	—	0 $\frac{1}{4}$ 8 05	K	12 58	Psc	15
223	11	Th.	4 46	E	6 52	M	14 06	11	0 $\frac{1}{2}$	1 8 24	J	1 40	Psc	16
224	12	Fr.	4 47	E	6 50	M	14 03	11	1	1 $\frac{1}{2}$ 8 41	H	2 20	Psc	17
225	13	Sa.	4 48	E	6 49	M	14 01	11	1 $\frac{3}{4}$	2 $\frac{1}{4}$ 8 59	G	2 59	Ari	19
226	14	S.	4 49	E	6 48	M	13 58	11	2 $\frac{1}{2}$	3 9 18	E	3 38	Ari	20
227	15	M.	4 50	E	6 46	M	13 56	11	3 $\frac{1}{4}$	3 $\frac{1}{2}$ 9 40	D	4 19	Tau	21
228	16	Tu.	4 52	E	6 45	M	13 53	12	4	4 $\frac{1}{2}$ 10 07	B	5 02	Tau	22
229	17	W.	4 53	E	6 43	M	13 51	12	5	5 $\frac{1}{4}$ 10 40	A	5 49	Tau	23
230	18	Th.	4 54	E	6 42	M	13 48	12	5 $\frac{3}{4}$	6 $\frac{1}{4}$ 11 $\frac{P}{M}$ 22	A	6 40	G'm	24
231	19	Fr.	4 55	E	6 40	M	13 45	12	6 $\frac{3}{4}$	7 —	—	7 35	G'm	25
232	20	Sa.	4 56	F	6 39	L	13 43	12	7 $\frac{3}{4}$	8 12 $\frac{A}{M}$ 17	A	8 33	Cnc	26
233	21	S.	4 57	F	6 37	L	13 40	13	8 $\frac{3}{4}$	9 1 22	A	9 33	Cnc	27
234	22	M.	4 58	F	6 36	L	13 38	13	9 $\frac{1}{2}$	9 $\frac{3}{4}$ 2 37	A	10 31	Leo	28
235	23	Tu.	4 59	F	6 34	L	13 35	13	10 $\frac{1}{4}$	10 $\frac{3}{4}$ 3 $\frac{A}{M}$ 57	C	11 $\frac{A}{M}$ 27	Leo	29
236	24	W.	5 00	F	6 32	L	13 32	13	11 $\frac{1}{4}$	11 $\frac{1}{2}$ sets	—	12 $\frac{P}{M}$ 21	Vir	1
237	25	Th.	5 01	F	6 31	L	13 30	14	—	0 7 $\frac{P}{M}$ 32	J	1 12	Vir	2
238	26	Fr.	5 02	F	6 29	L	13 27	14	0 $\frac{1}{4}$	0 $\frac{3}{4}$ 7 55	H	2 02	Lib	3
239	27	Sa.	5 03	F	6 28	L	13 24	14	1	1 $\frac{1}{2}$ 8 20	F	2 53	Lib	4
240	28	S.	5 04	F	6 26	L	13 22	15	2	2 $\frac{1}{4}$ 8 47	D	3 45	Scor	5
241	29	M.	5 05	F	6 24	K	13 19	15	3 $\frac{3}{4}$	2 $\frac{1}{2}$ 9 19	B	4 39	Scor	6
242	30	Tu.	5 06	G	6 23	K	13 16	15	3 $\frac{3}{4}$	4 9 58	B	5 35	Sag	7
243	31	W.	5 07	G	6 21	K	13 14	15	4 $\frac{3}{4}$	5 10 $\frac{P}{M}$ 46	B	6 $\frac{P}{M}$ 34	Sag	8



AUGUST hath 31 days.

[1949



Meadow and pool and tree,  
(And heaven in the pool)  
These were the lovely three;  
And I, the driven fool  
Who could not stay to see  
The stilled, and green, and cool . . .  
Wherever heaven may be,  
Meadow and pool and tree  
May come and comfort me.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	M.	Lammas Day, Bank Holiday Hol. { 9.7 Gt. Britain Col. { 10.2	Yearly more farmers, gardeners, orchard growers come to realize the value of mulching, whether the material used be hay, straw, leaves, shavings, sawdust, pine needles, seaweed or even such odd stuffs as spoiled silage. Mulching proves its value in several ways. Almost no erosion at all takes place where it is completely practiced. It promotes biological activity in the soil as a result of increased aeration, improves soil structure and tilth, prevents compacting of the soil by allowing more rapid penetration of water, keeps the soil from getting too hot in summer and too cold in winter, and appreciably increases available potash, nitrates, and phosphorus. It also decreases the evaporation of soil moisture and allows water that would otherwise run-off to enter the soil. Experiments at Durham, New Hampshire, conclusively showed that over a three year period the yield from three large northern spruce trees treated with 500 pounds of mulch the first year and none thereafter and no fertilizer, was twice as great as that of three other trees from the same orchard block (and identical to the first group in age and health) which were not mulched at all but did for each of the three years receive heavy doses of nitrate fertilizers. The size and quality of the fruit from the mulched trees were markedly superior to the unmulched.
2	Tu.	Boston Mail Boxes first put up 1858 { 9.2 Cholera epidemic { 10.1 Tides { 8.8	
3	W.	1849 Tides { 10.1 Coast Guard Fast of Av. Tides { 8.6 Day	
4	Th.	rides Hiroshima bomb 1945 Tides { 8.6 low.	
5	Fr.	Transfiguration ♂ ♀ ♀ Tides { 8.7 low.	
6	Sa.	9th S. a. ♀. Tides { 8.9 Thermopylae 480 B.C. Tides { 9.1 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
7	B	10th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
8	M.	11th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
9	Tu.	12th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
10	W.	13th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
11	Th.	14th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
12	Fr.	15th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
13	Sa.	16th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
14	B	17th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
15	M.	18th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
16	Tu.	19th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
17	W.	20th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
18	Th.	21st S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
19	Fr.	22nd S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
20	Sa.	23rd S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
21	B	24th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
22	M.	25th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
23	Tu.	26th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
24	W.	27th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
25	Th.	28th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
26	Fr.	29th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
27	Sa.	30th S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
28	B	31st S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
29	M.	1st S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
30	Tu.	2nd S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	
31	W.	3rd S. a. ♀. Tides { 9.2 Thermopylae 480 B.C. Tides { 10.2 Many deaths from heat 1896 Tides { 9.2 St. Laurence, Asteroids Tides { 9.8 Hay fever begins Tides { 9.8	

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## SEPTEMBER, NINTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	1	0	'	7	6	01	13	3	44	19	1	25	25	0	55
2	7	52		8	5	38	14	3	21	20	1	02	26	1	18
3	7	30		9	5	16	15	2	58	21	0	39	27	1	42
4	7	08		10	4	53	16	2	35	22	0 <sub>N.</sub>	16	28	2	05
5	6	45		11	4	30	17	2	12	23	0 <sub>s.</sub>	08	29	2	28
6	6	23		12	4	07	18	1	49	24	0	31	30	2	52

○ Full Moon, 7th day, 4 h. 59 m., morning, W.

☾ Last Quarter, 15th day, 9 h. 29 m., morning, W.

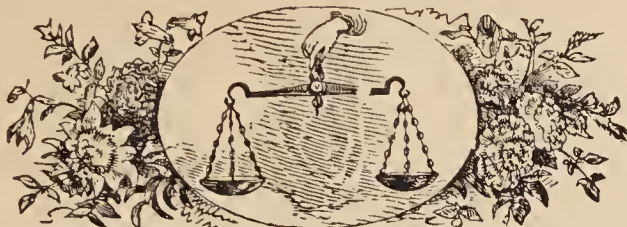
● New Moon, 22nd day, 7 h. 21 m., morning, E.

☽ First Quarter, 28th day, 11 h. 18 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	☉ Key	☉ Sets. h. m.	☉ Key	Length of Days. h. m.	Sun Fast.	Full Sea. Boston. Morn. h. m.	Even. h. m.	☽ Sets. h. m.	☽ Key	☽ Souths. h. m.	☽'s Place	Moon's Age
244	1	Th.	5 08	G	6 19	K	13 11 16	5 $\frac{3}{4}$	6 $\frac{1}{4}$	11 <sup>P</sup> <sub>M</sub> 44	B	7 <sup>P</sup> <sub>M</sub> 32	Cap	9	
245	2	Fr.	5 09	G	6 18	K	13 08 16	7	7 $\frac{1}{4}$	—	—	8 28	Cap	10	
246	3	Sa.	5 10	G	6 16	K	13 05 16	8	8 $\frac{1}{4}$	12 <sup>A</sup> <sub>M</sub> 49	B	9 21	Aqr	11	
247	4	S	5 12	G	6 14	K	13 03 17	9	9 $\frac{1}{4}$	1 57	B	10 10	Aqr	12	
248	5	M.	5 13	G	6 12	K	13 00 17	9 $\frac{3}{4}$	10	3 05	D	10 56	Aqr	13	
249	6	Tu.	5 14	G	6 11	K	12 57 17	10 $\frac{1}{2}$	10 $\frac{3}{4}$	4 <sup>A</sup> 11	E	11 <sup>P</sup> <sub>M</sub> 38	Psc	14	
250	7	W.	5 15	G	6 09	K	12 54 18	11 $\frac{1}{4}$	11 $\frac{1}{2}$	rises	—	—	—	—	
251	8	Th.	5 16	G	6 07	K	12 51 18	11 $\frac{3}{4}$	—	6 <sup>P</sup> 47	I	12 <sup>A</sup> <sub>M</sub> 18	Psc	15	
252	9	Fr.	5 17	H	6 05	J	12 49 18	0	0 $\frac{1}{4}$	7 04	G	12 57	Ari	16	
253	10	Sa.	5 18	H	6 04	J	12 46 19	0 $\frac{1}{2}$	1	7 23	F	1 36	Ari	17	
254	11	S	5 19	H	6 02	J	12 43 19	1 $\frac{1}{4}$	1 $\frac{1}{2}$	7 43	D	2 16	Tau	18	
255	12	M.	5 20	H	6 00	J	12 40 20	2	2 $\frac{1}{4}$	8 08	B	2 58	Tau	19	
256	13	Tu.	5 21	H	5 58	J	12 37 20	2 $\frac{3}{4}$	3	8 37	A	3 43	Tau	20	
257	14	W.	5 22	H	5 57	J	12 35 20	3 $\frac{1}{2}$	3 $\frac{3}{4}$	9 15	A	4 32	G'm	21	
258	15	Th.	5 23	H	5 55	J	12 32 21	4 $\frac{1}{4}$	4 $\frac{1}{2}$	10 03	A	5 24	G'm	22	
259	16	Fr.	5 24	H	5 53	J	12 29 21	5 $\frac{1}{4}$	5 $\frac{1}{2}$	11 <sup>P</sup> 02	A	6 20	Cnc	23	
260	17	Sa.	5 25	H	5 51	J	12 26 21	6 $\frac{1}{4}$	6 $\frac{1}{2}$	—	—	7 17	Cnc	24	
261	18	S	5 26	I	5 50	J	12 23 22	7 $\frac{1}{4}$	7 $\frac{1}{2}$	12 <sup>A</sup> 11	A	8 15	Leo	25	
262	19	M.	5 27	I	5 48	I	12 20 22	8 $\frac{1}{4}$	8 $\frac{1}{2}$	1 28	B	9 11	Leo	26	
263	20	Tu.	5 28	I	5 46	I	12 18 22	9	9 $\frac{1}{2}$	2 47	D	10 05	Vir	27	
264	21	W.	5 30	I	5 44	I	12 15 23	10	10 $\frac{1}{4}$	4 <sup>A</sup> 07	F	10 57	Vir	28	
265	22	Th.	5 31	I	5 43	I	12 12 23	10 $\frac{3}{4}$	11	sets	—	11 <sup>A</sup> <sub>M</sub> 49	Lib	0	
266	23	Fr.	5 32	I	5 41	I	12 09 23	11 $\frac{1}{2}$	—	6 <sup>P</sup> <sub>M</sub> 20	G	12 <sup>P</sup> <sub>M</sub> 40	Lib	1	
267	24	Sa.	5 33	I	5 39	I	12 06 24	0	0 $\frac{1}{4}$	6 46	E	1 33	Sco	2	
268	25	S	5 34	I	5 37	I	12 03 24	0 $\frac{3}{4}$	1	7 17	C	2 28	Sco	3	
269	26	M.	5 35	I	5 35	I	12 00 24	1 $\frac{1}{2}$	2	7 54	B	3 26	Sag	4	
270	27	Tu.	5 36	I	5 34	I	11 58 25	2 $\frac{1}{2}$	2 $\frac{3}{4}$	8 40	B	4 26	Sag	5	
271	28	W.	5 37	I	5 32	I	11 55 25	3 $\frac{1}{2}$	3 $\frac{3}{4}$	9 36	B	5 26	Cap	6	
272	29	Th.	5 38	I	5 30	I	11 52 25	4 $\frac{1}{2}$	4 $\frac{3}{4}$	10 40	B	6 24	Cap	7	
273	30	Fr.	5 39	J	5 28	H	11 49 26	5 $\frac{1}{2}$	5 $\frac{3}{4}$	11 <sup>P</sup> <sub>M</sub> 48	B	7 <sup>P</sup> <sub>M</sub> 18	Cap	8	





Observe the amorous eye,  
Whose loves are multiform;  
No shape of earth or sky  
But wakes the thin, sweet storm—  
Of love in the wanton eye.

The apple-flower in May,  
The bare branch, black and wet,  
Are love in the eye's way  
Of loving — to forget . . .  
What were the boughs of May

— Or anything gone by —  
To the amorous, wanton eye?

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Th.	♋ ♀ ♀ ☾ rides low. Tides {8.4, 9.6}	Quite
2	Fr.	♋ ♀ ☽ ♋ VJ Day 1945 Tides {8.2, 9.5}	
3	Sa.	Manchester, N.H. hist. bez. 1751 Tides {8.8, 9.6}	gen-
4	B	12th S. a. T. Tides {8.5, 9.7}	erally
5	M.	Labor Day. Tides {8.8, 9.8}	nice.
6	Tu.	♀ in ☿ Worst bay fever now Tides {9.1, 9.9}	
7	W.	♀ Gr. El. John L. Sullivan E. k.o'd 1892 {9.3, 9.8}	May
8	Th.	Nat. of Mary. ☽ on ☾ Eq. Tides {9.5, —}	rain
9	Fr.	W. H. Caldwell Hol. d. 1947 Cal. {9.7, 9.6}	some
10	Sa.	☾ Apo. in "Don't give up the ship" 1813 {9.5, 9.6}	but
11	B	14th S. a. ♀. Tides {9.2, 9.5}	
12	M.	♋ ♀ ♀ Election Day Hol. Maine Md. {8.9, 9.4}	mild
13	Tu.	Pershing h. 1860 Tides {8.5, 9.2}	enough.
14	W.	Holy Cross. Tides {8.1, 9.0}	
15	Th.	"Better to have loved and lost" 1833 {7.8, 8.8}	These
16	Fr.	St. Euphemia. ♋ ☽ ☾ runs high {7.6, 8.9}	two
17	Sa.	Constitution Day Tides {7.7, 9.0}	weeks may
18	B	14th S. a. T. ☽ Stat. in R. A. ☽ ☽ ☾ {8.0, 9.4}	
19	M.	1938 Hurricane 17-21st Tides {8.6, 10.0}	bring bad
20	Tu.	World's Fair Tunbridge, Vt. ♀ Stat. in R. A. {9.3, 10.8}	storms
21	W.	St. Mathew. ♋ ☽ ☽ Gr. Hel. Lat. S. {10.1, 11.0}	
22	Th.	☾ in ☾ Peri. ☾ Eq. [21st Embur Day] {10.8, 11.3}	
23	Fr.	☾ en. ☽ AUTUMN 4.06 BEGINS. A. M. ☽ ♀ ☾ {11.3, —}	
24	Sa.	Embur Day [23rd American Indian Day] {11.3, 11.5}	
25	B	16th S. a. ♀. D. S. T. ends Jewish New Year some places {10.5, 11.0, 11.5}	of wind
26	M.	{10.5, 11.2} [25th ♋ ☽ ☽] {11.0, 11.5}	and rain.
27	Tu.	♋ ♀ ♀ Tides {9.9, 10.7}	
28	W.	☽ ☽ ☽ ☾ rides low. Detroit evac. by Br. 1813 {9.2, 10.1}	
29	Th.	Michaelmas. Miami hurricane 1947 {8.6, 9.6}	
30	Fr.	♋ ♀ ☾ Tides {8.2, 9.2}	Much cooler.

It used to be that a man's ladder was a pleasant thing, his own, as comfortable to him as pipe or dog. It made him know his strength and be proud of to lift that twenty-five foot monstrosity—homemade—that hung along the barn wall. He loved every clumsy rung of it—loved it the more that it was awkward and heavy, for despite this he was its master and he could set it with ease where he would. Lesser men might stagger and strain and grunt to raise it—and fail. Not he. This was a man's ladder. His.

But that was yesterday, a pretty long ago yesterday, and though there is still plenty of use for ladders, the ladder as a personality, a loved thing, belongs to the horse and buggy era. To-day we have new and extremely light metal ladders—"easy ladders"—that are just the thing for orchard work. Even the young sprouts that call themselves apple pickers (God knows why) will be able to handle these. But the demand for these ladders remains greater than the supply. If you can't get them, isn't there someone in your town that can still turn out those good old-fashioned split spruce ladders? Why not figure to make yourself some next winter. If you do, be sure to cut your trees now that you may have a chance to split and dry them before you tackle the job of putting the rungs in.

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## OCTOBER, TENTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	3s.	15	7	5 34	13	7 50	19	10 02	25	12 10					
2	3	38	8	5 57	14	8 12	20	10 24	26	12 30						
3	4	01	9	6 20	15	8 35	21	10 45	27	12 51						
4	4	25	10	6 42	16	8 57	22	11 07	28	13 11						
5	4	48	11	7 05	17	9 19	23	11 28	29	13 31						
6	5	11	12	7 28	18	9 41	24	11 49	30	13 50						

○ Full Moon, 6th day, 9 h. 52 m., evening, E.

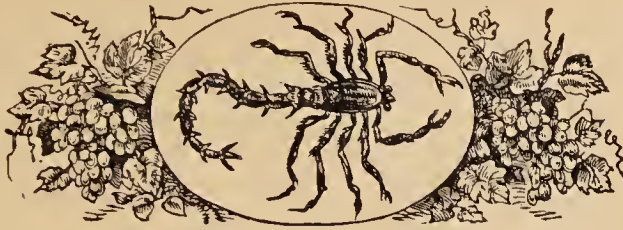
☾ Last Quarter, 14th day, 11 h. 06 m., evening, E.

● New Moon, 21st day, 4 h. 23 m., evening, W.

☽ First Quarter, 28th day, 12 h. 04 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉		Key	☽		Key	Length of Days.		Sun Past.	Full Sea, Boston.		D	Key	D		D's Place	Moon's Age
			Rises.	h. m.		Sets.	h. m.		h. m.	h. m.		Morn.	Even.			h. m.	h. m.		
274	1	Sa.	5 40	J	5 27	H	11 46	26	6 <sup>3</sup> / <sub>4</sub>	7	—	—	8 <sup>F</sup> / <sub>M</sub> 08	Aqr	10				
275	2	S	5 41	J	5 25	H	11 44	26	7 <sup>3</sup> / <sub>4</sub>	8	12 <sup>A</sup> / <sub>M</sub> 56	C	8 54	Aqr	11				
276	3	M.	5 43	J	5 23	H	11 41	26	8 <sup>3</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>4</sub>	2 03	E	9 37	Psc	12				
277	4	Tu.	5 44	J	5 22	H	11 38	27	9 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>4</sub>	3 07	F	10 17	Psc	13				
278	5	W.	5 45	J	5 20	H	11 35	27	10	10 <sup>1</sup> / <sub>4</sub>	4 <sup>A</sup> / <sub>M</sub> 09	H	10 57	Ari	14				
279	6	Th.	5 46	J	5 18	H	11 32	28	10 <sup>3</sup> / <sub>4</sub>	11	rises	—	11 35	Ari	15				
280	7	Fr.	5 47	J	5 16	H	11 29	28	11 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>2</sub>	5 <sup>P</sup> / <sub>M</sub> 29	F	—	—	—				
281	8	Sa.	5 48	J	5 15	H	11 27	28	11 <sup>3</sup> / <sub>4</sub>	—	5 48	E	12 <sup>A</sup> / <sub>M</sub> 15	Ari	16				
282	9	S	5 49	J	5 13	H	11 24	28	0 <sup>1</sup> / <sub>4</sub>	0 <sup>1</sup> / <sub>4</sub>	6 11	C	12 56	Tau	17				
283	10	M.	5 50	K	5 11	G	11 21	29	0 <sup>3</sup> / <sub>4</sub>	1	6 39	A	1 40	Tau	18				
284	11	Tu.	5 52	K	5 10	G	11 18	29	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	7 13	A	2 27	G'm	19				
285	12	W.	5 53	K	5 08	G	11 15	29	2 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	7 57	A	3 18	G'm	20				
286	13	Th.	5 54	K	5 07	G	11 13	30	3	3	8 50	A	4 12	G'm	21				
287	14	Fr.	5 55	K	5 05	G	11 10	30	3 <sup>3</sup> / <sub>4</sub>	4	9 54	A	5 07	Cnc	22				
288	15	Sa.	5 56	K	5 03	G	11 07	30	4 <sup>3</sup> / <sub>4</sub>	5	11 <sup>P</sup> / <sub>M</sub> 05	A	6 03	Cnc	23				
289	16	S	5 57	K	5 02	G	11 04	30	5 <sup>3</sup> / <sub>4</sub>	6	—	—	6 58	Leo	24				
290	17	M.	5 59	K	5 00	G	11 02	30	6 <sup>3</sup> / <sub>4</sub>	7	12 <sup>A</sup> / <sub>M</sub> 21	C	7 51	Leo	25				
291	18	Tu.	6 00	K	4 59	G	10 59	31	7 <sup>3</sup> / <sub>4</sub>	8	1 39	E	8 43	Vir	26				
292	19	W.	6 01	K	4 57	G	10 56	31	8 <sup>1</sup> / <sub>2</sub>	9	2 <sup>A</sup> / <sub>M</sub> 57	G	9 33	Vir	27				
293	20	Th.	6 02	K	4 55	F	10 53	31	9 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>4</sub>	sets	—	10 24	Lib	28				
294	21	Fr.	6 03	L	4 54	F	10 51	31	10 <sup>1</sup> / <sub>4</sub>	10 <sup>3</sup> / <sub>4</sub>	4 <sup>P</sup> / <sub>M</sub> 43	F	11 <sup>A</sup> / <sub>M</sub> 16	Lib	29				
295	22	Sa.	6 04	L	4 52	F	10 48	31	11	11 <sup>1</sup> / <sub>2</sub>	5 12	D	12 <sup>P</sup> / <sub>M</sub> 11	Scor	1				
296	23	S	6 06	L	4 51	F	10 45	31	11 <sup>3</sup> / <sub>4</sub>	—	5 47	B	1 10	Scor	2				
297	24	M.	6 07	L	4 50	F	10 43	32	0 <sup>1</sup> / <sub>2</sub>	0 <sup>3</sup> / <sub>4</sub>	6 30	B	2 10	Sag	3				
298	25	Tu.	6 08	L	4 48	F	10 40	32	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	7 24	B	3 13	Sag	4				
299	26	W.	6 09	L	4 47	F	10 37	32	2 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	8 27	B	4 14	Cap	5				
300	27	Th.	6 11	L	4 45	F	10 35	32	3	3 <sup>1</sup> / <sub>4</sub>	9 36	B	5 11	Cap	6				
301	28	Fr.	6 12	L	4 44	F	10 32	32	4	4 <sup>1</sup> / <sub>4</sub>	10 46	C	6 04	Aqr	7				
302	29	Sa.	6 13	L	4 42	F	10 29	32	5 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	11 <sup>P</sup> / <sub>M</sub> 54	D	6 52	Aqr	8				
303	30	S	6 14	L	4 41	E	10 27	32	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>	—	—	7 36	Psc	9				
304	31	M.	6 16	M	4 40	E	10 24	32	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>2</sub>	12 <sup>A</sup> / <sub>M</sub> 59	F	8 <sup>P</sup> / <sub>M</sub> 17	Psc	10				



Loving their stilled reflection in the pool,  
The tall, narcissian trees incline to think  
How nothing at all is half so beautiful;

They loiter, lovely, at the grassy brink,  
Like women spelled with love, and grave and cool,  
Themselves the sweetest waters that they drink,

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Sa.	First jet plane 1942	
2	B	16th S. af. T. Tides {8.1 9.0	These
3	M.	Day of Atonement ♂♀☉ Inf. {8.5 9.2	are
4	Tu.	St. Fr. of Assisi. Tides {8.8 9.8	
5	W.	20° 1880 Tides {9.2 9.3	the
6	Th.	Harvest Moon ☾ Eclipse ☾ on Eq. Mo. {9.4 9.8	for the death and decay of untold other generations of leaves.
7	Fr.	Trees were hlushing 1947 ☾ Apo. Tides {9.6 9.2	nice
8	Sa.	Succoth ♂Ψ☉ Tides {9.7	
9	B	18th S.a.Ⓟ. Abraham St. Denis {9.1 9.7	cool
10	M.	♀ Aph. ♀ in Ⓟ in Ⓟ Tides {8.9 9.7	
11	Tu.	Stat. in R.A. ♀ Stat. in R.A. Tides {8.6 9.5	zippy
12	W.	Columbus Day. Hol. N. Dak. Wisc. {8.3 9.4	
13	Th.	♂♂☾☾ runs high. Tides {8.0 9.2	weeks
14	Fr.	Bermuda Sky Queen ♀ in {7.8 9.0	
15	Sa.	Rescue 1947 10 days lost Tides {7.8 9.0	of
16	B	18th S.a.T. Simchath Torah Tides {8.0 9.2	
17	M.	☐☽☉ ♂♂☾ Tides {8.5 9.5	this
18	Tu.	St. Luke. ♂h☾ Tides {9.2 10.0	
19	W.	Gr.El. W. Barometer inv. 1644 Tides {10.0 10.5	
20	Th.	♂♀☾♂Ψ☾☾ on Eq. Tides {10.7 10.8	year.
21	Fr.	Partial Eclipse ☾ in ☾ Perl. Tides {11.3 11.0	
22	Sa.	U. of Pa. fd. 1682 Tides {11.7 10.9	
23	B	20th S.a.Ⓟ. World created 4004 B.C. {11.3	
24	M.	1st killing frost ♂♀☾ Tides {10.6 11.6	
25	Tu.	Gr. Hel. lat. N. ♂♀Ψ Tides {10.1 11.2	This
26	W.	☾ rides low. Tides {9.5 10.6	
27	Th.	Navy Day ♂☽☾ Tides {8.9 9.9	one
28	Fr.	St. Simon & St. Jude. Tides {8.5 9.3	will
29	Sa.	Statue Liberty dedicated (28th) 1886 {8.2 8.9	be
30	B	Mission S. Christ the king Tides {8.1 8.6	
31	M.	Halloween. Hol. Nev. Tides {8.8 8.6	foul.

