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1946

The 154th Continuous Year of Publication

GOD
SPEED
YOU HOME
SOLDIER

SPRING.

SUMMER.

THE
OLD
FARMER'S
1946
ALMANAC
BY
ROBERT B. THOMAS



AUTUMN.

WINTER.

Nichols & Co.

Price 15 Cents

Weather Forecast



“Free and Clear”

TO stand in a doorway, to look across fertile fields in the twilight of day or in the twilight of life and say, “These fields and this little home are mine. When I close the door none can intrude to disturb my peace of mind.” These are the desires of Americans.

In war and in peace, down the long years, these desires have helped to fashion our American life and conduct. They have made us strong in the face of aggression. They have made us considerate of others. They have kept us conscious of our obligations to our own.

In a broad sense these desires are the basis of life insurance. Through life insurance, we can

ensure that when the twilight of life approaches, our precious possessions will be free and clear for our enjoyment, and for the enjoyment of our families. And that at any time we can close the door, certain that our peace of mind will be undisturbed.

If you lack this sort of guarantee, any John Hancock agent will be glad to show you how life insurance can help you to attain it.

<i>John Hancock</i> MUTUAL	
LIFE INSURANCE COMPANY	
OF BOSTON, MASSACHUSETTS	
GUY W. COX	PAUL F. CLARK
Chairman of the Board	President

Number One Hundred and Fifty-Four

THE
(OLD)
FARMER'S ALMANACK.

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

1946

Being 2nd after BISSEXTILE or LEAP YEAR, and (until July 4)
170th 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.



THE LORD'S PRAYER
As printed by Caxton in 1483.

Father our that art in heaven, hallowed be thy name: thy kyndome come to us; thy will be done in earth as it is in heaven; oure every days bred give us to day; and forgite us oure trespases, as we forgite them that trespasse agatnst us; and lead us not into temptation, but delivver us from all evil stn, amen.

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BROOKLINE, MASS.

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DUBLIN, N. H.

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THE AMERICAN NEWS CO.
AND BRANCHES

TO PATRONS AND CORRESPONDENTS

The date, August 14, 1945, and hour, 7 P.M., when President Truman announced the acceptance by the Japanese of the Potsdam peace terms, will go down in history, we trust, as the greatest peace date the world will ever know and will dedicate all of our future generations to the keeping of this peace as the one task which comes first, and above, all others.

That this should be 251,717 Americans have given their lives — a million others have lost parts of their bodies — many millions of still others have sacrificed of their blood, nerves, energy, time, and wealth. The public debt has reached, in this cause, so large a total, that it ceases to be a matter of concern — and inflation is upon us.

A few days before the peace, on August sixth, the new atomic era announced itself as with us, too, by an explosion over Hiroshima, Japan, which killed 150,000 and destroyed an entire city. At a cost of two billion dollars (two days of war) America had succeeded in harnessing the atomic energy released by the isolation of U 235 protons in uranium. Such an era, with its promises of heating all of New York city by means of a fistful of "unmarried" atoms, of the acquisition of the secrets of plant growth, of world control in the hands of a small group of scientists, can only mean that God has at long last placed upon us the final test. We shall love God with *all* our hearts, and our neighbors as ourselves. Unless these two great commandments appear over every doorstep in the world and are lived up to without reservation, the atomic era will mark not only the end of progress but of mortal man.

In almost weird contrast with these gigantic happenings, we present this issue, our One Hundred and Fifty Fourth annual edition in the same format and at the same price. Your many years of patronage — and especially those during the war years — is gratifying and inspiring. It is difficult to realize that this issue is the fourth which has come out of the all too few hours of evenings and Sundays — our Staff having been preoccupied this past year as usual in the Armed Forces or war service. Our thanks can not go out too often to the many newspaper, magazine, radio editors, and press services, who have helped us, — to our typesetter, printer, paper maker, news stand dealer, — to our advertisers — and to the many others who, by their actions, have shown an interest equal to the emergencies at hand.

David Mortou of Amherst, Massachusetts, has again contributed the Title Page Poems, and to Eltinge F. Warner we are indebted for the Game Laws. B. M. Rice of Peterborough, New Hampshire, prepared the Farmer's Calendars while Loring B. Andrews and Lt. Com. Robert Foote, USNR, added other valuable material. The cooperation of various government agencies—United States Weather Bureau, Department of Agriculture, United States Postoffice, Office of War Information, — to mention only a few, has been of great value.

Mr. Weatherwise, in submitting his Weather Indications for the year to come, forecasts heavy precipitation. Compared with other winters, he sees more storms of rain and snow.

We cannot close this foreword without adding our prayers of thanks to the men and women of our Armed Forces. As they return and take their places again among us, they will come to know our acknowledgement of this debt we owe to each and every one. It will be difficult at first for them—as well as for ourselves—for some have been away for many years. Possibly in the many embarrassing silences which follow they will wonder what we are thinking, speculate on whether or not we really want them back, decide perhaps we have made new friends in their absences and that our offers of help are possibly in some manner ingratiating. We will find them sensitive—even supersensitive about the careers awaiting them and unmeant criticism in little things. It is not for these thoughts, however, that we hold any room. They must know by our handclasp, our smile, our eyes, and our actions that we are aware of our own deep resolves to provide better times for them and their families. We shall not let them down.

These then are our proposals. Man, however, in these great things, can only propose. God is the true disposer. In this, then, it is by our works and not by our words we would be judged; these we hope will sustain us in the humble though proud station we have so long held.

Your ob'd servant,

W. O. Thomas.

August 16, 1945

1946

JANUARY.							FEBRUARY.							MARCH.							APRIL.						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
-	-	1	2	3	4	5	-	-	-	-	-	1	2	-	-	-	-	-	1	2	-	1	2	3	4	5	6
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9	7	8	9	10	11	12	13
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	31	-	-	24	25	26	27	28	-	-	24	25	26	27	28	29	30	28	29	30	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-	-	-	-	-	-	-	-	-
MAY.							JUNE.							JULY.							AUGUST.						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
-	-	-	1	2	3	4	-	-	-	-	-	1	-	1	2	3	4	5	6	-	-	-	-	1	2	3	
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24
26	27	28	29	30	31	-	23	24	25	26	27	28	29	28	29	30	31	-	-	-	25	26	27	28	29	30	31
-	-	-	-	-	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
1	2	3	4	5	6	7	-	-	1	2	3	4	5	-	-	-	-	-	1	2	1	2	3	4	5	6	7
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
29	30	-	-	-	-	-	27	28	29	30	31	-	-	24	25	26	27	28	29	30	29	30	31	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Consider then the temper of our times. Upon taking up ticket stubs, a conductor came upon a surly gent who had none, and accordingly asked him for his fare. The surly one thereupon growled: "Don't you call me a _____." The conductor replied politely he had not called anybody anything and moved ahead. After he had gone, the surly one turned to another passenger saying: "Humph—he didn't really call me a _____ but he was thinking it just the same."

1947

JANUARY.							FEBRUARY.							MARCH.							APRIL.						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
-	-	-	1	2	3	4	-	-	4	5	6	7	8	-	-	-	-	-	1	-	-	1	2	3	4	5	
5	6	7	8	9	10	11	2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12
12	13	14	15	16	17	18	9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19
19	20	21	22	23	24	25	16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26
26	27	28	29	30	31	-	23	24	25	26	27	28	-	23	24	25	26	27	28	29	27	28	29	30	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	31	-	-	-	-	-	-	-	-	-	-	-	-
MAY.							JUNE.							JULY.							AUGUST.						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
-	-	-	1	2	3	4	1	2	3	4	5	6	7	-	-	1	2	3	4	5	-	-	-	-	1	2	3
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23
25	26	27	28	29	30	31	29	30	-	-	-	-	-	27	28	29	30	31	-	-	24	25	26	27	28	29	30
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-	-
SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
-	1	2	3	4	5	6	-	-	-	1	2	3	4	-	-	-	-	-	1	-	1	2	3	4	5	6	
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27
28	29	30	-	-	-	-	26	27	28	29	30	31	-	23	24	25	26	27	28	29	28	29	30	31	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-

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 the two following 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.	♅ 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 1946.

Golden Number 9	Solar Cycle 23	Roman Indiction 14
Epact 27	Dominical Letter F	Year of Julian Period 6659

Movable Feasts and Fasts for 1946.

Septuagesima Sun. Feb. 17	Good Friday Apr. 19	Whitsunday June 9
Shrove Sunday Mar. 3	Easter Sunday Apr. 21	Trinity Sunday June 16
Ash Wednesday Mar. 6	Low Sunday Apr. 28	Corpus Christi June 20
1st Sun. in Lent Mar. 10	Rogation Sunday May 26	1st Sunday in Advent Dec. 1
Palm Sunday Apr. 14	Ascension Day May 30	

THE SEASONS, 1946

Eastern Standard Time

Winter Solstice (Winter, 1945), December 22, 12:04 A.M.—Sun enters Capricornus, ♑
Vernal Equinox (Spring, 1946), March 21, 12:33 A.M.— “ “ Aries, ♈
Summer Solstice (Summer), June 21, 7:45 P.M.— “ “ Cancer, ♋
Autumnal Equinox (Autumn), September 23, 10:41 A.M.— “ “ Libra, ♎
Winter Solstice (Winter), December 22, 5:54 A.M.— “ “ Capricornus, ♑

MORNING AND EVENING STARS, 1946

(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° west of the Sun in right ascension and Evening Star when it is less than 180° 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 March 9, July 5, and October 30. On these dates it will set 12h. 32m., 12h. 20m., and 11h 51m., respectively, after sunset. It will be seen as a Morning Star when near its greatest western elongations, about April 22, August 20, and December 9, on which dates it will rise 11h. 47m., 12h. 26m., and 12h. 48m., respectively before sunrise.

Venus will be a Morning Star until February 1, an Evening Star from February 1 to November 17, and then a Morning Star again for the remainder of the year. It will be at its brightest on October 13 and December 23.

Mars will be a Morning Star until January 13, when it reaches opposition and its greatest brilliance. It will then be an Evening Star from January 13 to the year's end.

Jupiter will be a Morning Star until April 12 when it reaches opposition, an Evening Star from April 12 until it reaches conjunction on October 31, and then a Morning Star again for the remainder of the year.

Saturn starts the year as a Morning Star, but becomes an Evening Star on January 12, the day it reaches opposition. From January 12 to July 21 it is an Evening Star, then a Morning Star again from July 21, when it reaches conjunction, to the end of the year.

EARTH IN PERHELION AND APHELION, 1946

The Earth will be in Perihelion on January 2, 1 P.M., distant from the Sun 91,349,000 miles. The Earth will be in Aphelion on July 3, 6 A.M., distant from the Sun 94,452,000 miles.

GLOSSARY OF ASTRONOMICAL TERMS, ETC.

- abol. . . . abolished
- Aet. . . . age
- An. Ecl. . . . see Eclipse, Annular.
- Aph. — **Aphelion** . . . 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.
- G . . . Dominical letter for 1945 — marks all of the 52 Sundays.
- 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 $\odot \sigma \Upsilon$, etc. By consulting the meaning of the signs and aspects on the opposite page, you will arrive at the meaning for the "sign language" used as the example; viz., Conjunction (\odot) of Mars (σ) and the Jupiter (Υ) 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.
- 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.
- Feasts 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.
- Heliocentric** . . . 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.
- (N) **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.
 Umbra . . . deep shadow through which the Moon passes during eclipse.
 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.

CALCULATIONS AND CORRECTIONS

(For Outside New England, see Page 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>
	min.		min.		min.
Eastport, Me.	16	Concord, N.H.	2	Springfield, Mass.	6
Bangor, Me.	9	Nashua, N.H.	2	Williamstown, Mass.	9
Augusta, Me.	5	Plymouth, N.H.	3	Newport, R.I.	1
Lewiston, Me.	4	Keens, N.H.	5	Providence, R.I.	1
Portland, Me.	3	Montpelier, Vt.	6	Woonsocket, R.I.	2
Blddsford, Me.	2	Brattleboro, Vt.	6	New London, Conn.	4
Portsmouth, N.H.	1	Rutland, Vt.	9	Willimantic, Conn.	5
Provincetown, Mass.	4	Burlington, Vt.	9	Hartford, Conn.	6
Gloucester, Mass.	2	Lowell, Mass.	1	New Haven, Conn.	7
Plymouth, Mass.	2	Worcester, Mass.	3	Bridgeport, Conn.	9

TIDE CORRECTIONS

(For full explanation see page 11, par. 2)

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 Piers). Where a value in the "height difference" column is preceded by a *, the height at Boston should be multiplied by this ratio.

	Time Differ- ence h.m.	Height Differ- ence Feet		Time Differ- ence h.m.	Height Differ- ence Feet
MAINE			PENNSYLVANIA		
Augusta	+3 50	*0.4	Philadelphia	+2 29	*0.5
Bangor	-0 05	+3.6	DELAWARE		
Bar Harbor	-0 33	+1.1	Rehoboth	-3 37	*0.4
Boothbay Harbor . . .	-0 20	-0.8	MARYLAND		
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	DISTRICT OF COLUMBIA		
Stonington	-0 30	+0.2	Washington	-3 08	*0.3
NEW HAMPSHIRE			VIRGINIA		
Hampton	+0 15	-1.2	Norfolk	-1 54	*0.3
MASSACHUSETTS			Virginia Beach	-3 14	*0.3
Fall River	-3 16	*0.5	NORTH CAROLINA		
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	SOUTH CAROLINA		
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	GEORGIA		
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	FLORIDA		
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
RHODE ISLAND			St. Augustine	-2 20	*0.5
Block Island	-3 21	*0.3	St. Petersburg	+3 58	*0.2
Narragansett Pier . . .	-3 31	*0.4	WASHINGTON		
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
CONNECTICUT			OREGON		
Long Island Sound . . .	-0 02	*0.7	Astoria	+1 37	-3.3
New London	-1 47	*0.3	Cape Arago	+1 19	-4.8
NEW YORK			Yaquina Head	+1 12	-3.7
Coney Island	-3 00	*0.5	CALIFORNIA		
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
NEW JERSEY			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					

HATS OFF TO "IKE"

When Sir Nelson King Kohson, director of meteorology of the British Air Ministry, gave General Eisenhower a none too favorable weather forecast for June 6, 1944—Invasion Day—the General decided to go ahead anyway. Had he waited for the next "quiet period," two weeks ahead, we would have invaded on the eve of a 70 mile gale . . . with, possibly, fatal results.

ECLIPSES FOR THE YEAR 1946

In the year 1946 there will be six eclipses, four of the Sun and two of the Moon.

I. *A Partial Eclipse of the Sun*, January 3, 1946, invisible in the United States. This eclipse will be visible on within an ocean area in far southern latitudes. The eclipse will be greatest at Longitude $177^{\circ} 39'$ East, Latitude $67^{\circ} 9'$ South, at which point 55 percent of the Sun's diameter will be hidden by the Moon.

II. *A Partial Eclipse of the Sun*, May 30, 1946, invisible in the United States. The area within which the eclipse will be visible lies in the south Pacific Ocean between New Zealand on the west and Chile and the western half of Argentina on the east. Such islands as Pitcairn, Dudge and Easter are within the area, near its northern boundary. The southern boundary of the area lies along the Antarctic Circle. Maximum eclipse occurs in Longitude $101^{\circ} 6'$ West, Latitude $64^{\circ} 7'$ South, where 89 percent of the sun's diameter will be obscured.

III. *A Total Eclipse of the Moon*, June 14, 1946, invisible in the United States. The beginning of this eclipse will be visible generally in Antarctica, New Zealand, Australia, the central and western part of the Pacific Ocean, Asia except the extreme northern and northeastern part, the Indian Ocean, southeastern Europe, and southern and eastern Africa. The eclipse's ending will be visible generally in Antarctica, Australia, Asia except the northeastern part, the Indian Ocean, Europe, Africa, the south Atlantic Ocean and the extreme eastern part of South America.

IV. *A Partial Eclipse of the Sun*, June 29, 1946. This relatively minor eclipse, invisible in the United States, will be visible only from high northern latitudes. Greatest eclipse occurs in Longitude $50^{\circ} 49'$ West, Latitude $66^{\circ} 36'$ North, at which point 18 percent of the Sun's diameter will be covered at the maximum phase.

V. *A Partial Eclipse of the Sun*, November 23, 1946. This eclipse will be visible throughout the United States except the extreme Southwest and most of Florida. The eclipse begins in the Pacific Northwest just after sunrise and ends at sunset in the mid-Atlantic. Particulars of the eclipse for selected places in the United States are given in the table below. Those for intermediate points can be approximated from the particulars for the nearest point listed.

Place	Eclipse begins	Maximum eclipse	Eclipse ends	Fraction solar diameter covered
Atlanta, Ga.	10.51 A.M.	12.13 P.M.	1.38 P.M.	.36
Boston, Mass.	10.54 A.M.	12.30 P.M.	2.03 P.M.	.60
Buffalo, N. Y.	10.44 A.M.	12.14 P.M.	1.46 P.M.	.54
Charleston, W. Va.	10.46 A.M.	12.13 P.M.	1.44 P.M.	.46
Chicago, Ill.	9.37 A.M.	10.59 A.M.	12.25 P.M.	.44
Cincinnati, O.	10.42 A.M.	12.07 P.M.	1.36 P.M.	.44
Denver, Colo.	8.40 A.M.	9.33 A.M.	10.28 A.M.	.18
Des Moines, Ia.	9.35 A.M.	10.49 A.M.	12.08 P.M.	.36
Detroit, Mich.	10.39 A.M.	12.06 P.M.	1.36 P.M.	.49
Helena, Mont.	8.31 A.M.	9.24 A.M.	10.21 A.M.	.22
Indianapolis, Ind.	9.40 A.M.	11.02 P.M.	12.28 P.M.	.41
Louisville, Ky.	9.43 A.M.	11.05 P.M.	12.32 P.M.	.41
Minneapolis-St. Paul, Minn.	9.32 A.M.	10.48 A.M.	12.10 P.M.	.41
New Orleans, La.	9.59 A.M.	11.06 P.M.	12.16 P.M.	.22
New York, N. Y.	10.52 A.M.	12.26 P.M.	1.59 P.M.	.56
Omaha, Neb.	9.36 A.M.	10.45 A.M.	12.01 P.M.	.32
Philadelphia, Pa.	10.51 A.M.	12.24 P.M.	1.58 P.M.	.54
Pittsburgh, Pa.	10.45 A.M.	12.14 P.M.	1.46 P.M.	.50
Raleigh, N. C.	10.52 A.M.	12.22 P.M.	1.53 P.M.	.46
Richmond, Va.	10.51 A.M.	12.22 P.M.	1.55 P.M.	.49
St. Louis, Mo.	9.40 A.M.	10.57 A.M.	12.18 P.M.	.36
Seattle, Wash.	7.36 A.M.	8.15 A.M.	8.56 A.M.	.13
Tallahassee, Fla.	10.59 A.M.	12.17 P.M.	1.38 P.M.	.31
Topeka, Kans.	9.38 A.M.	10.47 A.M.	12.01 P.M.	.29

VI. *A Total Eclipse of the Moon*, December 8, 1946, invisible in the United States. The beginning of the eclipse will be visible generally in the Arctic Ocean, the northwestern part of North America, the northern and western part of the Pacific Ocean, New Zealand, Australia, Asia, Europe except the extreme southwestern part, the Indian Ocean, and the eastern part of Africa. The end of the eclipse will be seen generally from the extreme northwestern part of North America, the Arctic Ocean, the western part of the Pacific Ocean, Australia except the extreme southeastern part, the Indian Ocean, Asia, Europe, and Africa, and the eastern part of the Atlantic Ocean.

OCULTATIONS OF ALDEBARAN, 1946

No occultations of the bright star Aldebaran (Alpha Tauri) will be visible to observers in the United States during 1946.

VENUS, MARS, JUPITER AND SATURN, 1946.

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 11 and 12 — especially if you live outside New England.

1946		VENUS		Key	MARS		Key	JUPITER		Key	SATURN		Key
		h. m.			h. m.			h. m.			h. m.		
JANUARY	1st	rises	6 46A.M.	P	rises	5 21P.M.	A	rises	1 06A.M.	K	rises	5 13P.M.	B
"	11th	"	6 59A.M.	P	"	4 21P.M.	A	"	12 32A.M.	K	rises	4 30P.M.	B
"	21st	"	7 06A.M.	O	sets	7 05A.M.	Q	"	11 57P.M.	K	sets	6 37A.M.	P
FEBRUARY	1st	sets	4 52P.M.	D	sets	6 08A.M.	Q	rises ¹	11 16A.M.	K	sets	5 51A.M.	P
"	11th	"	5 18P.M.	E	"	5 20A.M.	Q	"	10 33P.M.	K	"	5 09A.M.	P
"	21st	"	5 44P.M.	G	"	4 37A.M.	Q	"	11 53P.M.	K	"	4 28A.M.	P
MARCH	1st	sets	6 03P.M.	H	sets	4 05A.M.	Q	rises	9 20P.M.	K	sets	3 55A.M.	P
"	11th	"	6 28P.M.	I	"	3 29A.M.	Q	"	8 37P.M.	K	"	3 15A.M.	P
"	21st	"	6 52P.M.	J	"	2 57A.M.	Q	"	7 52P.M.	K	"	2 35A.M.	P
APRIL	1st	sets	7 19P.M.	L	sets	2 24A.M.	Q	rises	7 02P.M.	K	sets	1 53A.M.	P
"	11th	"	7 43P.M.	M	"	1 51A.M.	Q	rises	6 16P.M.	K	"	1 15A.M.	P
"	21st	"	8 08P.M.	N	"	1 24A.M.	P	sets	4 47A.M.	G	"	12 37A.M.	P
MAY	1st	sets	8 33P.M.	P	sets	12 58A.M.	P	sets	4 04A.M.	H	sets	12 00 M.	P
"	11th	"	8 56P.M.	Q	"	12 32A.M.	O	"	3 22A.M.	H	"	11 24A.M.	P
"	21st	"	9 15P.M.	N	"	12 07A.M.	N	"	2 41A.M.	H	"	10 44P.M.	P
JUNE	1st	sets	9 29P.M.	Q	sets ¹	11 39P.M.	N	sets	1 56A.M.	H	sets	10 05P.M.	P
"	11th	"	9 35P.M.	Q	"	11 13P.M.	M	"	1 16A.M.	H	"	9 30P.M.	P
"	21st	"	9 36P.M.	P	"	10 44P.M.	L	"	12 36A.M.	H	"	8 54P.M.	P
JULY	1st	sets	9 30P.M.	N	sets	10 13P.M.	L	sets ¹	11 58A.M.	II	sets	8 19P.M.	P
"	11th	"	9 20P.M.	M	"	9 52P.M.	K	"	11 20A.M.	H	"	7 44P.M.	P
"	21st	"	9 07P.M.	K	"	9 26P.M.	J	"	10 32P.M.	H	sets	7 09P.M.	O
AUGUST	1st	sets	8 49P.M.	J	sets	8 53P.M.	J	sets	9 58P.M.	G	rises	3 57A.M.	C
"	11th	"	8 31P.M.	I	"	8 32P.M.	I	"	9 23P.M.	G	"	3 24A.M.	C
"	21st	"	8 12P.M.	H	"	8 06P.M.	H	"	8 46P.M.	G	"	2 50A.M.	C
SEPTEMBER	1st	sets	7 51P.M.	F	sets	7 38P.M.	H	sets	8 07P.M.	G	rises	2 14A.M.	C
"	11th	"	7 30P.M.	E	"	7 14P.M.	G	"	7 32P.M.	G	"	1 40A.M.	C
"	21st	"	7 10P.M.	C	"	6 51P.M.	F	"	6 55P.M.	G	"	1 06A.M.	C
OCTOBER	1st	sets	6 48P.M.	B	sets	6 27P.M.	F	sets	6 24P.M.	F	rises	12 31A.M.	C
"	11th	"	6 24P.M.	A	"	6 05P.M.	E	"	5 49P.M.	F	"	11 56A.M.	C
"	21st	"	5 54P.M.	A	"	5 45P.M.	D	sets	5 15P.M.	F	"	11 19A.M.	C
NOVEMBER	1st	sets	5 13P.M.	A	sets	5 25P.M.	C	rises	6 14A.M.	L	rises	10 39P.M.	C
"	11th	sets	4 29P.M.	B	"	5 08P.M.	C	"	5 46A.M.	M	"	9 57P.M.	C
"	21st	rises	6 21A.M.	O	"	4 54P.M.	B	"	5 18A.M.	M	"	9 18P.M.	C
DECEMBER	1st	rises	5 11A.M.	N	sets	4 42P.M.	B	rises	4 49A.M.	M	rises	8 38P.M.	C
"	11th	"	4 22A.M.	M	"	4 34P.M.	B	"	4 20A.M.	M	"	7 57P.M.	C
"	21st	"	3 54A.M.	M	"	4 27P.M.	B	"	3 51A.M.	M	"	7 15P.M.	C
"	31st	rises	3 42A.M.	M	sets	4 22P.M.	B	rises	3 21A.M.	N	rises	6 32P.M.	C

¹ Day before.

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

CALCULATIONS AND CORRECTIONS

IF YOU LIVE OUTSIDE NEW ENGLAND

(For New England — See Page Six)

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 continue 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	6:21 P.M.E.S.T.	Sunset (Boston)	6:21 P.M.E.S.T.
Key letter	K	Correction (Column K, page 12)	+ :35
		<hr/>	
		Sunset (Dallas)	6:56 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 9 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 (Latitude 42° 22' N.)		DALLAS (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/>		<hr/>	
Dawn breaks	3:31 A.M.E.S.T.	Dawn breaks	4:34 A.M.C.S.T.
Sunset	6:21 P.M.	Sunset	6:56 P.M.
Add length of twilight	1:39	Add length of twilight	1:28
<hr/>		<hr/>	
Dark descends	8:00 P.M.E.S.T.	Dark descends	8:24 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 1 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/>		<hr/>	
Eastern Standard Time	2:19 P.M.	Correction (Column I, page 12)	+ :43
		<hr/>	
		Central Standard Time	10:45 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 (From calendar pages)	13h 11m	Sunset	6:56 P.M.
		Sunrise	6:02 A.M.
		Length of Day	12h 54m

High Tides. The figures for Full Sea in Columns 10 and 11 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 heshet 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.

BOSTON		MIAMI	
High Tide	7:15 A.M.E.S.T.	High tide (Boston)	7:15 A.M.
		Correction page 7	-3:00
Height	9.2 feet	High tide (Miami)	4:00 A.M.E.S.T.
		Height (Miami)	2.8 feet
		(9.2 x 0.3)	

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 **D** on page 12 must be applied.

BOSTON		DALLAS	
Moonset	3:21 A.M.E.S.T.	Moonset (Boston)	3:21 A.M.
Key letter	N	Correction (Col- umn N, page 12)	+ :23
		Correction (Col- umn D , page 12)	+ :04
		Moonset (Dallas)	3:48 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 **D** on page 12.

BOSTON		DALLAS	
Moon souths	8:46 P.M.E.S.T.	Moon souths (Boston)	8:46 P.M.
		Correction (Col- umn I, page 12)	+ :43
		Correction (Col- umn D , page 12)	+ :04
			9:33 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, 5 and 6.

PRINCIPAL HOLIDAYS, ETC. IN 1946

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.