Brisk October nips each leaf—the rusty elm, the scarlet maple, the pale platinum beech, the golden birch leaf—and each comes fluttering down to the earth cover that grows richer each year for the death and decay of untold other generations of leaves.

If you would see the life of your forest—yes, and hear it—go to the beech knolls. The squirrels are at a continuous scuffle and scattering in the leaves where the beech nuts hide. There, too, are the partridges and the jays. And at night on these misty ridges the deer will nuzzle along under the trees, feeling out with their sensitive lips the triangular hardness of each nut. And the black bears will make crunching feasts in the darkness.

As soon as the fruit is picked in the orchards, look to protecting your young fruit trees for the winter. Be sure that the base of each young tree is kept free of litter, and that each tree has an eighteen inch sleeve of three quarter inch mesh wire around its trunk. Have the wire three or four inches into the soil. These are precautions against mice. If your mouse problem is serious, use poison. Put a small amount of poisoned grain in a tin can whose cover is pushed in far enough for mice to enter, but not birds or larger animals. Place a can under each tree. Short, stout planks with the grain under them will also serve.



## 1949] NOVEMBER, ELEVENTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	14s.	29	7	16 20	13	18 01	19	19 30	25	20 47					
2	14	48	8	16 38	14	18 17	20	19 44	26	20 59						
3	15	07	9	16 55	15	18 32	21	19 58	27	21 10						
4	15	26	10	17 12	16	18 47	22	20 11	28	21 21						
5	15	44	11	17 28	17	19 02	23	20 23	29	21 31						
6	16	02	12	17 45	18	19 17	24	20 36	30	21 41						

- Full Moon, 5th day, 4 h. 09 m., evening, E.  
 ☾ Last Quarter, 13th day, 10 h. 47 m., morning, W.  
 ● New Moon, 20th day, 2 h. 29 m., morning, E.  
 ☽ First Quarter, 27th day, 5 h. 01 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉ Rises.		Key	☉ Sets.		Key	Length of Days.		Sun Past.	Full Sea. Boston.		☽ Sets.	Key	☽ Souths.		☽'s Place	Moon's Age
			h.	m.		h.	m.		h.	m.		h.	m.			h.	m.		
305	1	Tu.	6 17	M	4 39	E	10 22	32	8	8 $\frac{1}{2}$	2 <sup>A</sup> 02	G	8 <sup>P</sup> 56	Psc	11				
306	2	W.	6 18	M	4 37	E	10 19	32	8 $\frac{3}{4}$	9 $\frac{1}{4}$	3 03	I	9 35	Ari	12				
307	3	Th.	6 19	M	4 36	E	10 17	32	9 $\frac{1}{2}$	9 $\frac{3}{4}$	4 <sup>A</sup> 03	J	10 14	Ari	13				
308	4	Fr.	6 20	M	4 35	E	10 14	32	10	10 $\frac{1}{2}$	rises	—	10 55	Tau	14				
309	5	Sa.	6 22	M	4 34	E	10 12	32	10 $\frac{3}{4}$	11	4 <sup>P</sup> 16	D	11 <sup>P</sup> 38	Tau	15				
310	6	S.	6 23	M	4 32	E	10 09	32	11 $\frac{1}{4}$	11 $\frac{3}{4}$	4 42	B	—	—	—				
311	7	M.	6 24	M	4 31	E	10 07	32	11 $\frac{3}{4}$	—	5 15	A	12 <sup>A</sup> 25	Tau	16				
312	8	Tu.	6 25	M	4 30	E	10 05	32	0 $\frac{1}{2}$	0 $\frac{1}{2}$	5 55	A	1 14	G'm	17				
313	9	W.	6 27	N	4 29	D	10 02	32	1	1 $\frac{1}{4}$	6 45	A	2 07	G'm	18				
314	10	Th.	6 28	N	4 28	D	10 00	32	1 $\frac{3}{4}$	1 $\frac{3}{4}$	7 46	A	3 02	Cnc	19				
315	11	Fr.	6 29	N	4 27	D	9 58	32	2 $\frac{1}{2}$	2 $\frac{3}{4}$	8 53	A	3 57	Cnc	20				
316	12	Sa.	6 31	N	4 26	D	9 55	32	3 $\frac{1}{2}$	3 $\frac{1}{2}$	10 06	B	4 51	Leo	22				
317	13	S.	6 32	N	4 25	D	9 53	31	4 $\frac{1}{4}$	4 $\frac{1}{2}$	11 <sup>P</sup> 20	D	5 43	Leo	23				
318	14	M.	6 33	N	4 23	D	9 50	31	5 $\frac{1}{4}$	5 $\frac{1}{2}$	—	—	6 33	Vir	24				
319	15	Tu.	6 34	N	4 23	D	9 49	31	6 $\frac{1}{4}$	6 $\frac{1}{2}$	12 <sup>A</sup> 35	F	7 22	Vir	25				
320	16	W.	6 35	N	4 22	D	9 47	31	7 $\frac{1}{4}$	7 $\frac{1}{2}$	1 50	H	8 11	Lib	26				
321	17	Th.	6 37	N	4 21	D	9 45	30	8	8 $\frac{1}{2}$	3 07	J	9 01	Lib	27				
322	18	Fr.	6 38	N	4 21	D	9 43	30	9	9 $\frac{1}{2}$	4 26	L	9 53	Sco	28				
323	19	Sa.	6 39	N	4 20	D	9 41	30	9 $\frac{3}{4}$	10 $\frac{1}{2}$	5 <sup>A</sup> 50	N	10 49	Sco	29				
324	20	S.	6 40	O	4 19	C	9 39	30	10 $\frac{3}{4}$	11 $\frac{1}{4}$	sets	—	11 <sup>A</sup> 49	Sag	0				
325	21	M.	6 42	O	4 18	C	9 37	30	11 $\frac{1}{2}$	—	5 <sup>P</sup> 08	B	12 <sup>P</sup> 53	Sag	1				
326	22	T.	6 43	O	4 18	C	9 35	30	0 $\frac{1}{4}$	0 $\frac{1}{4}$	6 08	B	1 56	Cap	2				
327	23	W.	6 44	O	4 17	C	9 33	29	1	1 $\frac{1}{4}$	7 17	B	2 58	Cap	4				
328	24	Th.	6 45	O	4 16	C	9 31	29	1 $\frac{3}{4}$	2	8 29	B	3 54	Aqr	5				
329	25	Fr.	6 46	O	4 16	C	9 29	29	2 $\frac{3}{4}$	3	9 40	D	4 46	Aqr	6				
330	26	Sa.	6 48	O	4 15	C	9 28	28	3 $\frac{3}{4}$	4	10 48	E	5 32	Aqr	7				
331	27	S.	6 49	O	4 15	C	9 26	28	4 $\frac{3}{4}$	5	11 <sup>P</sup> 51	G	6 14	Psc	8				
332	28	M.	6 50	O	4 15	C	9 25	28	5 $\frac{1}{2}$	6	—	—	6 55	Psc	9				
333	29	Tu.	6 51	O	4 14	C	9 23	27	6 $\frac{1}{2}$	6 $\frac{3}{4}$	12 <sup>A</sup> 53	H	7 34	Ari	10				
334	30	W.	6 52	O	4 14	C	9 22	27	7 $\frac{1}{4}$	7 $\frac{3}{4}$	1 <sup>A</sup> 54	J	8 <sup>P</sup> 12	Ari	11				



November, beyond grieving, is grown bold,  
 In eye and posture, bold; settled in lack,  
 No longer weeping with leaves — the leaves gone;  
 The air not soft with sorrow, the air cold,  
 And clear in knowledge that no leaf comes back,  
 That once has fallen away . . . that lack stays on.  
 Such are the bold toward time; they fear him not. —  
 What could time do to lack, which is their lot?

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Tu.	All Saints Day. Hol. La. Tides {8.5 8.6	<i>It</i> We hope this year that
2	W.	♀ Gr. Hel. ☾ on Tides {8.9 8.7	you have fall-seeded some
3	Th.	Lat. S. ☾ on Tides {8.9 8.7	kind of crop cover for your
4	Fr.	in J. G. Winant {9.2 Apo. suicide, 1947 {8.8	<i>could</i> bare fields. Again, it is the
5	Sa.	Hunter's Moon (5th) Tides {9.4 8.8	<i>snow.</i> eternal question of erosion.
6	B	Fawkes Gunpowder Plot Tides {9.6 8.7	We've got to cover our soil
7	M.	22nd S. a. ♀. Tides {9.7 8.7	or lose it.
8	Tu.	No. Africa Inv. 1942 Tides {9.8 —	Most of us think of water
9	W.	Election Day. Tides {8.5 9.3	erosion as taking place only
10	Th.	♂ ☽ ☾ ☾ Runs high Tides {8.4 9.7	where the land slopes so
11	Fr.	Mohamet 300,000 born 570 Asteroids seen Boston 1833 {8.2 9.5	<i>don</i> much that quantities of soil
12	Sa.	Armistice Day {8.1 9.4	<i>your</i> are washed, or gullyed, away.
13	B	St. Martin. Tides {8.1 9.3	In our bare fields after rain
14	M.	22nd S. a. ☽. Indian Summer begins Tides {8.2 9.2	We look for the miniature
15	Tu.	♂ ☽ ☾ America ext. to Pacific 1805 {8.6 9.3	<i>Cold</i> canyons through which have
16	W.	Geo. W. Mitton d. 1947 ☽ ☽ ☾ Tides {9.1 9.5	tumbled tiny Colorados brown
17	Th.	Okla. adm. to Unlon, 1907 ☾ on Eq. {9.7 9.8	with our top soil. And, of
18	Fr.	♂ ☽ ☾ ♀ in ☽ Suez Canal op. 1869 {10.4 10.1	course, we can always go out
19	Sa.	Great No. Am. quake 1755 ☾ in Peri {11.0 10.8	<i>Signs</i> the north pasture to the great
20	B	Coast of Chile rose 3 ft. 1822 Tides {11.5 10.4	water-washed gully—long as
21	M.	23rd S. a. ☽. ☽ ☽ ☾ ♀ Gr. E. E. {11.7 10.8	the barnyard. Overgrazing on
22	Tu.	♂ ☽ ☽ Sup. [20th Important people] born this day {11.7 —	a sharp slope started that.
23	W.	☾ rides low. {10.1 11.5	[21st The Presentation] {11.7 —
24	Th.	♂ ☽ ☾ ☽ in Md. Hol. {9.7 11.0	<i>of</i> But there is another kind of
25	Fr.	Thanks. Day. ☽ ☽ ☾ {9.3 10.4	<i>snow or</i> erosion—"splash" erosion, so
26	Sa.	Gale 1888 Tides {8.9 9.8	<i>rain.</i> known when most of the
27	B	Total storm 1898 Tides {8.5 9.2	erosion in an uncovered field
28	M.	1st S. in A. ♀ in Aph. {8.3 8.7	<i>Winter</i> is caused by raindrop splashes
29	Tu.	{8.3 [27th Week long hurricane] London 1703 {8.3 8.2	and little if any by the scouring
30	W.	☾ on F. q. {8.4 [28th Cocoanut Grove] fire 1942 {8.6 8.1	<i>stay.</i> action of surface flow. We
		St. Andrew. ☽ ☽ ☽ Tides {8.6 8.1	find then the soil under sticks

1949] DECEMBER, TWELFTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	21	s. 50	7	22	38	13	23	10	19	23	26	25	23	24	23
2	21	59	8	22	45	14	23	14	20	23	26	26	23	22	23	22
3	22	08	9	22	51	15	23	17	21	23	27	27	23	20	23	20
4	22	16	10	22	56	16	23	20	22	23	27	28	23	17	23	17
5	22	24	11	23	01	17	23	22	23	23	26	29	23	13	23	13
6	22	31	12	23	06	18	23	24	24	23	25	30	23	10	23	10

- Full Moon, 5th day, 10 h. 13 m., morning, W.
- ☾ Last Quarter, 12th day, 8 h. 48 m., evening, E.
- New Moon, 19th day, 1 h. 55 m., evening, W.
- ☽ First Quarter, 27th day, 1 h. 31 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	☉ Key	☉ Sets. h. m.	☉ Key	Length of Days. h. m.	☀ Sun East. m.	Full Sea. Morn. h. Even. h.	☽ Sets. h. m.	☽ Key	☽ Souths. h. m.	☽ Place	☽'s Moon's Age
335	1	Th.	6 53	O	4 13	C	9 20	27	8 $\frac{1}{4}$ 8 $\frac{1}{2}$	2 $\frac{A}{M}$ 55	K	8 $\frac{P}{M}$ 53	Tau	12
336	2	Fr.	6 54	O	4 13	C	9 19	26	8 $\frac{3}{4}$ 9 $\frac{1}{4}$	3 58	M	9 35	Tau	13
337	3	Sa.	6 55	O	4 13	C	9 18	26	9 $\frac{1}{2}$ 10	5 02	O	10 20	Tau	14
338	4	S	6 56	O	4 13	C	9 16	25	10 $\frac{1}{4}$ 10 $\frac{3}{4}$	6 $\frac{A}{M}$ 07	Q	11 $\frac{P}{M}$ 10	G'm	15
339	5	M.	6 57	P	4 12	B	9 15	25	10 $\frac{3}{4}$ 11 $\frac{1}{4}$	rises	—	—	—	—
340	6	Tu.	6 58	P	4 12	B	9 14	25	11 $\frac{1}{2}$ —	4 $\frac{P}{M}$ 40	A	12 $\frac{A}{M}$ 02	G'm	16
341	7	W.	6 59	P	4 12	B	9 13	24	0 0	5 39	A	12 57	Cnc	17
342	8	Th.	7 00	P	4 12	B	9 12	24	0 $\frac{3}{4}$ 0 $\frac{3}{4}$	6 45	A	1 53	Cnc	18
343	9	Fr.	7 01	P	4 12	B	9 11	23	1 $\frac{1}{2}$ 1 $\frac{1}{2}$	7 57	B	2 47	Cnc	19
344	10	Sa.	7 02	P	4 12	B	9 10	23	2 $\frac{1}{4}$ 2 $\frac{1}{4}$	9 10	D	3 40	Leo	20
345	11	S	7 03	P	4 12	B	9 09	22	3 3 $\frac{1}{4}$	10 23	F	4 30	Leo	21
346	12	M.	7 04	P	4 12	B	9 09	22	3 $\frac{3}{4}$ 4 $\frac{1}{4}$	11 $\frac{P}{M}$ 36	H	5 18	Vir	22
347	13	Tu.	7 04	P	4 13	B	9 08	22	4 $\frac{3}{4}$ 5 $\frac{1}{4}$	—	—	6 05	Vir	23
348	14	W.	7 05	P	4 13	B	9 08	21	5 $\frac{3}{4}$ 6 $\frac{1}{4}$	12 $\frac{A}{M}$ 50	I	6 53	Lib	24
349	15	Th.	7 06	P	4 13	B	9 07	21	6 $\frac{3}{4}$ 7 $\frac{1}{4}$	2 05	K	7 42	Lib	25
350	16	Fr.	7 07	P	4 13	B	9 07	20	7 $\frac{3}{4}$ 8 $\frac{1}{4}$	3 24	M	8 34	Sco	26
351	17	Sa.	7 07	P	4 14	B	9 06	20	8 $\frac{1}{2}$ 9 $\frac{1}{4}$	4 45	O	9 31	Sco	27
352	18	S	7 08	P	4 14	B	9 06	19	9 $\frac{1}{2}$ 10	6 $\frac{A}{M}$ 05	P	10 32	Sag	28
353	19	M.	7 08	P	4 14	B	9 06	19	10 $\frac{1}{4}$ 11	sets	—	11 $\frac{A}{M}$ 35	Sag	29
354	20	Tu.	7 09	P	4 15	B	9 06	18	11 $\frac{1}{4}$ 11 $\frac{3}{4}$	5 $\frac{P}{M}$ 51	B	12 $\frac{M}$ 38	Cap	1
355	21	W.	7 10	P	4 15	B	9 06	18	— 0	6 04	B	1 39	Cap	2
356	22	Th.	7 10	P	4 16	B	9 06	17	0 $\frac{3}{4}$ 0 $\frac{3}{4}$	7 20	C	2 34	Aqr	3
357	23	Fr.	7 11	P	4 16	B	9 06	17	1 $\frac{1}{2}$ 1 $\frac{3}{4}$	8 30	E	3 23	Aqr	4
358	24	Sa.	7 11	P	4 17	B	9 06	16	2 $\frac{1}{4}$ 2 $\frac{1}{2}$	9 38	F	4 08	Psc	5
359	25	S	7 11	P	4 18	B	9 06	16	3 $\frac{1}{4}$ 3 $\frac{1}{4}$	10 41	H	4 50	Psc	6
360	26	M.	7 12	P	4 18	B	9 07	15	4 4 $\frac{1}{4}$	11 $\frac{P}{M}$ 43	I	5 30	Ari	7
361	27	Tu.	7 12	P	4 19	B	9 07	15	4 $\frac{3}{4}$ 5 $\frac{1}{4}$	—	—	6 09	Ari	8
362	28	W.	7 12	P	4 20	B	9 08	14	5 $\frac{3}{4}$ 6	12 $\frac{A}{M}$ 45	K	6 49	Ari	9
363	29	Th.	7 13	P	4 21	B	9 08	14	6 $\frac{1}{2}$ 7	1 46	L	7 30	Tau	10
364	30	Fr.	7 13	P	4 22	B	9 09	13	7 $\frac{1}{2}$ 7 $\frac{3}{4}$	2 50	N	8 14	Tau	11
365	31	Sa.	7 13	P	4 23	B	9 10	13	8 $\frac{1}{4}$ 8 $\frac{3}{4}$	3 $\frac{A}{M}$ 54	P	9 $\frac{P}{M}$ 02	G'm	12



DECEMBER hath 31 days.

[1949



Made pensive by the way of snow;  
The wavering, uncertain, slow  
Declension — spreading, with no sound,  
Over the scarred, uneven ground.

Maa watches, thinking hate and love  
And the brown, aging sears thereof,  
Like earth, now, might be lost, and all,  
Like earth, be stilled and virginal, —

Like his own heart, indeed, where all  
Is stilled, and newly virginal,

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Th.	"Black Hank" in d. 1856 Apo. {8.3 Blustery	<p>In December, poised on the very rim of the icy cup of winter, it is as if we were given a clairvoyance with which better to see and understand the troubles and longings and beauty of this world—and men's hearts. Of the good green summer over, of the long grey winter ahead, our minds are sharp with contrasts. In the bite of twilight our thoughts, too, are keened and quickened. In looking to our own comfort and security—the filled woodshed, the well-banked house, the armory of food in the cellar—in looking to these, there comes a truer sense of the other fellow's lacks and hungers. Clear as Monadnock against the December sky we have the meaning of our own lives in this strange and lovely world—a world of want and plenty, peace and war—all that is worst in mankind and all that is best. No life has meaning save as it touches others and reaches out to as much of humanity as it may cheer and help.</p> <p>In the country here we like to think that this "December" wisdom springs partly from the fact that we can look, when we will, over the long valley to the whitening shoulder of the mountain. But in truth we know, that as much wisdom as we or any man may find can be sought and found in the windows or on doorsteps, at street corners or altars—or from mountains everywhere. It is a wisdom that springs from the heart alone. It is the heart that must see.</p>
2	Fr.	Atomic Age born 1942 Tides {9.1 and {8.2	
3	Sa.	"On Linden when the sun was low" 1800 Tides {9.3 and {8.2	
4	C	2d S. in Ad. Tides {9.5 and {8.2	
5	M.	Bible trans. to Eng. 1611 Tides {9.7 and {8.3 un-	
6	Tu.	♂♀ C Runs high {9.3 comfortable.	
7	W.	Pearl Harbor Del. ♂♂ C {8.3 and {9.9	
8	Th.	Immaculate Conception {9.3 Milder	
9	Fr.	First Lady Actor app. 1660 (8th) Kelly & Levin 1941 Tides {8.4 and {9.7 but	
10	Sa.	3d S. in Ad. □ h ⊙ Tides {8.6 and {9.6 almost	
11	C	Dartmouth inc. 1769 (13th) ♂ h C {8.3 and {9.5 almost	
12	M.	St. Lucy, ♂♂ C on Eq. Tides {9.2 and {9.4	
13	Tu.	Nostradamus born 1503 ♂ψ C Tides {9.6 and {9.4	
14	W.	Bill of Rights 1791 ♂ Gr. Hel. Lat. N. {10.1 and {9.4 no	
15	Th.	The Haleyon Tides {10.6 and {9.6 sun-	
16	Fr.	is breeding Hesperus 1839 C in Peri. {11.0 and {9.7 shine.	
17	Sa.	4th S. in Ad. ♂ Gr. Hel. Lat. S. Tides {11.3 and {9.7	
18	C	King Phillip def. 1675 □ ♂ C rides low. {11.4 and {9.7	
19	M.	N.E. Quake 1940 ♂ψ C Tides {11.4 and {9.6 Snows.	
20	Tu.	WIN. BEG. en. ♀ 11.24 P.M. Day Ember {11.2 and {11.2	
21	W.	Ember Day ♂♀ C ♂♀ C [21st Day Forefather's Day {9.5 and {10.8	
22	Th.	Connie Mack b. 1832 {9.2 and {10.3 [22nd Day {9.5 and {10.8	
23	Fr.	Darlan ass. 1942 Day ♂♂ C Tides {9.0 and {9.7	
24	Sa.	Christmas Day. {8.7 and {9.1 Colder.	
25	C	St. Stephen. ♀ Greatest brilliancy C on Eq. {8.6 and {8.6	
26	M.	St. John. Chan-ukab Tides {8.5 and {8.1 No	
27	Tu.	Childermas. ♀ in ♂ C in Apo. Tides {8.5 and {7.3	
28	W.	1167 warships U.S. Fleet 1944 Tides {7.5 and {8.7 comfort in	
29	Th.	50° below Bloomfield, Vermont, 1933 Tides {8.7 and {7.6 these	
30	Fr.	Alfred E. Smith b. 1873 h Stat. in R.A. {8.9 and {7.7 days.	
31	Sa.		