Jan. 1 (*)	May 10 (**) Memorial Day (N. C. & S. C.)
Jan. 8 (**) Battle of New Orleans	May 12 (***) Mother's Day
Jan. 19 (**) Robert E. Lee's Birthday	May 20 (**) Mecklenburg Day (N. C.)
Jan. 29 (**) McKinley's Birthday	May 22 (***) Nat'l Marine Day
Feb. 12 (**) Abraham Lincoln's Birthday	May 30 (*) Decoration or Memorial Day
Feb. 14 (**) Admission Day (Arizona)	June 3 (**) Jefferson Davis Day (Ala., Ark., Fla., Ga., La., Miss., S. C., Tenn., Tex. & Va.)
Feb. 14 (***) Valentine's Day	June 14 (**) Flag Day (Ia., Mo. & Pa.)
Feb. 15 (***) Susan B. Anthony Day	June 15 (**) Pioneer Day (Idaho)
Feb. 22 (*) George Washington's Birthday	June 16 (***) Father's Day
Mar. 1 (**) State Day (Nebraska)	June 17 (**) Bunker Hill Day (Suffolk County, Mass.)
Mar. 2 (**) Texas Independence Day	June 20 (**) West Virginia Day
Mar. 5 (**) Mardi Gras	July 4 (*) Independence Day
Mar. 7 (**) Burbank Day (Cal.)	July 13 (**) Forrest's Day (Tenn.)
Mar. 15 (**) Jackson Day (Tennessee)	July 24 (**) Pioneer Day (Utah)
Mar. 17 (**) St. Patrick's or Evacuation Day	Aug. 1 (**) Colorado Day
Mar. 25 (**) Maryland Day	Aug. 4 (***) Coast Guard Day
Apr. 1 (**) State Election (Michigan)	Aug. 16 (**) Bennington, Vt. Battle Day
Apr. 2 (**) Arbor Day (Arizona)	Aug. 19 (***) National Aviation Day
Apr. 6 (**) Army Day	Aug. 30 (**) Huey Long Day (La.)
Apr. 12 (**) Halifax Day (N. Car.)	Sept. 2 (*) Labor Day
Apr. 13 (**) Jefferson Day (Mo., Okla., Va.)	Sept. 9 (**) Admission Day (Cal.)
Apr. 14 (***) Pan American Day	Sept. 9 Election Day (**) Maine
Apr. 19 (**) Patriots' Day (Me., Mass.)	Sept. 12 (**) Defender's Day (Md.)
Apr. 19 (**) Good Friday (Conn., Del., Fla., La., Md., Minn., N. J., Penn. & Tenn.)	Sept. 17 (***) Constitution Day
Apr. 21 (**) San Jacinto Day (Texas)	Sept. 28 (***) Am. Indian Day
Apr. 22 (**) Easter Monday (N. Car.)	Oct. 6 (**) Missouri Day
Apr. 22 (**) Arbor Day (Neb.)	Oct. 12 (*) Columbus Day
Apr. 24 Arbor & Bird Day (**) (Mass.)	Oct. 27 (***) Navy Day
Apr. 25 (**) Fast Day (N. H.)	Oct. 31 (**) Nevada Day
Apr. 26 (**) Memorial Day (Fla., Ga., Miss.)	Nov. 1 (**) All Saints' Day (La.)
May 4 (**) R. I. Independence Day	Nov. 5 (*) Election Day
	Nov. 11 (**) Armistice Day
	Nov. 23 (**) Repudiation Day (Md.)
	Nov. 28 (*) Thanksgiving
	Dec. 7 (**) Delaware Day
	Dec. 21 (***) Forefather's Day
	Dec. 25 (*) Christmas Day

1946]

JANUARY, FIRST MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.					
	0	'	"	0	'	"	0	'	"	0	'	"			
1	23s.	01		7	22	23	13	21	30	19	20	22	25	18	59
2	22	56		8	22	16	14	21	19	20	20	09	26	18	44
3	22	50		9	22	07	15	21	09	21	19	56	27	18	29
4	22	44	10	10	21	59	16	20	57	22	19	42	28	18	13
5	22	38		11	21	49	17	20	46	23	19	28	29	17	58
6	22	31		12	21	40	18	20	34	24	19	14	30	17	41

- New Moon, 3rd day, 7 h. 30 m., morning, E.
- ☾ First Quarter, 10th day, 3 h. 27 m., evening, E.
- Full Moon, 17th day, 9 h. 46 m., morning, W.
- ☾ Last Quarter, 24th day, 12 h. 00 m., midnight, 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 Fast.	Full Sea. Boston.		☽		Key	☽'s		Moon's Age	
			Rises.	h. m.		Sets.	h. m.		h.	m.		Morn.	Even.	Rises.	h. m.		Souths.	h. m.		Place
1	1	Tu.	7	13	P	4	22	B	9	10	12	9 ³ / ₄	10 ¹ / ₄	5 ^A 31	O	10 ^A 15	Sgr	28		
2	2	W.	7	13	P	4	23	B	9	10	12	10 ¹ / ₄	11	6 ^A 30	P	11 ^P 06	Cap	29		
3	3	Th.	7	13	P	4	24	B	9	11	11	11	—	sets	—	11	58	Cap	0	
4	4	Fr.	7	13	P	4	25	B	9	12	11	11 ³ / ₄	11 ³ / ₄	5 ^P 32	B	12	52	Cap	1	
5	5	Sa.	7	13	P	4	26	B	9	13	11	10 ¹ / ₄	0 ¹ / ₂	6	36	C	1	44	Aqr	2
6	6	S.	7	13	P	4	27	B	9	14	10	1	1	7	43	E	2	36	Aqr	3
7	7	M.	7	13	P	4	28	B	9	15	10	1 ³ / ₄	1 ³ / ₄	8	52	F	3	26	Psc	4
8	8	Tu.	7	13	O	4	29	C	9	17	9	2 ¹ / ₂	2 ³ / ₄	10	02	H	4	14	Psc	5
9	9	W.	7	12	O	4	30	C	9	18	9	3 ¹ / ₄	3 ¹ / ₂	11 ^P 12	I	5	03	Ari	6	
10	10	Th.	7	12	O	4	31	C	9	19	8	4	4 ¹ / ₂	—	—	—	5	51	Ari	7
11	11	Fr.	7	12	O	4	32	C	9	20	8	5	5 ¹ / ₂	12 ^A 23	J	6	41	Tau	8	
12	12	Sa.	7	12	O	4	33	C	9	22	8	6	6 ¹ / ₂	1	36	L	7	34	Tau	10
13	13	S.	7	11	O	4	35	C	9	23	7	7	7 ¹ / ₂	2	51	N	8	30	G'm	11
14	14	M.	7	11	O	4	36	C	9	25	7	8	8 ¹ / ₂	4	05	O	9	29	G'm	12
15	15	Tu.	7	10	O	4	37	C	9	26	7	9	9 ¹ / ₂	5	18	P	10	30	Cnc	13
16	16	W.	7	10	O	4	38	C	9	28	6	10	10 ¹ / ₂	6 ^A 25	Q	11 ^P 32	—	—	Cnc	14
17	17	Th.	7	09	O	4	39	C	9	30	6	10 ³ / ₄	11 ¹ / ₂	rises	—	—	—	—	—	—
18	18	Fr.	7	09	O	4	40	C	9	32	6	11 ¹ / ₂	—	5 ^P 54	C	12 ^A 31	—	—	Leo	15
19	19	Sa.	7	08	O	4	42	C	9	33	5	0 ¹ / ₄	0 ¹ / ₂	7	03	D	1	26	Leo	16
20	20	S.	7	08	O	4	43	C	9	35	5	1	1 ¹ / ₄	8	10	F	2	17	Vir	17
21	21	M.	7	07	O	4	44	C	9	37	5	1 ³ / ₄	2	9	15	G	3	04	Vir	18
22	22	Tu.	7	06	O	4	45	D	9	39	4	2 ¹ / ₂	2 ³ / ₄	10	17	I	3	48	Lib	19
23	23	W.	7	06	N	4	47	D	9	41	4	3 ¹ / ₂	3 ³ / ₄	11 ^P 18	J	4	31	Lib	20	
24	24	Th.	7	05	N	4	48	D	9	43	4	4 ¹ / ₄	4 ¹ / ₂	—	—	—	5	12	Lib	21
25	25	Fr.	7	04	N	4	49	D	9	45	4	5	5 ¹ / ₂	12 ^A 18	K	5	54	Scor	22	
26	26	Sa.	7	03	N	4	50	D	9	47	3	6	6 ¹ / ₄	1	18	L	6	36	Scor	23
27	27	S.	7	02	N	4	52	D	9	49	3	6 ³ / ₄	7 ¹ / ₄	2	18	N	7	21	Sgr	24
28	28	M.	7	02	N	4	53	D	9	51	3	7 ¹ / ₂	8 ¹ / ₄	3	19	O	8	08	Sgr	25
29	29	Tu.	7	01	N	4	54	D	9	54	3	8 ¹ / ₂	9	4	18	P	8	57	Sgr	26
30	30	W.	7	00	N	4	56	D	9	56	3	9 ¹ / ₄	9 ³ / ₄	5	15	P	9	49	Cap	27
31	31	Th.	6	59	N	4	57	D	9	58	2	10	10 ¹ / ₂	6 ^A 07	P	10 ^A 42	—	—	Cap	28

JANUARY hath 31 days.

[1946



But do not go,
Do not look!
Draw the blind low,
Open a book . . .
Not anything do mind and eye like less
Than snow's obliterating nothingness.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Tu.	Circumcision. ♂ ♀ ☾ Saider } 9.4 1941. } 8.2 Cold	
2	W.	Japs ent. Manila ⊕ In Per } 8.3 1942. } 9.6	No place like a farm for cobwebs and rust and decay, give them half a chance. And too many of us do. For cobwebs have a way of getting into the think machine of farmers, rust gathers on those fine new ideas, and enterprise decays.
3	Th.	☉ Par. rides } 8.3 Ecl. low. Tides } 9.8 and	
4	Fr.	Rt. Rev. & Rt. Hon. G. F. Fisher named 98th Ld. Arch. of Canter. } 8.4 } 9.9	
5	Sa.	Twelfth Night. Take down St. Xmas greens Simeon Tides } 8.5 } 10.0	
6	F	Epiph. Tides } 8.7 } 10.0	
7	M.	Tides } 8.9 } 8.9 Snowy.	
8	Tu.	Battle of New Orleans Tides } 8.9 } 9.7	
9	W.	Luzon landing 9.30 A.M.—1945 Tides } 9.1 } 9.5 Fair.	
10	Th.	☾ on nearest Earth. ♂ earth. ♀ in ♂. ♀ Stat. in R.A. } 9.8 } 9.2	
11	Fr.	Chimney fires due Tides } 9.5 } 9.0 Expect	
12	Sa.	♂ ♀ ☉. Amchitka 1943 Tides } 9.7 } 8.9	
13	F	1st S. af. Epi. ♂ ♂ ☉. Tides } 10.1 } 9.8	
14	M.	St. Hilary. ♂ ☉ ☾. ☾ in Coldest Peri. in year } 10.4 } 9.0	
15	Tu.	Tides } 10.7 } 9.2 storms	
16	W.	Geo. W. Patton F. T. Maloney ☐ ♀ ☉. ☾ Runs high. } 10.9 } 9.4	
17	Th.	Warsaw, 1945 ♂ ♀ ☾. ♂ ♂ ☾. Tides } 11.1 } —	
18	Fr.	Tides } 9.5 } 11.0 nov.	
19	Sa.	Robt. E. Lee Robt. Appleton born 1807 d. 1945 } 9.5 } 10.8	
20	F	2d S. a. Ep. ♀ Aph. in Tides } 9.4 } 10.8	
21	M.	Tides } 9.8 } 9.9 Will	
22	Tu.	St. Vincent. ♂ ♂ ♀. ♂ ♀ ☾. Tides } 9.1 } 9.3	
23	W.	☾ on Eq. Tides } 8.9 } 8.8 thav.	
24	Th.	♂ ♀ ☾. Tides } 8.7 } 8.8	
25	Fr.	Conv. of St. Paul. If clear betides good year } 8.6 } 7.9	
26	Sa.	G. I. Joe went abroad—1942 in D. Apo. Tides } 8.5 } 7.6	
27	F	3rd S. a. Epi. } 8.6 } 7.6 Bundle	
28	M.	Snowed 15 inches, 1897 Tides } 8.7 } 7.6	
29	Tu.	Tides } 8.9 } 7.8 up	
30	W.	Charles I beheaded ☾ rides low. } 9.8 } 8.0 well.	
31	Th.	Majuro Atoll 1944 ♀ Aph. Tides } 9.6 } 8.4	

No place like a farm for cobwebs and rust and decay, give them half a chance. And too many of us do. For cobwebs have a way of getting into the think machine of farmers, rust gathers on those fine new ideas, and enterprise decays.

For instance, are you a milk farmer, only, with more stock than you can properly take care of, and half of these second rate? Why not less of better quality? Maybe you just about make ends meet, but does it make dollars—or, sense—to sell your milk wholesale and buy your grain retail? Why not raise your own grain? Have you looked into the idea of cooperative marketing and buying? What about raising a cash crop or two with the time saved by less and better stock?

Do you let your machinery "weather" out? Good sheds are one of your best investments. How many machines have you really worn out?

Are you content to let your soil wash or blow away year after year because you plow up and down slopes rather than around, fall plough without a cover crop, overpasture, or clean cut your wooded slopes?

Last—have you kept careful records of your farm business-records that can truly show you where to stop your dollars when they have run too fast? Sound farming methods and good records are the key to a HAPPY NEW YEAR.

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FEBRUARY, SECOND MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			0 /			Days.			0 /			Days.			0 /			Days.			0 /												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
	17s.	16	16	16	15	15	08	51	33	7	8	9	15 20	15 01	14 42	13	14	15	13 24	13 03	12 43	19	20	21	11 19	10 57	10 36	25	26	27	9 08	8 46	8 23	7 00

- New Moon, 1st day, 11 h. 43 m., evening, W.
- ☾ First Quarter, 8th day, 11 h. 28 m., evening, W.
- Full Moon, 15th day, 11 h. 28 m., evening, E.
- ☾ Last Quarter, 23rd day, 9 h. 36 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	Full Sea.	☽		Key	☽		D's	Moon's Age
			Rises.	Sets.		Morn	Even					Rises.	Souths.		Place			
h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	Place	Age	
32	1	Fr.	6 58	N 4 58	D	10 00	2 10	10 ¹ / ₂	11 ¹ / ₄	6 ^A _M 53	O	11 36	Aqr	29				
33	2	Sa.	6 57	N 4 59	E	10 03	2 11	1 ¹ / ₄	—	sets	—	12 ^P _M 29	Aqr	1				
34	3	S.	6 56	M 5 01	E	10 05	2 11	3 ⁴ / ₄	0	6 ^P _M 41	F	1 21	Psc	2				
35	4	M.	6 54	M 5 02	E	10 08	2 0	1 ² / ₄	0 ³ / ₄	7 52	G.	2 11	Psc	3				
36	5	Tu.	6 53	M 5 03	E	10 10	2 1	1 ² / ₄	1 ¹ / ₂	9 03	I	3 00	Ari	4				
37	6	W.	6 52	M 5 05	E	10 12	2 2	2	2 ¹ / ₄	10 15	J	3 49	Ari	5				
38	7	Th.	6 51	M 5 06	E	10 15	2 2	3	3 ¹ / ₄	11 ^P _M 27	L	4 39	Tau	6				
39	8	Fr.	6 50	M 5 07	E	10 17	2 3	1 ² / ₄	4	—	—	5 30	Tau	7				
40	9	Sa.	6 49	M 5 09	E	10 20	2 4	1 ² / ₄	5 ¹ / ₄	12 ^A _M 40	M	6 24	G'm	8				
41	10	S.	6 47	M 5 10	E	10 23	2 5	1 ² / ₄	6 ¹ / ₄	1 54	O	7 20	G'm	9				
42	11	M.	6 46	M 5 11	E	10 25	2 6	3 ³ / ₄	7 ¹ / ₄	3 05	P	8 19	Cnc	10				
43	12	Tu.	6 45	M 5 12	F	10 28	2 7	3 ³ / ₄	8 ¹ / ₂	4 13	Q	9 19	Cnc	11				
44	13	W.	6 43	L 5 14	F	10 30	2 8	3 ³ / ₄	9 ¹ / ₂	5 12	Q	10 17	Cnc	12				
45	14	Th.	6 42	L 5 15	F	10 33	2 9	3 ³ / ₄	10 ¹ / ₂	6 02	P	11 ^P _M 13	Leo	13				
46	15	Fr.	6 41	L 5 16	F	10 36	2 10	1 ² / ₄	11 ¹ / ₂	6 ^A _M 43	O	—	—	—	—			
47	16	Sa.	6 39	L 5 18	F	10 38	2 11	1 ¹ / ₄	—	rises	—	12 ^A _M 06	Leo	14				
48	17	S.	6 38	L 5 19	F	10 41	2 0	0 ¹ / ₄	0 ¹ / ₄	6 ^P _M 58	G	12 55	Vir	15				
49	18	M.	6 37	L 5 20	F	10 44	2 0	3 ⁴ / ₄	1	8 02	H	1 40	Vir	16				
50	19	Tu.	6 35	L 5 21	F	10 46	2 1	1 ² / ₄	1 ¹ / ₂	9 04	I	2 24	Lib	17				
51	20	W.	6 34	L 5 23	F	10 49	2 2	2	2 ¹ / ₄	10 05	K	3 06	Lib	18				
52	21	Th.	6 32	L 5 24	F	10 52	2 2	3	3	11 ^P _M 06	L	3 48	Lib	19				
53	22	Fr.	6 31	K 5 25	G	10 55	2 3	1 ² / ₄	3 ³ / ₄	—	—	4 30	Sco	20				
54	23	Sa.	6 29	K 5 26	G	10 57	3 4	1 ¹ / ₄	4 ³ / ₄	12 ^A _M 06	M	5 14	Sco	21				
55	24	S.	6 28	K 5 28	G	11 00	3 5	5	5 ¹ / ₂	1 06	N	5 59	Sgr	22				
56	25	M.	6 26	K 5 29	G	11 03	3 6	6	6 ¹ / ₂	2 06	O	6 48	Sgr	23				
57	26	Tu.	6 25	K 5 30	G	11 06	3 6	3 ⁴ / ₄	7 ¹ / ₂	3 04	P	7 38	Cap	24				
58	27	W.	6 23	K 5 31	G	11 08	3 7	3 ⁴ / ₄	8 ¹ / ₂	3 57	P	8 30	Cap	25				
59	28	Th.	6 21	K 5 33	G	11 11	3 8	1 ² / ₄	9 ¹ / ₄	4 ^A _M 46	P	9 ^A _M 24	Cap	26				

FEBRUARY hath 28 days.

[1946



It is not the same . . .
 The month bears winter's name,
 But it is not the same.—
 Something behind the air,
 Something within the light,
 Not heard, not seen . . . but there,
 Trembling toward sound and sight,
 And nearly seen . . . nearly heard . . .
 Wait for the flower, expect the bird.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Fr.	♂ ♀ ☾. ♂ ♀ ☉ Sup. ♀ ☾. Tides { 9.9	<p>Now is the time of the deep snows—and thrice blessed is the neighbor who will plow you out. A mug of good steaming coffee or something bracing from the bottle behind the clock will be just the thing for him when he has bucked out your drifts. A touch of neighborly kindness goes a long ways—and there'll be more storms coming.</p> <p>Be fearful of fires, for more farms are burned out this month than any other—and chiefly through carelessness or lack of foresight. Stop your fire before it starts. Avoid overheating your furnace and your stoves, keep screens in front of your open fires. Is your ceiling properly protected by asbestos (better than metal) near or around the furnace? Have you had all the chimney flues cleaned of soot? Is the masonry of your chimneys tight and well-pointed up? Have you sand, pails of water, or, best of all, fire extinguishers ready, and do you know just where they are? Are your payments up to date on your fire insurance?</p> <p>Have a thought of an evening and on many an evening for the books you have not had time for. Let Mother and the boy and the girl share your pleasure with an occasional hour of reading aloud. Don't be ashamed of old favorites: Dickens, Jules Verne, Longfellow, Mark Twain, etc., but don't overstrain their credulity with too large a dose of Cooper. Have the youngsters introduce books and magazines of their own.</p>
2	Sa.	Candlemas. Groundhog Day { 8.7 Blustery	
3	F	4th S. at. Epiph. Span. Inq. { 9.0	
4	M.	Yanks retake Manila. ahoh. 1813 { 10.4 Tides { 9.8	
5	Tu.	Bluebirds arr. N.Y. State Tides { 9.6 on Eq. { 9.7 snows.	
6	W.	St. Dorothea. ☾ Eq. { 10.1 Cold.	
7	Th.	Crimean Conf. 1945 (4-11) { 9.8 Rain and	
8	Fr.	Guadalcanal 1943 Tides { 9.9 floods in	
9	Sa.	R. G. Fessenden d. 1945 (11th) ♀ Gr. Hel. Lat. S. ☾ Pert. { 9.8 In { 9.8	
10	F	5th S. a. Ep. ♂ ☾ ☉ Sup. { 8.6	
11	M.	Goering fd. Gest. 1936 (10th) ♀ Stat. in R.A. { 9.8 West.	
12	Tu.	Lincoln's Birthday ♂ ☾ ☾ high Tides { 8.6	
13	W.	Budapest 1945 ♂ ♀ ☾. Tides { 10.2	
14	Th.	St. Valentine ♂ ♀ ☾. Bugs Moran massacre '29 { 9.1	
15	Fr.	Susan B. Anthony Day Tides { 10.5 Cold	
16	Sa.	Bataan 1945 Tides { 9.4 again.	
17	F	Corregidor, Septuagesima S. 1945 { 10.8	
18	M.	Iwo, Engelb 1945 1944 Tides { 9.5	
19	Tu.	Eniwetok 1944 ♂ ☾ ☾. On Eq. Tides { 10.0	
20	W.	Gen. E. M. Watson d. 1945 ♂ Stat. in R. A. { 9.5	
21	Th.	Auld Deer "Worst in year" ♂ Stat. in R.A. { 9.1 Bad	
22	Fr.	Washington's Birthday ♀ Gr. Hel. Tides { 8.8	
23	Sa.	Gale of 1723 ☾ in Apo. Rotary fd. 1905 { 8.6	
24	F	Serag S. Mass. Hort. Soc. fd. 1829 St. Matthias { 7.7	
25	M.	Tides { 7.8 [24th { 8.4 stormy	
26	Tu.	Birds coming to the Vineyard ☾ rides low. Tides { 7.4	
27	W.	Tides { 8.7 weather.	
28	Th.	Los Negros 1944 ♀ in ♀. Tides { 9.1	

Feb. 31, 1831 — Rachel Mack died this day if we are to believe her headstone at Barkhamsted, Conn.

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MARCH, THIRD MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
1	7s.		38	7	5	19	13	2	58	19	0	36	25	1	46
2	7	15		8	4	56	14	2	35	20	0s.	13	26	2	09
3	6	52		9	4	32	15	2	11	21	0N.	11	27	2	33
4	6	29		10	4	09	16	1	47	22	0	35	28	2	56
5	6	06		11	3	45	17	1	24	23	0	58	29	3	20
6	5	43		12	3	22	18	1	00	24	1	22	30	3	43

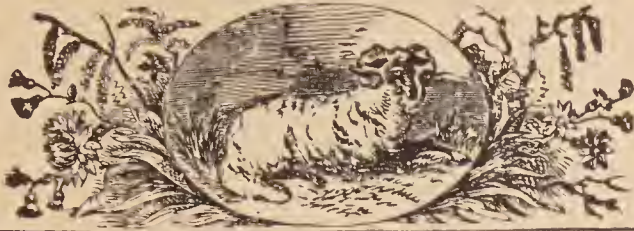
- New Moon, 3rd day, 1 h. 01 m., evening, W.
- ☽ First Quarter, 10th day, 7 h. 03 m., morning, E.
- Full Moon, 17th day, 2 h. 11 m., evening, W.
- ☾ Last Quarter, 25th day, 5 h. 37 m., evening, W.

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

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

MARCH hath 31 days.

[1946



The hill that stands upon our south,
Was first to know . . . It gave the word,
In a small chirp that found a way,
Lonely and sweet, to thaw the air —
A small word for so large a mouth,
But in the stillness, widely heard,
From dawn of day to dusk of day,
To startle listeners, everywhere.
The hill was first — but how the rumor grows!
Now, everybody knows!

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Fr.	St. David. C. J. Swan Hol. \$9.6 d. 1935 Neb. \$8.7	Far
2	Sa.	Torger D. Torkle Hol. \$10.1 k. 1945 (3rd) Texas \$9.2	from
3	F	Quinqua. S. (Shroves.) \$10.5	—spring—
4	M.	Mindirl ♀♂ C. □ ⊙ ⊙. ♂ ♀ C. \$9.7	
5	Tu.	Shrove Tuesday ♀ in. ⊙ on \$10.2	
6	W.	Mardi Gras Day ♀ Peri. ⊙ Eq. \$10.8	
7	Th.	Ash Wed. The Ides begin ⊙ Peri. \$10.6	
8	Fr.	Coloagne Hol. Tides \$10.6 1945 Calif. \$10.8	like.
9	Sa.	Yanks cross Rhine '45 Tides \$10.5 \$9.7	Rain.
10	F	1st S. in L. Gr. El. E. ♂ ⊙ C. Tides \$10.8 \$9.2	Variable
11	M.	runs high. \$9.7 \$8.4	snows and colder.
12	Tu.	St. Gregory ♂♂ C. ♂ h C. ♂ Gr. Hel. \$9.5 Lat. N. \$8.3	
13	W.	Maple sap running of 1888 \$9.6 \$8.5	Pleasant
14	Th.	Fast of Manus Isl. 1944 Tides \$9.7 \$8.9	now,
15	Fr.	Income Tax Day 1945 ♀ Gr. Hel. Hol. \$9.9 Lat. N. Tenn. \$9.2	
16	Sa.	Gasmata ♀ Stat. Unseasonable \$10.0 1944 in R.A. heat—1945	—
17	F	2nd S. in L. St. Patrick. Purim. \$9.4 \$10.0	
18	M.	♂ on Eq. ♂ ♀ ♀. ♂ ♀ C. ♂ ♂ h. \$9.6 \$9.9	
19	Tu.	St. Joseph's Swallows arr. Stat. in Cal. ♂ ♀ C. \$9.6	
20	W.	St. Cuthbert. h Stat. in Tides \$9.6 R.A. \$9.3	and
21	Th.	St. Benedict. Spring begins. ⊙ en-oo. ters ♀. \$9.5 \$8.9	
22	Fr.	♂ in Apo. Tides \$9.2 \$8.4	milder.
23	Sa.	Cebu invaded Steve Donoghue d. 1945 Tides \$9.0 \$8.0	
24	F	3rd S. in Lent. Tides \$8.7 \$7.6	Floods.
25	M.	Ann. or Lady Day. Hol. \$8.4 Md. \$7.4	Tornadoes
26	Tu.	Lloyd George d. 1945 ♀ ♂ ⊙ Inf. ♂ rides \$8.8 low. \$7.3	
27	W.	Argentina bluffs decl. war 1945 Tides \$8.4 \$8.0	in South
28	Th.	♂ ♀ ⊙. Tides \$8.8 \$8.0	and West and
29	Fr.	Ore shipping season Great Lakes begins Tides \$9.1 \$8.5	warmer
30	Sa.	Worcester Res. broke dam '76 Tides \$9.6 \$9.2	here.
31	F	4th S. in L. Tides \$10.1 \$9.9	

It's high time that you waded through the seed catalogues and put in your orders. These are not things to be entered upon lightly but with due consideration for the seeds still on hand (not over two years old), and there are sure to be some. The annual waste of seed due to extravagant ordering is enormous—and needless. Let Mother have the last word on the flowers.

In considering your cash crops, it is usually wise to plant more heavily of crops that were low-priced the previous year. Follow your markets closely by radio and bulletin and draw on your own conclusions—not those of your neighbors.

You should have finished pruning your fruit trees by the end of the month. Pick up and burn all prunings as you go. April may be too late. Many large orchards use tractor drawn incinerators (they can be homemade) to burn the limbs directly they are cut. A great time saver.

Mud and haste make waste. Don't be in too much of a hurry to get your manure out if the ground is soft, but have a thought to draining or graveling over the mucky spots in the barnyard and around the manure pile. Don't roll your lawn till the first sogginess is out of it, otherwise it will pack the grass roots too hard.