## NEW ENGLAND'S GREATEST FIRES

### The Holocausts of October 1947

The New England summer had come to an end with a record of less than fifty per cent of normal precipitation for the months of August and September. And now the real drought was to begin. The parched earth shriveled and turned to dust, the dry woodland became potentially a tinder box. Week followed week without rain, temperatures soared into the high 80's and the humidity was as low as 17 per cent. If New England had recorded longer droughts, never had she known one that flashed danger red in so many ways. (For the first 28 days in October the average rainfall for the six state region was only 0.15 of an inch, while in Boston from September 23 through October 28 only 0.06 occurred.) As dry September turned the corner into drier October, anything could start a fire—and did—the spark from a passing train, a carelessly dropped match or cigarette butt, the logger's saw against hardwood, the picnicker's empty bottle refracting the sun's rays, the purposeful torch of the firebug. With increasing regularity the fires sprang up. And no fire could really be put out—not till the rains came. And then as the hot dry winds began to blow and the humidity became less and less suddenly and with almost devilish spontaneity the old fires fanned to life and new ones by the scores mysteriously appeared. The errant winds swept them back and forth roaring and crackling, traveling faster than a horse could run. Down the full length of the Maine coastline to the Cape the world was shrouded in smoke. In the throb and glow of the fires at night there was a primitive terror that New England has seldom known. There seemed no defense against this tidal wave of fire.

There wasn't the know-how to fight this sort of thing, nor the organization, nor adequate water nor weapons to fight with, and the unpredictable fires moved in every direction with incredible speed. The fighters never had a chance to get on balance. The days from the middle of October through the first week in November were about as close to panic as New England could come.

The red climax of flame came on October 23 with the burning of fashionable Bar Harbor on Maine's Mt. Desert Island. In a few hours \$10,000,000 worth of palatial homes and the Jackson Memorial Laboratory, with its irreplaceable records of 90,000 precious mice, which had been carefully inbred for generations to produce various manifestations of cancer, had been destroyed. Headlines screamed the story—"Fire Traps 3500 at Bar Harbor—1500 Huddle on Field—2000 More On Beach." The story of the evacuation from the beach read like a second Dunkirk—but unlike Dunkirk, the story was untrue. Bar Harbor itself did not burn. Nobody got off in a boat. But the scarehead story did as much harm as the fire!

Reports of other disastrous fires came in on every hand. Seven hundred evacuated Wells, Maine, as flames devoured the village. The entire city of Biddeford was threatened. Yet, curiously, here and there between the rains stood unscorched shade trees and clusters of firs and pines.

Maine's Governor Horace A. Hildreth called on Maine's citizens everywhere to organize on a wartime footing against "the greatest economic catastrophe in the state's history."

As flaming October gave way to cool November, the worst of the danger had past. New England counted the cost—close to a \$50,000,000 loss, more than a thousand homes burned, 2500 made homeless, 13 killed, upwards of 100,000 acres of woodlands destroyed.

## 1949 GOOD HOLIDAY WEEKEND YEAR

In 1949, there will be two "Saturday holidays"—New Year's and Lincoln's—five "Monday or Friday holidays"—Good Friday (April 15), Memorial Day (Mon., May 30), July 4 (Mon.), Sept. 5 (Labor Day Mon.), and Armistice Day (Nov. 11, Fri.) This gives a total of at least seven planned week-end trips. Those in a position to stretch their week-ends might also look into Inaugural Day (Thursday, Jan. 20), Washington's (Tuesday, Feb. 22), Patriots' (Tuesday, Apr. 19), and Thanksgiving on Thursday, November 24th. Christmas Day in 1949 falls on a Sunday—supposed to mean way back in the 15th century that the winter will be "troublesome—and mingled with waters strong."

## MOTOR VEHICLE LAWS — APRIL 1, 1948

Source: American Automobile Association

State	Speed limit (R—reasonable)	Date new license plates can be used	Driving license* Minimum age	Gasoline tax	Percent sales tax	Period of stay <sup>1</sup>	Safety responsibility law	Certificate of title required
Alabama.....	R	Oct. 1	16	\$.06	1/2 <sup>2</sup>	Reciprocal	yes	no
Arizona.....	60	Dec. 15	18	.05	2	3	yes	yes
Arkansas.....	55	Jan. 1	18	.065	2	90 days	no	no
California.....	55	Jan. 1	16	.045	2 1/2	3	yes	yes
Colorado.....	60	On issue	16	.06	2	Reciprocal	yes	yes
Connecticut...	40	Feb. 15	16	.04	3	Reciprocal	yes	no
Delaware.....	50	4	16	.04	...	Reciprocal	yes	yes
D. C.....	25	Mar. 1	18	.04	...	Reciprocal	yes	yes
Florida.....	60	Dec. 1	16	.07	...	Reciprocal	yes	yes
Georgia.....	55	Jan. 1	16	.06	...	30 days	yes	no
Idaho.....	35	Jan. 1	16	.06	...	Reciprocal	yes	yes
Illinois.....	R	On issue	15	.03	2	Reciprocal	yes	yes
Indiana.....	R	Jan. 2	16	.04	...	60 days	yes	yes
Iowa.....	R	Dec. 1	16	.04	2	Reciprocal	yes	no
Kansas.....	R	Jan. 1	16	.04	2	Reciprocal	yes	yes
Kentucky.....	45	Dec. 29	18	.05	3 <sup>5</sup>	Reciprocal	yes	6
Louisiana.....	R	Dec. 1	15	.07	1	Reciprocal	no	no
Maine.....	45	Dec. 25	15	.06	7	Reciprocal	yes	no
Maryland.....	50	Mar. 15	16	.05	2	Reciprocal	yes	yes
Massachusetts	40	Jan. 1	16	.03	7	Reciprocal	9	no
Michigan.....	R	On issue	16	.03	3	90 days	yes	yes
Minnesota.....	60	Dec. 1	15	.04	...	Reciprocal	yes	no
Mississippi.....	55	Nov. 1	17	.06	1	3	no	no
Missouri.....	R	Dec. 31	16	.02	2	Reciprocal	yes	yes
Montana.....	50	Jan. 1	15	.05	...	30 days	yes	yes
Nebraska.....	60	Jan. 1	16	.05	...	3	yes	yes
Nevada.....	R	Dec. 15	16	.04	...	No limit	no	yes
New Hampshire	35	Mar. 1	16	.04	...	Reciprocal	yes	no
New Jersey.....	40	Mar. 1	17	.03	...	Reciprocal	yes	6
New Mexico....	R	On issue	14	.05	1	90 days	yes	yes
New York.....	50	Jan. 1	18	.04	...	Reciprocal	yes	no
North Carolina	55	Dec. 1	16	.06	3 <sup>11</sup>	Reciprocal	yes	yes
North Dakota..	50	Jan. 1	16	.04	2	Reciprocal	yes	yes
Ohio.....	50	Mar. 1	16	.04	3}	Reciprocal	yes	yes
Oklahoma.....	R	Dec. 21	16	.055	2	60 days	no	yes
Oregon.....	55	Dec. 15	16	.05	...	Reciprocal	yes	yes
Pennsylvania	50	Mar. 15	18	.04	...	Reciprocal	yes	yes
Rhode Island...	35	Mar. 1	16	.04	...	Reciprocal	yes	no
South Carolina	55	Sept. 1	14	.06	...	90 days	no	no
South Dakota..	60	Jan. 1	15	.04	2 <sup>12</sup>	90 days	yes	yes
Tennessee.....	50	Mar. 1	16	.07	2	30 days	yes	6
Texas.....	60	Feb. 1	16	.04	1	Reciprocal	no	yes
Utah.....	60	Dec. 15	16	.04	2	60 days	yes	yes
Vermont.....	50	Mar. 1	18	.045	...	Reciprocal	yes	no
Virginia.....	50	Mar. 15	16	.06	...	6 mos.	yes	yes
Washington....	50	Nov. 15	16	.05	3	Reciprocal	yes	yes
West Virginia..	50	June 20	16	.05	2 <sup>13</sup>	90 days	yes	yes
Wisconsin.....	R	On issue	16	.04	...	Reciprocal	yes	yes
Wyoming.....	60	Dec. 1	15	.04	2	90 days	yes	yes

<sup>1</sup>Applies to nonresidents. The term "reciprocal" means that the state will extend to a nonresident the identical privileges granted by his home state to nonresident motorists. In some states visitors must register within a specified time. In most states persons who intend to reside permanently must buy new plates and secure new driving license at once, or within a limited period. Acquisition of employment or placing children in public school is often considered intention to reside permanently.

<sup>2</sup>None on used cars.

<sup>3</sup>Until expiration of home registration.

<sup>4</sup>Three months before current registration expires.

<sup>5</sup>Use tax on new cars, first registration of used cars..

<sup>6</sup>Bill of sale must be filed.

<sup>7</sup>Excise tax.

<sup>8</sup>Permit showing compliance with state compulsory liability insurance law must be obtained after 30 days.

<sup>9</sup>State has compulsory insurance.

<sup>11</sup>\$15 maximum.

<sup>12</sup>Registry tax on first registration in state.

<sup>13</sup>No sales tax on autos.

\*South Dakota does not require. All other states do.



## DEATH WARRANT OF JESUS CHRIST

The most imposing judicial document, to all Christians, that has ever been recorded in human annals, is the death warrant of our Lord Jesus Christ. We transcribe a copy of the translation: Sentence: *Rendered by Pontius Pilate, acting Governor of Lower Galilee, that Jesus of Nazareth shall suffer death on the Cross:*

In the year seventeen of the Empire of Tiberius Caesar, and the 25th day of March, in the city of Holy Jerusalem; Annas and Caiaphas being Priests, sacrificators of the people, of God; Pontius Pilate Governor of Lower Galilee sitting on the Presidential Chair of the Praetory, condemns Jesus of Nazareth to die on the cross between two thieves—the great and notorious evidence of the people, saying—

1. He is a seducer.
2. He is seditious.
3. He is an enemy of the law.
4. He calls himself, falsely, the Son of God.
5. He calls himself King of Israel.

6. He entered into the Temple followed by a multitude bearing palm branches, in their hands.

Order the first centurian, Quintus Cornelius, to lead him to the place of execution.

Forbid any person whomsoever, either poor or rich, to oppose the death of Jesus.

The witnesses that signed the death of Jesus are—

- 1st. Daniel Robani; a Pharisee.
- 2d. Joannus Horabable.
- 3d. Rhapsdel Rebadi.
- 4th. Capet, a citizen.

Jesus shall go out of the city by the gate "Strenusus."

The above sentences are engraved on a copper plate: on one side is written these words:—"A similar plate is sent to each of the tribes."

It was found in an antique vase of white marble, while excavating in the city of Aquilla, in the kingdom of Naples, in the year 1825, and was discovered by the Commissariat of arts, attached to the French armies. At the expedition of Naples it was found enclosed in a box of ebony, in the sacristy of Gurtem. The vase was, about 1850 in the Chapel of Caserta. The French translation was made by the members of the Commission of Arts.

## THE FROZEN DEAD AT THE HOSPICE OF ST. BERNARD

The scene of greatest interest at the Hospice, is that of the building where the dead bodies of lost travellers are deposited. There they are, some of them as when the breath of life departed, and the death angel, with his instruments of frost and snow, stiffened and embalmed them for ages. The floor is thick with nameless skulls, and bones, and human dust, heaped in confusion. But around the wall are groups of poor sufferers in the very position in which they were found, as rigid as marble, and in this air, by the preserving element of an eternal frost, almost as uncrumbling. There is a mother and her child, a most affecting image of suffering and love. The face of the little one remains pressed to the mother's bosom, only the back part of the skull being visible, the body enfolded in her careful arms. The snow fell fast and thick; and the hurricane wound them both up in one white shroud, and buried them. There is also a tall, strong man, standing alone, the face, dried and black but the white, unbroken teeth, firmly set and closed, grinning from the fleshless jaws—it is a most awful spectacle. There are other groups more indistinct; but these two are never to be forgotten, and the whole of these dried and frozen remnants of humanity are a terrific demonstration of the fearfulness of the mountain pass, when the elements, let loose in fury, encounter the unhappy traveller. You look at all this through the grated window; there is just light enough to make it solemnly and distinctly visible, and to read in it a powerful record of mental and physical agony, and of maternal love in death. That little child, hiding its face in its mother's bosom, and both frozen to death—one can never forget the group, nor the *memento mori*, nor the token of deathless love. *Dr. Cheever's Wanderings of a Pilgrim in the Shadow of Mont Blanc, 1850.*

★ ★ ★

No device of art, however, for the preservation of the remains of the dead, appears equal to the simple process of plunging them over head and ears in peat moss.

## GESTATION AND REPRODUCTION TABLE

	Proper age for first mating	Period of power of reproduction in years	No. of females for one male	Period of gestation and incubation		
				Shortest days	Mean days	Longest days
Mare.....	3 yrs.	10 to 12	20 to 30	325	336	352
Stallion.....	4 "	12 to 15		235	282	300
Cow.....	18-24 mos.	10 to 14	30 to 40	145	147	152
Bull.....	12-18 "	10 to 12		110	114	120
Ewe.....	18 "	6	8 to 12	147	151	155
Ram.....	12-14 "	7		356	367	378
Sow.....	9 "	6	20 to 30	309	315	325
Boar.....	9 "	6		58	63	67
She Goat.....	18 "	6	6 to 8	58	60	64
He Goat.....	18 "	5		25	30	35
Ass.....	3 yrs.	10 to 12	30	19	21	24
Jack.....	4 "	12 to 15		24	26	30
She Buffalo.....	18-24 mos.	8	12 to 18	28	30	32
Bitch.....	16-18 "	8		27	30	33
Dog.....	12-16 "	8	5 to 6	16	18	20
She Cat.....	12 mos.	6		25	28	30
He Cat.....	12 "	10	5 to 6	20	23	25
Doe Rabbit.....	6 "	5 to 6		40	42	45
Buck Rabbit.....	6 "	5 to 6	5 to 6	22	30	34
Cock.....	6 "	5 to 6				
Hen.....						
Turkey.....						
Duck.....						
Goose.....						
Pigeon.....						
Pea Hen.....						
Guinea Hen.....						
Swan.....						
Hen or Duck's Eggs.....						

## DURATION AND FREQUENCY HEAT SEASON

	<i>In heat for</i>	<i>Reoccurs if not bred</i>
Mares	2 to 11 days	3 to 6 weeks
Cows	1 to 2 days	3 weeks
Ewes	2 days	17-28 days
Sows	3 days	21 days
Bitches	5-7 days	6 months
Cats	3-12 days	4 months

## AVERAGE DATES FIRST AND LAST KILLING FROSTS

Boston . . . . .	Apr. 14 — Oct. 26	Richmond . . . . .	Mar. 31 — Nov. 2
Albany . . . . .	Apr. 24 — Oct. 15	Raleigh . . . . .	Mar. 27 — Nov. 5
Harrisburg . . . . .	Apr. 9 — Oct. 28	Macon . . . . .	Mar. 14 — Nov. 14
Cincinnati . . . . .	Apr. 8 — Oct. 23	Del Rio . . . . .	Feb. 23 — Nov. 27
Toledo . . . . .	Apr. 22 — Oct. 18	Helena . . . . .	May 7 — Sept. 29
Chicago . . . . .	Apr. 16 — Oct. 19	Santa Fe . . . . .	Apr. 25 — Oct. 19
Detroit . . . . .	Apr. 28 — Oct. 15	Tucson . . . . .	Mar. 11 — Nov. 9
Duluth . . . . .	May 6 — Oct. 5	Yuma . . . . .	Jan. 20 — Dec. 20
Bismarck . . . . .	May 11 — Sept. 21	Portland, Ore. . . . .	Mar. 15 — Nov. 21
Omaha . . . . .	Apr. 14 — Oct. 15	San Francisco . . . . .	Jan. 13 — Dec. 29
Portland, Maine. . . . .	Apr. 19 — Oct. 17	Parkersburg . . . . .	Apr. 17 — Oct. 18
Hartford . . . . .	Apr. 20 — Oct. 13	Oklahoma City . . . . .	Mar. 30 — Nov. 3
Evansville . . . . .	Apr. 5 — Oct. 29	Denver . . . . .	May 3 — Oct. 10
Cairo . . . . .	Mar. 31 — Oct. 29	Spokane . . . . .	Apr. 14 — Oct. 13
Minneapolis . . . . .	Apr. 27 — Oct. 10	Salt Lake City . . . . .	Apr. 18 — Oct. 20
Concord, N. H. . . . .	May 7 — Oct. 3		

## DIGEST OF LATEST AVAILABLE FISH AND GAME LAWS

Open seasons include both dates, "Rabbit" includes "hare"; "quail" includes "partridge" in South; "grouse" includes Canada grouse, sharp-tailed, ruffed (known as partridge in North and pheasant in South) and other members of family except prairie chickens ptarmigan and sage hen. As many states do not complete laws for 1949 until after our press date, VERIFY in every case for changes even though the changes from year to year are not as a rule sensational. Limits are daily except those in italics which are seasonal.

Migratory Bird Laws for 1949 will not be released until August. For details consult local authorities or write Department of Interior, Fish & Wildlife Service, Chicago 54, Illinois,

♂ males only. † local exceptions. ‡ non-resident exceptions. # Pounds.

State and Species	Seasons	Limits Season	State and Species	Seasons	Limits Season
<b>Alabama</b>			<b>Colorado</b>		
Deer	Nov. 20-Jan. 1 † ♂	3	Deer	Oct. 11-Oct. 26†	†
Rabbit	Oct. 1-Feb. 20		Elk	Oct. 11-Oct. 26†	†
Squirrel	{ N-Oct. 1-Jan. 1		Bear	Oct. 11-Oct. 26†	†
Opossum, Rac- coon	{ S-Oct. 15-Jan. 15		Quail	Closed	
Muskrat (fur), Otter	Oct. 1-Feb. 20		Pheasant	Nov. 16-not set	
Quail	Nov. 20-Jan. 31		Rabbit	Oct. 1-Feb. 1	
Turkey	Nov. 20-Feb. 20		All fish	May 25-Oct. 1	20
Bass	Nov. 20-Jan. 1 ♂†	5	(Lakes under 7000	ft. open all year)	
W.L., str. bass	Mar. 20-Apr. 15		<b>Connecticut</b>		
Bream	No closed season	10	Rabbit	Nov. 1-Dec. 31	30
Crappie, wh. pch.	No closed season	15	Squirrel	Oct. 18-Nov. 29	30
Rck. bass, g.-eye	No closed season	30	Quail	Dates not set	18
W.-eye pike	No closed season	20	Pheasant ♂	Oct. 18-Nov. 29	15
	No closed season	20	Grouse	Oct. 18-Nov. 29	15
	No closed season	15	Trout	Apr. 17-July 15	10
			Lake trout	Apr. 17-Aug. 31	3
<b>Alaska</b>			Pickeral	Apr. 17-Feb. 9	6
Deer	Sept. 1-Nov. 15 ♂†	2†	Wall-eye	Apr. 17-Feb. 9	6
Moose	{ N-Sept. 1-20,	1	Bass, black	July 1-Oct. 31	10
Bear, br. & grz.	{ S.-Dec. 1-10 ♂†	2	Bass, striped	No closed season	10
Bear, black	{ Sept. 1-June 20†	2	Perch	Apr. 17-Feb. 9	15
Polar Bear	{ E. of 138°:	2	Salmon, sockeye	Apr. 17-Aug. 31	5
Caribou	{ Sept. 1-June 20†		Shad	Apr. 17-July 15	
Mountain goat	{ No closed season†	1†	Alewives	Mar. 1-May 31	
Mountain sheep	{ Aug. 20-Sept. 20†	1†	<b>Delaware</b>		
Rabbit	{ Sept. 1-Oct. 31†	1	Rabbit	Nov. 15-Dec. 31	
Grouse & Ptarm'g'n	{ Aug. 20-31 ♂†	1	Squirrel	Sept. 15-Nov. 1	
Trout & grayling	{ No closed season†	10	Quail	Nov. 15-Dec. 31	
	{ Aug. 20-Feb. 28		Pheasant	Nov. 15-Dec. 31 ♂	6
	{ † agg.		Bass	June 25 Feb. 1	6
			Pike, pkl., w. eyed pike	June 25 Mar. 1	6
			Trout	Apr. 16 Aug. 15	6
<b>Arizona</b>			<b>Florida</b>		
Deer	{ N-Oct. 10-	1	Deer, male	Nov. 20-Jan. 5† ♂	2
Rabbit	{ Oct. 25 ♂†		Squirrel	Nov. 20-Feb. 15†	13
Abert Squirrel	{ S-Nov. 1-	1	Quail	Nov. 20-Feb. 1†	12
Turkey	{ Nov. 17 ♂†		Turkey	Nov. 20-Feb. 1†	4
Quail	{ No open season		Bass, black	Apr. 1-Feb. 28	8
Trout	{ No open season		Bream	June 1-Mar. 31†	20
Bass	{ Nov. 16-Nov. 30†	10	Speckled perch	No closed season	20
Bluegill	{ May 30-Sept. 30†	15	<b>Georgia</b>		
Chan. Catfish	{ No closed season	10	Deer	Nov. 1-Jan. 5† ♂	2
	{ No closed season	20	Bear	Nov. 20-Feb. 28†	
			Squirrel	Nov. 1-Jan. 5	
			Quail	Nov. 20-Feb. 15	
			Grouse	Nov. 20-Jan. 15	
			Turkey	Nov. 1-Feb. 15†	2
			Rabbit	No closed season	
			Bass, striped	No closed season†	10
			Bass, black	No closed season†	10
			Bass, rock	No closed season†	10
			Bass, Ky. or r.- eye	No closed season†	10
			Bream, perch	No closed season†	25
			Crappie	No closed season†	15
			Pickeral	No closed season†	15
			Wall-eye' pike	No closed season†	3
			Muskellunge	No closed season†	2
			Trout	Apr. 1-Nov. 15†	10
<b>Arkansas</b>			<b>Idaho</b>		
Deer	{ (Nov. 10-15† ♂	1	Deer, elk	Local seasons	1
Squirrel	{ Dec. 8-13† ♂		Antelope	Local seasons	
Quail	{ May 16-June 15†		Bear	Jan. 1-Dec. 31†	1
Turkey	{ Sept. 1-Jan. 1†		Goat	Local seasons	1
Bass	{ Dec. 1-Jan. 15		Sheep	No open season†	
Trout	{ Closed		Quail	Local seasons.	
Pike	{ May 16-Mar. 15	15	Pheasant	Local seasons	
Jack salmon	{ May 1-Oct. 31	6			
	{ No closed season	6			
	{ No closed season	6			
<b>California</b>					
Deer	{ Sept. 16-Oct. 15 ♂†	2			
Antelope	{ Aug. 7-Sept. 15 ♂†				
Bear	{ Limited ♂	2			
Rabbit	{ Nov. 15-Dec. 31†	2			
Quail	{ Nov. 21-Dec. 31	15			
Pheasant	{ Nov. 21-Dec. 31	16			
Trout (exc. gldn)	{ Nov. 21-30 ♂	10			
(Sp. wnt' seas.)					
Trout, golden	{ May 1-Oct. 31	15			
Salmon	{ July 1-Sept. 30†	15			
Bass, black	{ May 1-Oct. 31	2#			
Bass, striped	{ May 29-Oct. 31†	10#			
	{ No closed season	5			





<b>Michigan (cont.)</b>					
Woodchuck	L-Oct. 15-Jan. 31†				
Trout	Apr. 24-Sept. 16†	15†			
Bass	June 25-Dec. 31†	5†			
No. pike, pk. pch.	No closed season	5			
Muskellunge	No closed season	5			
Lake trout	No closed season	10			
White bass	No closed season				
Crappie, rk.					
bass, yel. pch.					
bluegills, sunfish	June 25-Feb. 28†	25†			
Whitefish	No closed season	7			
<b>Minnesota</b>					
Deer (Bow and Arrow)	Oct. 16-Nov. 1†	1			
Deer	Nov. 15-Nov. 25†	1			
Bear	No closed season				
Squirrel	Oct. 15-Dec. 31				
Quail	Oct. 28-Nov. 12†				
Pheasant	Oct. 28-Nov. 12 †				
Hun. partridge	Oct. 21-Oct. 27†				
W.-eyed pike, saugers, gt. no. pike, pickerel	May 15-Feb. 15†	8			
Muskellunge	June 15-Feb. 15†	2			
Bass	June 20-Nov. 30†	6			
Trout	May 1-Sept. 15†	15			
Lake Trout	Jan. 1-Feb. 15†	5			
	May 1-Sept. 30†				
Crappies, sunfish wh. & rk. bass	May 15-Feb. 15†	15			
Catfish	May 15-Feb. 15†	10			
Bullheads	May 15-Feb. 15†	50			
Whitefish	May 15-Feb. 15†				
Buffalo	May 15-Feb. 15†				
<b>Mississippi</b>					
Deer	Nov. 20-Nov. 26†	1			
Bear	Dec. 26-Jan. 1†				
Rabbit	No open season				
Squirrel	Same as Game				
Quail	Oct. 1-Dec. 31				
Turkey	Dec. 10-Feb. 20†	1			
Bass	Apr. 1-Apr. 20 †	15			
Crappie	No closed season	15			
White perch	No closed season	15			
Sunfish	No closed season	25			
<b>Missouri</b>					
Deer	Nov. 7, 8 †	1			
Archery	Oct. 24-26				
	Cty. only	1†			
Squirrel	May 30-Oct. 31	6			
Quail	Nov. 10-30				
Rabbits, groundhogs	Nov. 10-Jan. 1	15†			
Wall-eyed pike	Jan. 1-Oct. 31				
Bass, black	Nov. 10-Dec. 31				
Trout	May 30-Dec. 31	4			
Bass, wh., yel.	May 30-Dec. 31	8			
Bass, warmth, rk.	Mar. 1-Dec. 31†	8			
Crappie	May 30-Dec. 31	6			
Channel cat	Mar. 15-Dec. 31	9			
Blue gl., bl. pch.	Mar. 15-Dec. 31	12			
<b>Montana</b>					
Deer	Oct. 15-Nov. 15† †	1			
Bear, bl. & br.	Apr. 15-Nov. 15†	1†			
Bear, grzly.	Oct. 15-Nov. 15†	1†			
Elk	Oct. 15-Nov. 15†	1†			
Goat	Oct. 1-31	1			
Grouse					
Quail, turkey					
Sage hen					
Hun. partridge					
Pheasant					
All game fish	Dates not set				
	May 25-Nov. 15	15			
<b>Nebraska</b>					
Rabbit	Dates not set	10			
Squirrel	Oct. 15-Dec. 31	5			
Pheasant	Oct. 14-Jan. 1	5			
Trout	Apr. 1-Nov. 1	10			
Bass, black	No closed season†	10			
Crappie, sunf., rock bass	No closed season†	15			
Bullheads	No closed season†	15			
Catfish	No closed season†	10			
Perch	No closed season†				
<b>Nebraska (cont.)</b>					
Pike, w.-eye*					
saug. no'thn.	No closed season†	5			
<b>Nevada</b>					
Antelope	Aug. 25-Sept. 22				1
Deer	Oct. 1-Nov. 14†				1
Rabbit	Nov. 1-Dec. 31†				
Quail	Dates not set				
Pheasant	Dates not set				
All game fish	Local seasons				25
<b>New Hampshire</b>					
Deer	Oct. 15-Dec. 21†				1
Bear	No closed season				
Rabbit, hare	Oct. 1-Feb. 15				
Squirrel	Oct. 1-Nov. 1				
Quail	No open season				
Grouse	Oct. 1-Dec. 1				25
Pheasant	Oct. 15-Nov. 16 †				10
Trout, brook	May 1-Aug. 31				15
Lake Trout	Jan. 1-Aug. 31†				2
Lake Trout (fly)	Sept. 1-30				2
Salmon	Apr. 15-Aug. 31†				4
Trout, golden	Apr. 15-Aug. 31				10#
Bass	July 1-Oct. 31†				
Muskellunge	May 28-Oct. 31				
Pike-perch	May 28-Oct. 31†				
Pickerel	May 28-Jan. 15†				10#
<b>New Jersey</b>					
Deer	Dec. 12-Dec. 16 †				1
Archery	Dec. 7-11				
Rabbit, squirrel	Nov. 10-Dec. 10				6
Quail	Nov. 10-Dec. 10†				10
Grouse	Nov. 10-Dec. 10				3
Pheasant	Nov. 10-Dec. 10 †				30
Trout	Apr. 15-July 15†				10†
	Sept. 1-Sept 30†				
	May 20-Nov. 30†				10
	Jan. 3-31				
	June 15-Nov. 30†				10
	No closed season				
	No closed season				
	No closed season				
<b>New Mexico</b>					
Deer	Nov. 10-Nov. 21† †				1
Elk	Oct. 6-Nov. 2				1
Bear	Sept. 25-Nov. 10†				1†
Antelope	Shooting by permit† †				
Turkey	Nov. 10-Nov. 21†				2
Squirrel	Nov. 10-Nov. 21				20
Trout	May 15-Nov. 21				15#
Bass, pike pch.	Apr. 1-15				20
Crappie	June 1-Nov. 30				
Sunf., ring pch. and bream					
Chan. catf.					
Bullhd., yel. and mud catfish	No closed season				20
<b>New York</b>					
Deer	Oct. 20-Dec. 15† †				1
Bear	Oct. 20-Dec. 25†				1
Rabbit	Oct. 20-Jan. 31†				6†
Squirrel	Oct. 20-Nov. 17†				5
Quail	Nov. 1-15†				4†
Grouse	Dates not set				
	" " "				
	" " "				
Pheasant †	July 1-Nov. 30†				6†
Black bass	No closed season				
Striped bass	July 1-Dec. 1†				†
Muskellunge	Apr. 1-Sept. 10				2
Salmon, Idlekd.	Apr. 1-Sept. 10				3
Salmon, chinook	May 1-Mar. 1†				10†
Pike-perch	May 1-Mar. 1†				10†
Pickerel	May 1-Mar. 1†				10†
Gt. no'n. pike	May 1-Mar. 1†				10†
Trout, brk., br., r'bow	†				10†
Lake trout	Apr. 1-Sept. 10				3†
Trout	Apr. 14-Sept. 1				10†
Bullheads	No closed season†				†
Whitefish	Apr. 1-Sept. 10†				†
Perch, white	No closed season				25†
Perch, yellow	No closed season†				
<b>Long Island</b>					
Rabbit, squirrel	Nov. 1-Dec. 31				6
Grouse	Date not set				
Pheasant	Nov. 1-Dec. 31				30

<b>North Carolina</b>			<b>Penn. (cont.)</b>	
Deer	Dates not set Write J. D. Findlay Raleigh, N. C.		Yell. pch., rock bass, str. or cal. bass, wh.; crappie, sunf., catf., suckers, carp	No closed season 15
Bear				
Rabbit				
Squirrel				
Quail				
Grouse				
Turkey				
Russian boar				
Trout	Apr. 15-Aug. 31	10	<b>Rhode Island</b>	
Bass, black	No closed season	8	Hare	Nov. 1-Dec. 31†
Pike, walleed	No closed season	5	Rabbit	Nov. 1-Dec. 31
Bass, striped	No closed season	8	Squirrel	Nov. 1-Dec. 31
			Quail	Nov. 1-Dec. 31
<b>North Dakota</b>			Grouse	Nov. 1-Dec. 31†
Deer	Nov. 26-30 ♂†	1	Pheasant	Nov. 1-Dec. 31 ♂
Sharptail	Sept. 30-Oct. 20†	6	Bass	June 20-Feb. 20†
Pin'd grouse	Dates not set		Pickrel	June 20-Feb. 20†
Sage & ruffed grouse; part'ge				Trout
Pheasant	Sept. 30-Dec. 31†	2	Striped bass	No closed season
Bass	June 16-Oct. 31	5	Perch, white	No closed season
Wall-eyed pike, northern pike	May 16-Oct. 31	10	Perch, yellow	No closed season
Crappie	June 16-Oct. 31	15		
Sunfish	June 16-Oct. 31	15	<b>South Carolina</b>	
Perch	May 16-Oct. 31	25	Deer	Aug. 15-Jan. 1† ♂
			Rabbit	Sept. 1-Mar. 1
<b>Ohio</b>			Squirrel	Sept. 1-Mar. 1
Deer	Dates not set		Quail	Nov. 27-Mar. 1
Rabbit	Nov. 15-Jan. 1	4	Turkey	Nov. 26-Mar. 1
Squirrel	Sept. 14-28	4	Trout, speckled	Jan. 1-Sept. 1
Pheasant	Nov. 15-30 ♂	2	Trout, rainbow	Jan. 1-Sept. 1
Hun. partridge	Nov. 15-30 ♂	2	Bass	No closed season†
Grouse	Nov. 15-30 ♂	2		
<b>INLAND DIST.</b>			<b>South Dakota</b>	
Muskellunge	No closed season	2	Deer	Nov. 1-20 ♂†
Wall-eyed pike	No closed season	6	Grouse, prairie chicken	{ Oct. 15-Nov. 13† Oct. 15-Dec. 13†
Sauger	No closed season	6	Pheasant	
Trout	Apr. 15-Sept. 16	6	Hun. partridge	
Bass	June 16-Apr. 30	6	Trout	May 1-Feb. 28
<b>LAKE ERIE DIST.</b>			Bass, w.-eyed pike, pickerel	June 15-Feb. 28
Muskellunge	No closed season		Bluegills	May 1-Feb. 28
Wall-eyed pike	No closed season		Bullheads, pch.	May 1-Feb. 28
Sauger	No closed season		Crappies, sunf.	May 1-Feb. 28
Trout	Apr. 15-Sept. 16	6		
Bass	July 1-May 24	6		
			<b>Tennessee</b>	
<b>Oklahoma</b>			Deer	Nov. 1-20 ♂†
Squirrel	May 15-Dec. 31	10	Bear	Special seasons
Quail	Inter. (Nov.-Jan.)	10	Rabbit	Nov. 25-Jan. 25
Bass	No closed season†	10	Squirrel	Aug. 1-Dec. 31†
Chan. catfish	No closed season†	15	Quail	Nov. 25-Jan. 25
Crappie	No closed season†	15	Grouse	Nov. 25-Jan. 25
			Wild boar	Special seasons
<b>Oregon</b>			Trout	Apr. 1-Oct. 1
Deer	Sept. 28-Oct. 20 ♂†	1	Bass	May 30-Mar. 31
Elk	Oct. 26-Nov. 17 ♂†	1	Wall-eyed pike	May 30-Mar. 31
Antelope	Sept. 22-30	1	Sauger pike	May 30-Mar. 31
Squirrel	Sept. 28-Oct. 20†		Muskellunge	May 30-Mar. 31
Quail	Oct. 19-27†		Crappie	May 30-Mar. 31
Blue grouse	Oct. 12-20		Rock bass	May 30-Mar. 31
Pheasant	Oct. 19-27†		White, str. bass	May 30-Mar. 31
Hun. partridge	Dates not set		Yellow bass or jacks	May 30-Mar. 31
Trout, salmon, steelhead, less than 20"	Apr. 20-Oct. 31	15	Warmouth hass	No closed season
Bass, black;			Bluegill bream	No closed season
Perch, crappie, catf., sunf., bream, pike	No closed season	30	Catfish	No closed season
Str. bass,	No closed season	15	Buffalo	No closed season
Shad	No closed season	1		
			<b>Texas</b>	
<b>Pennsylvania</b>			Deer	Nov. 16-Dec. 31† ♂
Deer, female	No open season		Bear	Nov. 16-Dec. 31
Deer, 2 pt. ant.	Dec. 1-12	1	Peccary	Oct. 1-Dec. 31†
Deer, no ant.	Dec. 13	1	Squirrel	{ Oct. 1-Dec. 31† { May 1-July 31†
Bear	Nov. 17-22	1	Quail	Dec. 1-Jan. 16†
Rabbit, Cttl.	Nov. 1-30	20	Turkey	Nov. 16-Dec. 31† ♂
Squirrel	Nov. 1-30	24	Bass, bl., sp'ted	No closed season
Quail, Bbwh.	Nov. 1-30	12	White bass	No closed season
Grouse, Rfd.	Nov. 1-7	6	Trout	No closed season
Pheasant, rgnk, m.	Nov. 1-30	8	Crappie	No closed season
Turkey	Nov. 1-30†	1	Catfish	No closed season
Partridge, Hun.	Nov. 1-7	8		
Hare, snsboe	Dec. 22-Jan. 1	6	<b>Utah</b>	
Trout	Apr. 15-July 31†	10	Deer	Oct. 18-Oct. 28† ♂
Trout, lk. or sal.	July 1-Sept. 29	8	Elk (By permit)	
Bass	July 1-Nov. 30	6	Grouse, sage hen, prairie chicken	No open season
Pike-perch	July 1-Nov. 30	6	{Pheasant	{ Nov. 2-Nov. 5
Pickrel	July 1-Nov. 30	6	{Quail	{ May 15-Oct. 31†
Muskellunge,	July 1-Nov. 30	6	Bass	June 15-Oct. 31†
West'n and North'n pike	July 1-Nov. 30	2	Trout	June 15-Oct. 31†
			Salmon	June 15-Oct. 31†



<b>Vermont</b>				<b>West Virginia</b>			
Deer	Nov. 15-25 ♂†	1		Deer	Dec. 2-7†	1	
Squirrel	Oct. 1-Oct. 31	4		Rabbit	Nov. 11-Jan. 4	35	
Rabbit	Oct. 1-Jan. 31	3		Squirrel	Oct. 5-Nov. 16	24	
Quail	No open season			Quail	Nov. 11-Dec. 14	30	
Grouse	Oct. 1-Oct. 31	4		Grouse	Oct. 5-Nov. 16	10	
Pheasant	Oct. Sat. & Wed. ♂	2-4		Turkey	Oct. 5-Nov. 16	4	
Bear	June 1-Dec. 31			Bear	Nov. 11-30	1	
Trout	May 1-Aug. 14	20		Woodchuck	July 1-Dec. 31		
Lake trout, salmon	May 1-Aug. 31	2		Trout, rnbw., brown	Apr. 24-July 15	10	
Bass	July 1-Nov. 30	5		Trout, brook	Apr. 24-July 15	15	
Muskellunge	June 15-Apr. 14	25#		Bass	June 19-Nov. 30	8	
Pike-perch	May 1-Mar. 14	25#		Pickercil	June 19-Apr. 30		
Pickercil	May 1-Mar. 14	25#		Muskellunge, w. eyed pike	June 19-Apr. 30		
Smelt	June 1-Mar. 31			Rk. bass, crapple, sunf., bluegill	June 19-Apr. 30	15	
				Catfish	June 19-Apr. 30	10	
				Perch	June 19-Apr. 30	10	
<b>Virginia</b>				<b>Wisconsin</b>			
Deer	Oct. 1-Jan. 5† ♂	1		Deer	Nov. 22-30† ♂	1	
Bear	Oct. 1-Jan. 5†	1		Deer (bow & arrow)	Sept. 27-Nov. 13	1	
Elk	Closed season			Bear	Nov. 22-30†		
Rabbit	Nov. 15-Jan. 20†	75		Raccoon	Oct. 23-Nov. 30		
Squirrel	{ Sept. 15-Sept. 30	75		Rabbit	Oct. 18-Jan. 15	3	
Quail	{ Nov. 20-Jan. 20	125		Squirrel	Oct. 18-Nov. 30	3	
Grouse	{ Nov. 15-Jan. 20†	15		Grouse	No open season		
Pheasant	{ Same as quail	20		Pheasant	Oct. 18-Oct. 27		
Turkey	{ Same as quail	4		Hun. partridge	Oct. 18-27		
	{ W: June 20-Dec. 31			Quail	Oct. 23-27	4	
Bass	{ E: June 20-Mar. 15	10		Bass, black	June 20-Jan. 15†	7	
Trout	{ Apr. 20-July 31	12		Trout	May 15-Sept. 7†	15	
Pike	{ W: Same as bass	20		Lake trout	Apr. 15-Sept. 30†	5	
Crappie	{ E: No closed season			Wall eyed pike, sauger	May 15-Jan. 15†	7†	
Bream	{ No closed season	25		No. pike, pick'l	May 15-Jan. 15†	7†	
	{ No closed season			Muskellunge	May 15-Jan. 15†	1	
				Bass, other	May 15-Jan. 15†	25	
				Catfish	May 15-Jan. 15†	15	
				Bullheads	Apr. 15-Jan. 15†	25	
				Other panfish	May 15-Jan. 15†	25†	
<b>Washington</b>				<b>Wyoming</b>			
Deer	Oct. 13-30†	1		Deer	Local season† ♂	1	
Bear	{ E: Same as deer	1		Moose	Local seasons ♂	1	
	{ W: Closed during Elk season			Elk	Local season† ♂	1	
Elk	Nov. 3-Nov. 11 ♂†	1		Bear	Local seasons†	1	
Rabbit	Oct. 13-Feb. 28†	5		Sheep	Local seasons† ♂	1	
Grouse	Oct. 13-14†	10		Antelope	Local seasons†	2	
Quail	Oct. 13-30	10		Pheasant	Local seasons		
Pheasant	Oct. 13-30	3		Trout	May 1-Oct. 31†	20	
Hungarian partridge	No open season			Grayling	May 1-Oct. 31†	20	
Steelhead	Dec. 1-Mar. 1†	3		Bass	May 1-Oct. 31†	20	
Other game fish							
Low'l'd lakes	Apr. 18-Nov. 30						
Gen'l season	May 23-Sept. 15	20					

## MIGRATORY BIRD LAWS

In 1946 the duck season was drastically reduced from 80 to 45 days—then cut again in 1947 to 30 days. By now the conservation officials have the science down to such a state that you need a ouija board in addition to the rules to understand the seasons. However here are a few shots at it just to give you an idea. In the Deep South the season ran from Dec. 8, 1947 to Jan. 6, 1948; Conn. and Mass.—Nov. 18 to Dec. 17; R.I.—Dec. 2-31; Vt.—Oct. 21-Nov. 19; Me. and N. H.—two seasons—Oct. 7-18 and Dec. 2-31. We suppose the idea was that a checkerboard could be laid out over the country and the ducks just jumped over the (open season) red squares. It's all yours anyway.

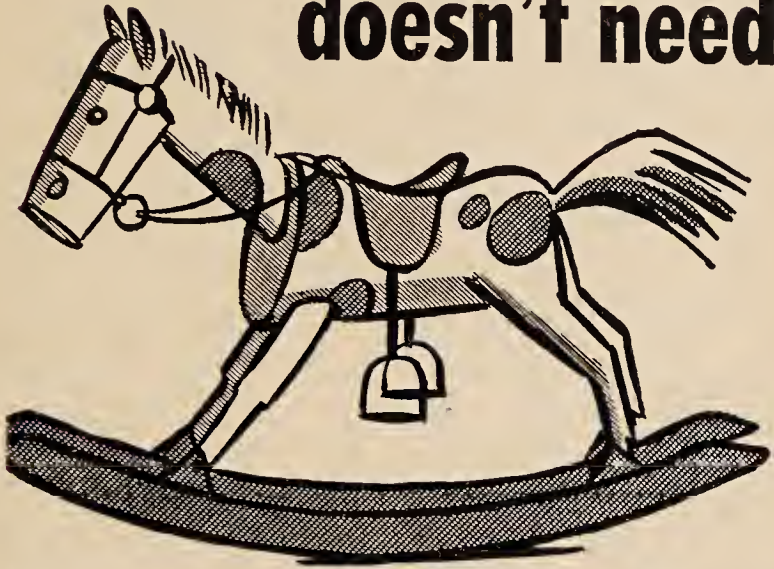
Scoters (Sea coots to you) could be taken in New England and New York (except for Maine) during duck season. In Maine, it was Oct. 16 to Dec. 16th. In two counties of Illinois, Oct. 1-12. In open coastal waters—it's all different.

Rails and Gallinules found safe harbor in states like Calif., D.C., (so that's why certain of the people's representatives remain un-shot-at?) Ind., Mont., Nev., Ore., Tenn. and Washington. But you could shoot 'em in Ala. (Nov. 20-Jan. 31), Ill. (Oct. 1-12), Maine (Oct. 7-18 and Dec. 2 to 13), Md. (Sept. 1-30), Minn. (Sept. 16-Nov. 30) and certain other states at certain other times.

Bag limits on ducks are down to four—except for American and Red Breasted Mergansers on which you get 25. Sea Coots, 7. Canada Geese, 2. Geese from 1 up to 5 depending where you are.

ATTENTION, PLEASE: Don't go hunting migratory birds until you have thoroughly familiarised yourself with the new laws published in September, 1948 by Fish & Wildlife Service, Dept. of the Interior, Chicago 54, Illinois.

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## ANECDOTES AND PLEASANTRIES

### BRIEF SEASON

On the door of the Old Farmer's Almanac, high up in the hills of Dublin, N. H., where snows lie long into the spring, is posted a cartoon showing an elderly native talking to a visitor. The drifts are piled deep and the stormy winds do blow. Both characters are well-muffled-up.

"I understand," the visitor is saying, "that you have a very short summer here."

"Yup," says the old-timer, "sure do. Last year 'twas on a Thursday."

### ASTROLOGICALLY SPEAKING

For a long time astrologers have been interested in flowers. They have originated a special list of flowers for each month and have also signified their sentiments. There is something of special interest in each of these species, they say, and if man could but begin to know what causes this rich life to come into our every-day path, he would understand many unanswered questions of this world and perhaps even the hereafter. Astrologically speaking, they are as follows:

January—	Rose .....	Love
February—	Lilac .....	Facetiousness
March—	Violet ....	Modesty
April—	Carnation .....	Fascination
May—	Miguonette	Charm
June—	Orange Blossom	Purity
July—	Geranium .....	Gentility
August—	Poppy ...	Pleasure
September—	Bluebell ....	Truth
October—	Lavender	Devotion
November—	Jasmine .....	Grace
December—	Forget-me-not ...	Constancy

### THE TREE-TOAD

"S curious-like," said the tree-toad,

"I've twittered for rain all day;  
And I got up soon,  
And hollered tel noon —  
But the sun hit blazed away,  
Tel I jest clumb down in a crawfish hole,  
Weary at hart, and sick at soul!

"Dozed away fer an hour,  
And I tackled the thing agin:  
And I sung and sung,  
Tel I knowed my lung  
Was jest about give in;  
And then, thinks I, ef hit don't rain now,

They's nothin' in singin', any-how!

"Onc't in a while some farmer  
Would come a-drivin' past;  
And he'd hear my cry,  
And stop and sigh—  
Tel I just laid back at last.  
And I hollered rain tel I thought  
my th' oat  
Would buw wide open at ever'  
note!

"But I fetched her—O, I fetched  
her —  
'Cause a little while ago,  
As I kinda set,  
With one eye shet,  
And a singin' soft and low,  
A voice drapped down on my  
fevered brain,  
A-sayin',—'Ef you'll jest hush,  
I'll rain!'"

James Whitcomb Riley  
from *Songs of Summer*

### A LA ALGER

Once upon a time a thirteen-year-old boy began to work as a typesetter in a small printing shop in Garnett, Kansas. After two months he wrote a letter to his aunt, including the following:  
"Since I have been at this trade, I find that a great many printers chew and smoke and drink. I have been figuring it up—if a fellow spent ten cents a day for whisky, in ten years, counting no interest, he will have spent \$365. For tobacco, if he spent only twenty cents a week, that would be \$104 in ten years. All together that would be enough to buy a second-hand press and type. I am now thirteen years old, and I am going to save my money instead of spending it for tobacco and drinks, and by the time I am twenty-one I will have enough to buy a good secondhand press. Your nephew, Art Capper."

Since that letter was written, United States Senator Arthur Capper has bought many a press, and his ten papers in four states have four million subscribers. He also operates two radio stations, and is probably the best agricultural authority in the nation. His *Capper's Farmer* has a subscription list of nearly two million, and he is one of the most valuable reform leaders in the United States.

Arthur Capper never regretted his boyish decisiou to be a total abstainer from alcoholic drinks and tobacco.

from *Magazet*



# CHIQUITA BANANA says:



Have you ever...

**BROILED A BANANA?**

**BAKED A BANANA?**

**FRIED A BANANA?**

Until you have, you are missing one of the most delightful surprises you can bring to your table.

So — please read the five different, delicious recipes on the next three pages, and send for . . .

two FREE colorful cook booklets . . . telling you how to bake, broil and fry bananas . . . how to serve bananas new delicious ways in salads, breads, pies and cakes.

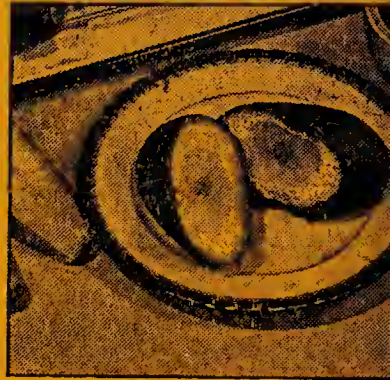


... the prepaid postcard to get them, you'll find when you turn the page.



## BANANA FRITTERS

Melted fat or oil  
3 to 4 firm bananas  
¼ cup flour  
Fritter Batter



*Use all-yellow bananas*

**For deep-fat frying**, have deep kettle  $\frac{1}{2}$  to  $\frac{3}{8}$  full of melted fat or oil.

Heat fat to 375°F., or until a 1-inch cube of bread will brown in about 40 seconds. Peel bananas and cut each into 3 or 4 diagonal pieces. Roll in flour. Dip into Fritter Batter, completely coating the banana pieces with the batter.