Wood cut now will be well dried for next winter, though it will not split so well as that cut earlier.

1946]

APRIL, FOURTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
1	4N	.	29	7	6	47	13	9	00	19	11	08	25	13	09
2	4	53		8	7	09	14	9	22	20	11	28	26	13	28
3	5	16		9	7	32	15	9	43	21	11	49	27	13	47
4	5	39		10	7	54	16	10	04	22	12	09	28	14	06
5	6	01		11	8	16	17	10	26	23	12	29	29	14	25
6	6	24		12	8	38	18	10	47	24	12	49	30	14	44

- New Moon, 1st day, 11 h. 37 m., evening, W.
- ☽ First Quarter, 8th day, 3 h. 04 m., evening, E.
- Full Moon, 16th day, 5 h. 47 m., morning, W.
- ☾ Last Quarter, 24th day, 10 h. 18 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	☀		Key	☾		Key	Length of Days.	Sun Past.	Full Sea.		☽	Key	☽	D's	Moon's Age
			Rises.	h. m.		Sets.	h. m.				Morn	Even						Rises.	h. m.	Souths.	Place
91	1	M.	5 27	H	6 10	J	12 43	12	10 ¹ / ₂	10 ³ / ₄	5 ^A _M 34	J	11 ^A _M 30	Ari	29		
92	2	Tu.	5 25	H	6 11	J	12 46	12	11	11 ¹ / ₄	sets	—	12 ^P _M 22	Ari	1		
93	3	W.	5 23	H	6 12	J	12 49	13	11 ¹ / ₂	—	8 ^P _M 11	L	1 15	Tau	2		
94	4	Th.	5 22	H	6 13	K	12 51	13	—	0 ³ / ₄	9 29	N	2 10	Tau	3		
95	5	Fr.	5 20	G	6 14	K	12 54	13	1 ¹ / ₄	1 ³ / ₄	10 46	P	3 07	G'm	4		
96	6	Sa.	5 18	G	6 15	K	12 57	13	2	2 ³ / ₄	11 ^P _M 59	Q	4 07	G'm	5		
97	7	S.	5 17	G	6 17	K	13 00	14	3	3 ¹ / ₂	—	—	5 07	Cnc	6		
98	8	M.	5 15	G	6 18	K	13 03	14	4	4 ³ / ₄	1 ^A _M 04	Q	6 06	Cnc	7		
99	9	Tu.	5 13	G	6 19	K	13 06	14	5	5 ³ / ₄	1 59	Q	7 03	Leo	8		
100	10	W.	5 12	G	6 20	K	13 08	15	6 ¹ / ₄	7	2 44	P	7 56	Leo	9		
101	11	Th.	5 10	G	6 21	K	13 11	15	7 ¹ / ₄	8 ¹ / ₄	3 21	N	8 46	Vir	10		
102	12	Fr.	5 08	G	6 22	K	13 14	15	8 ¹ / ₂	9	3 52	M	9 32	Vir	11		
103	13	Sa.	5 07	G	6 23	K	13 17	15	9 ¹ / ₄	9 ³ / ₄	4 19	L	10 16	Vir	12		
104	14	S.	5 05	G	6 24	K	13 19	16	10	10 ¹ / ₂	4 43	J	10 58	Lib	13		
105	15	M.	5 03	F	6 26	L	13 22	16	10 ³ / ₄	11 ¹ / ₂	5 ^A _M 05	I	11 ^P _M 40	Lib	14		
106	16	Tu.	5 02	F	6 27	L	13 25	16	11	11 ³ / ₄	rises	—	—	—	—		
107	17	W.	5 00	F	6 28	L	13 28	16	11 ³ / ₄	—	7 ^P _M 45	L	12 ^A _M 22	Sco	15		
108	18	Th.	4 59	F	6 29	L	13 30	17	0 ¹ / ₄	0 ³ / ₄	8 46	N	1 04	Sco	16		
109	19	Fr.	4 57	F	6 30	L	13 33	17	0 ³ / ₄	1 ¹ / ₄	9 47	O	1 49	Sco	17		
110	20	Sa.	4 55	F	6 31	L	13 36	17	1 ¹ / ₂	2	10 46	P	2 35	Sgr	18		
111	21	S.	4 54	F	6 32	L	13 38	17	2	2 ³ / ₄	11 ^P _M 41	P	3 23	Sgr	19		
112	22	M.	4 52	F	6 33	L	13 41	17	2 ³ / ₄	3 ¹ / ₂	—	—	4 13	Cap	20		
113	23	Tu.	4 51	F	6 35	L	13 44	18	3 ¹ / ₂	4 ¹ / ₄	12 ^A _M 33	P	5 03	Cap	21		
114	24	W.	4 49	E	6 36	M	13 46	18	4 ¹ / ₂	5 ¹ / ₄	1 19	P	5 55	Aqr	22		
115	25	Th.	4 48	E	6 37	M	13 49	18	5 ¹ / ₂	6 ¹ / ₄	1 58	O	6 46	Aqr	23		
116	26	Fr.	4 46	E	6 38	M	13 52	18	6 ¹ / ₂	7 ¹ / ₄	2 32	N	7 37	Aqr	24		
117	27	Sa.	4 45	E	6 39	M	13 54	18	7 ¹ / ₂	8	3 03	L	8 27	Psc	25		
118	28	S.	4 44	E	6 40	M	13 57	19	8 ¹ / ₄	8 ³ / ₄	3 32	K	9 16	Psc	26		
119	29	M.	4 42	E	6 41	M	13 59	19	9 ¹ / ₄	9 ³ / ₄	4 01	I	10 07	Ari	27		
120	30	Tu.	4 41	E	6 42	M	14 02	19	10	10 ¹ / ₂	4 ^A _M 28	II	10 ^A _M 59	Ari	28		

APRIL hath 30 days.

[1946]



First things first, said daffodil
 And pushed the crumbs of earth aside,
 Arrived, and trembled, and stood still,
 And shone, with pardonable pride,
 In holding what was hers to hold;
 Priority in green and gold.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, Etc.	Farmer's Calendar.
1	M.	All Fools Day. $\delta \Psi \odot$ on El. Day } 10.6 resumed 1945 Tides } 10.5	<p>April is the month of show- ers, (or snow flurries) sand- wiched haphazardly between the gales of March and the langors of May. With one foot on the threshold of spring and one at the back- door of winter, it hangs un- certain which way to fall— and it's never what it's cracked up to be. However, it has just enough promise of something better in it, after something so very much worse, that it relaxes us willy nilly. We get what is known as "spring fever," a misnomer if there ever was one. We aren't feverish at all and the "spring" is all out of us for certain. We may yearn and intend and plan but we do nothing—willingly, or, rather, we willingly do nothing. When the breath of life is on all the world, we lie torpid. There is nothing at this time more pleasant than to burn our meadows, for this has something more of fun than work in it and is not nearly so profitable as we pretend (indeed it is really a poor business — destroying good natural mulch and scorching young grass shoots). But it's idle and easy, and that's what we're after. What we should be doing we may learn from a percmptory Old Farmer of other years: —"Uncover root plants . . . Hoop and rail your berry bushes . . . Reset fence posts —mend wall and fences. . . Mulch strawberry beds . . . Get to your ploughing . . . Set out new fruit trees . . . Seed your lawn."</p>
2	Tu.	Br. Weather forecasts Tides } $\overline{\text{Clear}}$	
3	W.	$\delta \Psi \odot$ in Peri. Tides } 11.0 10.9 and	
4	Th.	U.S. flag returns Tides } 11.3 to 13 stripes 1818 } 10.7 cooler.	
5	Fr.	R. C. Foster, d. 1945 Russo-Jap pact } 11.2 A. deForest, d. 1945 denounced 1945 } 10.3	
6	Sa.	Army Day $\delta \odot$ C. Vinal Haven, Mc. } 11.0 Hérons back } 9.7	
7	F	5th S. in L., Passion. Ψ Stat. } 10.5 in R. A. } 9.1	
8	M.	C runs Ψ in δ . $\square \odot$ δ h C. } 10.0 high. } 8.8	
9	Tu.	March $\delta \delta$ C. Tides } 9.6 into Egypt } 8.4	
10	W.	Geese are flying north Tides } 9.8 8.4 Expect	
11	Th.	Tides } 9.2 18.6 rain.	
12	Fr.	F. D. Roosevelt $\delta \Psi \odot$ Truman } 9.3 passed on 1945 } 6:09 P.M. } 19.0	
13	Sa.	Sardines running Hol. Mo, } 19.4 Eastport, Me. Okla., Va. } 9.3 Low-	
14	F	6th S. in L., Palm $\delta \Psi \odot$. } 9.5 -ery.	
15	M.	Income Tax $\delta \Psi \odot$ on Tides } 9.5 Day again } Eq. } 9.5	
16	Tu.	Jewish H. D. Murphy } 9.7 Passover d. 1945 } 9.4 Stormy	
17	W.	Hughes Cont. flight in } 9.8 6 hrs., 58 m. 1944 } δ Aph. } 9.2 now.	
18	Th.	Maundy Ernie Pyle in } 9.7 Thurs. d. 1945 } δ Aph. } 8.9	
19	Fr.	Good Fri. C Apo. in Patriots' Day. } 9.6 8.6	
20	Sa.	Aitape & Hollandia Ψ in δ . Tides } 9.4 1944 } 8.3	
21	F	Easter S. Tides } 9.1 8.0 Showers.	
22	M.	Easter Reds take Tides } 8.8 Monday Berlin '45 } low. } 7.6	
23	Tu.	St. George. Ψ Gr. El. Ujelang Tides } 8.6 W. 1944 } 7.5	
24	W.	Madang. Tides } 8.5 1944 } 7.6 Milder.	
25	Th.	St. Mark. Fast Day Tides } 8.5 N. H. } 7.3	
26	Fr.	Gernica, Hol. } 8.7 1937 Fla., Ga., Miss. } 8.4 Rivers	
27	Sa.	Derne, Mussolini } 9.1 1805 shot 1945 } 9.1 are whitening.	
28	F	Low S. 1st af. E. Mars False } 9.6 con. arm. } 9.8	
29	M.	Swallows arrive on } 10.1 Jaffrey, N. H. $\delta \Psi \odot$ Eq. } 10.6	
30	Tu.	Hudson R. shad Nazis in Italy } 10.5 running surrender 1945 } 11.2	

Fear knocked at the door, Faith answered
 and nobody was there.

1946]

MAY, FIFTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	15	N	02	7	16	47	13	18	21	19	44	25	20	56	
2	15		20	8	17	03	14	18	36	20	57	26	21	06		
3	15		38	9	17	19	15	18	50	21	09	27	21	16		
4	15		56	10	17	35	16	19	04	22	20	21	28	21	26	
5	16		13	11	17	51	17	19	18	23	20	33	29	21	36	
6	16		30	12	18	06	18	19	31	24	20	45	30	21	45	

- New Moon, 1st day, 8 h. 16 m., morning, E.
- ☽ First Quarter, 8th day, 12 h. 13 m., morning, W.
- Full Moon, 15th day, 9 h. 52 m., evening, E.
- ☾ Last Quarter, 23rd day, 11 h. 02 m., evening, W.
- New Moon, 30th day, 3 h. 49 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 East.	Full Sea.		☽	Key	☽		☽'s Place	Moon's Age
			Rises.	Key	Sets.	Key			Morn.	Even.			Sets.	Key			Souths.	Place
121	1	W.	4 39	E	6 44	M	14 04	19	11	11	sets	-	11 ^A _M 54	Tau	0	
122	2	Th.	4 38	E	6 45	M	14 07	19	11 ¹ ₄	11 ³ ₄	8 ^P _M 23	O	12 ^P _M 51	Tau	1	
123	3	Fr.	4 37	E	6 46	N	14 09	19	-	0 ¹ ₂	9 41	P	1 52	G'm	2	
124	4	Sa.	4 35	D	6 47	N	14 12	19	0 ³ ₄	1 ¹ ₂	10 52	Q	2 54	G'm	3	
125	5	S.	4 34	D	6 48	N	14 14	19	1 ³ ₄	2 ¹ ₄	11 ^P _M 55	Q	3 57	Cnc	4	
126	6	M.	4 33	D	6 49	N	14 16	19	2 ¹ ₂	3 ¹ ₄	-	-	4 56	Cnc	5	
127	7	Tu.	4 32	D	6 50	N	14 19	20	3 ³ ₄	4 ¹ ₂	12 ^A _M 44	P	5 52	Leo	6	
128	8	W.	4 30	D	6 51	N	14 21	20	4 ³ ₄	5 ¹ ₂	1 24	O	6 44	Leo	7	
129	9	Th.	4 29	D	6 52	N	14 23	20	5 ³ ₄	6 ³ ₄	1 57	M	7 31	Vir	8	
130	10	Fr.	4 28	D	6 53	N	14 26	20	7	7 ³ ₄	2 24	L	8 15	Vir	9	
131	11	Sa.	4 27	D	6 54	N	14 28	20	8	8 ¹ ₂	2 52	K	8 58	Lib	11	
132	12	S.	4 26	D	6 56	N	14 30	20	9	9 ¹ ₄	3 11	I	9 39	Lib	12	
133	13	M.	4 25	D	6 57	O	14 32	20	9 ³ ₄	10	3 33	H	10 20	Scor	13	
134	14	Tu.	4 23	C	6 58	O	14 34	20	10 ¹ ₄	10 ¹ ₂	3 ^A _M 56	G	11 02	Scor	14	
135	15	W.	4 22	C	6 59	O	14 36	20	11 ¹ ₄	11 ¹ ₂	rises	-	11 ^M _M 46	Scor	15	
136	16	Th.	4 21	C	7 00	O	14 38	20	11 ³ ₄	-	7 ^P _M 39	O	-	-	15	
137	17	Fr.	4 20	C	7 01	O	14 40	20	-	0 ¹ ₄	8 38	P	12 ^A _M 31	Sgr	16	
138	18	Sa.	4 19	C	7 02	O	14 42	20	0 ¹ ₄	0 ³ ₄	9 37	P	1 19	Sgr	17	
139	19	S.	4 18	C	7 03	O	14 44	20	1	1 ¹ ₂	10 30	P	2 08	Cap	18	
140	20	M.	4 18	C	7 04	O	14 46	20	1 ¹ ₂	2 ¹ ₄	11 18	P	2 59	Cap	19	
141	21	Tu.	4 17	C	7 05	O	14 48	20	2 ¹ ₄	3	11 ^P _M 59	O	3 50	Cap	20	
142	22	W.	4 16	C	7 06	O	14 50	20	3	3 ³ ₄	-	-	4 40	Aqr	21	
143	23	Th.	4 15	C	7 07	O	14 52	19	4	4 ³ ₄	12 ^A _M 35	N	5 30	Aqr	22	
144	24	Fr.	4 14	C	7 08	O	14 53	19	5	5 ¹ ₂	1 06	M	6 18	Psc	23	
145	25	Sa.	4 13	B	7 09	P	14 55	19	6	6 ¹ ₂	1 34	K	7 07	Psc	24	
146	26	S.	4 13	B	7 09	P	14 57	19	6 ³ ₄	7 ¹ ₂	2 01	J	7 55	Ari	25	
147	27	M.	4 12	B	7 10	P	14 58	19	7 ³ ₄	8 ¹ ₄	2 27	H	8 45	Ari	26	
148	28	Tu.	4 11	B	7 11	P	15 00	19	8 ³ ₄	9	2 55	G	9 37	Tau	27	
149	29	W.	4 11	B	7 12	P	15 01	19	9 ³ ₄	10	3 ^A _M 27	E	10 32	Tau	28	
150	30	Th.	4 10	B	7 13	P	15 04	19	10 ¹ ₂	10 ³ ₄	sets	-	11 ^A _M 32	G'm	29	
151	31	Fr.	4 10	B	7 14	P	15 04	19	11	11 ¹ ₂	8 ^P _M 30	Q	12 ^P _M 34	G'm	1	

MAY hath 31 days.

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Now, orchard-bridals on the hill!
 And who remembers how the root,
 The tortuous root, was never still,
 In labors meant for more than this
 Too brief, inconsequential kiss
 That's on its way to being fruit . . . ?

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	W.	St. Philip & St. James. Child Health Day	— 10.7
2	Th.	6 ♀ C. C. in El. Perl. Col.	11.6 10.7 <i>Changeable</i> ,
3	Fr.	Invention of the Cross	♂ ♂ C. 11.7 probably
4	Sa.	Kentucky Derby	R. I. 11.6 cooler.
5	F	2nd S. af. E. C. Rtns Patron. of	11.2 high. St. Joseph 9.7
6	M.	Mahatma Gandhi freed 1944	♂ ♀ C. Tides 10.7 9.2
7	Tu.	V E Day, 1945	♂ ♂ C. Tides 10.1 8.8
8	W.	Surrender 6:01 P.M. at Rheims EWT	♀ Gr. Hel. 9.5 Lat. S. 8.6
9	Th.	Good mess of dandelions in order now	9.2 8.7 <i>Warms</i>
10	Fr.	Hol. N. & S. Car.	Tides 9.0 8.3 <i>up.</i>
11	Sa.	Snowed last year	♂ ♀ C. Tides 8.9 8.1
12	F	3rd S. a. E. Mother's Day	♂ ♀ ♂ C. 8.4 C.
13	M.	Jamestown, Va. id. 1607	♂ ♀ C. 8.9 [12th C on 8.9 Eq. 8.4
14	Tu.	Vaccination disc. 1796	Tides 8.9 8.7 <i>Easterly</i>
15	W.	Burma monsoon begins	Tides 8.8 <i>storm.</i>
16	Th.	Wakde, 1944	♂ in Tides 9.7 8.7 <i>and</i>
17	Fr.	Dark Day 1790	Tides 9.7 8.6 <i>some</i>
18	Sa.	Wayte Garden planted 1642	Tides 9.7 8.4
19	F	4th S. a. E. Lag B'Ommer	Tides Am. 9.5 low. Day 8.2
20	M.	Haking season — Maine coast	Hol. N. C. Tides 9.3 8.0
21	Tu.	Apple trees in blossom	Tides 9.1 7.9 <i>un-</i>
22	W.	National Marine Day	Tides 8.9 7.9 <i>settled</i>
23	Th.	Broekton bec. city 1881	♀ in Perl. Tides 8.7 8.0 <i>days.</i>
24	Fr.	Brooklyn Bridge opened 1883	Tides 8.7 8.4
25	Sa.	Emerson born 1803	World Radlo protocol 1912 Tides 8.9 8.9
26	F	5th S. a. E. C. on Rogation Sun.	Eq. St. Augustine 9.1 9.5
27	M.	St. Bede. Shrine Day	♂ ♀ in 9.6
28	Tu.	Minor Rogation Days	Quints born 9.8 11.0 <i>Becoming</i>
29	W.		10.2 11.5 [30th ♂ ♀ C. milder.
30	Th.	Ascen. D. C. in Perl.	Par. Memor. — Ecl. 1st Day. 10.4
31	Fr.	Johnstown Flood 1899	♂ ♂ C. ♂ ♀ C. Sup. 10.4 11.9

About this time of year we hunger for something that's fresh and green and sprouty and that we can see growing. We would browse like the kine, if we were made for browsing, but the instinct to get something lush between our teeth is just the same as theirs.

This leads many people to eat weeds—such as dandelion, mustard, and wild turnip—or nibble at bittersweet, or root through the woods for "fiddle-heads" (the new curled shoots of a certain kind of fern which none of us recognize). Many find pleasure in chewing the twigs of black birch and sassafras.

The violet, as a salad delicacy, has its advocates (the same, we believe, who eat rose petals later). Then there are those of the chive and garlic school who like nothing better than a dish of skunk cabbage. But, no doubt, the digestive organs of these gourmets are greatly exaggerated.

This, of course, is but a small list of the edible inedibles to be found in our woods and fields this time of year, but still it is long enough to be dangerous. Few, if any of us, know what we're looking for and so are likely to browse on the Lord knows what. It's a lot safer to go back to the old diet of beans and spinach till the radishes come up. By then the madness will have left us.

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JUNE, SIXTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	22	N.02	7	22 45	13	23 12	19	23 26	25	23 24					
2	22	10	8	22 50	14	23 16	20	23 26	26	23 22						
3	22	18	9	22 55	15	23 18	21	23 27	27	23 20						
4	22	25	10	23 00	16	23 21	22	23 27	28	23 18						
5	22	32	11	23 05	17	23 23	23	23 26	29	23 15						
6	22	38	12	23 09	18	23 24	24	23 25	30	23 11						

- ☾ First Quarter, 5th day, 11 h. 06 m., morning, E.
- ☉ Full Moon, 14th day, 1 h. 42 m., evening, E.
- ☾ Last Quarter, 22nd day, 8 h. 12 m., morning, W.
- New Moon, 23th day, 11 h. 06 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. Morn.	Sun. Past.	Full Sea. Boston.		☾ Sets.	Key	☾ Souths.		D's Place	Moon's Age
			h.	m.		h.	m.		h.	m.			h.	m.			h.	m.		
152	1	Sa.	4 09	B	7 14	P	15 05	18	11 3/4	0 1/4	9 ^P 38 _M	Q	1 ^P 39	Cnc	2					
153	2	S.	4 09	B	7 15	P	15 07	18	0 1/2	1 1/4	10 35	Q	2 42	Cnc	3					
154	3	M.	4 08	B	7 16	P	15 08	18	1 1/2	2	11 21	P	3 42	Leo	4					
155	4	Tu.	4 08	B	7 17	P	15 09	18	2 1/4	3	11 ^P 58 _M	N	4 37	Leo	5					
156	5	W.	4 07	B	7 17	P	15 10	18	3 1/4	4	—	—	5 27	Vir	6					
157	6	Th.	4 07	B	7 18	P	15 11	18	4 1/4	5 1/4	12 ^A 28 _M	M	6 13	Vir	7					
158	7	Fr.	4 07	B	7 19	P	15 12	17	5 1/2	6 1/4	12 54	K	6 57	Lib	8					
159	8	Sa.	4 07	B	7 19	P	15 13	17	6 1/2	7	1 17	J	7 39	Lib	9					
160	9	S.	4 06	B	7 20	P	15 14	17	7 1/2	8	1 39	H	8 20	Lib	10					
161	10	M.	4 06	B	7 21	P	15 14	17	8 1/2	8 3/4	2 01	G	9 01	Scor	11					
162	11	Tu.	4 06	B	7 21	P	15 15	17	9 1/4	9 1/2	2 24	F	9 44	Scor	12					
163	12	W.	4 06	B	7 22	P	15 16	16	10	10	2 50	E	10 29	Sgr	13					
164	13	Th.	4 06	B	7 22	P	15 16	16	10 3/4	10 3/4	3 ^A 20 _C	C	11 ^P 16	Sgr	14					
165	14	Fr.	4 06	B	7 23	Q	15 17	16	11 1/4	11 1/4	rises	—	—	—	—					
166	15	Sa.	4 06	A	7 23	Q	15 17	16	11 3/4	11 3/4	8 ^P 26 _M	P	12 ^A 05	Sgr	15					
167	16	S.	4 06	A	7 23	Q	15 18	16	—	0 1/2	9 15	P	12 55	Cap	16					
168	17	M.	4 06	A	7 24	Q	15 18	15	0 1/2	1	9 58	P	1 46	Cap	17					
169	18	Tu.	4 06	A	7 24	Q	15 18	15	1 1/4	1 3/4	10 36	O	2 37	Aqr	18					
170	19	W.	4 06	A	7 24	Q	15 19	15	1 3/4	2 1/2	11 08	M	3 27	Aqr	19					
171	20	Th.	4 06	A	7 25	Q	15 19	15	2 1/4	3 1/4	11 ^P 36 _M	L	4 15	Psc	21					
172	21	Fr.	4 06	A	7 25	Q	15 19	14	3 1/2	4	—	—	5 02	Psc	22					
173	22	Sa.	4 06	A	7 25	Q	15 19	14	4 1/4	5	12 ^A 02 _J	J	5 49	Psc	23					
174	23	S.	4 07	A	7 25	Q	15 19	14	5 1/4	6	12 28	I	6 37	Ari	24					
175	24	M.	4 07	A	7 25	Q	15 18	14	6 1/4	6 3/4	12 54	H	7 26	Ari	25					
176	25	Tu.	4 07	A	7 25	Q	15 18	14	7 1/4	7 3/4	1 22	F	8 17	Tau	26					
177	26	W.	4 08	A	7 25	Q	15 18	13	8 1/4	8 3/4	1 55	D	9 13	Tau	27					
178	27	Th.	4 08	A	7 26	Q	15 18	13	9 1/4	9 1/2	2 35	C	10 13	G'm	28					
179	28	Fr.	4 08	A	7 26	Q	15 17	13	10 1/2	10 1/2	3 ^A 23 _A	A	11 ^A 18	G'm	29					
180	29	Sa.	4 09	B	7 25	P	15 17	13	11 1/2	11 1/4	sets	—	12 ^P 22 _M	Cnc	1					
181	30	S.	4 09	B	7 25	P	15 16	13	—	0	9 ^P 12 _M	P	1 ^P 25	Leo	2					

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JULY, SEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.					
	0	/		0	/		0	/		0	/				
1	23	N.	08	7	22	37	13	21	51	19	20	53	25	19	42
2	23		03	8	22	30	14	21	43	20	20	42	26	19	29
3	22		59	9	22	23	15	21	33	21	20	30	27	19	15
4	22		54	10	22	16	16	21	24	22	20	19	28	19	02
5	22		48	11	22	08	17	21	14	23	20	07	29	18	48
6	22		43	12	22	00	18	21	04	24	19	54	30	18	33

- ☽ First Quarter, 6th day, 12 h. 15 m., morning, W.
- ☉ Full Moon, 14th day, 4 h. 22 m., morning, W.
- ☾ Last Quarter, 21st day, 2 h. 52 m., evening, W.
- New Moon, 28th day, 6 h. 53 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. Pass.	Full Sea, Boston.		☽		Key	☽		Moon's Age		
			Rises.	h. m.		Sets.	h. m.		h.	m.		h.	m.	h.	m.		h.	m.		h.	m.	Place
182	1	M.	4	10	B	7	25	P	15	16	12	0	$\frac{1}{4}$	1	9 ^P _M 54	O	2 ^P _M 24	Leo	3		
183	2	Tu.	4	10	B	7	25	P	15	15	12	1	$\frac{1}{2}$	1	3 ^P _M 4	M	3	18	Leo	4	
184	3	W.	4	11	B	7	25	P	15	14	12	2	2	2	3 ^P _M 4	L	4	07	Vir	5	
185	4	Th.	4	11	B	7	25	P	15	13	12	3	3	3	1 ^P _M 20	J	4	52	Vir	6	
186	5	Fr.	4	12	B	7	24	P	15	13	12	3	$\frac{3}{4}$	4	1 ^P _M 43	I	5	36	Lib	7	
187	6	Sa.	4	13	B	7	24	P	15	12	11	4	$\frac{1}{2}$	5	—	—	6	17	Lib	8	
188	7	S.	4	13	B	7	24	P	15	11	11	5	$\frac{3}{4}$	6	1 ^P _M 05	H	6	59	Scor	9	
189	8	M.	4	14	B	7	24	P	15	10	11	6	$\frac{3}{4}$	7	1 ^P _M 28	F	7	42	Scor	10	
190	9	Tu.	4	15	B	7	23	P	15	09	11	7	$\frac{1}{2}$	8	1 ^P _M 53	E	8	26	Scor	11	
191	10	W.	4	15	B	7	23	P	15	07	11	8	$\frac{1}{2}$	8	3 ^P _M 1	D	9	12	Sgr	12	
192	11	Th.	4	16	B	7	22	P	15	06	11	9	$\frac{1}{2}$	9	1 ^P _M 55	C	10	00	Sgr	13	
193	12	Fr.	4	17	B	7	22	P	15	05	11	10	10	10	1 ^P _M 34	B	10	50	Cap	14	
194	13	Sa.	4	18	B	7	21	P	15	04	10	10	$\frac{3}{4}$	10	3 ^P _M 20	B	11	42	Cap	15	
195	14	S.	4	18	B	7	21	P	15	02	10	11	$\frac{3}{4}$	11	rises	—	—	—	—	—	
196	15	M.	4	19	B	7	20	P	15	01	10	—	—	8	3 ^P _M 37	O	12	33	Aqr	16	
197	16	Tu.	4	20	B	7	19	P	14	59	10	0	$\frac{1}{4}$	0	3 ^P _M 10	N	1	24	Aqr	17	
198	17	W.	4	21	B	7	19	P	14	58	10	0	$\frac{3}{4}$	1	9	40	L	2	13	Aqr	18
199	18	Th.	4	22	B	7	18	P	14	56	10	1	$\frac{1}{2}$	2	10	07	K	3	01	Psc	19
200	19	Fr.	4	23	B	7	17	O	14	55	10	2	$\frac{1}{4}$	2	3 ^P _M 10	I	3	47	Psc	20	
201	20	Sa.	4	23	C	7	16	O	14	53	10	3	3	3	10	57	H	4	34	Ari	21
202	21	S.	4	24	C	7	16	O	14	51	10	4	4	4	11	24	G	5	21	Ari	22
203	22	M.	4	25	C	7	15	O	14	49	10	5	5	5	11 ^P _M 53	—	6	10	Tau	23	
204	23	Tu.	4	26	C	7	14	O	14	48	10	6	6	6	—	E	7	03	Tau	24	
205	24	W.	4	27	C	7	13	O	14	46	10	7	7	7	12 ^P _M 28	C	7	59	G'm	25	
206	25	Th.	4	28	C	7	12	O	14	44	10	8	8	8	1	12	B	8	59	G'm	26
207	26	Fr.	4	29	C	7	11	O	14	42	10	9	9	9	2	05	A	11	02	Cnc	27
208	27	Sa.	4	30	C	7	10	O	14	40	10	10	10	10	3 ^P _M 07	A	11	06	Cnc	28	
209	28	S.	4	31	C	7	09	O	14	38	10	10	11	11	sets	—	12	07	Leo	0	
210	29	M.	4	32	C	7	08	O	14	36	10	11	$\frac{1}{4}$	—	8 ^P _M 23	N	1	03	Leo	1	
211	30	Tu.	4	33	C	7	07	O	14	34	10	0	0	0	9	54	L	1	56	Vir	2
212	31	W.	4	34	C	7	06	N	14	32	10	0	$\frac{3}{4}$	1	9 ^P _M 21	K	2	44	Vir	3	

JULY hath 31 days.