Deep-fat fry in the hot fat 4 to 6 minutes, turning fritters frequently to brown evenly. Drain on a rack. Six to eight servings.

Serve Banana Fritters very hot with the main course or serve them as a dessert with a hot orange or other fruit sauce or with sweetened whipped cream.

### To make the Batter

1 cup sifted flour	¼ cup sugar
2 teaspoons baking powder	1 egg, well beaten
1¼ teaspoons salt	½ cup milk
2 teaspoons melted shortening	

Sift together flour, baking powder, salt and sugar. Combine egg, milk and shortening. Add to dry ingredients and mix until batter is smooth.

This is a stiff batter, and it makes a crisp fritter which will stay crisp for 15 to 20 minutes. This batter should not be "thinned down."

### To make Orange Sauce

½ cup sugar	¾ cup boiling water
1 tablespoon cornstarch	2 tablespoons butter
Dash of salt	¼ cup orange juice
Dash of cinnamon	1 teaspoon grated orange rind
1 teaspoon lemon juice	

Mix together sugar, cornstarch, salt and cinnamon. Add water gradually. Bring to a boil and cook about 5 minutes, or until sauce has thickened, stirring constantly. Add butter, orange juice, orange rind and lemon juice. Re-heat to boiling point. Makes about 1 cup of sauce.



## HAM BANANA ROLLS

*with Cheese Sauce*

6 thin slices boiled ham  
Prepared mustard  
6 firm bananas  
2 tablespoons melted butter  
Cheese Sauce



*Use all-yellow or slightly  
green-tipped bananas*

Spread ham lightly with mustard. Peel bananas. Wrap slice of ham around the banana. Brush tips of bananas with butter. Place Ham Banana Rolls into a shallow baking

dish and pour Cheese Sauce over them. Bake in a moderate oven (350°F.) 30 minutes, or until bananas are tender . . . easily pierced with a fork. Serve hot. Six servings.

## CHEESE SAUCE

1½ tablespoons butter  
1½ tablespoons flour

¾ cup milk  
1½ cups grated American Cheese

Melt butter, add flour and stir until smooth. Stir in milk slowly. Add cheese and cook, over low heat, stirring constantly until sauce is smooth and thickened. Pour over Ham Banana Rolls. Makes about 1 cup sauce.



*Si, Si Chiquita* —

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and BANANA SALAD BAZAAR.**

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## BANANA MILK SHAKE

1 fully ripe banana  
1 cup COLD milk

*Use fully ripe bananas—  
yellow peel flecked with brown*

Peel banana. Slice into a bowl and beat with a rotary egg beater or electric mixer until smooth and creamy. Add milk and mix thoroughly. Serve COLD. Makes 1 large drink or 2 medium-size drinks.



## BANANA SHORTCAKE

*Use fully ripe bananas—  
yellow peel flecked with brown*

Split into 2 layers, homemade or baker's gingerbread, cake, cupcakes or biscuits. Place whipped cream and sliced ripe bananas between lay-

ers and on top. Garnish with a cherry, if desired.

Peel and slice additional bananas crosswise on the bias, just before serving, and arrange them around the Banana Shortcake, if desired.



## BROILED BANANAS

6 firm bananas  
2 tablespoons melted butter  
Salt

*Use all-yellow or slightly  
green-tipped bananas*

Peel bananas. Place on broiler rack or into pan. Brush well with butter and sprinkle lightly with salt. Broil 6 to 10 minutes, or until bananas are brown and tender . . . easily pierced with a fork. Six servings.

*Serve very hot as a vegetable.*

## BUSINESS REPLY CARD

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UNITED FRUIT COMPANY

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### THE ETERNAL GRAB

One day Abraham Lincoln was walking along a street in his home town of Springfield, Illinois, with his two small sons, both of whom were crying lustily.

A neighbor stopped and inquired, "What is the matter with the boys?"

"Just the same as what's the matter with the whole world!" replied Lincoln. "I've got three walnuts and each one of the boys wants two." *Magazet*

### TO GROW OLD

In a book published on the subject of longevity (printed in 1799 by James Eaton of Salisbury, England) some circumstances are occasionally mentioned regarding the food and the habits of persons who lived incredibly long. The following seem best entitled to notice, and if they prove anything it would seem to be the consistent inconsistency of what keeps people from dying.

1. John Huffey, 116. For 50 years his breakfast was halm tea sweetened with honey and pudding for his dinner. 2. Judith Bannister, 108. Last 60 years of her life lived upon biscuit and apples. 3. John Rlva, 116. Always chewed citron-hark. 4. Elizabeth Machpherson, 116. Her diet was buttermilk and greens. 5. Fluelyn Price, 108. Herb tea for breakfast, plain meat for dinner, nought but a pipe of tobacco for supper. 6. Mr. Cateby Smith, 103. He drank only buttermilk. 7. William Riddle, 115. His chief subsistence was bread infused in spirits and ale. 10. The Honorable Mrs. Watkins of Glamorganshire, 110. For her last 30 years she subsisted entirely on potatoes.

*Selections from THE TRIBUNE PRIMER by Eugene Field*

#### The Humorous Boy

This man is a School Teacher. He is going to Sit Down in the Chair. There is a Bent Pin in the Chair, and it will Bite the School Teacher. The School Teacher is a very able Man, and he will find it out as soon as the Bent Pin Tackles Him. Will the School Teacher rise again? We should smile. But the School Teacher will not smile. He will play a Sonata with the Ferrule on the Boy's Back. The Boy put the Bent Pin in the Chair. He is trying to be a Humorist. When the School Teacher gets Through with him, the Boy will Eat his Meals from the Mantel-Piece for a Week.

### The Mud

The Mud is in the Street. The Lady has on a pair of Red Stockings. She is trying to cross the Street. Let us all give Three cheers for the Mud.

### The Unfortunate Mousie

Poor little Mouse. He got into the Flour Barrel and Made Himself Dead. The cook baked him in a Loaf of Bread, and here he lies cut in two by the Sharp bread knife. But we will not Eat poor Mouse. We will eat the Bread, but we will Take the Mousie and Put him in the Cistern.

### The Lap

The Mother has made a Lap. The Boy is in the Lap. He is Looking at the Carpet. What has the Mother in her Hand? She has a Shingle in her Hand. What will she Do with the Shingle? She will Put it Where it will Do the Most Good.

### The Nasty Oil

Do not take the Castor Oil. It is very Nasty and will Make you Sick. Mamma wants you Take it so you Will be Sick and can't Go out and Play with the other Boys and Girls. If Mamma will give you a Velocipede and a Goat and Top, then you may Take the Castor Oil and it will not Hurt you.

### FOR P. T. BARNUM

The Old Farmer has apparently an authentic report of a three-colored cat (male), which the owner will be glad to show to P. T. Barnum's ghost upon request. Many of us will recall that over a considerable period of years, Mr. Barnum unsuccessfully offered a huge sum for such an oddity.

### WELL KEPT

In a manuscript by one Abraham Grey, who lived about the middle of the sixteenth century, it is stated that in 1569, three Roman soldiers, in the dress of their country, fully equipped with warlike instruments, were dug out of a moss of a great extent, called Kazey moss. When found after a lapse of probably about fifteen hundred years, they "were quite fresh and plump."

### MODESTY

We hear of a certain lady so modest that she turned her washwoman out for putting her clothes in the same tub with the pantaloons of a young gentleman.

## WORD CHARADES

(Solutions on page 79)

1

My first a holy man or maid,  
Sought peace in hermit cell;  
My second by the Norsemen bold,  
Was thought in streams to dwell.

My third, in our surprise or joy,  
Is but an exclamation;  
My last in kirtle and in snood,  
Is of the Scottish nation.  
My whole has been to children dear

For many a Christmas season;  
And if I fail to please them now,  
I've neither rhyme nor reason.

2

My first you will certainly find  
on the farm,  
If the drops have been good  
this year;

My second you sometimes will  
find in the brooks,  
When the season is cold and  
dreary;

My whole by the builder is carried aloft,  
By the architect skillfully  
planned,

For the mansion, the court-house  
or palace, perhaps,  
An ornament graceful or grand.

3

(First)

A vessel which a voyage made,  
When other craft all failed;  
It floated o'er the tops of trees,  
And over mountains sailed.

(Second)

A workman, one who works with  
skill  
At good and useful trade;  
Some use a mallet and a drill,  
Some are of higher grade.

(Whole)

My whole among inventors, stood  
In foremost rank of all;  
By his inventions did much good;  
Please now his name recall.

4

When I'm whole, I do not care  
Whether the days be dark or  
fair;

I do not care for crops or grain,  
For pipes or horses or cham-  
pagne,

Or what I eat or what I wear.

I care not though my friends de-  
clare

My first is calm. I'm in despair.  
And cheerfulness I cannot feign  
When I'm my whole.

Consequent joys I'll gladly spare;  
I'd rather be my last elsewhere,

Haply within my own domain.  
And though I'm really not pro-  
fane  
I almost feel obliged to swear  
When I'm my whole.

5

A soldier of the rebels lay dying  
in the field;

A brave but sturdy fighter, he  
could fall but could not yield.  
But a comrade stood beside him  
while his life-blood trickled  
fast,

And bent with pitying glances, to  
wrap him in my last,  
Seeking his country's glory, e'en  
in the cannon's mouth.

Though in the midst of blood-  
shed, my first stood for the  
South.

The dying soldier faltered as he  
took his comrade's hand,  
Saying, "Make my whole, my  
brother, it is my last com-  
mand."

6

A well-known ballad has re-  
hearsed

The placid waters of my first.  
The hero bold, his noble friend,  
The heroine's sad, untimely end,  
Why by a traitor was immersed  
Beneath the waters of my first.

Another ballad I could name  
Describes the doings of a dame;  
Her home-life and her walks  
abroad,

And her companions. We are  
awed

At all the tales her memories tell,  
And what strange happenings  
befell.

'Tis said that she went to my  
last.

Now this we know: that if she  
passed

Into my last, and didn't hand  
My last, according to demand,  
'Twas not my last, and we may  
say

She was a deadhead in her day.  
My whole's desired by everyone  
From day to day, from sun to  
sun.

For it we pray, we work, we  
earn;

Look out for it at every turn.  
And when at last we've had our  
day,

My last my first we'll have our  
say.

Credits: Charades 1, 2, and 3  
from St. Nicholas 1874. Charades  
4, 5, and 6 from The Sign of  
the Sphinx, series First and Sec-  
ond, by Carolyn Wells.



## OLD FASHIONED PUZZLES

(Answers appear on page 79)

### 1. Ellipses

(Fill the blanks with the same words transposed)

1. He sits and \_\_\_\_\_ over his \_\_\_\_\_.
2. The poor child could only \_\_\_\_\_ through her \_\_\_\_\_.
3. They kept on the \_\_\_\_\_ as to \_\_\_\_\_ their position.
4. With his \_\_\_\_\_ he killed three \_\_\_\_\_.
5. \_\_\_\_\_ sometimes wound worse than \_\_\_\_\_.
6. The \_\_\_\_\_ flew to the \_\_\_\_\_ for shelter.
7. The \_\_\_\_\_ was walking on the \_\_\_\_\_.
8. She was very clean and had much \_\_\_\_\_.

### 2. Star Puzzle

Arrange eight words, having the following significance, so as to read the same up and down, vertically; east and west, horizontally; and, diagonally, right and left, up and down.

1. To indent.
2. To put on.
3. To broach.
4. To marry.
5. Extremity.
6. To bend the head.
7. Convenient.
8. Moisture.

### 3. Puzzle

I am useful on the farm, and on shipboard. Transpose me, and I am out of place on your tables. Change me to my original form and remove my middle, and I become part of your face. What am I?

### 4. Add and Think Puzzle

Take fifty, add a cipher, add five, add the fifth of eight, and the total is the sum of human happiness. (The Romans had an answer for this.)

### 5. Arithmetical Puzzle

Three persons own 51 quarts of rice, and have only two measures; one a four quart, the other a seven quart measure. How shall they divide it into three equal parts?

### 6. Another one

In what manner may the first 25 be arranged so that the sum of each row of five figures may equal 65?

1	10	12	18	24
9	11	20	22	3
13	19	21	5	7
17	23	4	6	15
25	2	8	14	16

### 7. A Backward Story

(If you can't correct this in ten minutes, you are in the editor's class.)

(In the following story, thirty-eight of the one hundred and forty-three words are spelled backwards. When they are corrected, the narrative becomes clear.)

A beautiful girl had a new close to the very pot trap of her head.

"Tub," said she, "it does not ram it much, at least ton when I nod my ten."

When she was her mother and lover ward near, she was glad the ten saw a good tif. Besides, as the sag was ton lit, the moor was mid. Once, being startled out of a pan by thunder, she bumped the new tub she went where there saw a wolf of cold water and held it under.

"Trips, water!" said she, faint as a wounded reed, and then she went for den. Den was a orgen doctor. He put no rat, which was teem, but her am saw dam, because it was not trap water. However, it cured her, and won she yam wear her ten or ton, as she pleases.

M-M-M-M! BEST  
DEVILED HAM  
I EVER TASTED

OF COURSE...  
IT'S THE ORIGINAL  
ALL FINE HAM  
PERFECTLY  
SEASONED



*For 84 Years  
America's Favorite  
Sandwich Spread*



BE WARM  
CHILL  
BEFORE  
USING  
MADE IN  
U.S.A.

**UNDER WOOD**

TRADE

MARK

NET WEIGHT

2 1/4 OUNCES

**DEVILED HAM**

Ingredients  
Cured Ham  
Natural

W.M. UNDERWOOD  
BOSTON

**DELICIOUS ON TOAST UNDER POACHED EGGS!**

RECIPES — KITCHEN HINTS —

**YANKEE PORK AND BEANS**

Pick over carefully a quart of beans and let them soak overnight.

In the morning wash and drain in another water and put on to boil in cold water with half teaspoon soda; boil about thirty minutes, drain and put in earthenware pot. Add three tablespoonfuls molasses. When the beans are all in the pot put about three quarters of a pound of salt pork in the center. (Score pork in slices or squares.) Season with salt and pepper . . . cover all with hot water and bake for six hours or longer in a moderate oven adding more water if needed. Keep bean pot covered so that they will not burn on the top, but remove cover about two hours before serving so that the top will brown and the pork will crisp.

Just as tea and lemon go together . . . so do baked beans and brown bread.

**STEAMED BOSTON BROWN BREAD**

1 cup graham flour	1 teaspoon baking soda
1 cup rye flour	$\frac{1}{2}$ cup brown sugar
1 cup white flour	$\frac{1}{2}$ cup molasses
1 cup cornmeal	4 cups cold water
1 teaspoon salt	1 cup raisins

Mix and sift the dry ingredients, stir in the molasses and the water and raisins. Pour into buttered brown bread mould. Cover and steam for three hours.

**FRESH GREEN PEA SOUP**

1 qt. green peas	1 T. flour
1 onion sliced	1 cup milk
1 pt. hot water	1 cup cream
2 T. butter	

Cover peas with hot water, add onion and cook until the peas are tender enough to be mashed. Press through a sieve and add 1 pint of hot water. Blend butter and flour, cook a few minutes but do not brown. Add the peas, milk and cream. Season with salt and pepper and allow to come to a boil. Strain and serve hot. Serves about 8.

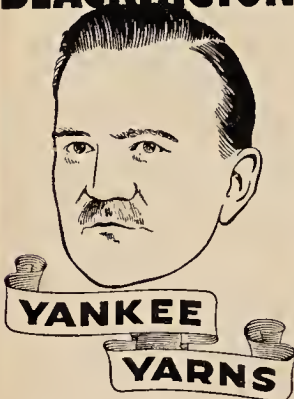
**MOTHER'S BAKED SUGAR CURED HAM**

6 large sweet potatoes	3 apples
$\frac{1}{2}$ cup pineapple juice	$\frac{1}{4}$ pound butter
2 pounds cooked ham, sliced	$\frac{1}{2}$ cup honey

Boil the potatoes with the skins on for about 30 minutes. Peel and mash thoroughly. Add the pineapple juice and mix well. Butter a large baking dish and place a thin layer of the mashed potatoes on the bottom. Place a slice of ham on top of the potatoes then cover the ham with thin slices of fresh apples. Sprinkle with salt, dot with butter and honey. Repeat until all the ingredients have been used up. The top layer should be the sweet potatoes. Sprinkle with melted butter and bake in a 350° oven for about 1 hour.



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*"Blackie"*  
**BLACKINGTON**



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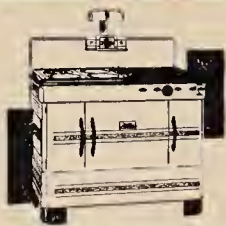
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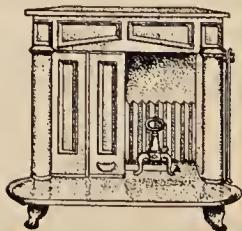
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**CATALOG 21**



**PORTLAND STOVE FOUNDRY COMPANY**  
**PORTLAND, MAINE**

**CLAM PIE**

Take three pints of either hard or soft shell clams and chop fine. Put in a sauce pan and bring to a boil in their own liquor, or add a little water if needed. Have ready four medium sized potatoes boiled until done and then cut into small squares. Line a casserole with pastry. Add a layer of clams, then potatoes and season with butter and salt and pepper and then dredge with flour. Add another layer of clams until the dish is filled. Cover with the top crust and bake in hot oven for about one half hour.

**CHEESE AND POTATO FRITTERS**

3 cups hot mashed potatoes	1 egg well beaten
1 T. flour	3 T. bread crumbs
$\frac{3}{4}$ cup fresh milk	$\frac{1}{2}$ T. butter, melted
$\frac{1}{2}$ teas. chopped parsley	Salt and pepper
$\frac{3}{4}$ cup grated American cheese	

Combine the ingredients in the order given. Beat well and drop by the spoonful into deep hot fat (375° F.) and then drain on brown paper.

**MOLASSES PECAN CUSTARD PIE**

3 eggs well beaten	$1\frac{1}{2}$ cups chopped pecan meats
1 cup sugar	$\frac{1}{4}$ teas. salt
1 cup molasses	1 teas. vanilla
$\frac{1}{2}$ cup butter	Pie Pastry

Beat eggs thoroughly and add the sugar gradually beating well each time. Add molasses, melted butter, nutmeats, salt and vanilla. Pour the mixture into a nine inch pie tin lined with pastry. Bake for ten minutes in a 450° F. oven and then lower heat to 325° F. and bake until firm or for about thirty minutes. Top with whipped cream.

**UNCOOKED WINTER RELISH**

$1\frac{1}{2}$ cups celery chopped medium fine	$1\frac{1}{2}$ cups cooked beets
$\frac{1}{2}$ cup green pepper, chopped	$\frac{1}{3}$ cup horseradish
2 teas. salt	$\frac{1}{2}$ cup brown sugar
	Cold cider vinegar

Combine the ingredients in the order given. Place in a jar, cover closely and let stand for at least 24 hours.

**SALTY SEA FRENCH TOAST**

1 cup cooked shredded fish	3 eggs
$\frac{3}{4}$ cup medium white sauce	$\frac{1}{2}$ cup milk
White bread	Frying fat

Combine the fish with the white sauce. Remove the crusts from the bread and spread with the fish mixture. Top with another slice of bread to form a sandwich. Beat the eggs, add the milk and dip in the fish "sandwiches" drain and fry in just enough fat to keep from sticking to the pan.

**REFRIGERATOR ROLLS**

3 T. shortening	1 teas. salt
2 cups lukewarm water and milk	1 egg beaten
2 yeast cakes	7 cups sifted flour
$\frac{1}{2}$ cup sugar	

Melt the shortening and place in a bowl with warm water and milk, yeast cakes, sugar, salt and egg. Mix thoroughly. Add half of the flour and beat. Fold in remaining flour. Let rise until double in bulk and then "punch down" and chill in refrigerator. Allow dough to rise before baking.

## KITCHEN QUANTITIES (FOR THE HOUSEWIFE)

### DRAWER AND PANTRY

60 drops .....1 teaspoon	4 pecks .....1 bushel
3 teaspoons .....1 tablespoon	16 ounces .....1 pound
2 tablespoons ....1 liquid ounce	4 cups flour .....1 pound
4 tablespoons .....¼ cup	3 cups cornmeal .....1 pound
16 tablespoons .....1 cup	2 cups granulated sugar 1 pound
2 cups .....1 pint	2⅔ cups brown sugar ..1 pound
2 pints .....1 quart	2 cups solid butter ....1 pound
4 quarts .....1 gallon	1 square bitter chocolate 1 ounce
8 quarts .....1 peck	

### TIME FOR BOILING VEGETABLES

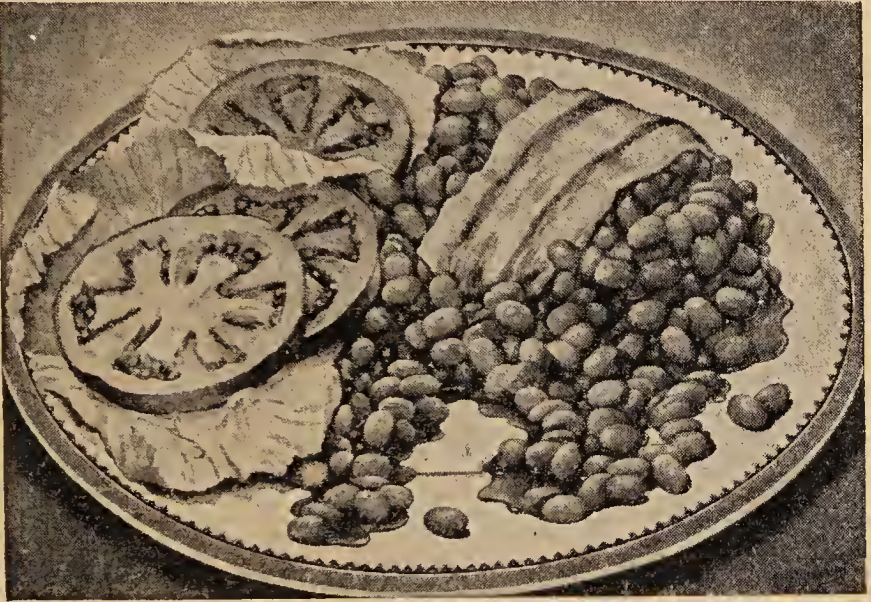
	Minutes
Asparagus .....	30 to 40
Beans .....	15 to 35
Beet Greens .....	15 to 30
Beets .....	30 to 50
Broccoli .....	15 to 25
Brussels Sprouts .....	15 to 20
Cabbage .....	5 to 10
Carrots .....	15 to 25
Cauliflower .....	15 to 30
Corn .....	7 to 12
Dandelion greens .....	20 to 35
Eggplant .....	15 to 20
Okra .....	20 to 40
Parsnips .....	20 to 40
Green Peas .....	10 to 30
Potatoes .....	20 to 45
Sweet Potatoes .....	25 to 30
Spinach .....	5 to 10
Summer Squash .....	10 to 20
Tomatoes .....	5 to 15
Turnips .....	15 to 40

### EQUIVALENTS

1 pound all purpose flour .....	4 cups sifted
1 pound cake flour .....	5 cups sifted
11 Graham crackers .....	1 cup crumbs
¼ pound marshmallows .....	16 whole
1 pound pecans in shell .....	2¼ cups meat
1 pound almonds in the shell .....	1¾ cups meat
1 pound walnuts .....	1⅔ cups chopped
½ pound bacon, sliced .....	9 to 10 slices
1 pound frankfurters .....	9 frankfurters
1 pound bananas .....	3 medium
1 medium lemon .....	3 T. juice
1 medium orange .....	⅓ cup juice
1 pound peaches .....	4 medium
12 to 14 egg yolks .....	1 cup
8 to 11 egg whites .....	1 cup
½ pint whipping cream .....	2 cups whipped



# CUT MEAL COSTS IN HALF



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(In glass, or tin)

Give your family an extra-special treat while making big meal-cost savings by serving frequent meals of B & M Brick-Oven Baked Beans. They're baked (not steamed) for *one entire day* with lots of pork and spicy sauces, baked mealy and tender the true New England way... in famous Burnham & Morrill ovens "Down East" in Portland, Maine.









Table II — Continued

Crop	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Seeds Per Acre	Moon Most Favorable
Tomato				***	0000	0000	00XX	XXXX	XXX					4.6-12
Turnip	E			***	0000	0000	XXXX	x						4.12-19
Wheat		0000	0000	0000	0000	0000	0000	XXXX	XX**	0000	00XX	XXXX	0000	8.8-16 10.21-28

## APPROXIMATE OUTDOOR PLANTING, GROWING, AND HARVESTING TABLES

### III. LATITUDE OF ATLANTA, GEORGIA.

(Add one week every 100 miles north or 500 feet elevation).