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Where is the brown and bare
Earth that he looked upon . . . ?
Just here . . . just here is where
He stood in an earlier sun,
And dreamed what well might be . . .
His dream is what you see.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	M.	Oliver Blood of ♂ ♀ ☾ {11.6 Vari-	
2	Tu.	Plunkett Christ ☽ ☾ ☽ {10.0	
3	W.	Visit. of Mary. WWI officially ends 1921 {11.2 9.3 able	The old swimming hole and the beaches are grand places this month, but have a care. More mastoids, earaches, and chronic sinuses are developed through diving (especially in fresh water) than in any other way. Water up the nose is more dangerous than water in the ears. If you really aim to be popular at the beach, "dunk" your friends until their car drums pop.
4	Th.	♂ ☽ ☾ ☽ in Aph. {10.7 9.6 with signs	
5	Fr.	INDEPENDENCE DAY Tides {10.1 9.3 of rain.	
6	Sa.	♁ on Eq. ♃ in ♃. ♂ ♃ ☾ ♀ Gr. El. {9.5 9.1 E. {9.1 9.0	
7	F	Hartford Circus Fire, 1944 ♂ ♃ ☾ Tides {8.9 8.4 8.9	
8	M.	3rd S. af. Tr. Tides {8.1 8.0 Scorching	
9	Tu.	Saipan, 1944 Tides {8.1 8.0 sun.	
10	W.	Tides {8.0 9.1 F. Schlesinger d. 1943 ☾ in Apo. Tides {8.0 9.2	You earned your vacation, so why ruin it by going after that tan in too much of a hurry? Keep your shirt on most of the time. As usual this month lots of non-essential brains will be added in the noontime sun, but not the farmer's. He doesn't wear that kind of a hat because he's a "hick," but because he's got work to do—in the sun. Why not give him a hand and a whole back?
11	Th.	John Q. Adams b. 1767 ☽ ☽ ☽. {8.0 9.4 Hot	
12	Fr.	Thoreau born 1817 Tides {8.2 9.6 and	
13	Sa.	Iwo Jima bombed 1944 ☾ rides Hol. low. Tenn. {8.3 9.8 sultry.	
14	F	4th S. a. Tr. Day Tides {8.4 8.9	
15	M.	St. Swithun in Aph. Tides {8.8 8.8	
16	Tu.	Fast of Atom. bomb test Tamuz New Mexico Tides {10.0 8.7	
17	W.	Alex's Tides {10.0 8.9	
18	Th.	McClelland Barclay missing 1943 ♀ Stat. in R.A. Tides {9.9 9.0	
19	Fr.	Dog Days begin Sirius ☽ not calc. Tides {9.8 9.2	
20	Sa.	St. Margaret. ☾ on Eq. Tides {9.5 9.3	Save your grass cuttings for the compost heap. Store away in a dry mouse-proof place any seeds you have not used this year. Keep your fertilizers under cover. Put away your gardening tools each time you have used them, and see that Junior does the same. He will remind you.
21	F	6th S. a. P. ♂ ☽ ☽. St. Daniel Tides {9.8 9.6	
22	M.	Mary Magdalene. Tides {9.1 9.8 Nights	
23	Tu.	B25 crashed Empire State Bldg. '45 Tides {8.9 10.1 getting	
24	W.	Salt Lake City fd. 1847 Tides {8.9 10.4 cooler.	
25	Th.	St. James. St. Christopher. ♂ ☽ ☾ ☾ in Perl. Tides {9.8 10.0	
26	Fr.	St. Anne. ☾ runs Labor Par. vic. Eng. high Potsdam decl. '45 Tides {9.3 11.1	
27	Sa.	Seven Sleepers ♂ ☽ ☾. Tides {9.6 11.8 Look	
28	F	7th S. af. P. ♂ ♃ ☾. Tides {9.8 9.8 for a	
29	M.	Amsterdam Middleburg Cape Opinari lds. 1944 Tides {11.4 10.0 cool	
30	Tu.	Tides {11.8 10.0 rain.	
31	W.	St. Ignatius of Loyola ♂ ☽ ☾. ♂ ☽ ☾. 'Guam 1944 Tides {11.0 9.9	

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AUGUST, EIGHTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	18	N.04	7	16 28	13	14 43	19	12 50	25	10 49					
2	17	48	8	16 11	14	14 25	20	12 30	26	10 28						
3	17	33	9	15 54	15	14 06	21	12 10	27	10 07						
4	17	17	10	15 37	16	13 47	22	11 50	28	9 46						
5	17	01	11	15 19	17	13 28	23	11 30	29	9 25						
6	16	45	12	15 01	18	13 09	24	11 10	30	9 03						

- ☽ First Quarter, 4th day, 3 h. 55 m., evening, E.
- ☾ Full Moon, 12th day, 5 h. 26 m., evening, E.
- ☾ Last Quarter, 19th day, 8 h. 17 m., evening, E.
- New Moon, 26th day, 4 h. 07 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.		☽ Sets. h. m.	Key	☽ Souths. h. m.	☽'s Place	Moon's Asc
									Morn	Even					
213	1	Th.	4 35	D	7 05	N	14 30	10	1 ³ / ₄	2 ¹ / ₄	9 ^P _M 45	I	3 ^P _M 29	Lib	4
214	2	Fr.	4 36	D	7 04	N	14 27	10	2 ¹ / ₂	3	10 08	H	4 12	Lib	5
215	3	Sa.	4 37	D	7 02	N	14 25	10	3 ¹ / ₄	3 ³ / ₄	10 31	G	4 55	Sco	6
216	4	S.	4 38	D	7 01	N	14 23	10	4 ¹ / ₄	4 ³ / ₄	10 54	F	5 37	Sco	7
217	5	M.	4 39	D	6 00	N	14 21	10	5	5 ¹ / ₂	11 22	D	6 21	Sco	8
218	6	Tu.	4 40	D	6 59	N	14 18	10	6	6 ¹ / ₂	11 ^P _M 53	C	7 06	Sgr	10
219	7	W.	4 41	D	6 57	N	14 16	10	7	7 ¹ / ₄	—	—	7 54	Sgr	11
220	8	Th.	4 42	D	6 56	N	14 14	10	8	8 ¹ / ₄	12 ^A _M 30	B	8 44	Cap	12
221	9	Fr.	4 43	D	6 55	N	14 11	11	8 ³ / ₄	9	1 13	B	9 35	Cap	13
222	10	Sa.	4 44	D	6 53	M	14 09	11	9 ¹ / ₂	9 ³ / ₄	2 05	B	10 26	Cap	14
223	11	S.	4 46	E	6 52	M	14 06	11	10 ¹ / ₄	10 ¹ / ₂	3 ^A _M 02	B	11 ^P _M 18	Aqr	15
224	12	M.	4 47	E	6 51	M	14 04	11	10 ³ / ₄	11	rises	—	—	—	—
225	13	Tu.	4 48	E	6 49	M	14 02	11	11	11 ¹ / ₂	7 ^P _M 42	M	12 ^A _M 08	Aqr	16
226	14	W.	4 49	E	6 48	M	13 59	11	11 ³ / ₄	—	8 10	K	12 57	Psc	17
227	15	Th.	4 50	E	6 46	M	13 57	12	0 ¹ / ₂	1	8 36	J	1 45	Psc	18
228	16	Fr.	4 51	E	6 45	M	13 54	12	1 ¹ / ₄	1 ¹ / ₂	9 01	H	2 32	Ari	19
229	17	Sa.	4 52	E	6 43	M	13 52	12	2	2 ¹ / ₄	9 27	G	3 19	Ari	20
230	18	S.	4 53	E	6 42	M	13 49	12	2 ³ / ₄	3	9 55	E	4 08	Tau	21
231	19	M.	4 54	E	6 40	M	13 46	12	3 ¹ / ₂	4	10 28	D	4 58	Tau	22
232	20	Tu.	4 55	F	6 39	L	13 44	13	4 ¹ / ₂	5	11 07	B	5 52	G'm	23
233	21	W.	4 56	F	6 37	L	13 41	13	5 ¹ / ₂	6	11 ^P _M 55	A	6 50	G'm	24
234	22	Th.	4 57	F	6 36	L	13 39	13	6 ³ / ₄	7	—	—	7 50	Cnc	25
235	23	Fr.	4 58	F	6 34	L	13 36	13	7 ³ / ₄	8 ¹ / ₄	12 ^A _M 52	A	8 52	Cnc	26
236	24	Sa.	4 59	F	6 33	L	13 33	14	9	9 ¹ / ₄	1 59	A	9 52	Leo	27
237	25	S.	5 00	F	6 31	L	13 31	14	10	10 ¹ / ₄	3 ^A _M 10	B	10 50	Leo	28
238	26	M.	5 01	F	6 29	L	13 28	14	10 ³ / ₄	10 ¹ / ₂	sets	—	11 ^A _M 44	Vir	29
239	27	Tu.	5 03	F	6 28	L	13 25	14	11	11 ¹ / ₂	7 ^P _M 20	N	12 ^P _M 34	Vir	1
240	28	W.	5 04	F	6 26	L	13 23	15	11 ³ / ₄	0 ¹ / ₄	7 45	L	1 21	Vir	2
241	29	Th.	5 05	F	6 25	K	13 20	15	0 ¹ / ₂	1	8 09	J	2 05	Lib	3
242	30	Fr.	5 06	G	6 23	K	13 17	15	1 ¹ / ₄	1 ³ / ₄	8 32	G	2 48	Lib	4
243	31	Sa.	5 07	G	6 21	K	13 14	16	2	2 ¹ / ₂	8 ^P _M 56	F	3 ^P _M 31	Scor	5

AUGUST hath 31 days.

[1946



See how the pendulous fruit,
The heavy-headed grain,
Yearn earthward and would be
At home again, and sleep,—
Being wearied of the sun,
Feeling the weight of sky,
Being spent of all desire
And asking nothing more
Than that the cyclic span
Return where it began.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Th.	Lammas Day. Hol. Col. Tides { 9.8 10.5	Hot
2	Fr.	♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓♈♉♊♋♌♍♎♏♐♑♒♓	and
3	Sa.	Tornadoes, 1885 Tides { 9.5 9.2	sticky
4	F	7th S. at Tr. ♁ Gr. Hel. { 8.7 9.0	with
5	M.	Fenelon born 1651 Tides { 8.2 8.8	occasional
6	Tu.	Transfigu- Past of Av. ♁ in Tides { 7.8 8.7	
7	W.	Name of Jesus { 7.8 8.7	6th Atom bomb dest. Hiroshima
8	Th.	6 Nazi saboteurs exec. 1942 Tides { 7.7 8.9	rain.
9	Fr.	Is. Walton rides low. ♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓	♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓
10	Sa.	St. Laurence. Tides { 8.1 9.5	Clear
11	F	8th S. at Tr. Hay fever season begins Tides { 8.4 9.8	
12	M.	King Philip Stat. in R.A. Tides { 8.7 9.1	and
13	Tu.	Gunpowder invented 1330 Tides { 10.1 9.1	cool
14	W.	Official Jap surrender 7 P.M. (E.W.T.) '45 Tempest of 1635 Tides { 10.8 9.4	
15	Th.	Assumption of Virgin Kiska 1943 Tides { 10.4 9.6	for
16	Fr.	Battle of Bennington Vermont on Eq. ♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓	♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓
17	Sa.	Tides { 10.1 10.0	some days.
18	F	10 S. a. P. Bar. 26.185 near Luzon 1929 Tides { 9.8 10.0 9.5 10.0	
19	M.	Dog Days end Tides { 9.5 10.0	
20	Tu.	Benj. Harrison b. 1833 ♁ Gr. el. W. Tides { 9.0 10.0	
21	W.	Dunbarton Oaks 1944 ♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓	♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓
22	Th.	Luigi Cardinal Maglione d. 1944 ♁ in. Tides { 8.6 10.0	
23	Fr.	Rumania quit 1944 ♁ runs high ♁ in ♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓	♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓
24	Sa.	St. Bartholomew. ♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓	♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓
25	F	11th S. a. P. Paris 1944 ♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓	♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓
26	M.	Swallows leaving Jaffrey, N.H. Tides { 9.7 10.9	then cool
27	Tu.	James Thomson d. 1743 Tides { 10.0 10.0	and fine.
28	W.	St. Augustine. ♁ in Ellice Isl. 1943 Tides { 10.8 10.1	
29	Th.	♁ on Eq. ♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓	♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓
30	Fr.	St. Faustus. ♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓	♁♃♄♅♆♇♈♉♊♋♌♍♎♏♐♑♒♓
31	Sa.	British weather forecasts banned 1939 Tides { 9.8 9.6	

A good day is likely just a good day — not a "weather breeder," especially this month. Be ready for that long dry spell. If your cattle depend on natural water holes or spring troughs, watch these carefully. They may well dry up or become too muddled and stagnant. Would it be worthwhile to repipe a new trough directly from your main water supply?

It is said that a good hose is better than a prayer for rain—but the good rain falls everywhere (when it falls) and the good hose will reach just so far. If you do have a constantly sufficient supply of water and some sound unused pipe, consider making an irrigation or sprinkler system that will cover your whole vegetable garden.

Have you tried "2-4-D," the new weed killer? It hasn't had a full trial over a number of years, but look into it, anyway, and test it on the weeds in a portion of your corn. There are some good well-tested poison ivy killers on the market. Why let the ivy claim your walls and apple trees any longer?

Now is the month when rotation of pastures proves its value. There's mighty little feed left in that one big pasture, but if it had been divided into four, you would have found more than enough grass for the season.

Don't pasture stock where you want natural reforestation to take place. A few years of intensive browsing will destroy all young growth.

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SEPTEMBER, NINTH MONTH.

ASTRONOMICAL CALCULATIONS.

☾'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
1	8N.	20		7	6	08	13	3	51	19	1	32	25	0	48
2	7	58		8	5	45	14	3	28	20	1	09	26	1	11
3	7	36		9	5	22	15	3	05	21	0	46	27	1	34
4	7	14		10	5	00	16	2	42	22	0N.	22	28	1	58
5	6	52		11	4	37	17	2	19	23	0s.	01	29	2	21
6	6	30		12	4	14	18	1	56	24	0	24	30	2	45

- ☽ First Quarter, 3rd day, 9 h. 49 m., morning, E.
- ☾ Full Moon, 11th day, 4 h. 59 m., morning, W.
- ☾ Last Quarter, 18th day, 1 h. 44 m., morning, E.
- New Moon, 25th day, 3 h. 45 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.		h.	m.		h.	m.	h.	m.		h.	m.		
244	1	S.	5	08	G	6	19	K	13	12	16	2 ³ / ₄	3	9 ^P _M 22	E	4 ^P _M 15	Scor	6		
245	2	M.	5	09	G	6	18	K	13	09	16	3 ¹ / ₂	4	9 51	C	5 00	Sgr	7		
246	3	Tu.	5	10	G	6	16	K	13	06	17	4 ¹ / ₂	4 ³ / ₄	10 25	B	5 47	Sgr	8		
247	4	W.	5	11	G	6	14	K	13	03	17	5 ¹ / ₄	5 ³ / ₄	11 06	B	6 35	Sgr	9		
248	5	Th.	5	12	G	6	13	K	13	01	17	6 ¹ / ₄	6 ¹ / ₂	11 ^P _M 54	A	7 26	Cap	10		
249	6	Fr.	5	13	G	6	11	K	12	58	18	7 ¹ / ₄	7 ¹ / ₂	—	—	8 17	Cap	11		
250	7	Sa.	5	14	G	6	09	K	12	55	18	8 ¹ / ₄	8 ¹ / ₂	12 ^M _M 49	B	9 09	Aqr	12		
251	8	S.	5	15	G	6	07	K	12	52	18	9	9 ¹ / ₄	1 50	C	10 00	Aqr	13		
252	9	M.	5	16	H	6	06	J	12	49	19	9 ³ / ₄	10	2 56	D	10 50	Psc	14		
253	10	Tu.	5	17	H	6	04	J	12	47	19	10 ¹ / ₂	10 ³ / ₄	4 ^M _M 05	E	11 ^P _M 38	Psc	15		
254	11	W.	5	18	H	6	02	J	12	44	19	11 ¹ / ₄	11 ³ / ₄	rises	—	—	—	—		
255	12	Th.	5	19	H	6	00	J	12	41	20	—	0	7 ^P _M 04	I	12 ^A _M 26	Psc	16		
256	13	Fr.	5	21	H	5	59	J	12	38	20	0 ¹ / ₄	0 ¹ / ₂	7 30	G	1 15	Ari	17		
257	14	Sa.	5	22	H	5	57	J	12	35	20	0 ³ / ₄	1	7 57	F	2 04	Ari	18		
258	15	S.	5	23	H	5	55	J	12	33	21	1 ¹ / ₂	2	8 29	D	2 55	Tau	19		
259	16	M.	5	24	H	5	53	J	12	30	21	2 ¹ / ₂	2 ³ / ₄	9 06	B	3 48	Tau	20		
260	17	Tu.	5	25	H	5	52	J	12	27	21	3 ¹ / ₄	3 ¹ / ₂	9 51	A	4 45	G'm	22		
261	18	W.	5	26	H	5	50	J	12	24	22	4 ¹ / ₄	4 ³ / ₄	10 45	A	5 44	G'm	23		
262	19	Th.	5	27	H	5	48	I	12	21	22	5 ¹ / ₂	5 ³ / ₄	11 ^P _M 47	A	6 45	Cnc	24		
263	20	Fr.	5	28	I	5	46	I	12	18	22	6 ¹ / ₂	7	—	—	7 45	Cnc	25		
264	21	Sa.	5	29	I	5	45	I	12	15	23	7 ³ / ₄	8	12 ^A _M 56	B	8 42	Leo	26		
265	22	S.	5	30	I	5	43	I	12	13	23	8 ³ / ₄	9	2 08	C	9 36	Leo	27		
266	23	M.	5	31	I	5	41	I	12	10	24	9 ³ / ₄	10	3 19	E	10 26	Vir	28		
267	24	Tu.	5	32	I	5	39	I	12	07	24	10 ¹ / ₂	10 ³ / ₄	4 ^M _M 28	G	11 13	Vir	29		
268	25	W.	5	33	I	5	37	I	12	04	24	11 ¹ / ₂	11 ¹ / ₄	sets	—	11 ^A _M 58	Lib	0		
269	26	Th.	5	34	I	5	36	I	12	01	25	—	0	6 ^P _M 33	H	12 ^P _M 42	Lib	1		
270	27	Fr.	5	35	I	5	34	I	11	58	25	0 ¹ / ₄	0 ¹ / ₂	6 57	G	1 25	Scor	2		
271	28	Sa.	5	37	I	5	32	I	11	56	25	0 ³ / ₄	1	7 22	E	2 09	Scor	3		
272	29	S.	5	38	I	5	30	I	11	53	26	1 ¹ / ₂	1 ³ / ₄	7 50	D	2 53	Scor	4		
273	30	M.	5	39	I	5	29	H	11	50	26	2 ¹ / ₄	2 ¹ / ₂	8 ^P _M 22	C	3 ^P _M 39	Sgr	5		

SEPTEMBER hath 30 days.

[1946



The echoing air returns the shouts and laughter,
The sun attends him, and the fields go bare
With giving gifts — and what will follow after
Is stillness on the unremembering air,
Is sun in mist, is fields unwandered in,
Forgetting how it was when he was there,
Before his way led off to barn and bin.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	F	11th S.a.Tr. St. Giles Baker Is. 1943	
2	M.	Labor Day. Tides {8.5 8.9	Now will the porcupines take their fill of the ripening apples and the deer munch the fine green beans we have tended so carefully. Now will the red fox look to the hen roost and the skunk rattle the lid of the garbage pail. In their wild hearts the coming of autumn is a hunger and a restlessness; for in the turn of the leaf, in the stronger, deeper scent of things in the cool twilights, in the dusty, harvest breathing noons, they can sense even now the coming of winter, the dead season when only the drifts will move.
3	Tu.	Huron Gulf & Buhan R. 1943 ♀ ♀. C Apo. {8.0 18.7	
4	W.	St. MOSES, Finland quit 1944 Tides {7.8 8.5	
5	Th.	Worst hay fever now C rides low. Tides {7.5 8.5	
6	Fr.	Yellow Day P.R.R. Wreck 1881 1943 Tides {7.5 8.7	
7	Sa.	London Blitz ♀ Gr. Hel. Lat. N. Tides {7.8 9.0	
8	F	13th S.a. ♀. Nat. of Gr. El. E. {8.2 9.4	
9	M.	As Maine goes so does Hol. not go the country Calif. {8.7 9.8	
10	Tu.	Comet Diamaca disc. 1913 Tides {9.2 10.2	
11	W.	Quebec Conf. 1944 Salamaua 1943 Tides {9.7 10.5	
12	Th.	N.E.'s "saddest day"—1674 Hol. Md. C on Ger. Inv. Eq. 1944 {10.1 10.7	
13	Fr.	♀ Aph. in Tides {10.6 10.5	
14	Sa.	Holy Cross Day ♂ ♀ Sup. Palau 1944 {10.6 10.7	
15	F	14th S.a. ♀. ☐ ⊙ ⊙ Taxes due {10.3 10.7	
16	M.	St. Euphemia. C in Perl. {9.9 10.5	
17	Tu.	St. Lambert. ♂ ⊙ ⊙ World's Fair Tumbidge, Vt. {10.8 10.5	
18	W.	Manchuria "Incident" 1941 Tides {8.9 10.0	
19	Th.	Finn-Russo arm. 1941 C runs high. {8.6 9.8	
20	Fr.	Old Ironsides Ich. 1797 ♂ ♀ C. Tides {8.5 9.7	
21	Sa.	N. E. Hurricane, 1938 St. Mathew. {8.7 9.9	
22	F	14th S.a.Tr. N. E. Hurr. 1815 Tides {9.0 10.1	
23	M.	AUTUMN BEGINS. ☉ on ☽. Tides {9.4 10.2	
24	Tu.	John the Baptist Conc. of ♂ ♀ ♀. Tides {9.8 10.8	
25	W.	C on Eq. ♂ ♂ ♀. ♂ ♀ C. ♂ ♀ C. {10.0 10.2	
26	Th.	Cyprian & Justina ♂ in ☽. Jewish New Year begins Stat. in R. A. {10.0 10.1	
27	Fr.	♂ ♀ C. ♂ ♂ C. R. A. {10.1 10.1	
28	Sa.	Fast of Gedakiah ♂ ♀ C. Am. Indian Day {9.6 9.9	
29	F	15th S.a.Tr. St. Michael & All Angels. {9.2 9.6	
30	M.	St. Jerome. War Time ends '45 Tides {8.7 9.8	

Oak apples will now tell you about next winter's weather.

1946]

OCTOBER, TENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	3s.	08	7	5	27	13	7	43	19	9	56	25	12	03	
2	3	31	8	5	50	14	8	06	20	10	17	26	12	24		
3	3	54	9	6	13	15	8	28	21	10	39	27	12	44		
4	4	18	10	6	35	16	8	50	22	11	00	28	13	05		
5	4	41	11	6	58	17	9	12	23	11	21	29	13	25		
6	5	04	12	7	21	18	9	34	24	11	42	30	13	44		

☽ First Quarter, 3rd day, 4 h. 53 m., morning, W.

☾ Full Moon, 10th day, 3 h. 40 m., evening, E.

☾ Last Quarter, 17th day, 8 h. 28 m., morning, W.

● New Moon, 24th day, 6 h. 32 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 Fuzl.	Full Sea. Boston. Morn. h. Even. h.	☽ Sets. h. m.	☽ Key	☽ Souths. h. m.	☽'s Place	☽'s Age
274	1	Tu.	5 40	J	5 27	H	11 47	26	3 3 ¹ / ₄	8 ^P _M 59	B	4 ^P _M 27	Sgr	7
275	2	W.	5 41	J	5 25	H	11 44	27	3 ³ / ₄ 4	9 44	A	5 17	Cap	8
276	3	Th.	5 42	J	5 24	H	11 41	27	4 ² / ₄ 5	10 35	B	6 07	Cap	9
277	4	Fr.	5 43	J	5 22	H	11 39	27	5 ³ / ₄ 5 ³ / ₄	11 ^P _M 34	B	6 58	Cap	10
278	5	Sa.	5 44	J	5 20	H	11 36	27	6 ² / ₄ 6 ³ / ₄	—	—	7 49	Aqr	11
279	6	S.	5 45	J	5 18	H	11 33	28	7 ¹ / ₂ 7 ³ / ₄	12 ^M 37	C	8 39	Aqr	12
280	7	M.	5 47	J	5 17	H	11 30	28	8 ¹ / ₄ 8 ¹ / ₂	1 44	D	9 28	Psc	13
281	8	Tu.	5 48	J	5 15	H	11 27	28	9 ¹ / ₄ 9 ¹ / ₂	2 53	F	10 16	Psc	14
282	9	W.	5 49	J	5 13	H	11 25	29	9 ² / ₄ 10 ¹ / ₄	4 ^M 04	H	11 05	Ari	15
283	10	Th.	5 50	J	5 12	G	11 22	29	10 ¹ / ₂ 10 ³ / ₄	rises	—	11 ^P _M 54	Ari	16
284	11	Fr.	5 51	K	5 10	G	11 19	29	11 ¹ / ₂ 11 ³ / ₄	5 ^P 57	F	—	—	—
285	12	Sa.	5 52	K	5 08	G	11 16	29	— 0	6 28	E	12 ^M 46	Tau	17
286	13	S.	5 53	K	5 07	G	11 13	30	0 ¹ / ₂ 0 ³ / ₄	7 03	C	1 40	Tau	18
287	14	M.	5 54	K	5 05	G	11 11	30	1 ¹ / ₄ 1 ¹ / ₂	7 46	A	2 37	G'm	19
288	15	Tu.	5 56	K	5 03	G	11 08	30	2 2 ¹ / ₂	8 39	A	3 38	G'm	20
289	16	W.	5 57	K	5 02	G	11 05	30	3 3 ¹ / ₄	9 39	A	4 39	Cnc	21
290	17	Th.	5 58	K	5 00	G	11 02	31	4 4 ¹ / ₂	10 47	A	5 40	Cnc	22
291	18	Fr.	5 59	K	4 59	G	11 00	31	5 ¹ / ₄ 5 ¹ / ₂	11 ^P _M 57	C	6 38	Leo	23
292	19	Sa.	6 00	K	4 57	G	10 57	31	6 ¹ / ₂ 6 ³ / ₄	—	—	7 32	Leo	24
293	20	S.	6 02	K	4 56	G	10 54	31	7 ¹ / ₂ 7 ³ / ₄	1 ^M 08	D	8 23	Vir	25
294	21	M.	6 03	L	4 54	F	10 51	31	8 ¹ / ₂ 8 ³ / ₄	2 17	F	9 10	Vir	26
295	22	Tu.	6 04	L	4 53	F	10 49	31	9 ¹ / ₄ 9 ³ / ₄	3 23	H	9 55	Lib	27
296	23	W.	6 05	L	4 51	F	10 46	32	10 10 ¹ / ₂	4 ^M 28	I	10 38	Lib	28
297	24	Th.	6 06	L	4 50	F	10 43	32	10 ³ / ₄ 11 ¹ / ₄	sets	—	11 ^A _M 21	Lib	29
298	25	Fr.	6 08	L	4 48	F	10 41	32	11 ¹ / ₄ 11 ³ / ₄	5 ^P 24	F	12 ^M 04	Scor	1
299	26	Sa.	6 09	L	4 47	F	10 38	32	11 ³ / ₄ —	5 50	D	12 48	Scor	2
300	27	S.	6 10	L	4 45	F	10 35	32	0 ¹ / ₂ 0 ¹ / ₂	6 20	C	1 34	Sgr	3
301	28	M.	6 11	L	4 44	F	10 33	32	1 1 ¹ / ₄	6 56	B	2 21	Sgr	4
302	29	Tu.	6 12	L	4 43	F	10 30	32	1 ³ / ₄ 1 ³ / ₄	7 37	A	3 10	Sgr	5
303	30	W.	6 14	L	4 41	E	10 28	32	2 ¹ / ₂ 2 ¹ / ₂	8 26	A	4 00	Cap	6
304	31	Th.	6 15	M	4 40	E	10 25	32	3 ¹ / ₄ 3 ¹ / ₄	9 ^P 21	B	4 ^P _M 50	Cap	7



The man sleeps now in his content . . .
 The rain that runs across the roof
 Is not a rain for him to hear,
 Nor will the longer lack of rain
 Trouble his dream with shapes of fear
 For acres where of late he went . . .
 The man will sleep in his content.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Tu.	St. Remigius. ♀ in ♂. ☾ in {8.2 Finschafen, 1943 ♂Ψ♂. Tides {8.9 <i>Keep</i>	<p>Potatoes should now be dug and all apples picked before the end of the month. There's no question it pays to get both into a suitable storage as soon as possible.</p> <p>The apple storage especially should not be too moist and should certainly have free circulation of air at all times. Without too much expense a permanent fan, or fans, can be installed. Nights will usually be crisp from now out, and it will pay to open the cellar to the cool night air and close it, with the fan going, a good part of the day. If the cellar is not rat-proof, you may as well not try storing. It takes only a few gnawed apples to ruin the lot in short order.</p> <p>Be well advised and use your own most careful judgment on the marketing of any large fall crop. Whether to sell all immediately, sell part and store part, or store all for a better market is the question. The safest practice is to sell a fair proportion immediately (certainly all that will not keep long) and plan to sell "lots" at intervals throughout the storage season. It's a real gamble to hang on to all till the very end. Markets are largely unpredictable — always. Last year's apple market, for instance, found storages full toward the end of the season when apples were selling for less than at harvest time.</p> <p>Not too late to cut brush, but have in mind that game birds like brushy corners, and save them what you can.</p>
2	W.	Ellice Is., 1942 ♂Ψ♂. Tides {7.8 Dec. arith. ☾ Tides {7.5	
3	Th.	inv. 1602 ☾ low. Tides {8.4 <i>umbrella</i>	
4	Fr.	St. Francis of Assisi. Alfred E. Smith {7.4 d. 1944 {8.3	
5	Sa.	Yom Gr. Hel. Day of Kippur ♀ Lat. S. Atonement Tides {7.6 {8.6	
6	F	17th S. a. ♀. Hol. Mo. Tides {7.9 {8.9 <i>handy</i>	
7	M.	Gale of Tides {8.5 1849 {9.8 <i>these days.</i>	
8	Tu.	Wendell Willkie Chicago Fire Tides {9.1 died 1944 1871 {9.8	
9	W.	St. Denis. Abraham Tides {9.7 {10.2 <i>High</i>	
10	Th.	Succoth. ♂ ♀ ♀. ☾ on Tides {10.3 Eq. {10.5 <i>winds.</i>	
11	Fr.	11000 ♀ in Aph. Formosa Raid {— Virgins 1944 {10.8	
12	Sa.	Columbus Day. Hol. Tides {10.7 Wis. & N. D. Tides {11.2	
13	F	17th S. a. Tr. ♂ Greatest ☾ in {10.6 ♂ Brilliance ☾ Peri. {11.3	
14	M.	Royal Oak torp. Tides {10.8 1939 {11.2	
15	Tu.	Ten days ♀ ♂ ☾. Tides {9.9 lost 1582 {10.8	
16	W.	☾ runs high Tides {9.4 {10.4 <i>Milder.</i>	
17	Th.	Sh'mini Azterath Tides {9.9	
18	Fr.	St. Luke. Little Summer ♂ ♀ ☾. Simchath Torah {8.6 {9.6	
19	Sa.	Barometer inv. Tides {8.6 1644 {9.4 <i>Expect</i>	
20	F	18th S. a. Tr. ♂ ♀ ♂. Leyte Gulf {8.8 1944 {9.4	
21	M.	Cumana quake Tides {9.1 1766 {9.5 <i>a good</i>	
22	Tu.	II Bat. Philippine Sea. 22-27th, 1944 ♂ Ψ ☾. End of World, 1844 {9.6 {9.6	
23	W.	World created on De Gaulle gov't {9.8 4004 B.C. ☾ Eq. rec. 1944 {9.6	
24	Th.	Beware of killing frosts Tides {10.0 {— <i>storm.</i>	
25	Fr.	St. Crispin. ♂ ♀ ☾. Tides {9.5 {10.0	
26	Sa.	Feast of Our Lord Jesus Christ ♂ ☾ ☾. Tides {9.3 {10.0	
27	F	20th S. a. ♀. Christ, Navy King Day ♂ ☾. Tides {9.0 {9.8	
28	M.	Simon Stat. in & Jude ♀ R.A. Tides {8.7 {9.6 <i>Colder.</i>	
29	Tu.	Hartford Courant founded 1764 ☾ in Tides {8.4 Apo. {9.2 <i>Fine.</i>	
30	W.	☾ rides {8.0 [31st ♂ ♀ ☾. Gr. El. low. {8.9 {9.0 {8.9 {9.7	
31	Th.	All Hallow's Eve. ♂ ♀ ♀. ♀ Gr. El. E. {8.6	

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NOVEMBER, ELEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /
	1	14s. 23		7	16 15	13	17 56	19	19 26	25
2	14 43		8	16 32	14	18 12	20	19 40	26	20 55
3	15 01		9	16 50	15	18 27	21	19 53	27	21 07
4	15 20		10	17 07	16	18 43	22	20 07	28	21 17
5	15 39		11	17 23	17	18 57	23	20 19	29	21 28
6	15 57		12	17 40	18	19 12	24	20 32	30	21 38

- ☽ First Quarter, 1st day, 11 h. 40 m., evening, W.
- ☾ Full Moon, 9th day, 2 h. 10 m., morning, W.
- ☾ Last Quarter, 15th day, 5 h. 35 m., evening, W.
- New Moon, 23rd day, 12 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	☉ Rises. h. m.	☉ Key	☉ Sets. h. m.	☉ Key	Length of Days. h. m.	Sun. Fast. m.	Full Sea. Morn. h. m.	Even. h. m.	☽ Sets. h. m.	☽ Key	☽ Souths. h. m.	☽ Place	☽'s Moon's Age
305	1	Fr.	6 16	M	4 39	E	10 22	32	4	4 ¹ / ₄	10 ^P _M 21	C	5 ^P _M 40	Aqr	8
306	2	Sa.	6 17	M	4 37	E	10 20	32	5	5 ¹ / ₄	11 ^P _M 25	D	6 29	Aqr	9
307	3	S.	6 19	M	4 36	E	10 17	32	6	6 ¹ / ₄	—	—	7 17	Psc	10
308	4	M.	6 20	M	4 35	E	10 15	32	6 ³ / ₄	7	12 ^A _M 32	E	8 05	Psc	11
309	5	Tu.	6 21	M	4 34	E	10 13	32	7 ³ / ₄	8	1 41	G	8 52	Ari	12
310	6	W.	6 22	M	4 32	E	10 10	32	8 ¹ / ₂	8 ³ / ₄	2 51	H	9 40	Ari	13
311	7	Th.	6 24	M	4 31	E	10 08	32	9 ¹ / ₄	9 ³ / ₄	4 04	J	10 31	Ari	14
312	8	Fr.	6 25	M	4 30	E	10 05	32	10	10 ¹ / ₂	5 ^A _M 20	L	11 ^M _M 24	Tau	15
313	9	Sa.	6 26	M	4 29	D	10 03	32	10 ³ / ₄	11 ¹ / ₄	rises	—	—	—	—
314	10	S.	6 27	N	4 28	D	10 01	32	11 ¹ / ₄	—	5 ^P _M 38	B	12 ^M _M 22	G'm	16
315	11	M.	6 29	N	4 27	D	9 58	32	0	0 ¹ / ₄	6 27	A	1 23	G'm	17
316	12	Tu.	6 30	N	4 26	D	9 56	32	1	1 ¹ / ₄	7 27	A	2 27	Cnc	18
317	13	W.	6 31	N	4 25	D	9 54	32	1 ³ / ₄	2	8 35	A	3 30	Cnc	19
318	14	Th.	6 32	N	4 24	D	9 52	32	2 ³ / ₄	3	9 47	B	4 32	Leo	20
319	15	Fr.	6 34	N	4 23	D	9 49	31	3 ³ / ₄	4 ¹ / ₄	10 ^P _M 59	D	5 29	Leo	21
320	16	Sa.	6 35	N	4 22	D	9 47	31	5	5 ¹ / ₄	—	—	6 21	Vir	22
321	17	S.	6 36	N	4 21	D	9 45	31	6	6 ¹ / ₂	12 ^A _M 09	F	7 09	Vir	24
322	18	M.	6 37	N	4 21	D	9 43	31	7 ¹ / ₄	7 ¹ / ₂	1 16	G	7 54	Lib	25
323	19	Tu.	6 39	N	4 20	D	9 41	31	8	8 ¹ / ₂	2 20	I	8 37	Lib	26
324	20	W.	6 40	N	4 19	C	9 39	30	9	9 ¹ / ₄	3 24	J	9 19	Lib	27
325	21	Th.	6 41	O	4 18	C	9 37	30	9 ³ / ₄	10	4 26	K	10 01	Scor	28
326	22	Fr.	6 42	O	4 18	C	9 35	30	10 ¹ / ₄	10	5 ^A _M 29	M	10 45	Scor	29
327	23	Sa.	6 43	O	4 17	C	9 34	30	10 ³ / ₄	11	sets	—	11 ^M _M 30	Sgr	30
328	24	S.	6 45	O	4 16	C	9 32	29	11 ¹ / ₄	11	4 ^P _M 55	B	12 ^M _M 16	Sgr	1
329	25	M.	6 46	O	4 16	C	9 30	29	—	0	5 34	B	1 05	Sgr	2
330	26	Tu.	6 47	O	4 15	C	9 28	29	0 ³ / ₄	0 ³ / ₄	6 20	A	1 55	Cap	3
331	27	W.	6 48	O	4 15	C	9 27	28	1 ¹ / ₄	1 ¹ / ₄	7 12	A	2 45	Cap	4
332	28	Th.	6 49	O	4 14	C	9 25	28	2	2	8 11	B	3 35	Aqr	5
333	29	Fr.	6 50	O	4 14	C	9 24	28	2 ³ / ₄	2 ³ / ₄	9 12	C	4 23	Aqr	6
334	30	Sa.	6 52	O	4 14	C	9 22	27	3 ¹ / ₂	3 ¹ / ₂	10 ^P _M 17	E	5 ^M _M 10	Aqr	7

NOVEMBER hath 30 days.

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Look where the last denuded tree
 Dreams neither back nor forward, now,
 Regretting nothing from the bough,
 And hoping nothing. . . Here you see
 The strict infinitive: to be.

D. M.	W. D.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Fr.	All Saints. ☐ h ☉. Lisbon quake 1775	7.6 8.4
2	Sa.	All Souls. 1st pub. Mass. Boston, 1788	Tides {7.5 Fine 8.3
3	F	20th S. a. Tr. St. Hubert. Mission Sunday	7.8 8.5
4	M.	Eugene Field d. 1895	Tides {8.2 then 8.8
5	Tu.	Fawkes Gen. Election Day	Tides {8.8 snow 9.2
6	W.	St. Leonard. ♂♂♂. ☾ on Eq.	Tides {9.5 9.6
7	Th.	North Africa invasion 1942	{10.2 flurries 10.0
8	Fr.	Prune your grapevines	Tides {10.9 and 10.8
9	Sa.	Tides {11.4	stormy
10	F	21st S. a. Tr. ☾ in Perl b. 1483	{10.5 Luther 11.6
11	M.	Armistice Day 1918	☽ Stat. in R.A. ☽☽☾ {10.4 11.7
12	Tu.	St. Martin. ☾ runs high.	Tides {10.2 11.5
13	W.	Tides {9.8 11.0	Indian
14	Th.	♂ h ☾. ♂ ♀ ♂. Tides {9.4 10.4	Summer
15	Fr.	King's Name Day C. E. Dallin Belgium d. 1944	Tides {9.1 9.9
16	Sa.	U.S.A. & U.S.S.R. est. rel. 1933	Tides {8.9 comes 9.4
17	F	23rd S. af. P. ♂♀ ☉ Inf.	{8.3 along 9.1
18	M.	1st heavy Berlin rald 1943	Tides {9.0 now. 9.0
19	Tu.	♂ ♀ ☾. ♀ in ♂. ☾ on Eq.	Tides {9.2 9.9
20	W.	Metz-Belfort h Stat. Tarawa 1944 in R.A. 1943	{9.4 Some 8.9
21	Th.	Pres. at temple ♂♀ ☉ Inf. ♂♀ ☾.	{9.5 real 8.5
22	Fr.	St. Cecilia. ♂ ♀ ☾. Tides {9.8 snow. 8.8	
23	Sa.	St. Clement. ☉ Partial Eclipse ♂♀ ☾.	Tides {9.8 9.8
24	F	23rd S. a. Tr. (S. bef. Ad.) ♀ in ♂♂☾.	
25	M.	St. Catherine ☾ in R.A. Ad. Tides {8.5 [24th 8.7 9.7 9.8	
26	Tu.	Eddystone Light dest. 1703	rides low. Tides {8.8 Bad 9.5
27	W.	The Portland sank 1898	Tides {8.2 storms 9.3
28	Th.	Thanksgiving. Tides {8.0 at 9.0	
29	Fr.	Horace Greeley d. died 1872	Tides {7.9 sea. 8.8
30	Sa.	St. Andrew. ♀ Stat. in R.A. ♀ in ♂. Tides {7.8 8.6	

You will be getting things snug and shipshape now about the farm—all comfortable for winter: mice in the attic, cricket on the hearth, wood in the shed, barn in good order.

Though better done earlier, keep putting out manure as long as you can. There will be plenty more come spring. It is not good husbandry to plough now, even if you can, as it is too late to sow a crop that will cover before winter, and you will only invite the leaching, washing, and blowing away of good soil. All land should have some cover at this time, even if it be but litter.

Cover your strawberries heavily with pine needles. See that mulch is not piled too close about your fruit trees. This invites rodent damage. If your climbing roses are in an exposed position, wrap them carefully in straw and burlap. Be sure roof gutters and drains are free and clear. Check your pumps and plumbing.

Try this method of getting that big boulder out of your pasture: Find an old piece of sheet metal, dig a pit down near the rock on one side, and start a small fire next the rock. Throw the metal over the fire and against the rock to keep the heat in. When the fire has burned a few hours, pound the heated side of the rock with a sledge hammer. Enlarge the seams that appear and before long you will have your boulder in easily moved pieces.

Quarter of a lemon squeezed into coffee cup removes "sleeplessness."

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DECEMBER, TWELFTH MONTH.

ASTRONOMICAL CALCULATIONS.

C's Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /																																												
	1	21s. 47	7	22 36	13	23 09	19	23 25	25	23 24	2	21 57	8	22 43	14	23 13	20	23 26	26	23 20	3	22 05	9	22 49	15	23 16	21	23 27	27	23 18	4	22 14	10	22 54	16	23 19	22	23 27	28	23 14	5	22 22	11	23 00	17	23 21	23	23 26	29	23 11	6	22 29	12	23 04	18	23 23	24	23 26	30

- ☽ First Quarter, 1st day, 4 h. 47 m., evening, E.
- ☾ Full Moon, 8th day, 12 h. 52 m., evening, E.
- ☾ Last Quarter, 15th day, 5 h. 57 m., morning, W.
- ☾ New Moon, 23rd day, 8 h. 06 m., morning E.
- ☽ First Quarter, 31st day, 7 h. 23 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 h. m.	☾ Key	☽ Sets h. m.	☽ Key	Length of Days h. m.	☀ Sun East m.	Full Sea. Boston. Morn h. Even	☽ Sets h. m.	☽ Key	☽ Souths. h. m.	☽ Place	☽ Moon's Age	
335	1	S.	6 53	O	4 13	C	9 21	27	4 1/2	4 1/2	11 ^P 23	F	5 ^P 57	Psc	8
336	2	M.	6 54	O	4 13	C	9 19	27	5 1/4	5 1/2	—	—	6 42	Psc	9
337	3	Tu.	6 55	O	4 13	C	9 18	26	6 1/4	6 1/2	12 ^M 30	H	7 28	Ari	10
338	4	W.	6 56	O	4 12	C	9 17	26	7	7 1/2	1 39	I	8 16	Ari	11
339	5	Th.	6 57	O	4 12	C	9 16	25	7 3/4	8 1/4	2 52	K	9 07	Tau	12
340	6	Fr.	6 58	P	4 12	B	9 14	25	8 3/4	9 1/4	4 07	L	10 01	Tau	13
341	7	Sa.	6 59	P	4 12	B	9 13	25	9 1/2	10	5 ^M 27	N	11 ^P 01	G'm	14
342	8	S.	7 00	P	4 12	B	9 12	24	10 1/4	11 1/4	rises	—	—	—	—
343	9	M.	7 00	P	4 12	B	9 11	24	11	11 1/2	5 ^M 08	A	12 ^M 05	G'm	15
344	10	Tu.	7 01	P	4 12	B	9 11	23	11 3/4	—	6 14	A	1 11	Cnc	17
345	11	W.	7 02	P	4 12	B	9 10	23	0 3/4	1	7 28	B	2 16	Cnc	18
346	12	Th.	7 03	P	4 12	B	9 09	22	1 1/2	1 3/4	8 43	C	3 17	Leo	19
347	13	Fr.	7 04	P	4 12	B	9 09	22	2 1/2	2 3/4	9 56	E	4 14	Leo	20
348	14	Sa.	7 05	P	4 13	B	9 08	21	3 1/2	3 3/4	11 ^P 06	G	5 05	Vir	21
349	15	S.	7 05	P	4 13	B	9 07	21	4 1/2	4 3/4	—	—	5 52	Vir	22
350	16	M.	7 06	P	4 13	B	9 07	20	5 1/2	6	12 ^M 13	H	6 36	Lib	23
351	17	Tu.	7 07	P	4 13	B	9 07	20	6 1/2	7	1 17	I	7 19	Lib	24
352	18	W.	7 07	P	4 14	B	9 06	19	7 1/2	8	2 19	K	8 01	Scor	25
353	19	Th.	7 08	P	4 14	B	9 06	19	8 1/4	9	3 22	L	8 43	Scor	26
354	20	Fr.	7 09	P	4 14	B	9 06	18	9	9 3/4	4 24	N	9 27	Scor	27
355	21	Sa.	7 09	P	4 15	B	9 06	18	9 3/4	10 1/4	5 26	O	10 13	Sgr	28
356	22	S.	7 10	P	4 15	B	9 06	17	10 1/2	10 3/4	6 ^M 26	F	11 01	Sgr	29
357	23	M.	7 10	P	4 16	B	9 06	17	11	11 1/4	sets	—	11 ^M 51	Cap	0
358	24	Tu.	7 11	P	4 16	B	9 06	16	11 3/4	—	5 ^P 07	A	12 ^P 41	Cap	1
359	25	W.	7 11	P	4 17	B	9 06	16	0 1/4	0 1/4	6 04	B	1 31	Cap	2
360	26	Th.	7 11	P	4 18	B	9 06	15	1	1	7 05	C	2 20	Aqr	3
361	27	Fr.	7 12	P	4 18	B	9 07	15	1 1/2	1 3/4	8 08	D	3 07	Aqr	4
362	28	Sa.	7 12	P	4 19	B	9 07	14	2 1/4	2 1/4	9 13	F	3 53	Psc	5
363	29	S.	7 12	P	4 20	B	9 08	14	3	3	10 18	G	4 38	Psc	6
364	30	M.	7 12	P	4 21	B	9 08	13	3 3/4	4	11 ^P 24	I	5 23	Ari	7
365	31	Tu.	7 13	P	4 21	B	9 09	13	4 1/2	5	—	—	6 ^M 08	Ari	8



It may have been a night like this
 With wind as sharp as this wind is,
 It may have been — for all we know —
 A snow as bitter as this snow,
 And tracks — a donkey's and a man's —
 Breaking, like ours, the white expanse
 That spread like this — it may have been —
 Between the stable and the inn.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	F	1st S. in Ad. Tides {7.9 8.5	Cold
2	M.	17 ships lost Bari, Italy, '43 Tides {8.2 8.6	and
3	Tu.	Civil War Stettinius succ. Greece, 1944 Hull, 1944 Tides {8.6 8.7	
4	W.	Grange fd. Gr. Hel. on 1867 Lat. N. Eq. Tides {9.2 9.0	
5	Th.	Int. Aviation Conf. 1-7, 1944 Tides {9.8 9.3	windy.
6	Fr.	St. Nicholas. ♀ Stat. in R. A. Tides {10.5 9.7	
7	Sa.	Pearl Har- St. Ambrose Hol. {11.1 bor, 1941 Del. {10.6	Milder.
8	F	2d S. in Ad. Immaculate Conception Ecl. {— 11.6	
9	M.	Tokyo quake {10.1 1944 {11.8 ♂♂♂ C. Peri.	
10	Tu.	C runs high. Tides {10.2 11.8 [9th ♀ Gr. El.	W.
11	W.	Cannibals on Boon Isl., Maine, 1710 ♂♂♂ Tides {10.0 11.5	
12	Th.	Sale of tires stopped 1941 ♂♂♂ Tides {9.8 11.0	
13	Fr.	St. Lucy. Tides {9.6 10.5	Gales
14	Sa.	King George VI b. 1895 Tides {9.8 9.8	now
15	F	3d S. in Ad. Bill of Rights 1791 Taxes due {9.1 9.3	
16	M.	Mindoro, on 1944 ♂♂♂ C. Eq. Tides {9.0 8.8	and
17	Tu.	Wreck of the Hesperus 1839 Tides {9.0 8.5	much
18	W.	Ember Days Channah. 18, 20, 21 Tides {9.1 8.3	
19	Th.	♂♂♂ C. Tides {9.2 8.3	colder.
20	Fr.	Geo. H. Moses d. 1944 Tides {9.4 8.2	
21	Sa.	St. Thomas. ♂♂♂ C. Forefather's Day Tides {9.5 8.1	
22	F	4th S. in Ad. WIN. On. V. C. in BEG. Apo. {— 9.6	
23	M.	Connie Mack ♀ Gr. ♂♂♂ C. {8.2 born 1862 Br. {9.6	Sleet
24	Tu.	Horse racing banned 1944 (23rd) C. low. Tides {8.2 9.6	some
25	W.	Christmas. Tides {8.2 9.5	rain
26	Th.	St. Stephen. Cape Gloucester 1943 Tides {8.2 8.4	or
27	Fr.	St. John. Tides {8.2 9.3	snow
28	Sa.	Holy Inn. or Childermas. ♀ in ♂. {8.2 9.1	
29	F	1st S. af. Ch. Tides {8.2 8.3	then
30	M.	Romain Rolland died 1944 Tides {8.4 8.7	cold.
31	Tu.	Inventory Day C on Eq. Tides {8.6 8.7	

As the hard bitterness of cold descends, the heart should warm to home fires and the family circle. Consider that growing girl and boy, and share with them their special bents and hobbies. You may be surprised at the clear-headed, practical wisdom of your younger generation and their gentle understanding of their parents. Companionship will teach you all something.

A warm toolhouse or shop is a mighty handy place just now and should be put to good use, for there are no end of things to mend—harness, screens, lawnmowers, and plenty to make. What about those bookshelves? Don't tinker with the clocks.

Have you poultry lights in the henhouse? Eggs bring a top price now, and the lights may nearly double your egg money. Let your dairy cows out now and then to get sunlight and fresh air. Have plenty of hay or, better yet, cornstalks scattered over the snow, to keep them busy.

If you have more apples than you can winter through, why not dry some? Peel, core, and slice the smaller apples. Then hang them on stout strings, necklace fashion, to dry in the kitchen. A good old-fashioned occupation that will pay you dividends in pies and apple sauce come summer.

Get the snow plough ready, settle up accounts, and, as Dickens said: "Reflect upon your present blessings of which every man has many; not on your past misfortunes, of which all men have some."

SCIENTISTS AT WORK

(Courtesy Experiment Station Record—U. S. Department of Agriculture)

Christmas tree test, R. B. PATON (*Ohio Sta. Bimo. Bul. 231 (1944)*, pp. 257-259).—Norway spruce brought into a room held at 68°-70° F. began to drop their needles in less than 14 days in nearly all cases, while comparable trees with their cut ends in water retained their needles an average of 21.9 days. Shellac treatment of the butts had no benefit on durability.

Trials in producing forcing roots of lily-of-the-valley, W. D. HOLLEY. (N. H. Expt. Sta.). (*Florists Exch. and Hort. Trade World, 103 (1944)*, No. 17, pp. 12, 13, illus. 3).—The possibility of producing in southeastern New Hampshire lily-of-the-valley roots of high forcing quality was demonstrated. Fertile well-drained soil such as is used in vegetable production was found suitable, and with the selection of proper strains there can be produced a high percentage of high quality marketable flowers.