Date to Plant \*\*\*\*\*. Time of Growing 00000. Harvest Season XXXXX.

E means Early. L means Late.

Crop	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Seeds Per Acre	1949 Moon Most Favorable
Barley				****	***0	0000	0000	0000	0000	XXXX	x			4.6-12
Beans	E		**	*000	0000	00XX	XXXX		***	0000	00XX	x		3.29-31
Beets	E	***	0000	0000	XXXX				***	0000	00XX	XXXX		8.1-8
Broccoli	E	**	**00	0000	XXXX				***	0000	00XX	XXXX		2.13-19
Brussels Sprouts	E	**	***0	0000	0000	00XX	XXXX	x		0000	00XX	XXXX		2.27-28
Cabbage	E	xxx	***	*000	0000	00XX	XX	**	0000	0000	0000	00XX		8.1-8
Carrots	E	xx	**	*000	0000	XXXX	x		0000	0000	0000	XXXX		2.27-28
Cauliflower	E		**	*000	0000	0000	XXXX		****	*000	0000	00XX		7.3-10
Celery	E	xxx	xx		**	0000	0000	0000	XXXX			0000		2.27-28
Corn	E		**0	0000	0000	XXXX	XX		0000	XXXX				9.22
Cucumber	E		**	***0	0000	00XX	XXXX		0000	0000	00XX	XXXX		4.6-12
Egg Plant	E			***	0000	0000	0000	0000	0000	XXX				7.3-10
Endive	E		**	***0	00XX	XX			00XX	XXX				4.6-12
Kale	E		**	*000	0000	XXXX			**	*000	00XX	XXXX	x	2.27-28
Leek	E		**	****	**00	0000	0000	00XX	XXXX	XXXX	XXXX	XXXX	XXXX	8.1-8
Lettuce	E		**	*000	XXXX				***	0000	00XX	XXXX	XXXX	2.27-28
Melon, Musk	E		**	*000	0000	00XX	XXXX	XXXX	x					9.22
Onion	E		*	***0	0000	0000	0000	XXXX	XX					3.29-31
Parsley	E	0000	0000	0000	000X	XXXX						***		12.19
Parsnip	E	XXXX	XXXX	x	0000	0000	0000	XXXX	XXXX	XXXX				2.27-28
Peas	E	xxx	xxxx	x	0000	0000	0000	XXXX	XX					8.1-8
Peppers	E	**	*000	XXXX	XXXX	x			0000	0000	0000	XXX		2.13-19
Potato	E	***	****	*000	0000	0000	0000	00XX	XXXX	XX				7.10-17
Pumpkins	E		**	***0	0000	0000	0000	0000	0000	0000	0000	XXXX	XX	1.7-14
Radish	E	xx	****	*000	xxx	000X	XX		**	0000	0000	XXX		8.1-8
Spinach	E		**	***0	0000	0000	0000	XXXX	XXXX	XX				4.6, 28
Swiss Chard	E		**	***0	0000	0000	XXXX	XXXX	XXXX	XX				1.14-17
Squash	E	xxx	xxxx	xxx	0000	0000	0000	XXXX	XXXX	XX				4.12-19
Summer Tomato	E		**	***0	0000	0000	00XX	XXXX	XXXX	XX				4.6, 28
Turnip	E	xxx	**00	0000	00XX	XXX			****	**00	0000	XXXX		9.22
Wheat	L	0000	0000	0000	0000	0000	0000	00XX	XXXX	XX**	****	*000		2.13-14 9.22-28 9.22-28

## GYPSY NOTION

Of the associations most of us have with the gypsy costume, ear rings perhaps stand out the strongest. Many women wish to run right out and dress up, too—gypsy ear ring style—after having seen the effect of the gold against the bronzed gypsy skin. Few realize however that the gypsies make quite a fuss about having their ears pierced. Some will not have it done when the plums are ripe. Others will not submit to piercing when the weather is cold. Still others have their fancies as to the time of the moon for piercing. So when should you do it? Consult your nearest gypsy!

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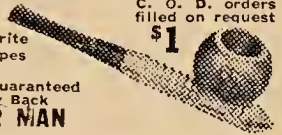
MARY TUCK

Brookfield, Conn.

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**HOW to  
BREAK  
and  
TRAIN  
HORSES**



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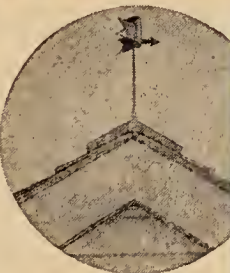
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\*All general correspondence is conducted by the associate director.

## A TABLE FOR TELLING THE WEATHER THROUGH ALL THE LUNATIONS OF EACH YEAR FOREVER

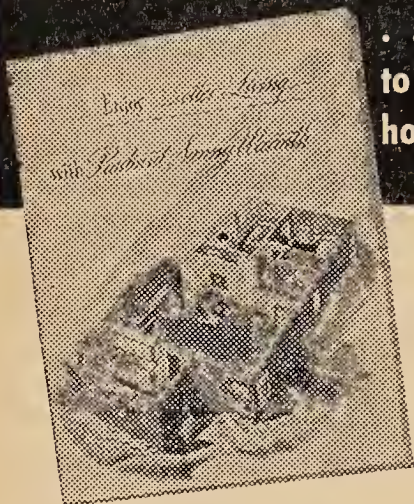
Moon	Time of Change	In Summer	In Winter
	From Midnight to 2 A.M.	Fair	Hard frost, unless wind be S. or W.
	From 2 A.M. to 4 A.M.	Cold, with frequent showers	Snow and stormy
	From 4 A.M. to 6 A.M.	Rain	Rain
	From 6 A.M. to 8 A.M.	Wind and Rain	Stormy
	From 8 A.M. to 10 A.M.	Changeable	Cold Rain if wind be W.; Snow if E.
	From 10 A.M. to Noon	Frequent Showers	Cold & high wind.
	From Noon to 2 P.M.	Very rainy	Snow or rain.
	From 2 P.M. to 4 P.M.	Changeable	Fair & mild.
	From 4 P.M. to 6 P.M.	Fair	Fair.
	From 6 P.M. to 8 P.M.	Fair — if wind N.W. Rain — if S. or S.W.	Fair & frosty if wind N. or N.E.; Rain or snow if wind S. or S.W.
	From 8 P.M. to 10 P.M.	Same as from 6 P.M. to 8 P.M.	
	From 10 P.M. to Midnight	Fair	Fair & frosty.

The nearer the time of the moon's change, first quarter, full, or last quarter is to midnight, the fairer the weather will be during the seven days following. (10 P.M. — 2 A.M.).

The nearer to noon the more foul or wet weather is to be expected. (10 A.M. to 2 P.M.).

Spring and autumn are affected nearly in the same ratio as summer and winter.

**Before you buy any Heating System  
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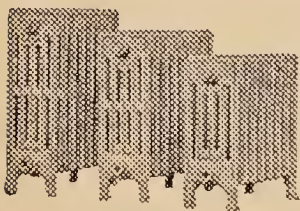
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to comfortable, economical  
home heating — and it's FREE**

Your heating system should be a basic consideration when you're building or remodeling. "Enjoy better living with Radiant Sunny Warmth" will help you choose wisely... tells what every type of heating system offers... how to get dependable, efficient, economical heat. Send for this home-heating guide today — it's FREE!

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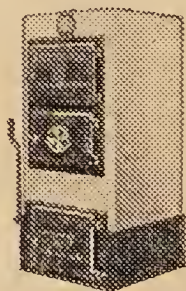
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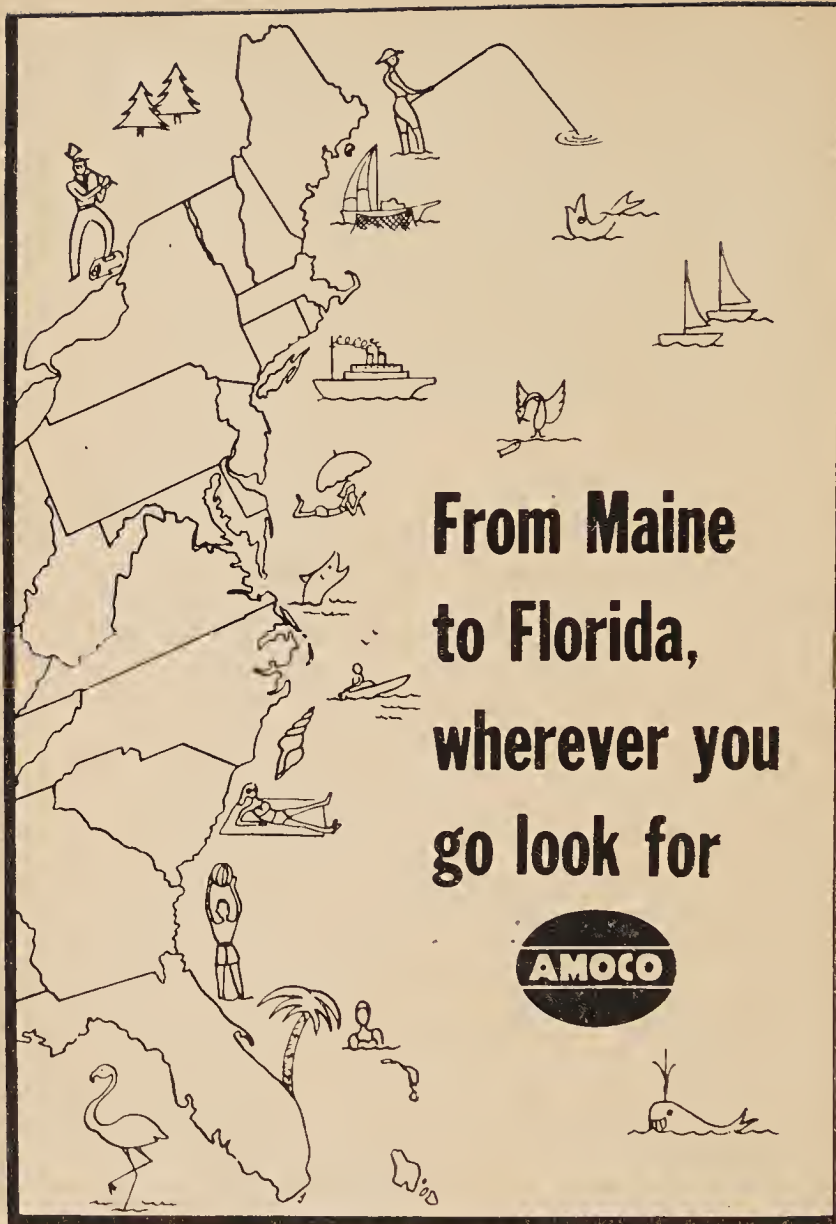
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## PRINCIPAL HOLIDAYS, ETC. IN 1949

America has no nationwide holidays. Each state determines its own. In the table that follows (\*) indicates these quite generally observed by all states; (\*\*) indicates those for only certain states; and (\*\*\*) indicates days usually observed in some localities though probably not observed as holidays. Only continental United States is covered here. These dates are also all indicated on right hand calendar pages in abbreviated form.

Jan. 1 (*) New Year's Day	May 8 (***) Mother's Day
Jan. 8 (**) Battle of New Orleans	May 10 (**) Memorial Day (N. C. & S. C.)
Jan. 19 (**) Robert E. Lee's Birthday	May 20 (**) Mecklenburg Day (N. C.)
Jan. 20 (**) Inaugural Day (D.C.)	May 22 (***) Nat'l Marine Day
Jan. 26 (**) MacArthur Day (Ark.)	May 30 (*) Decoration or Memorial Day
Feb. 4 (**) Arbor Day (Ariz.)	June 3 (**) Jefferson Davis Day (Ala., Ark., Fla., Ga., La., Miss., S. C., Tenn., Tex. & Va.)
Feb. 12 (**) Abraham Lincoln's Birthday	June 14 (**) Flag Day (Mo. & Pa.)
Feb. 14 (**) Admission Day (Arizona)	June 15 (**) Pioneer Day (Idaho)
Feb. 14 (***) Valentine's Day	June 17 (**) Bunker Hill Day (Suffolk County, Mass.)
Feb. 15 (***) Susan B. Anthony Day	June 19 (***) Father's Day
Feb. 22 (*) George Washington's Birthday	June 20 (**) West Virginia Day
Mar. 1 (**) Mardi Gras	July 4 (*) Independence Day
Mar. 1 (**) State Day (Nebraska)	July 13 (**) Forrest's Day (Tenn.)
Mar. 2 (**) Texas Independence Day	July 24 (**) Pioneer Day (Utah)
Mar. 7 (**) Burbank Day (Cal.)	Aug. 1 (**) Colorado Day
Mar. 15 (**) Jackson Day (Tennessee)	Aug. 4 (***) Coast Guard Day
Mar. 17 (**) St. Patrick's or Evacuation Day	Aug. 16 (**) Bennington, Vt. Battle Day
Mar. 25 (**) Maryland Day	Aug. 19 (***) National Aviation Day
Apr. 1 (**) State Election (Michigan)	Aug. 30 (**) Huey Long Day (La.)
Apr. 6 (**) Army Day	Sept. 5 (*) Labor Day
Apr. 10 (***) Arbor Day (Neb.) 1872	Sept. 9 (**) Admission Day (Cal.)
Apr. 12 (**) Halifax Day (N. Car.)	Sept. 12 (**) Defender's Day (Md.)
Apr. 13 (**) Jefferson Day (Mo., Okla., Va.)	Sept. 12 (**) Election Day (Me.)
Apr. 14 (***) Pan American Day	Sept. 17 (***) Constitution Day
Apr. 15 (**) Good Friday (Conn., Del., Fla., La., Md., Minn., N. J., Penn. & Tenn.)	Sept. 23 (***) Am. Indian Day
April 18 (**) Easter Monday (N. C.)	Oct. 6 (**) Missouri Day
Apr. 19 (**) Patriots' Day (Me., Mass.)	Oct. 12 (*) Columbus Day
Apr. 21 (**) San Jacinto Day (Texas)	Oct. 27 (***) Navy Day
Apr. 24 (**) Arbor & Bird Day (Mass.)	Oct. 31 (**) Nevada Day
Apr. 26 (**) Memorial Day (Fla., Ga., Miss.)	Nov. 1 (**) All Saints' Day (La.)
Apr. 28 (**) Fast Day (N. H.)	Nov. 8 (*) Election Day
May 4 (**) R. I. Independence Day	Nov. 11 (**) Armistice Day
	Nov. 23 (**) Repudiation Day (Md.)
	Nov. 24 (*) Thanksgiving Day
	Dec. 7 (**) Delaware Day
	Dec. 21 (***) Forefather's Day
	Dec. 25 (*) Christmas Day

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## CURIOUS FACTS

A flea can jump a height equal to 200 times its own stature.

The curious dwarf trees seen in China—oaks, chestnuts, pines and cedars, sometimes 50 years old and yet not a foot high—are produced by trimming the roots. The tap root is cut off a young plant, and if too much growth is threatened other roots are shortened, and every year the leaves grow smaller and at last a perfect tree in miniature appears.

In the year 1669, at a term of court held in New Haven, Jacobeth Murtime and Sarah Tuttle were prosecuted. They were accused of "setting down on a chestle together, his arms around her waiste, and her arme upon his shoulder or about his neck, and continuing in that sinful posture about half an hour, in which time he kyssed her and she kyssed him, or they kyssed one another, as ye witnesses testified."

A man named Chenworth, who lives in the village of Cowboy, Kan., owns a horse which he sends to a store three miles distant for provisions. A note tied to the horse's mane has a list of the articles wanted. They are strapped in a bag to his back. The animal never stops to nibble grass, but goes the whole distance at a brisk trot.

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## A CAT'S DEVOTION

Some years back a London music hall proprietor owned a tabby, tortoise-shell cat which had a family of four kittens which he allowed her to keep in a basket at the rear of the stage. When the hall caught fire, the cat was seen to rush about frantically as her kittens were on the other side of the fire from her. Finally she made a dash for them through smoke and flame—and one by one, brought three of them to safety—depositing each at her master's feet. Exhausted, badly burned, she went back after the fourth, but never returned. After the fire her charred body was discovered next to the blackened remains of her kitten.

This remarkable illustration of maternal devotion took place in Lusby's Music Hall in about 1885—and is the more remarkable because cats as a rule are not granted the compassion we humans are accustomed to allow the dog, and horse, and some other animals.

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## 1949 CYPHER CONTEST

The number "6667" refers to two lines of type on a page of this edition. For the best rhyme to go with these two lines not over 13 words long, prizes of \$25.00, \$15.00 and \$5.00 will be awarded respectively to 1st, 2nd, and 3rd choice by the judges. The Yankee Magazine staff will judge this contest and their decision is final. No entries returned and all remain the property of the Almanac. All entries must be received by March 1, 1949. Winners will be announced in the April 1949 issue of YANKEE Magazine and in the 1950 Old Farmer's Almanac.

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*For All Home Dyeing and Tinting*

New ALL-FIBRE PERFECTION DYES color Wool, Silk, Cotton, Linen—Even Nylon and All Rayons! No muss nor fuss.

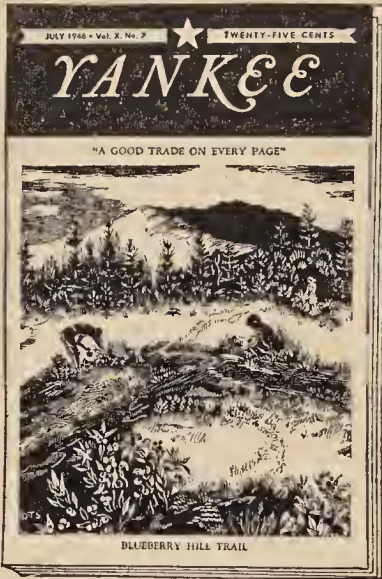
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YANKEE's subscribers use this magazine to further their own businesses, hobbies, and pursuits of pleasure. You can do this too. Our offer is six one inch ads, and a year's subscription—all for \$17.99—You send us \$1.19 for the subscription—and the copy for your ads (1 inch high by 2 $\frac{5}{8}$  inches

wide), tell us which months you want the ads to appear *and* we send you bill for each (\$2.80) when it is published. YANKEE practises what it preaches. YANKEE advertisements and subscriptions cost *less* now than before the war. Now you know that is a good trade.

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## YANKEE, Incorporated

Dublin, New Hampshire

[Publishers of Yankee magazine *and* The Old Farmer's Almanac(k)]

## SCIENTISTS AT WORK

Courtesy (in part)—U. S. Department of Agriculture

### I. "The War of Food"

While much of the world remains unable to feed itself, while our population and the world's (despite famine, and disease and war) increases as the amount of arable land and its fertility decreases, the need for bigger and better crops becomes most urgent. We must, it is argued, therefore wage war on all enemies of crops—especially the insects. This means more insecticides. The number of these that have been experimented with is scarcely believable. In just the last five years no less than 10,000 chemical compounds have been tested. We used to think of basic insect killers as being kerosene, pyrethrum, the arsenicals, nicotine and rotenone, but as this is written there are no less than eight new ones so deadly that we might well throw all the old ones away and not miss them at all. It is estimated that crop losses in the future should be cut no less than 25 percent and perhaps by as much as 75 percent. Coupled with this is the fact that many plant varieties resistant to diseases and insects are being developed. Agricultural scientists generally believe that the deadly new insecticides (and fungicides) and these new plant varieties will be important factors in winning the war of food.

But they are not the chief factors. We are turning to these fungicides and insecticides as an emergency measure, and should recognize that they are in no sense a cure-all for our real trouble. Indeed they may in the long run be getting us into more and more trouble, since it can be argued that the more we use of them the more we may have to use. It is our soil that is sick. Over the years we have relentlessly been taking from it more than we could put back in those minerals that make for healthy, healthful crops. There are those who believe that a thoroughly natural, normal soil will produce crops needing no fungicides and insecticides at all since they will not be attacked by insects and disease. All of us can at least go along with them in this hope, and certainly agree that the preservation and restoration of our soil is the first essential. Unfortunately, restoration cannot be had with a snap of the fingers, and we must fight ignorance, careless farming methods, and lack of fertilizers to really preserve what we have left. Soil building can be done organically with compost methods, but on a large scale this, at the writing, appears a slow, terribly laborious job—excellent though it be. Our commercial fertilizers are "the quick way," if we know the right fertilizers to use in the right amounts. Almost invariably we underfertilize or put on mixtures that are not best for the balance of our soils. And, of course, we have had and still have a serious lack of nitrates.

Any measures to immediately protect our crops are necessary; therefore, the use of fungicides and insecticides. But the basic long range battle remains to **win back the fertility of our soil.**

We are up against a vicious and apparently inevitable circle: a rapidly increasing world population (despite wars and famine), greater demands for more and more food from decreasing crop lands most of which become less fertile each year.

Here are some population and food statistics for the United States. The population in 1918 was 105,000,000, in 1945 it was 145,000,000 and it is not unreasonable to suppose that in 1960 we may see 155,000,000 and ten million more in 1990.

Nutritionists estimate that it takes about three acres of land to provide each American with food and clothing to maintain an "average" American standard of living. At the present time we have about 460,000,000 acres of cropland, and that sounds like a lot, but in the next few years a point may be reached where there are less than three acres of cropland for everyone. We believe farmers and scientists and manufacturers working together will lick the problem, but in the meanwhile it leaves us with plenty to think about.

2. "Damping Off," that old nightmare of the amateur gardener who tried to germinate flower and vegetable seeds in flats in a sunny window, has lost most of its terrors.

For several years now, a growing number of these gardeners have been avoiding all trouble with this plant killing fungus by germinating their seed in sphagnum moss. Most seed and supply dealers are now offering packages of dried sphagnum moss as a seasonal spring staple. The U. S. Department of Agriculture has published a leaflet on sphagnum moss obtainable from the Government Printing Office, Washington, at 5 cents, that gives details for using the moss.



The flat may be packed solid with the shredded moss. If the supply of moss is scanty, the flat may be filled with well-drained soil, leaving space for about an inch of moss blanket on the surface.

3. **2,4-D Kills Celery's "Typhoid Mary."** Keeping celery healthy with the aid of 2,4-D that is sprayed not on the celery but on another plant is a novelty in agricultural science reported by the Plant Disease Survey of the U. S. Department of Agriculture.

The 2,4-D would be deadly if sprayed on the celery. It is also deadly to a weed that acts as a "Typhoid Mary" of the celery fields in keeping alive an infection of the celery mosaic virus. The virus disease lives from season to season on the wild day-flower, known botanically as *Commelina longicaulis*. This day-flower is a common weed in the Florida mucklands where celery is an important crop. Aphids transfer the virus from the weed to the celery crop. The spray kills the weed, and the killing effect of the 2,4-D passes before the celery is set out.

4. **"Dehydrofreezing."** This is the name of a new process of fruit and vegetable preservation that has been developed in the Western Regional Research Laboratory at Albany, California.

This new method, says the report, combines the advantages of dehydration with those of quick freezing. It carries the product through the first cycle of dehydration, which removes a considerable amount of the weighty moisture, and then freezes it. Vitamins and flavor are virtually undamaged; so the treated product not only retains the fresh quality, but in some instances its original shape also.

This new method, the report says, seems to be better than either dehydration or freezing, partly because there is less destruction of tissues by the larger ice crystals that tend to be formed when a greater amount of water is present. The chief advantage of this process is a considerable saving in weight and bulk, which in turn creates a saving all down the line, including packaging materials, storage space, and transportation facilities.

5. **"Forecasting Crop Diseases."** The regional program for forecasting the spread of certain crop diseases, is getting under way. Three field headquarters have been set up at which U. S. Department of Agriculture specialists will cooperate with State plant pathologists in compiling reports of first appearances and prevalence of late blight of potatoes and tomatoes, blue mold of tobacco, and downy mildew of cucurbits, and in relating this occurrence of disease with weather and other environmental factors.

The Ames, Iowa station will coordinate the work for 11 North Central States.

The station at Raleigh, N. C., will cover the 13 Southern States. At Newark, Delaware, the station will deal with the 13 Northeastern States. All reports will be coordinated in the Division of Mycology and Disease Survey, Plant Industry Station, Beltsville, Maryland.

6. **"Gestation Periods of Five Breeds of Cattle."** It has been found at the West Virginia Experimental Station gestation periods for the Aberdeen Angus, Hereford, Jersey, Ayrshire, and Holstein cows averaged 280.5, 285.2, 277.9, 277.8, and 278.3 days respectively. The three dairy breeds thus showed a significantly shorter gestation period of 5.8 days than the beef breeds, the dairy breeds being the last three named.