Sawdust, seaweed, and meadow hay as mulch for McIntosh apple trees, L. P. LATIMER and G. P. PERCIVAL. (Univ. N. H.). (*Amer. Soc. Hort. Sci. Proc.*, 44 (1944), pp. 49-52).—Because the majority of New Hampshire apple orchards are grown on hillsides where cultivation is difficult or impractical and with inadequate grass cover for mulching there is need of outside mulching material. Comparisons were made of sawdust, seaweed, and meadow hay as mulching materials for young McIntosh apple trees. Hay and seaweed were outstanding with respect to yield and size of fruit. Color of fruit was better on the sawdust and sod plots, but the fruit on the hay and seaweed plots was sufficiently colored to meet the requirements for fancy grade. The pressure tester did not show any difference in maturity attributable to treatments. Quackgrass grew readily up through the sawdust, only slightly through hay, and not at all through seaweed.

Sunflowers as a crop, K. J. KUCINSKI and W. S. EISIENMENGER (*Massachusetts Sta. Bul. 415 (1944)*, pp. 8, illus. 5).—The crop may be grown in Massachusetts on any soil, preferably a light loam, which will produce corn and has similar cultivation requirements. Practices found productive include use of 400-500 lb. per acre of corn fertilizer as 5-10-5, 5-8-7, or 3-12-6 in hills, or twice as much broadcast; planting 5-7 lb. of seed per acre—one seed 1 in. deep, 18 in. apart in 3 ft. rows—about corn planting time, a good variety as Mammoth Russian, cutting off the heads September 16-30, and drying on boards or dry ground about 2 weeks. Seed yields should average 1 ton per acre in Massachusetts, although as much as 2 tons per acre has been obtained in station tests. Up to 19 tons of silage were made per acre, comparable with corn. Sunflowers have had no effects on the soil detrimental to following crops even with tobacco, very sensitive to preceding crop, in experiments in the Connecticut Valley. Sunflower stalks chopped fine with a silage cutter made very good litter for poultry.

A way to save milk in raising calves, N. N. ALLEN (*Vermont Sta. Pam. 11 (1944)*, pp. 3).—Storing of colostrum in a frozen condition and its use as a substitute for normal milk in calf feeding is recommended. The colostrum should be frozen in amounts sufficient for 1 day's feed. If packed in sawdust on the north side of a building it will remain solid in Vermont throughout the winter.

Cost and practices in producing potatoes in southern Aroostook County, Maine, 1941, W. E. SCHRUMPF (*Maine Sta. Bul. 432 (1944)*, pp. 233-272+, illus. 2).—Data for the 1941 season were gathered by a survey of 172 farms in 17 towns.

The farms averaged 171 acres, of which 84 were in cropland, 25 being in potatoes; 96 per cent of the farms had dairy cows, averaging 5 per farm. Other animal units averaged 3.5. Production cost of potatoes averaged \$154 per acre and \$1.41 per barrel, of which growing costs were 63 per cent, harvesting costs 11, storage 23, and selling 3 per cent. Cost of production of potatoes averaged \$167 per acre or \$1.70 per barrel on farms with less than 15 acres of potatoes, and \$149 or \$1.34 on those with 30 acres or more.

The New Hampshire for broiler production (*Arkansas Sta. Bul.* 453 (1944), pp. 26-27).—At 12 weeks of age groups of 100 chicks each of different breeds were found to average in weight as follows: Barred Plymouth Rock 2.35 lb., New Hampshire 2.75, Barred Plymouth Rock × New Hampshire 3.05, and New Hampshire × Barred Plymouth Rock 3.25 lb. The last group required 3.4 lb. of feed per 1 lb. of gain, whereas 4 lb. of feed was required by chicks of the reciprocal cross and by the New Hampshire chicks and 4.5 lb. by Barred Plymouth Rock chicks.

Disposal of garbage through a septic tank. W. H. SHELDON (*Michigan Sta. Quart. Bul.*, 27 (1944), No 2, pp. 202-204, illus. 2).—The introduction of garbage into a septic tank through an 8-in. tile as a means of disposal was begun experimentally in December 1939 and has continued to date. This method of garbage disposal has provided the convenience of a covered garbage receptacle and the advantages of deep burial, immediate disposal, and return of its fertilizer value to the soil. The drop tube into the septic tank served as a quick and convenient means for the disposal of dead poultry or small animals and the wastes from slaughtering poultry and rabbits.

It was found that during the warm weather the drop tube needs to be flushed with water twice a week to reduce the odors common to garbage containers. The suggestion is made that when mechanical garbage grinders are again available, they can be used to good advantage for introducing garbage into the sanitary plumbing system from which it will flow into the septic tank without a special opening into the tank itself.

A relationship of square feet of floor space per bird and egg production. E. HOFFMANN and A. E. TOMHAVE. (Del. Expt. Sta.) (*Poultry Sci.*, 24 (1945), No. 1, pp. 89-90).—New Hampshire pullets that were allowed as little as 2.76 sq. ft. of floor space per bird laid 105 and 112 eggs in 1 yr., whereas birds having 3.7 or 4.65 sq. ft. of floor space per hen produced an average of about 130 eggs or over per hen. The six pens consisted of 40-66 pullets each.

Distance to which thunder can be heard. D. E. PAGE, R.C.A.F. Station, Pennfield Ridge, N. B.—Several texts on meteorology state that thunder cannot normally be heard more than 15 miles from its source. During the past summer, thunder was plainly audible on one occasion from a storm about 25 miles to the NNW of this station.

The observer at the lookout stated that it was a particularly heavy storm; this might account for that fact that the thunder was audible a greater distance than usual.

DISCUSSION

Several notes on "The audibility of thunder" have been collected in the *Monthly Weather Review*, Mar., 1920, v. 48, p. 162. C. F. Brooks reports one of 29 mi.; C. J. P. Cave, one of 39 mi., and C. Veenema, two of more than 61 miles. On the other hand Capt. Ault, of the *Carnegie* reported that a thunderstorm at sea became inaudible beyond a distance of 5 mi.

Storage for apples. W. T. PENZER (*U.S. Dept. Agr., F. W. Allen—U. of Cal.*).—Apples, both before and after harvest, constantly take in oxygen and give off carbon dioxide, a respiration process. The apple, therefore, should be considered a living organism, with life processes. When removed from the tree it is cut off from its source of food supply, but respiration continues. The apple then lives by gradual utilization of a part of its stored food. Although this supply of stored food ordinarily is not used up, the starch, sugar, and acid constituents of the apples gradually change in storage until the life processes cease, and the apple becomes 'dead' and no longer edible. The most effective and practical method of arresting these undesirable changes is to subject the fruit to a temperature as low as possible without freezing it. "The function of cold storage in holding fruit in its fresh state is not to stop the life processes, but only to reduce the rate at which they take place. Where uniform temperature can be held, 30° to 31° F. is recommended for longest holding of most varieties. In general, apples will keep about 25 per cent longer at 30° than at 32° F."

1945-6 GAME LAWS

Open seasons include both dates. "Rabbit" includes hare; "quail" includes "partridge" in South; "grouse" includes Canada grouse, sharptailed, ruffed (known as partridge in North and pheasant in South) and all other members of family, except prairie chickens, ptarmigan and sage hens. VERIFY these tables — we can not guarantee them.

♂ males only. †Local exceptions. ° Last year's laws.

State and Species	Seasons	Limits, Season	State and Species	Season	Limits, Season
Alabama [°]			Delaware		
Deer	Nov. 20-Jan. 10 † ♂	3	Rabbit	Nov. 15-Dec. 31	
Rabbit	Oct. 1-Feb. 20		Squirrel	Sept. 15-Nov. 1	
Squirrel	(N-Oct. 1-Jan. 1		Quail	Nov. 15-Dec. 31	
Quail	(S, Nov. 1-Jan. 31		Pheasant	Nov. 15-Dec. 31 ♂	6
Turkey	(Nov. 20-Feb. 20				
	(Nov. 20-Jan. 1 † ♂	5	Florida [°]		
	(Mar. 20-Apr. 15 † ♂		Deer	Nov. 20-Dec. 31 † ♂	2
Alaska			Squirrel	Nov. 20-Feb. 15 †	
Deer	Sept. 1-Nov. 15 † ♂	2 †	Quail	Nov. 20-Feb. 15 †	
	(N-Sept. 1-Oct. 15 ♂		Grouse, pheasant	No open season	
Moose	Dec. 1-Dec. 15	1	Turkey	Nov. 20-Feb. 15 †	5
	(S-Nov. 16-Dec. 15 ♂				
Bear	Sept. 1-June 20	2 †	Georgia		
Caribou	(Aug. 20-Sept. 30 †	2 †	Deer	Oct. 15-Jan. 15 † ♂	2
	(Dec. 1-Dec. 15 †	2	Bear	Nov. 20-Feb. 28 †	
Mountain goat	Sept. 1-Oct. 31		Squirrel	Sept. 15-Jan. 15 †	
Mountain Sheep	Aug. 20-Sept. 5 ♂ †		Quail	Nov. 20-Feb. 28	
Grouse	Aug. 20-Feb. 28 †		Grouse	Nov. 20-Jan. 15	
Ptarmigan	Aug. 20-Feb. 28 †		Turkey	Nov. 1-Feb. 28 †	2
			Rabbit	No closed season	
Arizona [°]			Idaho		
Deer	{ N-Oct. 16-Nov. 15 ♂	1	Deer, elk	Local seasons	1
Bear	{ S-Nov. 1-Nov. 30 † ♂	1	Antelope	Local seasons	
Rabbit	{ Oct. 16-Nov. 15 †	1	Bear	Jan. 1-Dec. 31 †	1
Abert Squirrel	{ Nov. 1-Jan. 31 †		Goat	Local seasons	1
Quail	{ Oct. 16-Nov. 15 †		Sheep	No open season	
Turkey	{ Nov. 16-Nov. 30 †	2	Quail (Bob-		
	{ Oct. 16-Nov. 15 †		white)	Local seasons	
			Quail (others)	Local seasons	
Arkansas			Hun. partridge	Local seasons	
Deer	{ Nov. 12-Nov. 17 ♂ †	1	Sage hen	Local seasons	
	{ Dec. 10-Dec. 15 ♂ †		Pheasant	Local seasons	
Squirrel	{ May 15-June 15 †				
Quail	{ Oct. 1-Jan. 1 †		Illinois		
Turkey	{ Dec. 1-Jan. 31	2	Rabbit	Nov. 11-Jan. 31	
	{ Apr. 1-Apr. 15 ♂		Squirrel	Aug. 15-Nov. 15 †	
			Quail	Nov. 11-Dec. 11	
			Pheasant	Nov. 11-Nov. 20 †	
California			Indiana		
Deer	Aug. 1-Oct. 15 ♂ †	2 †	Rabbit	Nov. 10-Jan. 10	
Antelope			Squirrel	Aug. 10-Oct. 8	
Bear	Sept. 8-Sept. 17 ♂	1	Quail	Nov. 10-Dec. 20	
Rabbit	Oct. 15-Dec. 31 †	2	Pheasant	Dates not set	
Quail	Dates not set		Hun. partridge	Nov. 10-Dec. 20	
Pheasant	Dates not set				
			Iowa		
Colorado			Rabbit	Aug. 1-Mar. 1	
Deer	Oct. 6-Nov. 21 † ♂	†	Squirrel	Sept. 15-Nov. 15	
Elk	Oct. 6-Nov. 21 † ♂	†	Pheasant	Oct. 28-Oct. 30 † ♂	
			Quail	Nov. 1-Nov. 30	
Bear	Oct. 6-Nov. 21	†	Hungarian		
Quail	Nov. 8-Dec. 16		partridge	Nov. 12-Nov. 14 †	
Sage grouse	Sept. 1				
Pheasant	Nov. 8-Dec. 16		Kansas		
Rabbit	Oct. 1-Feb. 1		Squirrel	June 15-Nov. 30	
			Quail	Intermittent	
Connecticut			Pheasant	Nov. 1-Nov. 5 † ♂	25
Rabbit	Nov. 1-Dec. 31	30			
Squirrel	Oct. 20-Nov. 24	30			
Quail	Dates not set	18			
Pheasant	Oct. 20-Nov. 24	15			
Grouse	Oct. 20-Nov. 24	15			

Kentucky Rabbit Squirrel Quail Ruffed Grouse	Nov. 10-Dec. 31 {Aug. 1-Sept. 15 Nov. 24-Dec. 31 Nov. 10-Dec. 31 Dec. 1-Dec. 15	10	Montana Deer Bear Elk Goat Grouse Quail, turkey Sage hen Hun. partridge Pheasant	Oct. 15-Nov. 15† ♂ Apr. 15-Nov. 15† Oct. 15-Nov. 15† Local seasons†	1 1 1 1
Louisiana Deer Bear Rabbit Squirrel Quail Turkey	Nov. 15-Jan. 1 Nov. 1-Jan. 1 Oct. 1-Mar. 1 Oct. 1-Jan. 15 Dec. 1-Feb. 20 Apr. 1-Apr. 15 ♂	2 5 120 120 1	Nebraska ^o Rabbit Squirrel Pheasant	No closed season Oct. 15-Dec. 31 Oct. 14-Jan. 1†	
Maine Deer Bear Rabbit Squirrel Pheasant Grouse	Oct. 21-Nov. 30† No closed season Oct. 1-Feb. 25† Oct. 1-Oct. 31 Nov. 1-Nov. 15 Oct. 1-Nov. 15	1 12	Nevada Deer Rabbit Quail Pheasant	Oct. 1-Nov. 14 ♂ Nov. 1-Dec. 31† Oct. 15-Oct. 29	1
Maryland Deer Rabbit Squirrel Quail Grouse Pheasant Turkey	Dec. 3-Dec. 8† ♂ Nov. 15-Dec. 31† Nov. 15-Dec. 31† Nov. 15-Dec. 31† Nov. 15-Dec. 31† Nov. 15-Dec. 31† ♂ Nov. 15-Dec. 31†	1 6 6 6 1	New Hampshire Deer Bear Rabbit, hare Squirrel Quail Grouse Pheasant	Oct. 15-Dec. 21† No closed season Oct. 1-Feb. 15 Oct. 1-Nov. 1 Oct. 1-Oct. 31 Oct. 1-Dec. 1 Oct. 15-Nov. 16 ♂†	1 25 10
Massachusetts Deer Rabbit, hare Squirrel Quail Grouse Pheasant	Dec. 3-Dec. 8† Oct. 20-Feb. 15† Oct. 20-Nov. 20 Dates not set Dates not set Dates not set	1 15 20 15 6 ♂	New Jersey Deer Rabbit, squirrel Quail Grouse Pheasant	Dec. 17-Dec. 21 ♂ Nov. 10-Dec. 15 Nov. 10-Dec. 15† Nov. 10-Dec. 15 Nov. 10-Dec. 15 ♂	1 30
Michigan Deer Deer (bow & arrow) Bear Rabbit Squirrel Grouse, prairie chicken Pheasant Woodchuck	Nov. 15-Nov. 30† Oct. 1-Nov. 5 Nov. 15-Nov. 30† {U-Oct. 1-Mar. 1 L-Oct. 15-Jan. 31† L-Oct. 15-Nov. 5 {U-Oct. 1-Oct. 20† L-Oct. 15-Nov. 5† L-Oct. 15-Nov. 5† L-Oct. 15-Jan. 31	1 1 1 50 50 25 25 25 8	New Mexico Deer Elk Bear Antelope Blue grouse Turkey Squirrel	Nov. 10-Nov. 21† ♂ Nov. 10-Nov. 21† ♂ Nov. 10-Nov. 21† Shooting by permit† ♂ Sept. 22-Sept. 25 Nov. 10-Nov. 21† Nov. 10-Nov. 21	1 1 1† 5 2 5
Minnesota ^o Deer (Bow and Arrow) Deer Bear Squirrel Quail Pheasant Hun. partridge	Oct. 16-Nov. 1† Nov. 15-Nov. 25† No closed season Oct. 15-Dec. 31 Oct. 28-Nov. 12† Oct. 28-Nov. 12 ♂ Oct. 21-Oct. 27†	1 1	New York Deer Bear Rabbit Squirrel Quail Grouse Pheasant	Oct. 20-Nov. 20† ♂ Oct. 20-Nov. 20† Oct. 15-Jan. 31† Oct. 15-Nov. 15 No open season {Dates not set " " " " " "	1 1 15 15 4
Mississippi Deer Bear Rabbit Squirrel Quail Turkey	{Nov. 20-Dec. 1† Dec. 20-Jan. 1† No open season Same as Game Local seas. 5 zones Dec. 10-Feb. 20† Apr. 1-Apr. 20 ♂	1 1	Long Island Rabbit, squirrel Quail Grouse Pheasant	Nov. 1-Dec. 31 Nov. 1-Dec. 31 Nov. 1-Dec. 15 Nov. 1-Dec. 31 ♂*	40 15 30
Missouri Deer Squirrel Quail Pheasant Rabbits, groundhogs	Nov. 2-Nov. 3† ♂ May 30-Oct. 31 Nov. 10-Dec. 30 Nov. 10-Dec. 31† Jan. 1-Oct. 31	1	North Carolina ^o Deer Bear Rabbit Squirrel Quail Grouse Turkey Russian boar	Oct. 1-Jan. 1† ♂ Oct. 1-Jan. 1† Nov. 25-Feb. 10 Oct. 1-Jan. 15† Nov. 25-Feb. 10† Nov. 25-Jan. 1 Nov. 25-Feb. 10† Oct. 15-Jan. 1†	3 2 150 10 3 2
			North Dakota ^o Grouse (All) Pheasant Hun. partridge	Sept. 20-Oct. 15 Sept. 20-Dec. 31† Sept. 20-Dec. 15	20 20 20

Ohio Deer Rabbit Squirrel Pheasant Hun. partridge Grouse	Dec. 3-Dec. 8† ♂ Nov. 16-Jan. 12 Sept. 15-Oct. 1 Nov. 16-Dec. 1 Nov. 16-Dec. 1 Nov. 16-Dec. 1	2	Utah Deer Elk (By permit) Grouse, sage hen, prairie chicken {Pheasant Quall	Oct. 21-Oct. 31† ♂ No open season Nov. 4-Nov. 8	1 1 3†
Oklahoma Squirrel Quall	May 15-Dec. 31 Intermittent†		Vermont Deer Squirrel Rabbit Quall Grouse Pheasant Bear	Nov. 10-Nov. 20† ♂ Oct. 1-Oct. 31 Oct. 1-Feb. 28 Oct. 1-Oct. 31 Oct. 1-Nov. 9 Oct. Sat. & Wed. ♂ June 1-Dec. 31	1 25 25 4
Oregon Deer Elk Antelope Squirrel Quall Blue grouse Pheasant Hun. partridge	Sept. 29-Oct. 28 ♂† Nov. 3-Nov. 25 ♂† Sept. 22-Sept. 30† Sept. 15-Oct. 20† Oct. 13-Nov. 4† Oct. 13-Oct. 28† Oct. 13-Nov. 4† Oct. 13-Nov. 4†	1 1 1 1 4 6	Virginia Deer Bear Elk Rabbit Squirrel Quall Grouse Pheasant Turkey	Nov. 20-Jan. 5† ♂ Nov. 20-Jan. 5† Nov. 13, 14, 15 Nov. 20-Jan. 20† {Sept. 15-Sept. 30 Nov. 20-Jan. 20 Nov. 20-Jan. 20†	1 1 1 75 75 125
Pennsylvania Deer Bear Rabbit Squirrel Quall Ruffed grouse Pheasant Turkey Hun. partridge Woodchuck	Dec. 1-Dec. 15 ♂ Nov. 26-Nov. 29 Nov. 1-Nov. 30 Nov. 1-Nov. 30 Nov. 1-Nov. 30 Nov. 1-Nov. 30 ♂ Nov. 1-Nov. 30 Nov. 1-Nov. 30 Nov. 1-Nov. 30 July 1-Sept. 30	1 1 25 24 12 8 8 1 8	Washington Deer Bear Elk Rabbit Grouse Quall Pheasant Hungarian partridge	Oct. 8-Nov. 5† ♂ Oct. 29-Nov. 5† Nov. 5-Nov. 19† ♂ Oct. 15-Feb. 28† Oct. 8-Nov. 1†	1 1 1 15 20† 4†
Rhode Island Rabbit Hare Squirrel Quall Grouse Pheasant	Nov. 1-Dec. 31† Nov. 1-Dec. 31 Nov. 1-Dec. 31 Nov. 1-Dec. 31 Nov. 1-Dec. 31† Nov. 1-Dec. 31 ♂		West Virginia Deer Rabbit Squirrel Quall Grouse Turkey Bear Woodchuck Pheasant	Oct. 15-Nov. 26†	
South Carolina Deer Rabbit Squirrel Quall Turkey	Aug. 15-Jan. 1† ♂ Sept. 1-Mar. 1† Sept. 1-Mar. 1† Nov. 23-Mar. 1† Nov. 22-Mar. 1† ♂	5 20	Wisconsin Deer Deer (bow & arrow) Bear Bear (Bow & arrow) Rabbit Squirrel Grouse Pheasant Hun. partridge Quall	Dec. 4-Dec. 9† ♂ Nov. 11-Jan. 15 Oct. 12-Nov. 25 Nov. 11-Dec. 25 Oct. 12-Dec. 25 Oct. 12-Nov. 25 Nov. 27-Dec. 2 July 1 Dec. 31† Nov. 11-Nov. 18† ♂	1 40 24 35 12 1 1 3
South Dakota Deer Grouse, prairie chicken Pheasant Hun. partridge	Nov. 1-Nov. 20† ♂ Sept. 20-Oct. 19† Sept. 20-Jan. 17† Sept. 20-Oct. 19†	1	Tennessee Deer Bear Rabbit Squirrel Quall Grouse Wild boar	Nov. 25-Nov. 30† ♂ Nov. 7-Nov. 19† Oct. 1-Nov. 30† Oct. 17-Nov. 19† Oct. 21-Feb. 15† Oct. 21-Dec. 5 Sept. 30-Nov. 5† Oct. 21-Nov. 5† Nov. 1-Nov. 5†	1 1 1 1 1 1 1 2
Texas Deer Bear Peccary Squirrel Quall Turkey	Nov. 16-Dec. 31† ♂ Nov. 16-Dec. 31 Nov. 16-Dec. 31† {Oct. 1-Dec. 31† {May 1-July 31† Dec. 1-Jan. 16† Nov. 16-Dec. 31† ♂	2† 1 2 3	Wyoming Deer Moose Elk Bear Sheep Antelope Pheasant	Local season† ♂ Local seasons ♂ Local seasons ♂ Local seasons Local seasons† ♂ Local seasons† Nov. 4-Dec. 9† ♂	1 1 1 1 1 1 2

MIGRATORY GAME BIRD LAWS — 1945-1946

DUCK, GOOSE, BRANT AND COOT

Northern Zone, Sept. 20-Dec. 8 — Iowa, Maine, Michigan, Minnesota, Montana, New Hampshire, New York (Essex, Clinton and Washington Cos. east of D. & H. R. R. and waters of South Bay only), North Dakota, Ohio (except Pymatuning Reservoir), South Dakota, Vermont, Wisconsin.

(Scoters or sea coots may also be taken in open coastal waters of Maine and New Hampshire from Sept. 15 to Sept. 19, and in those of New York, Connecticut, Massachusetts and Rhode Island, Sept. 15-Oct. 12.)

Intermediate Zone, Oct. 13-Dec. 31 — California (Modoc, Lassen, and Siskiyou Cos. only), Colorado, Connecticut, Idaho, Illinois, Indiana, Kansas, Kentucky, Massachusetts, Missouri, Nebraska, Nevada, New Jersey, New York, Ohio (Pymatuning Reservoir only), Oklahoma, Oregon, Rhode Island, Utah, Washington, West Virginia, Delaware, Pennsylvania, Wyoming.

Southern Zone, Nov. 2-Jan. 20 — Alabama, Arizona, Arkansas, California, (Modoc, Lassen, and Siskiyou Cos. only), Florida, Georgia, Louisiana, Maryland, Mississippi, New Mexico, North and South Carolina, Tennessee, Texas and Virginia.

Alaska — Two zones: Sept. 1-Nov. 19 and Sept. 21-Dec. 9.

Puerto Rico — Dec. 15-Feb. 12.

WOODCOCK

Ark., Okla. — Dec. 1-Dec. 15; Conn., Mass., N. J. — Oct. 20-Nov. 3; Del., Md. — Nov. 15-Nov. 29; Ga., La., Miss. — Dec. 15-Dec. 29; Ind., Va. — Oct. 16-Oct. 30; Maine (Aroostook, Penobscot, Piscataquis, Somerset, Franklin and Oxford Cos.) — Oct. 1-Oct. 15; rest of Maine — Oct. 16-Oct. 30; Michigan (Upper Peninsula) — Oct. 1-Oct. 15; rest of Michigan — Oct. 15-Oct. 29; Minn., Ohio, Penn., Wis. — Oct. 10-Oct. 24; Mo. — Nov. 10-Nov. 24; N. H. (Coos, Carroll and Grafton Cos.) — Oct. 1-Oct. 15; rest of N. H. — Oct. 16-Oct. 30; N. Y. (northern) — Oct. 10-Oct. 24; N. Y. (southern) — Oct. 15-Oct. 29; Long Island — Nov. 1-Nov. 15; R. I. — Nov. 1-Nov. 15; Vt. (Bennington and Windsor Cos. south of Highway 4) — Oct. 16-Oct. 30; rest of Vermont — Oct. 1-Oct. 15; Virginia — Nov. 20-Dec. 4.

RAIL AND GALLINULE

Sept. 1-Nov. 30, except as follows: Alabama — Nov. 20-Jan. 31; Louisiana — Sept. 16-Dec. 15; Maine and Wisconsin — Sept. 20-Dec. 8; Massachusetts and New York — Oct. 15-Dec. 31; Minnesota — Sept. 16-Nov. 30; Puerto Rico — Dec. 15-Feb. 12; Maryland — Sept. 1-Oct. 31; Mississippi — Oct. 15-Dec. 30.

No open season in California; District of Columbia, Hawaii, Idaho, Iowa, Montana, Nevada, Oregon, Tennessee and Washington.

MOURNING DOVE

Ariz., Calif., Kan., Mo., Okla. — Sept. 1-Oct. 30; Ark., Miss. — Sept. 16-Sept. 30 and Dec. 18-Jan. 31; Col., Nev., N. M. — Sept. 1-Oct. 12; Del. and Tenn. — Sept. 16-Nov. 14; Fla. (Dade and Monroe Cos.) — Oct. 1-Oct. 31; rest of Florida — Nov. 20-Jan. 15; Idaho and Ore. — Sept. 1-Sept. 15; Ill. — Sept. 1-Sept. 30; Ky. — Sept. 1-Oct. 25; Minn. — Sept. 16-Sept. 30; N. C. and S. C. — Sept. 16-Oct. 15 and Jan. 2-Jan. 31; Penna. — Nov. 1-Nov. 30; Texas (Val Verde, Edwards, Real, Bandero, Kendall, Blanco, Burnet, Williamson, Milan, Robertson, Leon, Houston, Cherokee, Nacogdoches and Shelby Cos. and all cos. north and west) — Sept. 1-Oct. 30; rest of Texas except Cameron, Hidalgo, Starr, Zapata, Webb, Maverick, Kinney, Dimmit, LaSalle, Jim Hogg, Brooks, Kenedy and Willacy Cos. — Oct. 20-Dec. 18; in excepted cos. above — Sept. 13, 16, 18, 20 and 23, noon to sunset and Oct. 20-Dec. 13 ½ hour before sunrise to sunset; Virginia — Sept. 16-Oct. 31.

WHITE-WINGED DOVE

Arizona — Sept. 1-Sept. 15. Texas — in Cameron, Hidalgo, Starr, Zapata, Webb, Maverick, Dimmit, LaSalle, Jim Hogg, Brooks, Kenedy, Willacy, Val Verde, Terrell, Brewster, Presidio, Jeff Davis, Culberson, El Paso Counties — Sept. 13, 16, 18, 20, 23, noon to sunset.

BAND-TAILED PIGEON

Arizona, Colorado, New Mexico, Washington — Sept. 16-Oct. 15; California — Dec. 1-Dec. 30; Oregon — Sept. 1-Sept. 30.