7. **"The Rest Period of Plants."** Though little is known about what causes the rest period in many plants, says Dr. H. L. Crane of the Bureau of Plant Industry it is recognized as a necessary stage in their lives if they are to grow and continue reproductive processes year after year. Particularly is this rest period necessary for trees and shrubs that shed their leaves in fall and survive freezing. The rest period is the time when the buds will not open and grow even though temperature, moisture and other external conditions are highly suitable for growth. Different trees and shrubs like different people require rest periods of widely differing length. For instance, the usual rest period of the almond tree is but two or three weeks, while the butternut commonly rests three or four months.

Among the facts learned about the breaking and beginning of the rest period Dr. Crane mentioned: Growth starts in spring as a result of the coming of warm weather and other favorable conditions. How soon rest starts depends on the age as well as the kind of tree, on moisture and nutrient supply. In some trees—the tung for example—the rest period is brought on by the arrival of short day-lengths. After the rest has become deep a certain amount of chilling temperature is needed to bring it to an end so that buds can open and grow normally when warm weather comes.

8. **"Isotopes And Farm Science."** The Atomic Energy Commission is supplying "isotopes" for research by the U. S. Department of Agriculture. From the Oak Ridge Plant, the atomic energy furnace (the pile) makes this possible. But what is an isotope? When atoms are bombarded with high-speed neutrons, an occasional nucleus of one of them absorbs a neutron. And then an "isotope" of the original element, whether carbon, phosphorus, or iodine, is formed. The substance remains exactly the same chemically and biologically, but its weight is different. Many isotopes are quite stable, but others are very unstable, their nuclei spontaneously throw off radiant energy similar to X-rays, hence they are radio-active. Many isotopes exist in nature; numerous others have been made by scientists who may even produce more than one isotope of the same element. But neutrons were hard to obtain until the Oak Ridge pile began to provide a constant source of these minute bullets, and isotopes were manufactured as a byproduct of the atom-bomb process.

The prices of these isotopes will range from \$1.10 to \$50 a unit, as compared with a million dollars each, in some cases, before the war, and when available at all—for most of them could not then have been made at any price.

It is carbon isotope 14 which promises to solve the great basic agricultural mystery, that of photosynthesis, the process by means of which plants synthesize their food and store solar energy. Isotopic phosphorus 32 is likewise important to agriculture since it can be traced when used for plant fertilization, in order to tell just what the plant does with it. Isotopes will also be very useful in medical and nutrition studies for, when introduced into animal bodies, their migrations can be recorded accurately by their energy emissions.

If such an isotope is made to form a part of sugar, for instance, the sugar can be traced throughout the complicated action by which food energy is converted into muscular work. The nutrition of cattle and of crops can be studied far more intensively and intelligently with this new tool in the arsenal of the farm research worker.

9. **"Peas Need Quicker Harvest."** Farm implement designers and agricultural engineers now have the job of developing a new type of machine for getting green peas out of the field and into the freezing plant faster than present equipment does it. This job is suggested by results of U. S. Department of Agriculture research into the causes of off flavor in frozen green peas. What is called for is a machine or combination of machines that will come as close as possible to matching what the housewife does when she gathers green peas in the garden, shells them and gets them to cooking with no lost motion or delay.

It will not be easy to improve on present vining equipment. A viner does a complicated job in the field and does it quickly. It cuts the vines, threshes out the pods, and finally shells the peas and bags them. It saves almost all hand labor. The investigation suggested the possibility that what was needed was a large capacity sheller for use in the processing plant, with quick hauling of harvested pods to the sheller from which the freshly shelled peas could roll right down a chute from the sheller to the blancher.

10. **"Automatic Flight."** On September 20, 1947, the All Weather Flying Center's automatic C-54D aircraft left Clinton County Army Air Field, Wilmington, Ohio, for Stephenville, Newfoundland. From take-off point at Stephenville, Newfoundland, the automatic C-54D completed a fully automatic transatlantic crossing to Brize Norton, England. Brize Norton is approximately forty miles due west of London.

On October 7, 1947, the automatic C-54 departed Lyneham, England, for the return transatlantic crossing to Stephenville, Newfoundland. On October 8 the automatic C-54 departed Stephenville, Newfoundland, and arrived at its home base, Clinton County Army Air Field, Wilmington, Ohio. Distances flown on the automatic flights totaled approximately 7780 statute miles.

The automatic airplane flew the North Atlantic route on the transatlantic crossings and maintained a predetermined barometric altitude of 9000 ft. A fuel supply of approximately 3700 gallons on each crossing was carried.

One button on the control panel, a button marked "Brize Norton, England," was pushed. This was the only manual operation during the entire flight. The automatic flight was carried out in twelve sequences by a self-contained electronics mechanism, the master sequence selector, without the aid of any human guidance.



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### FRANCIS W. DAHL

Cartoonist and whimsical interpreter of the follies and fashions of New England past and present and particularly of that oddity known as a Bostonian.

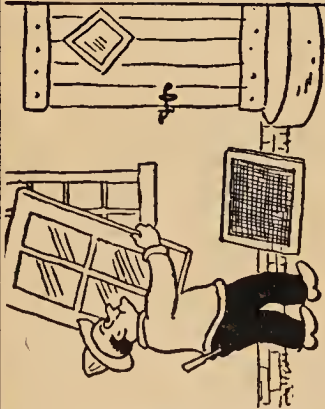
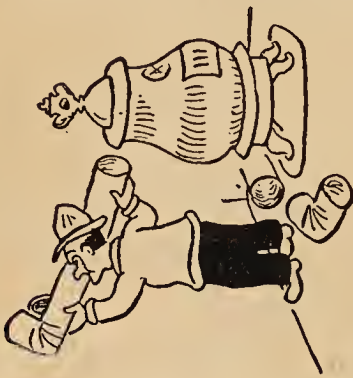
Since 1930 DAHL—as his thousands of fans simply know him—has been turning out his daily cartoon for the BOSTON HERALD. (His work is now partly syndicated and regularly appears in such un-Bostonian places as Texas).

Writes Charles W. Morton in the Introduction to "Dahl's Boston": "The only time in my memory when Dahl really missed the Herald was ten or twelve years ago when, through no fault of his, the plate was damaged just before press time. In place of the drawing, the Herald carried a cryptic announcement to the effect that if the reader liked Dahl's work he should write a letter to the Herald. Coming upon this at my own desk in the Transcript, I was appalled. What horrid nonsense was the Herald contemplating?"

I wrote a letter of expositulation then and there.

When I got home that night my wife said she had seen the announcement and written a letter. Our older daughter, then around twelve, spoke up and said she had written a letter at school."

This turning out of a daily cartoon is no mean stint, for the Dahl cartoon is seldom of the sort that can be tossed off for ultimate consumption weeks ahead. The ideas that make these cartoons usually spring from some up-to-the-minute news item, something with an angle that Dahl's beagle-nosed intuition tells him is just screwy enough for him. It's a sense of the absurd that is the core of his cartooning. Anything he touches has a montebank magic of its own, and his daily readers, could name you right off a dozen or more Dahl characters that are as loonily alive as Humpty-



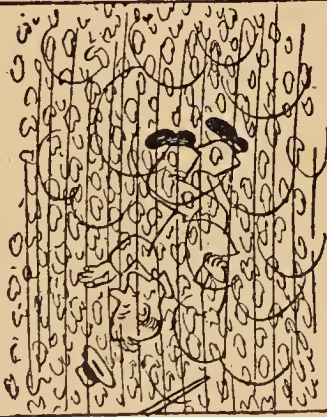
SEPTEMBER-

Dumpty or Donald Duck.

Here are just a few: Grandma Saltencabot (from Boston, of course) hell-bent for Jordan Marsh's in her black bombazine, the Boston Common pigeon, eyuleal and wordly-wise, and the Boston Common squirrel with the moth-eaten tail and the morals of a San Francisco wharf rat.

But nothing, outside of his absurdly real caricatures, touches Dahl closer than the whims and cavortings of New England weather. We have long looked upon him as a kindred spirit. The cartoon on page 75 is especially done for the Old Farmer and Mr. Weatherwise. (This cartoon, by the way, reveals for the first time a weather secret shared only by the Weather Bureau and ourselves.) How Dahl discovered it, we wouldn't know. He may have been hiding in the barometer. We wouldn't put it past him.

OCTOBER —



Dahl



### MY COW-DILEMMA

I might say that I am very glad to have a chance to explain my cow in the Old Farmer's Almanac, because so many people have been puzzled by her, particularly farmers.

Whenever I drew the cow some reader would usually comment that she was being milked on the wrong side—or that she had too many faucets. One day I showed the cow with a fine set of teeth in the upper jaw—and then everybody wrote in.

There was also some question as to whether her ears should be in front of her horns or behind them. Few people agree on this. At any rate I decided to keep the cow as she is: too many faucets, roving ears and horns, and milked on the wrong side.

She is, of course, purple in color, and I named her Dilemma because that's what she's always been to me.

Francis W. Dahl

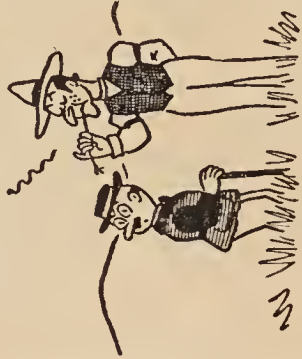
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How come?



WE PREFER 'EM.



DAHL

STUART

## VACATION LAND

By Dahl



"WE COME ALL THE WAY FROM KANSAS AND THE TIDE IS OUT."

DAHL

Cartoons on pages 76, 77, 78, 79—Courtesy The Boston Herald.

## ANSWERS TO OLD FASHIONED PUZZLES (See Page 51)

1. I mope, poem— 2. stars, tears— 3. alert, alter— 4. sabre, bears—  
5. words, sword— 6. snipe, pines— 7. horse, shore— 8. latent, talent.

2.

DON  
NODTIP  
PITDEW  
WEDTAP  
PAT

3. Chairs, china, chin.

4. LOVE.

5. Method: One-third of 5 is 17; so each must have 17 quarts. To measure 17 quarts fill the 7 quart measure twice and pour into some large vessel, making 14 quarts; then fill the 7 quart measure, draw off 4 quarts in the 4 quart measure, and then pour the remaining 3 quarts in the vessel containing the 14 quarts.

6. As in the margin.

7. A beautiful girl had a wen close to the very top part of her head. "But," she said, "it does not mar it much—at least not when I dou my net." When she saw her mother and lover draw near, she was glad the net was a good fit; besides, as the gas was not lit, the moon was dim. Once, being startled out of a nap by thunder, she bumped the wen; but she went where there was a flow of cold water and held it under. "Spirt, water," said she, faint as a wounded deer; and then she went for Ned. Ned was a negro doctor. He put ou tar, which was meet; but her ma was mad because it was not part water. However, it cured her, and now she may wear her net or not, as she pleases.

## ANSWERS TO WORD CHARADES (See Page 50)

1. St. Nicholas. 2. Cornice. 3. Arkwright. 4. Seasick. 5. Escape. 6. Welfare.

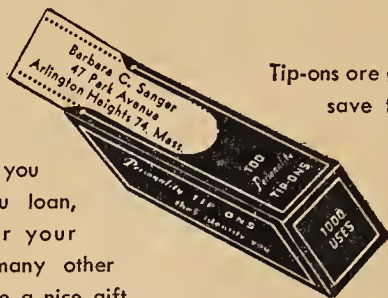
## ANSWER TO CYPHER CONTEST (See Page 56-1948 edition).

951123456 equals Page 95, 1 equals line 1, 123456 equal the first six words on line 1, to wit; "We've launched our Post-War dream." The winners: E. B. Stewart, Long Island and Lyn Pearce, Portland, Maine tied for first; E. J. Jeffrey, USS Yosemite, third. Try your luck on this year's cypher contest on page 54.

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Perhaps the most singular curiosity in the book world is a volume that belongs to the family of the Prince de Ligne, and is now in France. It is entitled "The Passion of Christ," and is neither written nor printed. Every letter of the text is cut of a leaf; and being interleaved with the blue paper is as easily read as the best print. The labor and patience bestowed in its completion must have been excessive, especially when the precision and minuteness of the letters are considered. Rudolph II. of Germany offered for it, in 1640, 11,000 ducats, which was probably equal to 60,000 at this day. The most remarkable circumstance connected with this literary treasure is that it bears the royal arms of England, but when it was in that country and by whom owned has never been ascertained.

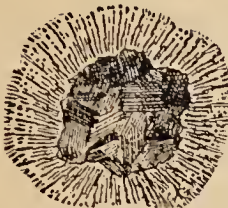


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Farmington (N.H.) News

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## He Runs For The Lord

(Based on an article by Gene Farmer In Life Magazine)

Gilbert Dodds, mile-runner extraordinary, is just the sort of fellow who, if he had been on hand in 490 B.C. would have carried the news from Marathon to Athens. Stocky, iron-legged Dodds, usually known as the Flying Parson, has a special reason for running. He runs to win, always with a determination that seems inspired, yet he seeks no personal acclaim. Quite literally he runs for the Lord. He is an unordained lay preacher in the First Brethren Church, a Protestant denomination known as the Dunkards, and he lives at Eola, Illinois, with his wife Erma, son John 5, and daughter Jann going on 3.

Dodds says he prays all the time, and you cannot doubt his sincerity when he assures you that he is running to serve evangelical ends. He once ran an exhibition mile at a Youth for Christ rally in Chicago at which he glorified the Lord for 70,000 people. If he signs his autograph for you, he will be almost certain to write below his signature a scriptural reference. For instance, "Phil. 4.13", which, incidentally, was mistaken by its recipient to mean that Dodds had run a 4.13 mile at one time in Philadelphia. The text, of course, is from Phillipians 4.13, and is typically a Dodds choice: "I can do all things through Christ which strengtheneth me."

Back in 1939 Dodds was a college sophomore and had shown so much promise as a runner that he was invited to enter the two mile race at the Millrose Games in Madison Square Garden, New York. He had never run indoors before, and early in the race—what with the unaccustomed boards and an atmosphere you could cut with a knife—he fell flat on his face, exhausted. That was the first and last time Gil has let an audience down. In 1944, he had thought to hang up his spikes for good and put all his time to study and preaching. Duty, as Dodds saw it, called, and, not too silver-tongued, he took to the pulpit. But in 1947, after considerable coaxing from his friends at Wheaton College, Chicago, where he was a graduate student in Christian education, he was persuaded to enter a race. Hesitantly he did, for at 28 he thought of himself as an old man compared to the competing youngsters. He won that race hands down and with his famous record breaking 4:05.3 indoor mile at the Millrose Games in January 1948, he had run his string of consecutive victories to 29. That 4:05.3 mile, incidentally, exactly matched the fastest mile ever run on this continent (Gundar Haegg did 4:05.3 at the Harvard Stadium vs. Dodds back in '43). There is a pre-gun story about that race with Haegg that keys the character of both men. Dodds noticed that Haegg's lips were moving silently, and asked through an interpreter what he was saying. He was told that he was praying that both men might be allowed to do their best. Dodds looked at him in amazement for it was precisely what he himself was praying.

Many a runner, intense and nervous as Dodds, a worrier, has just fretted himself out of winning. But to Dodds the tendency to under-rate himself and overrate his opponent, and which sends him to the starting mark in a dither of prayer and nerves, seems to be one of the things that lifts him on to victory. But there are other things. His coach will tell you that he has a "great heart," and he has, in a double sense—in the sense that he is courageous, and in the strictly physical sense. He has an astonishing heart. At Harvard University's fatigue laboratory he once submitted to a series of physical tests which proved that he had twice the powers of recuperation of the ordinary athlete. Two minutes after running his record-breaking mile, he was breathing normally.

If Dodds' running were confined to sprint distances only, he would be the acme of mediocrity. He never has run the 100 yard dash in faster than 11:3 a time that would scarcely place in a schoolboy meet. This is odd, for his running, like the running of a sprinter, gives one the feeling that here is a tremendous driving force. It just isn't timed for the shorter distances. He beats competition into the ground by the sheer, brutal, inexhaustible power of his running. A photo of the finish of the 4:05.3 mile shows that he had almost lapped two of his opponents. In this amazing race he ran the first quarter in a pounding 58:4 seconds, passed the three quarter mark in 3:03.9 and ripped off the fastest last quarter of his career.

The American Olympic team sailed for London in July, 1948 without the Flying Parson. An injured tendon kept him out of the tryouts. But Olympics or not—his past performances must mark him as one of the truly great runners of all time. He runs for the Lord.

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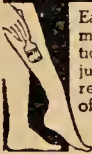
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Continued from Page 82

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37	.26	.49	.83	1.40	2.08	2.72	3.48	4.23
38	.27	.50	.85	1.44	2.14	2.79	3.57	4.35
39	.27	.52	.88	1.47	2.19	2.86	3.67	4.46
40	.28	.53	.90	1.51	2.25	2.94	3.76	4.57
41	.28	.54	.92	1.55	2.30	3.01	3.85	4.69
42	.29	.56	.94	1.59	2.36	3.08	3.94	4.80
43	.29	.57	.96	1.62	2.41	3.15	4.04	4.91
44	.30	.58	.98	1.66	2.46	3.22	4.13	5.03
45	.30	.59	1.00	1.69	2.52	3.30	4.22	5.14
46	.31	.60	1.02	1.73	2.58	3.37	4.32	5.25
47	.31	.61	1.04	1.76	2.63	3.44	4.41	5.37
48	.32	.62	1.06	1.80	2.69	3.51	4.50	5.48
49	.32	.63	1.08	1.83	2.74	3.58	4.59	5.59
50	.33	.64	1.10	1.87	2.79	3.66	4.69	5.71
55	.35	.70	1.21	2.05	3.07	4.02	5.15	6.27
60	.38	.75	1.31	2.24	3.34	4.38	5.61	6.84
65	.40	.81	1.41	2.41	3.62	4.74	6.08	7.41
70	.43	.87	1.51	2.60	3.88	5.10	6.54	7.97

EXCEPTIONS

(a) In the first or second zone, where the distance by the shortest regular practicable mail route is 300 miles or more, the rate is the same as for the third zone.

(b) On parcels collected on rural routes the postage is 2 cents less per parcel than shown in the foregoing table when for local delivery and 3 cents less per parcel when for other than local delivery.

(c) Parcels weighing less than 10 pounds measuring over 84 inches, but not more than 100 inches in length and girth combined, are subject to a minimum charge equal to that for a 10-pound parcel for the zone to which addressed.

(d) For special rates on catalogs and other similar printed advertising matter, consult postmaster.

Limit of size for parcels is 100 inches in length and girth combined. Limit of weight is 70 pounds in all zones.

**Library Books.**— Books sent by authorized libraries to readers and when returned by such readers, for delivery within the first three zones or the State in which mailed: 4 cents for the first pound and 1 cent for each additional pound up to and including 47 pounds; 52 cents for 48 pounds and 1 cent for each additional pound up to and including 70 pounds.

SPECIAL HANDLING. (Fourth Class Matter Only.)

Parcels of 4th Class Matter endorsed "Special Handling" will be given the most expeditious treatment practicable (but not Special Delivery) upon payment, in addition to regular postage: Up to 2 lbs. 10c; Over 2 to 10 lbs. 15c; Over 10 lbs. 20c.



Easy as A-B-C



# Be Your Own MUSIC Teacher

LEARN AT HOME THIS MONEY SAVING WAY

Simple as A-B-C. Your lessons consist of real selections, instead of tiresome exercises. You read real notes—no "numbers" or trick music. Some of our 850,000 students are band LEADERS. Everything is in print and pictures. First you are told what to do. Then a picture shows you how. So you can play many popular songs.

Mail coupon for our illustrated Free Book and Print and Picture Sample. Mention your favorite instrument. U. S. School of Music, 18512 Brunswick Bldg., N. Y. 10, N. Y. 50TH ANNIVERSARY.

**FREE BOOKLET**

U. S. School of Music, 18512 Brunswick Bldg., N. Y. 10, N. Y.

Please send me Free Booklet and Print and Picture Sample. I would like to play (Name Instrument).

Instrument ..... Have you ..... Instrument? .....

Name..... (Please Print) .....

Address .....

SPECIAL DELIVERY

Up to 2 pounds	Second, Third or
First Class	Fourth Class
13c	17c
Over 2 pounds up to 10 pounds	
20c	25c
Over 10 pounds	
25c	35c

The prepayment of the foregoing fee on second, third, or fourth class mail entitles it to the most expeditious handling and transportation practicable, and also entitles it to special delivery at the office of address.

POSTAL NOTES

1c to \$10..... Fee 5c

MONEY ORDER

From \$10.01 to \$20.....	13
From \$20.01 to \$40.....	15
From \$40.01 to \$60.....	18
From \$60.01 to \$80.....	20
From \$80.01 to \$100.....	22

ARMED FORCES

Three cents an ounce, regular, or five cents an ounce, air, care of U. S. Postmaster or Fleet Post Office at Ports of Embarkation.

Continued on Page 88



# SWING HAMMOCK and METAL STAND



**\$14<sup>95</sup>**  
**COMPLETE**  
 Express  
 Collect

This luxurious Swing Hammock and Metal Stand is an invitation to a blissful summer! Use it anywhere. No hooks, posts or trees necessary. Use it on lawn, porch, seashore or bungalow. Take it with you everywhere — wherever the sun shines.

The ideal combination! Roomy hammock and heavy gauge, strong metal stand holds any weight. Easily assembled. Breaks down to compact unit. Fits easily in car. Selling in stores at over twice the price. **YOU SAVE 50% BUYING DIRECT! MONEY BACK GUARANTEE!** Send check or M.O. Sorry, No C.O.D. Complete satisfaction guaranteed or money refunded in 5 days.

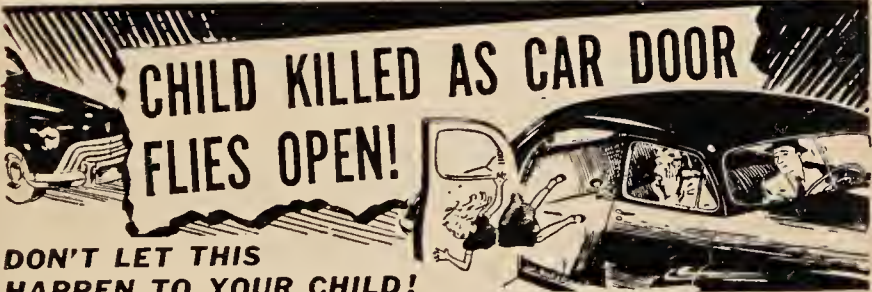
**MANUFACTURERS value co.**  
 561 McDonald Ave., B'klyn 18, N. Y. Dept. OFA.

**SOLD BY  
 MAIL ONLY  
 DIRECT FROM  
 MANUFACTURER**

# CHILD KILLED AS CAR DOOR FLIES OPEN!

**DON'T LET THIS HAPPEN TO YOUR CHILD!**

Children tamper with ordinary rear inside door handles and open them with tragic results. The latest annual figures given by the National Safety Council reveal



more than 195,000 children killed and injured in auto accidents! Now you can protect your loved ones at negligible cost. Enjoy peace of mind while driving . . .

## NEW! SAFTYLOK INSIDE DOOR HANDLES

Enjoy the comfort and pleasure of a 4 door sedan without worrying about the safety of your children in the back seat! SAFTYLOK exclusive safety control handle is essential in protecting children against the hazards of rear doors flying open while car is in motion.

### UNIQUE SAFTYLOK GIVES POSITIVE PROTECTION!

- SAFTYLOK HANDLES feature a special locking device with key — once locked they stay locked—doors open from outside only! SAFTYLOK resists all tampering and is guaranteed foolproof!
- SAFTYLOK is attached in a jiffy — all you need is a screwdriver. Remove present inside rear door handles and follow simple directions furnished. **OUTSIDE DOOR HANDLES ARE NOT TOUCHED.**
- SAFTYLOK is acclaimed and recommended by Underwriters, Brokers, Insurance Company Agencies and Safety Engineers for its accident prevention and life-protection value.

**MONEY BACK GUARANTEE:** For the sake of your children, don't delay! Send for a pair of SAFTYLOK inside rear door handles today — attach them to the inside rear doors of your car. You must be completely satisfied, or return them within 5 days and your money will be refunded in full **MAIL THIS HANDY COUPON TODAY!**

EQUIP YOUR CAR WITH  
**SAFTYLOK**  
 Pat. Pending  
**INSIDE DOOR HANDLES**

Beautifully Chrome Plated  
 Smartly Styled • FITS ALL CARS



At the  
 amazingly low  
 cost of only  
**\$8<sup>95</sup>**  
 per pair  
 postpaid

Sold by mail only direct from Mfr.

**MANUFACTURERS value co.**  
 557 McDonald Ave., Bklyn. 18, N. Y.

MANUFACTURERS value co (Dept.OFA)  
 557 McDonald Ave.  
 Bklyn 18, New York

Sorry—No C.O.D.'s

I enclose \$8 95 Please rush  
 postpaid 1 pair of SAFTYLOK handles.