BAG LIMITS. Ducks — 10 in aggregate of all kinds including not more than 1 wood duck. Possession limit 20 in the aggregate of all kinds, but not more than 1 wood duck. Geese and brant, 2 but not including blue, snow or white-fronted geese, and in addition (A) 4 singly or in the aggregate of snow and white-fronted geese in the Pacific Coast States or (B) 4 singly or in the aggregate of blue and snow geese elsewhere than Pacific Coast States. Possession limit 4 geese, including brant, but not including blue, snow or white-fronted geese and in addition, not more than 3 singly or in the aggregate blue, snow or white-fronted geese. In Alexander County, Ill., geese may be taken only from one-half hour before sunrise until noon.

Coot and sora, 25 singly or in aggregate, daily and possession. Rail and gallinule 15 in aggregate; 15 possession. Woodcock 4; 8 in possession. Mourning and white-winged doves, 10 in aggregate; possession mourning doves 10, white-winged 10. Band-tailed pigeons 10; possession 10.

RESTRICTIONS. Closed season on jacksnipe, Ross's geese and swans; on snow geese in states bordering the Atlantic Coast, in Idaho, and in Beaverhead, Gallatin and Madison Counties, in Montana, on wood duck in Massachusetts and North Dakota. Live decoys, baiting, and use of live-stock as "blinds" prohibited. Migratory waterfowl may be taken with bow and arrow, or with shotgun not larger than 10-gauge, and not capable of holding more than 3 shells. All waterfowl, coot, rails, gallinule, woodcock, mourning and white-winged doves and band-tailed pigeons may be taken from one-half hour before sunrise to sunset. Federal duck stamp required of all waterfowl hunters over 16 years. Migratory birds may be retained for 45 days following close of season in state where killed.

POETRY, ANECDOTES AND PLEASANTRIES

EASY DOES IT

Father: I am so excited. Quick, quick! Tell me, nurse, is it a boy or a girl?

Nurse: Well, Mr. Brown, the one in the middle is a boy.

Good Things

MORE EPITAPHS

On the tomb of a Liverpool brewer:

Poor John Scott lies buried here,
Although he was both hale and stout,

Death stretched him on the bitter bier;

In another world he hops about.

In the cemetery at North Stratford, N. H.:

Frecm, the husband of Mary, for her faults, blame him, for her virtues, honor her. I have done the best I can, Mary, to see you are not forgotten.

Mary, wife and mother for 36 years a member of the Willard family, and well she kept her poise; it was an achievement.

This at Bath, Maine:

Our life is but a winter's day
Some breakfast and away. Others
to dinner stay

The oldest slips and goes to bed.
Large is his who lingers out the day,

Who goes the soonest has the least to say!

Also at Bath, Maine:

Accidentally shot as a mark of affection by his brother.

And finally in the Mount Auburn Cemetery, Boston:

Here lies John Witherbee,
A Boston gallant chap was he,
God has no use for such as he,
The Devil rejected Witherbee.

BEN FRANKLIN WROTE

To lengthen thy life, lessen thy meals.

Many dishes, many diseases;
many medicines, few cures.

There are three faithful friends
—an old wife, an old dog and ready money.

He that is of the opinion Money will do Everything may well be suspected of doing Everything for Money.

Get what you can, and what you get, hold; 'tis the stone that will turn all your lead into gold.

GOOD SENSE — YANKEE FASHION

The city fellow was discussing the general wild state of spending

and nobody paying with a resident of a small Cape Cod town. The old man listened, agreed and and then opined—"Nossir, I don't hold with all these new ideas. I've allus made it a point to never wash more'n I can hang out!"

WHAT THE OLD FARMER'S ALMANAC TOLD

Some of the things The Old Farmer's Almanac used to tell were what the family or the farmer wrote in as marginal notes. Remember?

It told when the tin-pedler Swift was due,

It told when we paid the milk bill, too;

It told when we bought a barrel o' flour,

It told when Pa'd get his herrin "dower."

and then the weather:

Our Ma, on weather, would have her say.

Our Pa jes' thought "Old Farmer's" way.

THE RETORT PERSONAL

"I see villainy in your face, sir," said the judge scowling down at the prisoner.

"May it please Your Honor," said the latter, "that is a personal reflection."

WHITTLING IN VERMONT

Because Vermonters like a knife
And stick and pile of shavings
The city papers teem with jokes
And jocular engravings;
But when you've got some extra time,

However much or little,
I can't see how it's any sin
To kinder set and whittle.

What finer sight deflects your eye
When April gets to running,
Than three or four benign old "boys,"

A-whittling and a-sunning!
They're glad that 'bove their forms as yet

The slow and sad committal
Is still unsaid, and that there's time

To set and talk and whittle.

Besides it's fun to make a thing
And not know what you're making;

Perhaps 'twill be a husking peg
To keep your thumb from aching;

Perhaps 'twill be a butter-spat,
Unless it gets too little;
There's lots of ways a stick can end

When once you start to whittle.

A whittler always keeps his knife
In apple pie condition;
The brightest blade, it suffers
least

From woody opposition;
He may not be the happiest judge
Of what's the daintiest victual,
But if his wife is up and dressed
He has the right to whittle.

A-whittling, so it seems to me,
Is jest as smart a caper,
As shooting shot at plaster birds
Or hunting scraps of paper;
The man that's tried when I'm
the judge

Will get a prompt acquittal,
If all they prove is that he likes
To kinder set and whittle.

*Daniel L. Cady—
Rhymes of Vermont*

Finnish conversations can sometimes
boil down to something
like this one:

Father: Kokoo kokoon koko
koko!

Son: Kokoko koko?

Father: Koko koko.

Which only means:

F.: Gather the entire heap to-
gether!

S.: The entire heap?

F.: The entire heap.

Silly, isn't it?

A FEW EXPRESSIONS

"He pries up the sun with a
crowbar"—said of a man who
gets up very early in the morn-
ing.

"The wind blew straight up and
down"—a gale.

"Looking for salt pork and sun-
down"—when a hired man shirks.

"Slower than a hop toad in hot
tar."

"Faster than a cat lapping
chain lightning."

"Safe as in God's pocket."

APPROPRIATE PROXIMITY

The perfect hostess will see to
it that the works of male and
female authors be properly sepa-
rated on her bookshelves. Their
proximity, unless they happen to
be married, should not be toler-
ated.

Godey's Lady Book c. 1853

BOTH GOOD MEN

Joel Stevens and Deacon Ephar-
ium Tenney were the backbone
of their little New England town.
But they didn't always get along.
The Deacon was hot-tempered,
known to be a sharp trader, and
inclined to stretch the truth. Joel
wasn't one to get "haired-up"
over anything.

At one selectmen's meeting an
argument came up and Epharium
made a statement grossly unfair
and untrue, which Joel convinc-
ingly refuted. Epharium, instead
of recognizing that anyone could
be right except himself, demand-
ed, "Joel, do you mean to call me
a liar?" To which Joel replied in
his slow drawl, "No, Deacon, I
don't. But ain't ye?"

INSPIRED GRACE

The minister had dropped in
just as preparations for supper
were nearly finished, and the good
wife felt obliged to delay the
meal while she prepared some-
thing adequate for the occasion.
When the meal was served, this
was the minister's grace:

"The Lord be praised!

How I'm amazed

To see how things have mended.

Short-cake and tea

For supper I see

Where milk and mush were in-
tended."

ELBERT HUBBARD SAID

If you want work well done,
select a busy man. The other kind
has no time.

The greatest mistake you can
make in life is to be continually
fearing you will make one.

Do unto others as though you
were the others.

The man who is loyal to his
work is not wrung or perplexed
by doubts—he sticks to the ship,
and if the ship founders, he goes
down a hero with the colors fly-
ing at the mast, and band play-
ing.

OUTLINE OF THRIFT

Old maxims of prudence are well
understood,

Having seasoned her copybook,
salted her blood.

She hones up her wits on a barter
with friends.

Large eggs when she borrows and
small when she lends.

Her basket goes lightly to pic-
nicking groves

And returns heavy proof of the
blessing of loaves.

The hay crop from trampled-
down meadows is small.

So she picks her field berries well
over the wall.

And on a spring morning, as pert
as you please,

Comes peddling her parsnips,
and begging your peas!

*Florence B. Jacobs
in Yankee Magazine*

OLD FASHIONED PUZZLES

1. Enigma

Soon as I'm made, I'm sought
with care;
For one whole year consulted;
That time elapsed, I'm thrown
aside,
Neglected and insulted.

2. Logogriph

What is pretty and useful in vari-
ous ways,
Though it tempts some poor mortals
to shorten their days?
Take one letter from it, and then
will appear
What youngsters admire every
day in the year.
Take two letters from it, and
then, without doubt,
You are what it is, if you don't
find it out.

Arithmetical Puzzles

3

Show the digits which, multi-
plied by seven, will give a result
all ones.

4

To half a dozen add half a score,
Then you will plainly see
Just twenty—neither less nor
more.
Explain the mystery.

5. Conundrums

- a. Why is a salt herring like a
waterproof coat?
- b. When do two and two make
more than four?
- c. Why ought the stars to be
good astronomers?
- d. Why are crows the most
sensible birds?

6. Enigma

I am not of flesh and blood
Yet have I many a bone;
No limbs, except one leg,
And can't stand on that alone.
My friends are many and dwell
In all lands of the human race;
But they poke my poor nose into
the mud,
And shamefully spatter my
face;
Thrust me into each other's ribs,
Stick me in gutter and rut;
I have never a window and never
a door,
Yet I of myself am shut.

7. Conundrums

- a. What would the captain of a
ship do, if he had no eggs?
- b. What is the best time to read
the book of Nature?
- c. When will there be but 24
letters in the alphabet?

d. What kind of hair had
Moses' dog?

8. Cross-Word Enigma

My first is in rope, but not in
string.
My second is in leap but not in
spring.
My third is in state, but not in
place.
My fourth is in cassia, but not in
mace.
My fifth is in hack but not in cut.
My sixth is in hamlet, but not in
hut.
My seventh is in lamp but not in
light.
My eighth is in quarrel, but not
in fight.
My ninth is in you, but not in
him.
My tenth is in Lot, but not in
Sim.
My eleventh is in hood, but not
in hat.
My twelfth is in dog, but not in
cat.
My thirteenth is in rainy, but not
in rain.
My whole is a bay on the coast
of Maine.

Wm. H. Graffam
From St. Nicholas, April 1874

9. Riddles

- a.
I'm a strange contradiction: I'm
new and I'm old;
I'm sometimes in tatters, and oft
decked in gold.
Though I never could read, yet
lettered I'm found;
Though I'm blind, I enlighten;
though free, I am bound.
I'm English, I'm German, I'm
French and I'm Dutch.
Some love me too dearly, some
slight me too much.
I often die young, though I some-
times live ages,
And no queen is attended by so
many pages.
- b.
My tongue is long, my breath is
strong,
And yet I breed no strife;
My voice you hear both far and
near,
And yet I have no life.

c.
What goes up the hill, down
the hill, and yet stands still?

10. Problem

A youth set to cut a lawn 40
by 60 feet, with a mower having
a 12 inch knife, proposes to cut
one half the surface before he
rests. How many times must he
go around the lawn if he com-
mences at the outer edge and
mows regularly inward?

Answer to these puzzles appear on page 78

WORD CHARADES

1

When parched earth in sunshine
basks,
Or rain and hail in torrents fall
my second shelters from them
all;
And schoolboys busy at their
tasks
Do what my first imports,
And are my whole when they are
done,
And they resume their sports.

2

Five letters do compromise my
name,
From every point I'm still the
same;
Pray read me, and you'll quickly
see,
What time will make both you
and me.

3

My first is issued by the govern-
ment,
Among its promises to pay.
He feels my second imminent,
Who knows his hair is getting
gray;
Had men been in my whole con-
tent,
As slaves they would have
toiled to-day.
The Boston Charades
by Herbert Ingalls

4

I build a castle in the air,
Alas! upon inspection,
My first is sure to enter there,
With commonplace objection.
As falls my second when a lady
fair
Unbinds the fillet of her stream-
ing hair,
My airy castle falls. No power
can stop it,
No architect can find my whole
to prop it.
Original Charades
by L. B. R. Briggs

5

To spell a word of six
Two letters might suffice.
That word defines the rest,
It makes a virtue vice.
Those letters two, reversed,
Reveal his name who laid
His head upon the block,
By woman false betrayed.
A Century of Charades
by W. Bellamy

My first complains, "My hour is
almost come
When I to sulphurous and tor-
menting flames
Must render up myself."
But from such fate
My last is safe.
And though within the dark
And awful gloom of night I grope
my way
To find my whole, when I have
reached it, lo!
A sudden light illumines all the
place.

7

Just two thirds of ten, and one
third of eleven,
My first and my second contain;
For my third, you must take four
parts of seven
Composing a grammar. Then
plain
To your view you will find that
my whole is displayed.
Denoting a message that is
quickly conveyed.

8

My first is a kind of butter;
my second is a kind of licker;
my whole is a kind of charger.

9

A man of fourscore winters white
Sat dozing in his chair;
His frosted brow was quite my
first
With glorious silver hair.
My whole lay playing at his feet,
And a glance upward stole;
My second I can wager you,
Was father of my whole.

The answers to these charades will be found on page 78

GESTATION AND REPRODUCTION TABLE

Designation	Proper age for reproduction	Period of the power of reproduction in years	No. of Females for one Male	Period of Gestation and Incubation		
				Shortest period, days	Mean period, days	Longest period, days
Mare	4 years	10 to 12		322	347	419
Stallion	5 "	12 to 15	20 to 30			
Cow	3 "	10 to 14		240	283	321
Bull	3 "	8 to 10	30 to 40			
Ewe	2 "	6		146	154	161
Ram	2 "	7	40 to 50			
Sow	1 "	6		109	115	143
Boar	1 "	6	6 to 10			
She Goat	2 "	6		150	156	163
He Goat	2 "	5	20 to 40			
She Ass	4 "	10 to 12		365	380	391
He Ass	5 "	12 to 15				
She Buffalo		8		281	308	335
Bitch	2 "	8 to 9		55	60	63
Dog	2 "	8 to 9				
She Cat	1 "	5 to 6		48	50	56
He Cat	1 "	9 to 10	5 to 6			
Doe Rabbit	6 months	5 to 6		20	28	35
Buck Rabbit	6 "	5 to 6	30			
Cock	6 "	5 to 6	12 to 15			
Hen		3 to 5		19	21	24
Turkey				24	26	30
Duck				28	30	32
Goose				27	30	33
Pigeon				16	18	20
Pea Hen				25	28	30
Guinea Hen				20	23	25
Swan				40	42	45
Hen on Duck's Eggs				22	30	34

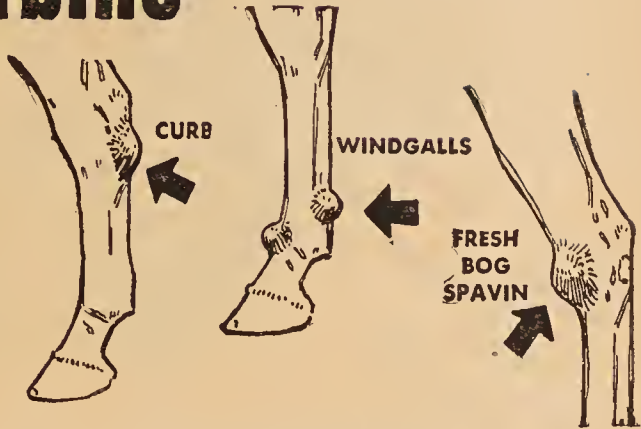
DURATION AND FREQUENCY HEAT SEASON

	<i>In heat for</i>	<i>Reoccurs if not bred</i>
Mares	6 days	3 to 6 weeks
Cows	2-3 days	3 to 4 weeks
Ewes	2-3 days	17-28 days
Sows	2-4 days	21 days
Bitches	5-7 days	3-6 months
Cats	3-15 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

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ALL DAY LONG

YOUR first taste of these extra delicious, genuine New England baked beans will tell you why we go to all the bother of baking 'em for one entire day. It's this long, slow baking (not boiling) with lots of juicy pork and old-time sauces that makes each separate bean such a wonderfully tempting treat of delightful "Down East" flavor. Once the family enjoys 'em they'll always prefer 'em. Burnham & Morrill Co., Portland 2, Maine.

TWO THRIFTY CHOICES:

13 oz. Kitchenette size (in tin)

18 oz. Family Meal size (in glass)



THREE SQUARE MEALS A DAY

By LOUISE PRYOR SKILTON

Our grandfathers and their grandfathers, not overlooking the grandmothers along the way, talked of "three square meals a day." The desire for those three square meals was one of the things that kept the men planting, hunting, and fishing; the women, baking and brewing. We, too, have talked about "three square meals" when we have found them satisfying and substantial. But it is the modern scientist who has added a new meaning to the old expression. To him, a meal is "square" if it supplies foods for energy; protein foods for growth and repair; minerals; and vitamins.

Today's homemaker finds that she can plan meals to meet this latest definition by using basic patterns something like these.

BASIC MEAL PATTERNS

Breakfast	Lunch	Dinner
Fruit	Main dish	Soup or Fruit Cup
Cereal with milk	Vegetable or salad	Main dish
Whole wheat toast or muffins	Whole wheat or enriched bread	Potato
Milk for children	Dessert	Another vegetable
Coffee for adults	Milk	Salad
		Dessert

Often the homemaker will vary her pattern to use foods that are in season and so are less expensive; or, to use her supply of canned foods. She may add an egg for breakfast or an egg dish may be used for lunch or even dinner. Fruit may appear as salad or as dessert. But always the homemaker will vary her pattern according to family preferences. Here are a few recipes for main dishes around which successful dinners may be planned.

Baby Porcupines in Tomato Sauce

1 pound hamburger	$\frac{1}{3}$ cup uncooked rice
1 tablespoon minced onion	1 $10\frac{1}{2}$ oz. can condensed tomato soup
2 teaspoons baking powder	$1\frac{1}{4}$ cups water
1 teaspoon salt	
$\frac{1}{2}$ cup milk	

Combine the hamburger, onion, baking powder, salt, milk, and rice. Shape the mixture into small balls and put them in a skillet. Pour over them the tomato soup mixed with the water. Cover the skillet and simmer over low heat $1\frac{1}{2}$ hours. Serves 4-6.

Serve with parsley potato, green beans, and grated carrot salad. Use lemon sherbet for dessert.

Chicken Timbales

$1\frac{1}{2}$ cups cooked chicken, minced	1 tablespoon butter or margarine
$\frac{1}{4}$ cup milk	2 egg yolks, unbeaten
$\frac{1}{2}$ cup soft bread crumbs	2 egg whites, beaten stiff
$\frac{1}{2}$ teaspoon salt	
$\frac{1}{2}$ tablespoons minced green pepper	

Prepare the chicken and measure. Heat the milk, add crumbs and cook until mixture thickens. Add salt, green pepper, butter and

chicken; when slightly cool add egg yolks. Fold mixture into egg whites and place in greased individual baking dishes. Set in pan and surround with hot water. Bake in a moderate oven, 350° F., about 30 minutes or until firm in center. Unmold.

Serve with glazed sweet potatoes, steamed broccoli, and grapefruit salad. Use halves of cantaloupe for dessert.

Codfish Puff

1 cup flaked salt codfish	2 teaspoons butter
2 cups sliced potatoes	$\frac{1}{8}$ teaspoon pepper
1 tablespoon minced onion	2 eggs, well beaten

Cook fish and potatoes together until potatoes are soft; drain. Beat until smooth. Add onion, butter, and pepper. Add eggs and beat until fluffy. Pile mixture lightly into a greased baking dish. Bake in moderate oven, 375° F., about 30 minutes. Serves 4.

Serve with buttered onions, sliced beets and chicory salad. Use caramel rice pudding for dessert.

Cheese Custard

$\frac{1}{4}$ pound cheese, ground	$\frac{1}{2}$ teaspoon salt
4 slices bread, cut in cubes	$\frac{1}{4}$ teaspoon paprika
3 eggs, slightly beaten	1 teaspoon minced parsley
$\frac{1}{2}$ cups milk	

Arrange cheese and bread in alternate layers in a greased baking dish. To the eggs add milk, salt, paprika and parsley; pour mixture over the bread and cheese. Bake in a moderate oven, 350° F., about 45 minutes. Serves 4.

Serve with baked potato, Brussels sprouts and jellied carrot and pineapple salad. Use Apple Betty for dessert.

Baked Eggs in Tomatoes

4 large tomatoes	pepper
4 eggs	$\frac{1}{2}$ cup buttered bread crumbs
salt	

Cut a slice from the stem end of the tomato and remove pulp to form a cavity. Slip an egg into each tomato, sprinkle with salt and pepper. Cover with crumbs. Place in shallow oven-glass dish and bake in a moderate oven, 375° F., about 20 minutes or until egg white is set. Serves 4.

Serve with creamed potato, spinach, and cucumber salad. Use date ice-box cake for dessert.

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New York 14, N. Y.

YOUR DIET SCORE CARD

Review your personal diet and score yourself below. You are not being square by yourself if you score less than 90%.

CREDITS FOR THE DAY

		Your Score
*Milk		
1 quart to 3 cups	20%	.....
1 pint	10%	.....
Vegetables (including 1 potato)		
3 servings	10%	.....
2 servings	5%	.....
If green, yellow, or raw add	5%	.....
Fruits		
1 or more servings	10%	.....
Orange, Grapefruit, Tomato, Raw Cabbage		
1 serving	10%	.....
4 weekly	5%	.....
§Meat, Fish, or Cheese		
1 serving	10%	.....
Eggs		
1 serving	10%	.....
4 weekly	5%	.....
Whole Grain or Enriched Cereal or Bread		
2 servings	10%	.....
1 serving	5%	.....
Butter or Fortified Margarine		
2 tablespoons or more	5%	.....
Water		
4-6 glasses	10%	.....
Total Credits		.....

DEDUCTIONS FOR THE DAY

Not clearing the plate	10%	.....
Skipping a meal	10%	.....
Sweets between meals	10%	.....
Tea or coffee for children	10%	.....
Total Deductions		.....
Total Score .....		.....

* Include milk cooked in foods or in sherbet, etc.

§ Dried peas, beans, nuts, or peanut butter may be used occasionally.

HISTORICAL NOTES

1. Of all the venerable members of *The Old Farmer's Almanack* staff, there are two — Mr. Weatherwise and Mr. Astronomer — whose activities over the years are a constant source of interest. This year, for example, when Mr. Weatherwise brought in his usual weather data, we noticed a frayed old booklet in a side pocket. Quite by accident, it slipped out and as we leaned over to pick it up for him we noted it was "Weatherwise's Almanac for 1783." Mr. Weatherwise was somewhat annoyed that we had seen it — feeling, he explained, that this issue, put out by him some nine years before we were born, might make him seem a bit decrepit and aged. Noticing his embarrassment, we didn't press the conversation and asked him to leave the booklet as we might learn something from it. On page 7 we found the woodcut of George Washington which we reproduce below — drawn on the occasion of the General's visit to Philadelphia — presumably from life — for a Philadelphia newspaper.

Just what the heraldry around the portrait is all about we wouldn't know but the likeness is sufficiently "Washingtonian," we believe, to preserve it here for future years.



George Washington, 1783.

2. Mr. Astronomer, who always manages to be, at closing time for his material, anywhere except where we can lay hands on him, is far less revealing about his past than Mr. Weatherwise. It is only through hearsay and the kindness of friends that we keep up with him at all. Mr. Robert T. Kingsbury of Keene, New Hampshire, has been good enough in this instance to disclose to us the following — taken from a letter to his great grandfather, Dr. Joseph Wheeler of Keene — during the war of 1812 with Great Britain. We quote these excerpts as much for the contrast it reveals between that war and this, as for the light it sheds on Mr. Astronomer's wanderings and observations.

"Dear Friend . . . be so kind as to excuse my want of punctuality as my affairs have been so I hardly knew what to write. . . . We have had troublesome times in this western world (New York State) the winter past. . . . The Bastard pleurisy with some cases of the spotted fever has prevailed and in many places swept off people at a great rate. . . . If Mr. Thomas should grow uneasy about his copy tell him that . . . his copy will be forwarded in a few days.

"The war goes on slowly. Some depredations are committed on the Lakes. Our Army entered Canada to the amount of 7000 and favored about and have come back as far as Fort George which they held at last accounts but lost many taken prisoners. We expect to hear of something decisive on the Lakes as we hear that the British have sent us a challenge to meet on those waters and our commander has concluded to meet them so soon as our new Frigate was ready to sail. The new frigate was to sail last Tuesday so that we expect to hear from them soon. . . ."

In World War II, Mr. Astronomer has distinguished himself engineering the beaming of short wave broadcasts at the soft spots of the enemy. Mr. Weatherwise, when last heard from, revealed his locale only by a remittance of two pounds of Ceylon tea from a Navy F.P.O. address.



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ROAD



ON THE

FARM



AND

IN THE HOME



AMERICAN OIL COMPANY

from Maine to Florida

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(For Zone consult Post Office)

Everything over 8 ounces, including books and printed matter, except First Class and newspapers and other periodicals entered as Second Class matter mailed by the publishers:—

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		1-2 Up to 150 miles	3 150 to 300 miles	4 300 to 600 miles	5 600 to 1,000 miles	6 1,000 to 1,400 miles	7 1,400 to 1,800 miles	8 Over 1,800 miles	
1	\$0.08	\$0.09	\$0.10	\$0.11	\$0.12	\$0.13	\$0.15	\$0.16	
2	.09	.11	.12	.15	.18	.20	.24	.27	
3	.09	.12	.14	.18	.23	.27	.33	.38	
4	.10	.13	.16	.22	.28	.34	.42	.49	
5	.10	.14	.18	.25	.34	.41	.52	.61	
6	.11	.15	.20	.29	.39	.48	.61	.72	
7	.11	.16	.22	.32	.44	.56	.70	.83	
8	.12	.17	.24	.36	.50	.63	.79	.95	
9	.12	.18	.26	.39	.56	.70	.89	1.06	
10	.13	.19	.28	.43	.61	.77	.98	1.17	
11	.13	.20	.30	.46	.66	.84	1.07	1.29	
12	.14	.22	.32	.50	.72	.92	1.16	1.40	
13	.14	.23	.34	.54	.77	.99	1.26	1.51	
14	.15	.24	.36	.58	.82	1.06	1.35	1.63	
15	.15	.25	.38	.61	.89	1.13	1.44	1.74	
16	.16	.26	.40	.65	.94	1.21	1.53	1.85	
17	.16	.27	.42	.68	.99	1.28	1.63	1.97	
18	.17	.28	.44	.72	1.05	1.35	1.72	2.08	
19	.17	.29	.46	.75	1.10	1.42	1.81	2.19	
20	.18	.30	.48	.79	1.15	1.49	1.91	2.31	
21	.18	.31	.50	.82	1.21	1.57	2.00	2.42	
22	.19	.33	.53	.87	1.27	1.64	2.09	2.53	
23	.19	.34	.55	.90	1.32	1.71	2.18	2.65	
24	.20	.35	.57	.94	1.37	1.78	2.28	2.76	
25	.20	.36	.59	.97	1.43	1.85	2.37	2.87	
26	.21	.37	.61	1.01	1.48	1.93	2.46	2.99	
27	.21	.38	.63	1.04	1.53	2.00	2.55	3.10	
28	.22	.39	.65	1.08	1.60	2.07	2.65	3.21	
29	.22	.40	.67	1.11	1.65	2.14	2.74	3.33	
30	.23	.41	.69	1.15	1.70	2.21	2.83	3.44	
31	.23	.42	.71	1.18	1.75	2.29	2.93	3.55	
32	.24	.44	.73	1.23	1.81	2.36	3.02	3.67	
33	.24	.45	.75	1.26	1.86	2.43	3.11	3.78	
34	.25	.46	.77	1.30	1.92	2.50	3.20	3.89	
35	.25	.47	.79	1.33	1.98	2.58	3.30	4.01	

Weight in Lbs.	Local	ZONES							
		1-2 Up to 150 miles	3 150 to 300 miles	4 300 to 600 miles	5 600 to 1,000 miles	6 1,000 to 1,400 miles	7 1,400 to 1,800 miles	8 Over 1,800 miles	
36	\$0.26	\$0.48	\$0.81	\$1.37	\$2.03	\$2.65	\$3.39	\$4.12	
37	.26	.49	.83	1.40	2.08	2.72	3.48	4.28	
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	6.03	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.