NAME ..... Car .....  
 ADDRESS .....  
 CITY ..... STATE ..... Year .....

See also pages 82 and 86

## POSTAL RATES.—FOREIGN

**Letters.**—For the places in the following list the postal rate is 3 cents each ounce or fraction. For all other foreign destinations, 5 cents first ounce and 3 cents each additional ounce or fraction: Argentina, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, Guatemala, Haiti, Honduras (Republic), Labrador, Mexico, Newfoundland, Nicaragua, Panama, Paraguay, Peru, Philippines, Salvador, El; Spain and possessions; Uruguay, Venezuela.

**Post Cards.**—Single post cards for places enumerated above 2 cents. Single post cards for all other foreign destinations 3 cents. Maximum size  $6 \times 4\frac{1}{4}$  inches, minimum size  $4 \times 2\frac{3}{4}$  inches.

**Printed Matter.**— $1\frac{1}{2}$  cents for each two ounces or fraction. Limit of weight: Inquire at Post Office.

**Maximum dimensions.**—Inquire at local Postoffice.

### INTERNATIONAL PARCEL POST.

Because of the varying rates and conditions, as well as frequent changes, applicable to foreign countries, it is important that a qualified postal employee handle parcel post transactions. Therefore, parcel post packages for foreign destinations must not be posted in a letter box; such packages should be taken to the main post office or to one of the larger classified stations and handed to a postal clerk.

## AIR MAIL: DOMESTIC AND FOREIGN

(All rates per one half ounce unless otherwise indicated. For Armed Forces—see preceding page.)

5¢ per oz.—in U.S.A.

**A.** 5 cents: (Per ounce) Canada, Mexico; Armed Forces or Civilian personnel with Army or Navy Postoffice addresses Continental United States, Alaska, Canal Zone, Canton Islands, Guam, Hawaii, Porto Rico, and U. S. Virgin Islands.

**B.** 8 cents: Cuba.

**C.** 10 cents: Central and South America, West Indies, British and French Guiana, British Honduras, Surinam, Bermuda and Newfoundland.

**D.** 15 cents: Great Britain, Europe and other Islands in waters around it, U.S.S.R., Vatican City, Algeria, Egypt, Iceland, Libya, Morocco, Tunis, Turkey.

**E.** 25 cents: All other localities.

Weight limit is 4 lbs., 6 oz. except: Canada, Newfoundland and Labrador, 60 lbs.

### THE NEW POSTAL RATES

Pending official release of the new Postal Rates Bill which takes effect December 31, 1948, the new rates will be tentatively without change from the preceding paragraphs except: Bulk, 3rd Class pound rate—up 2¢ per lb.; Airmail, up 1¢; new airmail postal cards, 4¢ each; regular 3rd class where P.O. sorts, up  $\frac{1}{2}$ ¢ for each 2 oz.; booklets, small catalogs, flyers, in bulk, up 2¢ per lb.; books, up 4¢ on 1st lb. and 1¢ each added lb.; large catalogs, parcel post, special delivery, money orders, postal notes, c.o.d.'s all considerably increased; 3rd class bulk mail users will pay an annual \$10. fee.

Consult Your Postmaster for Verification



Do you suffer distress from

'periodic'

**FEMALE**

**WEAKNESS**

**With Its Nervous,  
Highstrung Feelings?**

Are you troubled by distress of female functional monthly disturbances? Does it make you feel so nervous, cranky, restless, weak, a bit moody—at such times? Then do try Lydia E. Pinkham's Vegetable Compound to relieve such symptoms! Women by the thousands have reported remarkable benefits.

Pinkham's Compound is what Doctors call a uterine sedative. It has a grand soothing effect on one of woman's most important organs. Taken regularly—Pinkham's Compound helps build up resistance against such distress. It's ALSO a great stomachic tonic! All drugstores.



**Change of Life**

If the functional 'middle-age' period peculiar to women makes you suffer from hot flashes, weak, highstrung, irritable feelings—try Pinkham's Compound to relieve such symptoms. It's famous for this purpose.

**Monthly Female Pains**

Pinkham's Compound is *very effective* to relieve monthly cramps, headache, backache, —when due to female functional monthly disturbances.



*Lydia E. Pinkham's*  
**VEGETABLE COMPOUND**



## CLASSIFIED ADVERTISEMENTS

### BOOKS

**"BIBLE STUDIES"**, 70 Lessons on What the Bible teaches, only 25c Complete. People's Christian Bulletin, Box 87F, Cathedral Station, New York 25, N. Y.

**KNOW THE TRUTH!** Bible Correspondence Course. Free. Your questions answered. Voice of Prophecy, Inc. Box 55, Los Angeles 53, California.

**BOOKS — PRINTS — Autographs — Broadsides — Music — etc.** Bought and Sold. Edward Morrill and Son, 1252 Mass. Ave., Harvard Square, Cambridge, Parking Facilities, 8 minutes from Boston by subway.

**BOOKS WANTED** about Indians, outlaws, Civil War, birds, guns. State Histories, county histories, Texas Almanacs before 1880, atlases before 1850. Bound volumes of newspapers before 1870. Alabama Bookfinders. Birmingham, Alabama.

**U. S. RARE COIN Value Guide**, 50c. Always a handy reference. Scott Stamp & Coin Service, 25 Tremont St., Boston, Mass. Coins bought, sold.

**THE STORY OF CONNECTICUT** — 500 pages, wealth of early and modern illustration, authentic, beautifully bound in blue and gold. Postpaid two dollars. Lewis S. Mills, 56 Broad St., East Hartford 8, Conn.

**LIPREADING** for the Hard-of-Hearing. Bruhn Method approved by educators. Latest edition \$3.00 — M. H. Leavis, Publisher, 386 Commonwealth Ave., Boston 15, Massachusetts.

**PUZZLES.** Intricately made wooden puzzles. Fun for young and old. 40 varieties — 25c for sample. 5 for \$1.00 — 12 for \$2.00. House of Kraft, 75 Bridge St., Salem, Mass.

**IF YOU WRITE** words for songs but cannot write music we can help you. Details free. Write today. Five Star Music Masters, 405 Beacon Building, Boston, Mass.

### BUSINESS OPPORTUNITIES

**LOOK HERE!** Wanted — Men to start in business on our capital. Sell some 200 farm-home products. Thousands our dealers now make quick sales, big profits. For particulars write Rawleigh's, Dept. 1949 — 192 — OFA, Freeport, Ill.

**1949 EXCELLENT POULTRY** profit year! Demand greater, prices higher. Our Editors help you make more money. Mail \$1.00 two-year trial subscription today! Poultry Tribune, Dept. 19, Mount Morris, Illinois.

**RAISE FRYERS** new easy way. One man home plant earns \$500 monthly. Details Free. Fortune Fryer Farms, Box 150, Simi, California.

**FAIR DINKUM** New inexpensive way to build up your stamp, coin collection. Details free. Scott Stamp & Coin Service, 25 Tremont St., Boston, Mass.

### COLLECTORS

**ANTIQUES** bought and sold: old glass, china, bric-a-brac, will call anywhere in New England. Henry C. Barbour, Route 119, West Rindge, N. H. Phone Rindge 38.

**WILL SELL** 20 common or 7 fine Arrowheads for \$1. Will buy gold coins for my collection. L. Crandall, Box 687, Idaho Falls, Idaho.

**FIREARMS WANTED:** Antique and Modern. Also cap and ball revolvers for prompt cash. Send full description and price wanted. Kimball Arms Company, Woburn, Mass.

**BROKEN JEWELRY** wanted, all kinds. Highest price paid for jewelry, rings, spectacles, gold teeth, broken and usable watches, etc. Write for free shipping container, cash mailed promptly. W. H. Evans, 937 Tamalpais, San Rafael, California.

**WANTED:** Old letters written before postage stamps were used; also envelopes and letters bearing stamps mailed before 1870. Ernest S. Park, Wolfeboro, New Hampshire.

**RECORD COLLECTORS:** Hear "Old Music Box Melodies," modern records of rare old music boxes, first time recorded. 4 albums available. Send for list and price. Bornand Music Box Record Co. 333 Fifth Ave., Pelham, 65, N. Y.

**STAMPS & COINS** wanted. Enclose return postage with your inquiry. Valuable Coin Guide 75c. Coin & Stamp Store, Rockford, 50, Ill.

**WANTED ANTIQUE** Firearms. U.S. Flintlocks. Colt and other cap and ball revolvers. Buy, sell, trade. Arthur Fortin, 22 Linden Avenue, North Andover, Mass.

### FOOD

**OLD-FASHIONED** Mulled Cider; Hand-fashioned New England Stoneware, early American designs; Unusual Gift Packages. Wholesale, retail. Frances Hall Perrins, Old Homestead Orchards, Westford, Mass.

**HOORAY!** Real Old-Fashioned Molasses Peppermint Drops and Horebound Squares. Get some from The Yankee Pedlar, New London, Conn. \$.75 lb. postpaid.

**DAVID F. LOONEY,** Postoffice Drawer 138, Somerville 43, Mass. Importer and Exporter, Manufacturer's Agent, Confectionery Broker, Fine English Teas.

**HOREBOUND CANDY.** Genuine, pleasing, 1/4 lb. 50c; 1/2 lb. 90c; 1 lb. \$1.25, postpaid in U. S. Hardy Herbs, Lexington, Mass.

## MISCELLANEOUS

**HERE'S VALUE!** Sharp, Surgical Steel, Double-edge Razor Blades. 100 only \$1.00 postpaid. Free sample. Daving Products, 96A Homestead Place, New Rochelle, New York.

**WANTED** by all dogs everywhere a home with children. You feed and care for us. We play with you and guard you.

**THERE'S WEATHER** News in the wind! Learn how to forecast the weather with the handy Weather Forecaster's Guide. Send a dime to the Cape Wind-Indicator, Harwichport 75, Cape Cod, Mass.

**DAISY CATTLE MARKERS**, complete with chain, brass tag, for Horns and Neck. Write for folder. Golden Arrow Farms, Dept. Y, Huntington, Indiana.

**MONUMENTS.** Service to all America. Old reliable company. 30,000 satisfied customers. Big 68 page catalog free. United States Marble & Granite Co., Oneco, Dept A 70, Florida.

**MUSIC BOXES**, fine old instruments expertly repaired. All types bought and sold. Third generation in this business. A Bornand, 333 Fifth Ave., Pelham, 65, N. Y.

**PETERBOROUGH PLAYERS** — Professional Summer Theatre, Stearns Farm, Peterborough, New Hampshire. July-August. Managing Director, Edith Bond Stearns. Founded 1933. All inquiries answered.

**FOR SAFER DRIVING** — Join Speedometer Signal Dot Safety Mileage League. For One Dollar, paid once, you get member's attractive, stream-lined Dash-Pledge Program, Signal Dots and Safe Driving Prescription for your Speedometer's face. Dr. George M. Stacy, Originator, 429 1st Nat. Bank Bldg., Peoria 2, Ill

**ORANGE COUNTY** Country Properties, within 60 miles of New York City, from \$3000. up. Send for list. Paul Boughton, Farm Broker, Warwick, New York.

## HOUSEHOLD &amp; PERSONAL

**LIGHTNING ROD SYSTEMS.** Protect now with Electra's Approved Lightning Protection. Electra Protection Co., Inc. Dept. FA, 11 No. Pearl St., Albany, 7, N. Y.

**PURE WOOL Mittens.** Men's hand knit mittens made from New England sheep's wool. \$2.50 pair. Dennings Woolen Products, East Randolph, Vermont.

**THE DURWARD MADDOCKS** Studio, 136 Wayland Ave., Cranston, 9, R. I., will make oil paintings to order from photographs; they specialize in Family Homestead Oil Paintings.

**REFINISHED NIGHT** tables Pine \$17.00 crated. Refinished Pine Chests, \$27.00 crated. Dry Sinks, \$15.00 crated. Blanket chests, Empire, Victorian, Furniture, Glass, China, lamps. \$25.00 Special lots of Glass or China. Toms Antiques, 37 Dunstable Road, North Chelmsford, Mass.

**HOOKEED RUGS** have charm! Visit "Rose Cottage," home of beautiful designs and supplies. Monday through Friday, 2-5 P.M. Free Literature. Pearl K. McGown, West Boylston, Mass.

**FOR BIG MEN ONLY** — Quality shoes sizes 10 to 16. Widths AA-EEE. Dress, work shoes, loafers, wing tips, moccasins, hitops, sox. Guaranteed. Write for Free Catalog. Kingsize, 616 Brockton, Mass.

**GIFT-A-MONTH** — for anniversary, birthday or hostess presents. \$10. for 12 months or \$6. for six. Add one dollar outside New England, Describe recipient's hobbies, preferences, etc. Pee Wee Gift Shop, 126 Chestnut St., New Bedford, Mass.

**FREE CATALOG:** Useful gifts, essentials, toys, to make or purchase. Craftsman's Books. Novelkraft, 3115 N. Sixteenth St., Philadelphia 32, Pa.

**MEXICAN PRODUCTS** Co., 126 N. Main, Tulsa 3, Okla. Imported Novelties, Drawn Work, Feather bird pictures, Sombreros, Jumping Beans, etc. Bulletin free.

**OREGON** wood samples on cardboard, 25c; or miniature shingles, 35c bundle, postpaid. Myrtlewood novelties for gift shops. T. Binford, Oceanlake, Oregon.

**GREETING CARDS** — Christmas, with and without scripture verse; also Easter and Everydays to retail for 5c and 10c. Write for samples. M. A. HAVEN COMPANY, 551 Boylston Street, Boston, Mass.

## ... THE WORLD'S FINEST LOW-PRICED RINGS ...



**MEN! \$4.95**  
Massive, Gold Filled,  
with three big flashing  
Imitation Diamonds!

**"SWEETHEART"  
Perfect Bridal Set**  
\$2.95 for both  
\$1.89 each



**SEND NO MONEY!**  
Send Ring Size or String. Pay Postman  
on Arrival plus 20% Federal Tax and Postage  
Guaranteed to Satisfy or Money Back!

**CHARM JEWELRY CO.,** Dept. 52, 294 Washington Street, Boston, Mass.

## GLOSSARY OF ASTRONOMICAL TERMS, ETC.

- abol. . . . abolished
- Aet. . . . age
- An. Ecl. . . . see Eclipse, Annular.
- Aph. — **Aphellon** . . . Planet revolving about Sun reaches point in its orbit farthest away from the Sun.
- Apo. — **Apogee** . . . Moon reaches point in its orbit farthest from Earth.
- Appulse . . . if during eclipse Moon passes only through the penumbra.
- b. — born.
- Aspect** . . . description of the relative position of two or more bodies in the solar system. These are described by signs, etc., on the calendar pages thus  $\odot \delta \gamma$ , etc. By consulting the meaning of the signs and aspects on page 4, you will arrive at the meaning for the "sign language" used on pages 15-37, viz., Conjunction ( $\odot$ ) of Mars ( $\delta$ ) and the Jupiter ( $\gamma$ ) occurs on this day. (See par. 2, page 4.)
- Conj. — conjunction** . . . moment of closest approach to each other of any two heavenly bodies.
- conscr. . . . consecrated.
- d. . . . died.
- declination** (see top left hand calendar pages) . . . measure of angular distance any celestial object lies perpendicularly north or south of celestial equator. Exactly analogous to terrestrial latitude. OFA gives declination at time each day the Sun is due South.
- Dominical Letter** . . . used in reckoning civil calendars.
- Eclipse** . . . conjunction or opposition of sun and moon occurs with moon at or near a node.
- Eclipse, annular** . . . when sunlight shows around the Moon during the eclipse.
- Eclipse, lunar** . . . opposition of Sun and Moon with moon at or near node.
- Eclipse, solar** . . . conjunction of Sun and Moon with Moon at or near node.
- Ecliptic** . . . that circle in which the plane of the orbit of the Earth about the Sun would if extended cut the celestial sphere — or the apparent path of the Sun in the sky in a year due to the Earth's revolution about the Sun each year.
- El. — elongation** . . . apparent angular distance of a member of the solar system from the Sun as seen from the Earth.
- Epact** . . . used in reckoning ecclesiastical calendars, age of calendar moon Jan 1.
- Eq. . . . equator.**
- Equinox, autumnal** . . . Sun passes from northern to southern hemisphere. Fall.
- Equinox, vernal** . . . sun passes from southern to northern hemisphere. Spring.
- E.S.T.** . . . Eastern Standard Time.
- Fasts and Fasts** . . . In the religious calendars, many "observable" days change each year with the date Easter falls on. The OFA endeavors to list the important Protestant, Catholic, and Jewish observances.
- fd. . . . founded.**
- Full Sea (Morn and Eve)** . . . the time the tide is high in the morning and in the evening at Commonwealth Pier, Boston. A correction table in the OFA also adjusts this time for other places. (See page 7.)
- Gr. El. . . . greatest elongation.**
- Geocentric** . . . measure of celestial longitude and latitude when observer is at center of the Earth.
- Golden Number** . . . used in reckoning civil calendars.
- Helio-centric** . . . measure of celestial longitude and latitude when observer is at center of the Sun.
- Inf. — Inferior** . . . Inferior conjunction is when the Planet is between the Sun and the Earth.
- Julian Period** . . . First year was 4713 B.C. Its length is 7980 years.
- k. . . . killed.**
- Key** . . . columns of letters marked thus refer to correction table on page 12 so that the times given may be adjusted to localities other than Boston.
- Lat. — latitude.**
- Moon's Age** . . . average time elapsing between new moons (max.  $29\frac{1}{2}$  days). Calculated when Moon is due South.
- (D) First Quarter . . . moon in quadrature East or one half of the side of the moon toward the earth is illuminated.
- (O) Full Moon . . . moon reaches opposition.
- (Q) Last Quarter . . . moon in quadrature West.
- (●) New Moon . . . Sun and Moon in conjunction.
- Moon's Phases** . . . Aspects of Moon and Sun.
- Moon's Place** . . . Moon's position in the Zodiac when due South or which "sign" it is in. See page 4 — par. 3.
- Moon Rise and Set** . . . as used in the OFA apply only to risings and settings between sunset and sunrise . . . or during the night.
- Moon Runs High or Low** . . . day of month Moon Souths highest or lowest above the horizon.
- Moon Souths** . . . Moon exactly above South point of observer's horizon.
- Node** . . . when a Planet or Moon in its motion crosses the ecliptic.



- Node, Ascending** . . . Planet or Moon crosses ecliptic from South to North.  
**Node, Descending** . . . Planet or Moon crosses ecliptic from North to South.  
**Occultations** . . . eclipses of Stars by the Moon.  
**Opposition** . . . time when Sun, and Moon or Planet appear on opposite sides of the sky (elongation 180 degrees).  
**O.S. — Old Style** . . . was when calendar was eleven days "out of whack." In September, 1752, the 3rd was reckoned as the 14th, to make present calendar.  
**Penumbra** . . . concentric area of partial shadow around the umbra.  
**Peri. — Perigee** . . . Moon reaches point in its orbit closest to Earth.  
**Peri. — Perihelion** . . . Planet revolving about the Sun reaches point in its orbit closest to Sun.  
**Quadrature** . . . Moon or Planet lies a quarter turn of the sky from the Sun.  
**R.A. — Right Ascension** . . . the measure Eastward along the celestial equator of any celestial body from the vernal equinox to the point where the circle which passes through the object perpendicular to the celestial equator intersects the latter.  
**Rain** . . . drops large enough to splatter on the old man's bald head.  
**Rej. — rejects.**  
**Roman Indiction** . . . used in reckoning ecclesiastical calendars.  
**Seasons** . . . boundary points are the two solstices and two equinoxes.  
**Snow** . . . when a cat's tracks are visible on the barn roof.  
**Solar Cycle** . . . used in reckoning civil calendars.  
**Solstice, Summer** . . . point at which the Sun is farthest north of the celestial equator, passing overhead on the Tropic of Cancer. Beginning of Summer.  
**Solstice, Winter** . . . limit of Sun's journey south of the celestial equator, passing overhead on the Tropic of Capricorn. Beginning of Winter.  
**Star, Evening** . . . above horizon at Sunset.  
**Star, Morning** . . . above horizon at Sunrise.  
**Stat. — stationary** . . . when the apparent movement of a Planet against the background of Stars stops — just before same comes to opposition.  
**Sunrise and Sunset** . . . visible rising and setting of Sun's upper limb across the unobstructed horizon of an observer whose eyes are 15 feet above ground level.  
**Sun Fast** . . . the times given in this column must be subtracted from your Sun Dial to arrive at the correct time.  
**Sup. — Superior** . . . Superior Conjunction is when the Sun is between the Planet and the Earth.  
**Tides, heights of** . . . at Commonwealth Pier, Boston. See correction table on page 7 for adjustments for other places.  
**Twilight** . . . begins or ends when stars of the sixth magnitude disappear or appear at the Zenith — or the Sun is appr. 18 degrees below the horizon.  
**Umra** . . . deep shadow through which the Moon passes during eclipse.  
**Underground Moon** . . . one which changes its phases between 12 M. and 1 A.M.  
**Weather Indications** . . . in italics on the right hand calendar pages indicate the weather over, as a rule, three or four days time as shown by the spread of the words down the page.  
**w. . . with.**  
**Zenith** . . . point in heavens directly over observer's head.  
**Zodiac** . . . sixteen degree sky road outside of which moon and planets never wander. It is divided into twelve equal divisions called the Signs of the Zodiac, and forms much of the basis of some astrology — and superstition. See page 4 — par. 3.

### LENGTH OF TWILIGHT

Subtract from time of sunrise for dawn.

Add to time of sunset for dark.

Latitude	25°N	31°N	37°N	43°N	48°N
	to 30°N	to 36°N	to 42°N	to 47°N	to 49°N
	h m	h m	h m	h m	h m
Jan. 1 to Apr. 11	1 20	1 26	1 33	1 42	1 50
Apr. 11 to May 3	1 23	1 28	1 39	1 51	2 04
May 3 to May 15	1 26	1 34	1 47	2 02	2 22
May 15 to May 26	1 29	1 38	1 52	2 13	2 42
May 26 to July 23	1 32	1 43	1 59	2 27	—
July 23 to Aug. 4	1 29	1 38	1 52	2 13	2 42
Aug. 4 to Aug. 15	1 26	1 34	1 47	2 02	2 22
Aug. 15 to Sept. 6	1 23	1 28	1 39	1 51	2 04
Sept. 6 to Dec. 31	1 20	1 26	1 33	1 42	1 50

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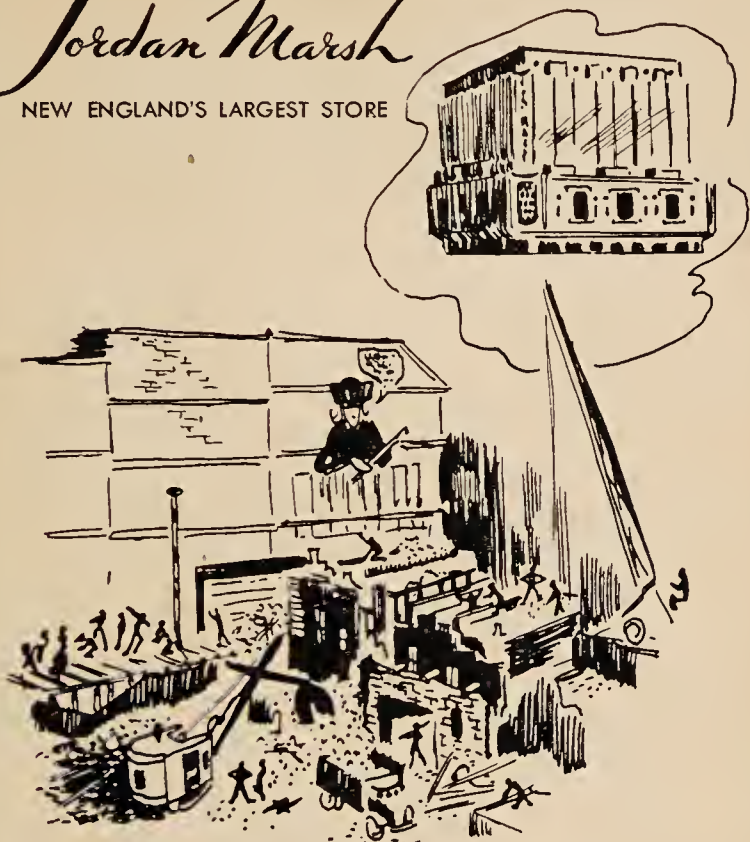
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Ironmaster's Shop	:	Two Toy Shops	:	:
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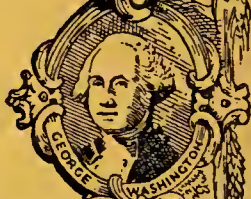
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