SPECIAL DELIVERY FEES

	First Class	Second, Third or Fourth Class
Up to 2 pounds	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.

To Canada: United States Special Delivery Fees are applicable on articles prepaid at the letter rate of postage. Newfoundland and Labrador 20c prepaid in addition to regular postage on letters or articles only prepaid at the letter rate.

Domestic Registered Mail — Fees for Indemnity limited to:

\$5	20c	\$300	65c	\$800	\$1.20
50	25c	400	80c	900	1.25
75	35c	500	95c	1,000	1.35
100	40c	600	\$1.05		
200	55c	700	1.15		

Registered mail is subject to surcharges under certain conditions.

Domestic Insured Mail (third and fourth classes) Fees for indemnity limited to:

\$5	3c	\$25	10c	\$50	15c	\$200	25c
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Domestic C. O. D. Mail — Unregistered (third and fourth classes) and sealed domestic mail of any class bearing postage at the first-class rate; Fees for collections and Indemnity limited to:

\$2.50	15c	\$25.00	30c	\$100.00	50c
5.00	20c	50.00	40c	150.00	55c
				200.00	60c

C. O. D. Mail — Registered (sealed matter of any class bearing first-class postage). Consult postmaster for fees and limits of indemnity.

POSTAL MONEY ORDER

From \$0.01 to \$2.50	6	From \$20.01 to \$40	15
From \$2.51 to \$5	8	From \$40.01 to \$60	18
From \$5.01 to \$10	11	From \$60.01 to \$80	20
From \$10.01 to \$20	13	From \$80.01 to \$100	22

POSTAL NOTES

1c to \$10. Fee 5c

ARMED FORCES OVERSEAS

Three cents an ounce, regular, or six cents half-ounce, air, care of U. S. Postmaster or Fleet Post Office at Ports of Embarkation. Use V Mail (3c per letter) for speedy transmission to most of the active war fronts.

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, Salvador, El; Spain and possessions; Uruguay, Venezuela.

Letter Packages.—Articles liable to customs duty may be sent at the letter rate to certain foreign countries. (Inquire at main office or classified stations.) The paper form of customs declaration (Form 2976-A), or an invoice, must be enclosed in each such package and the green label, Form 2976, must be affixed to the outside of the envelope or wrapper. The customs declaration and green label may be obtained free at the post office.

Currency, Jewelry, and other precious articles.—Coins, bank notes, paper money, or any values payable to bearer; platinum, gold, or silver, manufactured or unmanufactured; precious stones, jewelry, or other precious articles are prohibited in the unregistered mails. Money in cash, bank notes, or values payable to the bearer, whether sent in the registered or ordinary mails, are prohibited to certain countries, and in some cases may even be confiscated. Patrons should inquire at the main office or classified stations as to the admissibility of such articles in the letter mails to any particular foreign country.

Post Cards.—Single post cards for places enumerated above 2 cents. Single post cards for all other foreign destinations 3 cents. Maximum size 6x4¼ inches, minimum size 4x2¾ inches.

Printed Matter.—1½ cents for each two ounces or fraction. Limit of weight: Inquire at Post Office.

Reduced Postage Rate on Books.—For each pound or fraction—5 cents.

Weight limit: 22 pounds, except in case of single volumes addressed to Cuba, El Salvador, Mexico or Panama, where there is no limit of weight. To Peru the weight limit for books is 11 pounds.

This reduced rate is applicable exclusively to books which do not contain publicity or advertising other than that appearing on the covers or fly-leaves, when addressed to the following countries: Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Rep. of Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay and Venezuela.

Samples of merchandise.—For all foreign destinations, 1½ cents each 2 ounces or fraction, with a minimum charge of 3 cents. Limit of weight: 18 ounces.

Commercial papers.—For all foreign destinations, 1½ cents each 2 ounces or fraction, with a minimum charge of 5 cents. Limit of weight 4 lbs., 6 oz.

Eight-ounce Merchandise Packages.—Packages of merchandise weighing 8 ounces or less, for the countries specially named under "Letters" above, 2 cents for each 2 ounces, except that when the contents consist of seeds, scions, plants, cuttings, bulbs, or roots, the rate is 1½ cents for each 2 ounces. (This is not parcel post, must not have customs declarations attached, and must not be sealed except when addressed for delivery in Canada, in which case such packages should be marked "This may be opened for postal inspection if necessary.") There is also an exception with respect to sealing in the case of c. o. d. 8-ounce merchandise packages for Mexico, which may be sealed.)

Small Packets.—Three cents for each 2 ounces, with a minimum charge of 15 cents per packet. Limit of weight: 2 pounds 3 ounces. (Inquire at main post office or classified stations for list of countries which accept small packets.) Small packets must bear the green label, Form 2976. They must also be accompanied by the paper form of customs declaration (Form 2976-A), properly completed by the sender and enclosed in the small packet. It is likewise permissible to enclose in small packets an open invoice reduced to its essential terms. Every small packet must be clearly marked on the wrapper by the sender with the words "small packet."

None of the articles mentioned under the heading "Currency, Jewelry, and other precious articles" above, may be forwarded in small packets, even though registered.

Mail service to many foreign countries has been suspended or greatly curtailed, due to war conditions. In view of frequent changes, inquire at post office before mailing articles addressed for delivery abroad.

Maximum dimensions.—For all foreign destinations on all classes of mail noted above (except Post Cards), 36 inches length, breadth and thickness combined, the length being limited to 24 inches. When sent in the form of a roll the length (the maximum of which is 32 inches) plus twice the diameter is limited to 40 inches.

Registration.—Letters, prints of all kinds, including raised prints for the blind, single and reply-paid post cards, small packets, samples of merchandise and commercial papers may be registered to all foreign countries.

Fee.—20 cents in addition to postage. When a return receipt is requested at the time of mailing there is an additional charge of 5 cents, 10 cents if requested after mailing.

Indemnity.—(Consult Postmaster.)

Special-delivery (express) service is now in force with the following foreign countries:

Argentina	Ecuador	Lithuania
Australia	Egypt	Luxemburg
Bahamas	Estonia	Mexico
Belgium	Finland	Morocco (Spanish Zone)
Brazil	France	Netherlands
British Guiana	Germany	Newfoundland (including Labrador)
British Honduras	Gibraltar	Norway
(Belize only)	Gold Coast Colony	Nyasaland Protectorate
Canada	Great Britain and	Palestine
Chile	Northern Ireland	Panama
China	Guatemala	Poland
Cuba	Hungary	Portugal
Cyprus	Ireland	St. Pierre and Miquelon
Czechoslovakia	Italy	Sweden
Danzig	Japan	Switzerland
Denmark	Kenya and Uganda	Trans-Jordan
Dominican Republic	Latvia	Union of South Africa

An article intended for special (express) delivery in any of the countries mentioned above (except Canada, where the United States domestic fees apply) must be prepaid 20 cents, in addition to the regular postage, by United States special-delivery or other stamps, affixed to the cover. There should also be affixed one of the "express" labels (Form 2977) or the cover must be marked boldly in red ink "Express," directly below but never on the stamps. In some countries the service is limited to certain cities, lists of which appear under the country items in Part II of the Official Postal Guide. In Canada and Newfoundland express special-delivery service applies only to letters (or articles prepaid at the letter rate). In the other countries of the above list, the "express" feature is applicable to ordinary and registered Postal Union articles (letters, post cards, commercial papers, printed matter, samples, and small packets), but not to parcel-post packages.

INTERNATIONAL PARCEL POST.

Many foreign countries have special import license regulations about which information may be obtained at your local post office.

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.

INTERNATIONAL INSURED MAIL

Insured parcel post service is now in effect with Argentina, The Bahamas, Barbados, British Guiana, Canada, Cape Verde Islands, Colombia, Ecuador, Great Britain and Northern Ireland, Iceland, Ireland, Leeward Islands, Newfoundland (including Labrador), New Zealand, Portugal (including Madeira and the Azores), Portuguese East Africa (Mozambique), Portuguese West Africa, Surinam, Western Samoa and The Windward Islands, providing for the insurance of parcel-post packages. Such service with Canada and Newfoundland (including Labrador) is extended to printed matter designated as third or fourth class in the domestic mails, Postal Union "prints" and to packages of merchandise weighing 8 ounces or less. Parcel post packages for Cape Verde Islands, Ecuador, Macao, Portugal and Portuguese West Africa may also be registered.

Fees—The insurance fees range from 3 cents to 60 cents, providing for indemnity, in the event of loss, rifling, or damage.

Return Receipts—Return receipts for insured parcels addressed to foreign countries *except Canada* will be furnished only upon request therefor by the sender and upon payment of a fee of 5 cents for each receipt requested at time of mailing and 10 cents after mailing.

Canada and Newfoundland—Mailable merchandise and printed matter designated as third and fourth-class matter and Postal Union "prints" addressed to Canada or Newfoundland may be insured for the same fees and under the same conditions so far as applicable, including payment of indemnity, as apply to domestic mail of these classes. Third and fourth class, as well as Postal Union, printed matter and 8-ounce packages of merchandise may be registered, if desired, but packages of general merchandise may be registered only when sealed and postage is paid at letter rate.

The following articles and those of similar character shall not be accepted for transmission as insured mail to Canada or Newfoundland, but when mailable, may be sent as registered matter provided they are sealed and the letter rate of postage is paid: Precious stones, mounted or unmounted; all articles commonly known as jewelry used for personal adornment, such as rings, brooches, tie pins, chains, cuff links, dress sets, fobs, bracelets, rosary beads, lockets, necklaces, etc.; all articles of gold or other precious metals for personal use, such as, cigarette holders, cigarette cases, vanity cases, cardcases, gold and silver pencils, lognettes, mesh bags, watches, etc.; gold scrap, jeweler's fillings, fountain pens, money packets (which are construed as including bank notes, coin, including coins not current, bullion, gold dust, bonds, and coupons payable to bearer, stocks and other securities negotiable by bearer).

INTERNATIONAL C.O.D. MAIL

C.O.D. service is now in effect with Colombia and Mexico.

The C.O.D. service with Colombia applies to insured parcels, whereas, the C.O.D. service with Mexico applies to registered parcels. Also, the C.O.D. service with Mexico includes printed matter, 8-ounce packages of merchandise, and small packets.

For further details, consult postmaster.

INTERNATIONAL ORDINARY MAIL

Limited indemnity may be paid in the actual amount of the loss, rifling, or damage to ordinary parcel post packages exchanged with countries which have ratified and put in force the provisions of the Parcel Post Agreement of the Postal Union of the Americas and Spain of Panama. No indemnity is paid in respect of other international ordinary mail.

Inquiries or Complaints Concerning Registered or Insured Mail Addressed for Delivery in Foreign Countries and Charges Therefor—

A charge of 10 cents shall be made for an inquiry or complaint in connection with registered or insured mail addressed to a foreign country unless the sender has failed to receive a return receipt for which he paid the required fee, or is able to show that a prima facie loss or other irregularity has occurred through fault of the Postal Service by exhibiting a letter or other report from the addressee dated at least 10 days (30 days in the case of trans-Atlantic countries), after the article involved would, in regular course, have been delivered, or satisfactorily account for the failure to exhibit such letter or report. In the case of parcel post, allow at least an additional 20 days for dispatching conditions.

If an inquiry or complaint is accepted without collection of a fee under the foregoing, but it is subsequently found that there was no mistreatment or unreasonable delay of the article chargeable to the Postal Service, the prescribed fee shall be collected when the result of the trace is furnished the sender.

Inquiries for Ordinary Articles (Postal Union and Parcel Post)—A charge of 5 cents shall be made for inquiries concerning the disposal made of any ordinary article (parcel post package or Postal Union article) addressed for delivery in a foreign country. Procedure similar to above. Consult Postmaster.

POSTAL MONEY ORDERS.—INTERNATIONAL

Limit of a Single Order, \$100.

For Orders from—

\$0.01 to \$10	10 cents
From \$10.01 to \$20	20 cents
Advancing thus to.....	From \$90.01 to \$100.....1 dollar

DOMESTIC AIR MAIL

in the Continental United States is 8 cents for each ounce or fraction thereof. This rate is also applicable to Canada.

FOREIGN AIR MAIL POSTAGE RATES

<i>Destination</i>	<i>Rate per ½ ounce</i>	<i>Destination</i>	<i>Rate per ½ ounce</i>
Aden	.70	Ireland	.30
Afghanistan	.70	Ivory Coast	.50
*Alaska	.08	Jamaica	.10
Algeria	.33	Kenya, Uganda	.60
Anglo-Egyptian Sudan	.70	Lebanon	.70
Angola (P.W.A.)	.60	Leeward Islands:	
Argentina	.20	Anguilla, Antigua, Barbuda,	
Australia	.70	Dominica, Montserrat,	
Azores	.30	Nevis, Redonda, St. Kitts	.10
Bahamas	.10	Liberia	.50
Bahrain Islands	.70	Libya	.33
Barbados	.10	Luxembourg	.30
Belgian Congo	.60	Madagascar	.30
Belgium	.30	Madeira	.30
Bermuda	.10	Malta	.70
Bolivia	.20	Martinique	.10
Brazil	.20	Mauritania	.45
British Guiana	.15	Mauritius	.60
British Honduras	.10	Mexico	.08
British Virgin Islands	.10	Morocco (Br., Fr. & Sp.)	.33
Cameroons, Br. & Fr.	.60	Mozambique (P.E.A.)	.60
*Canada	.08	Netherlands	.30
Canal Zone	.10	New Caledonia	.40
Canary Islands	.40	Newfoundland	.15
Cape Verde Islands	.55	New Zealand	.50
Ceylon	.70	Nicaragua	.10
Chile	.20	Niger	.45
China (Unoccupied)	.70	Nigeria	.50
Colombia	.25	Norway	.30
Corsica	.33	Nyasaland	.60
Costa Rica	.10	Palestine	.70
Cuba	.08	Panama	.10
Curacao:		Paraguay	.20
Curacao Island, Aruba,		Peru	.15
Bonaire, Saba, St. Eus-		Portugal	.30
tatiús, St. Martins	.10	Portuguese Guinea	.50
Cyprus	.70	Portuguese East Africa	
Dahomey	.45	(See Mozambique)	.08
Denmark	.30	Puerto Rico	.30
Dominican Republic	.10	Reunion	.30
Ecuador	.15	Rhodesia, No. & So.	.60
Egypt	.70	Rio de Oro	.40
El Salvador	.10	Saudi Arabia	.70
Eritrea	.70	Senegal	.45
Ethiopia	.70	Sierra Leone	.50
Falkland Islands	.20	Somalland, Br., Fr. & It.	.70
Faroe Islands	.30	Southwest Africa	.60
Fiji	.40	Spain (Spanish Offices in	
France	.30	North Africa)	.30
French Equatorial Africa	.60	Spanish Guinea	.50
French Guiana	.15	Surinam	.15
French Guinea	.50	Sweden	.30
French Sudan	.50	Switzerland	.30
French Togoland	.45	Syria	.70
Gambia	.50	Tanganyika	.60
Gibraltar	.30	Trans-Jordan	.70
Gold Coast Colony	.50	Trinidad	.10
Great Britain	.30	Tunisia	.33
Guadeloupe	.10	Turkey	.70
Guam	.35	Union of South Africa	.60
Guatemala	.10	Uruguay	.20
Haiti	.10	U. S. S. R.	.30
Hawaii	.15	Venezuela	.15
Honduras, Republic of	.10	Virgin Islands, U. S.	.08
Iceland	.30	Windward Islands:	
India, Br., Fr. & Port.	.70	Grenada, Grenadines,	
Iran	.70	St. Lucia, St. Vincent	.10
Iraq	.70	Yemen	.70
* Per ounce.		Zanzibar	.60

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as LOW as
\$1.95 PAIR**



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HIDDEN ASSETS

Go at your old nail and hardware collection in the shed. It will take you about a day or 3 evenings to sort your collection into the boxes. You will discover you have a whole store before you finish. One returning veteran found his prewar collection fell into the following labels—one to a box—enough to last him for years of odd jobs around the place; Spikes, 8 penny, screws (4 sizes), horseshoe, shingle, roofing, brads, floor, bolts and nuts, staples, tacks, miscellaneous hardware, and a catchall box for the "unsorted" collection of the future.

NEVER GROUND AHEAD
only when you buy it



WE never grind coffee ahead because we know the nearer coffee is ground to coffee making time the finer cup of coffee you will get every time. We grind it only when you make your purchase and then for your particular kind of coffee making. Our guarantee for freshness and satisfaction in every pound of Kybo coffee you buy at your First National Store.

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FIRST NATIONAL STORES

THE TURBULENT WINTER OF 1944-45

Mr. Weatherwise in submitting his weather indications for last year's edition, cautioned us that the winter would "probably be turbulent." He might have added violent, vehement, impetuous, ferocious, furious and tumultuous—and still have been right. For Old Man Winter this past year was "blown with restless violence round about the peudent world."

The Associated Press in Boston quoted the Weather Bureau with a 12.5 inch deeper snowfall than usual during January and 13.9 inches above normal in February. A story in *The New York Times*, dated-lined Washington, D. C. February 3rd, named the winter as the "coldest" snowiest, and blowiest of recent years." Scarcely more than typical of many deeds of courage and heartwarming neighborliness born of this bitter season was the old-fashioned hospitality of Mr. and Mrs. James Ehrmentraut, who, when snowdrifts stalled eighty trucks and autos on a highway near their farm in Churchville, N. Y., provided food and shelter for all 108 persons thus caught. Simeon Strunsky felt called upon to reassure his delicate New Yorkers in December that Spring must be just around the corner while his compatriot James Dawson, a few days later, was still digging Rocky Graziano, East Side welterweight out of some desperate drifts. Henry Hough of the *Vineyard Gazette* took leave to tell his readers their first half of the winter had been colder by 9% than the Weather Bureau's average for 42 years on the very day the ODT clamped a freight embargo on all nine Northeastern states.

About this time, after a performing monkey had been found frozen to death in Folkestone, and the pipes in an ice factory in Fleetwood had been thawed out, Great Britain was forced to call upon its much needed troops to shovel out Northern England and Scotland.

Furor arma ministrat: Tokyo radio admitted December 9th that tidal waves had caused great damage to Japanese war plants (B 29 weather?); Mauritius Island in the Indian Ocean suffered, on January 19th, its second worst cyclone in history; the U. S. destroyer *Monaghan* sank in January during a Pacific typhoon, tornadoes killed 36 in Alabama and Mississippi on Lincoln's Birthday; 45,000 pounds of men had to run from one side to the other of a carrier all one night of a March typhoon to keep the vessel from capsizing and dumping all hands in the Coral Sea.

As always there were many odd quirks this year, too. Bluebirds sang merrily over the snowdrifts of Peekskill, N. Y., even while Nantucket was still isolated by ice floes and Southern New Hampshire was suffering its worst storm of the year. Despite March noon-day temperatures of 100 or more in the direct rays of the sun, cool nights and lack of heavy rains let the snow run off without the fully expected floods. It was the warmest March on record in Washington, D. C., Baltimore, Syracuse, Detroit, and Sault Ste. Marie. At a time when the grip of ice and snow should still have been at its hardest in the great northlands, migrating ducks had already begun to appear on the nesting grounds—weeks ahead of schedule. On March 21 the thermometer hit 63 degrees in Winnipeg, and thousands of pintails and mallards were reported in the flooded grain fields south of that city.

The season was advanced in New England four to six weeks, making the worst sugaring crop in years and causing plenty of worry that ensuing frosts would nip all the fruit in the bud. (In certain sections it did—and all sections were more or less hit.) As a final fillip to a crazy spring, May 10-11 saw winter redescend on the Northeastern states with one of the worst spring blizzards ever recorded. Mexico, Maine, reported thirty inches of snow, while a gentleman in Hancock, New Hampshire, claimed the unique distinction of the only case of May frostbite ever recorded in that state.

However, this winter was uncommonly good to the Russians, and materially helped in "the final decisive role of the war." Pounding on through heavy snows and bitter temperatures, the Reds rode the weather to one German defeat after another. While our forces stormed in from the west, and our airplanes snowed bombs from above, many a Nazi must have looked with anxious eye for the thaws that never came—in time. Yes, tough as it was, we still have cause to be grateful for this winter . . . to the Lord who makes all. May friend Weatherwise always be as kind.

STATE EXTENSION DIRECTORS

The practical technical and scientific helps for today's farmer are probably further advanced than at any time in the world's history. A veritable army of scientists, and city of laboratories are at your service. The men listed below are your guides to this realm of experiment. Make a list of your knottiest problems (you too, Ma) and mail or take it to the one in your state.

(Courtesy—L. A. Schlup—Division of Extension Information)

State	
Alabama:	P. O. Davis, Alabama Polytechnic Institute, Auburn.
Arizona:	C. U. Pickrell, University of Arizona, Tucson.
Arkansas:	W. R. Horlacher, College of Agriculture, University of Arkansas, Fayetteville. *(Aubrey D. Gates, Associate Director, 524 Post Office Building, Little Rock.
California:	B. H. Crocheron, College of Agriculture, University of California, Berkeley 4.
Colorado:	F. A. Anderson, Colorado Agricultural and Mechanical College, Fort Collins.
Connecticut:	R. K. Clapp, Acting Director, University of Connecticut, Storrs.
Delaware:	G. L. Schuster, University of Delaware, Newark.
Florida:	A. P. Spencer, Agricultural Extension Service, Experiment Station, Gainesville.
Georgia:	Walter S. Brown, Georgia State College of Agriculture, Athens.
Idaho:	E. J. Iddings, Extension Director, College of Agriculture, University of Idaho, Moscow.
Illinois:	H. P. Rusk, College of Agriculture, University of Illinois, Urbana.
Indiana:	H. J. Reed, Purdue University, La Fayette.
Iowa:	R. K. Bliss, Iowa State College of Agriculture and Mechanic Arts, Ames.
Kansas:	H. J. C. Umberger, Kansas State College of Agriculture and Applied Science, Manhattan.
Kentucky:	T. P. Cooper, College of Agriculture, University of Kentucky, Lexington 29.
Louisiana:	H. C. Sanders, Louisiana State University and Agricultural and Mechanical College, University Station, Baton Rouge 3.
Maine:	A. L. Deering, College of Agriculture, University of Maine, Orono.
Maryland:	T. B. Symons, University of Maryland, College Park.
Massachusetts:	W. A. Munson, Massachusetts State College, Amherst.
Michigan:	R. J. Baldwin, Michigan State College of Agriculture and Applied Science, East Lansing.
Minnesota:	Paul E. Miller, Department of Agriculture of the University of Minnesota, University Farm, St. Paul 8.
Mississippi:	L. I. Jones, Mississippi State College, State College.
Missouri:	J. W. Burch, College of Agriculture, University of Missouri, Columbia.
Montana:	J. C. Taylor, Montana State College of Agriculture and Mechanic Arts, Bozeman.
Nebraska:	W. H. Brokaw, College of Agriculture, University of Nebraska, Lincoln 1.
Nevada:	C. W. Creel, Agricultural Extension Division, University of Nevada, Reno.
New Hampshire:	H. B. Stevens, University of New Hampshire, Durham.
New Jersey:	(W. H. Martin, State College of Agriculture and Mechanic Arts of Rutgers University, New Brunswick. *(L. G. Cook, Associate Director, College of Agriculture, New Brunswick.
New Mexico:	A. B. Flite, New Mexico College of Agriculture and Mechanic Arts, State College.
New York:	L. B. Simons, New York State College of Agriculture, Ithaca.
North Carolina:	I. O. Schaub, State College Station, Raleigh.

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North Dakota:	E. J. Haslerud, North Dakota Agricultural College, State College Station, Fargo.
Ohio:	H. C. Ramsower, College of Agriculture, Ohio State University, Columbus 10.
Oklahoma:	Shawnee Brown, Oklahoma Agricultural and Mechanical College, Stillwater.
Oregon:	W. A. Schoenfeld, Oregon State Agricultural College, Corvallis.
Pennsylvania:	J. M. Fry, Pennsylvania State College, State College.
Rhode Island:	H. O. Stuart, Rhode Island State College, Kingston.
South Carolina:	D. W. Watkins, Clemson Agricultural College of South Carolina, Clemson.
South Dakota:	George I. Gilbertson, Acting Director, South Dakota State College of Agriculture and Mechanic Arts, Brookings.
Tennessee:	C. E. Brehm, College of Agriculture, University of Tennessee, Knoxville 7.
Texas:	Ide P. Trotter, Agricultural and Mechanical College of Texas, College Station.
Utah:	W. W. Owens, Utah State Agricultural College, Logan.
Vermont:	J. E. Carrigan, College of Agriculture, University of Vermont, Burlington.
Virginia:	L. B. Dietrick, Virginia Polytechnic Institute, Blacksburg.
Washington:	J. C. Knott, State College of Washington, Pullman.
West Virginia:	J. O. Knapp, College of Agriculture, West Virginia University, Morgantown.
Wisconsin:	W. W. Clark, Associate Director, College of Agriculture, University of Wisconsin, Madison 6.
Wyoming:	A. E. Bowman, College of Agriculture, University of Wyoming, Laramie.

*All general correspondence is conducted by the associate director. N.B. The pictures in Life magazine in the story of *The Old Farmer's Almanac* which appeared last Spring were taken with the cooperation of the Extension Service at Blacksburg, Va.

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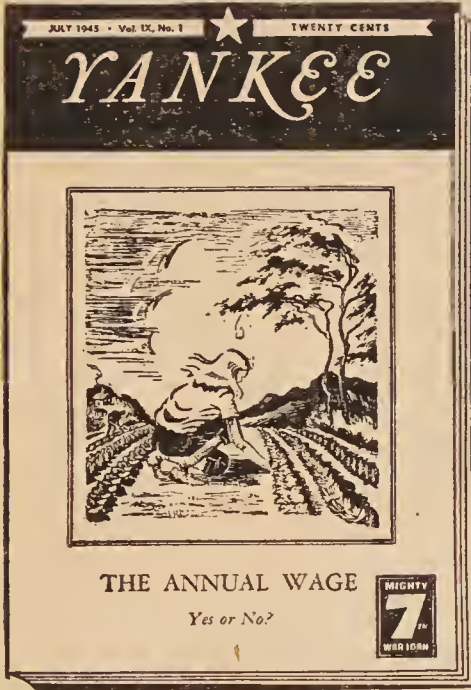
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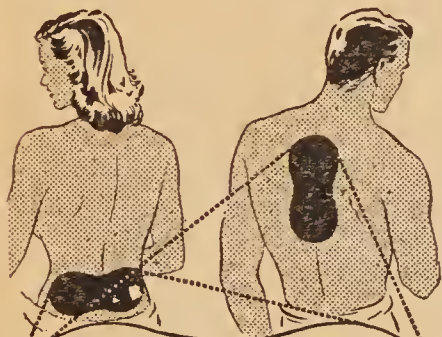
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USE IT UP — MAKE IT DO

This idea is not new to farmers. Too many generations of us have worn shirt-tail aprons and cut-down trousers. We know that *nothing* is "waste". What the compost pile won't take — like broken glass and chip dirt — can be used for filling swamp holes and wash-outs.

With a pine tree, now, you get lumber to build and slabs for rough patching and for fire wood. Edgings make kindling, and tops you can sell for summer wood or keep yourself. The brush, burned on top of the snow, is fine fertilizer for hay land, and the sawdust you use in the ice-house and to bed stock. When the roots are rotted enough to pull out easily, some people like them to burn in fireplaces.

Everything has some use. My wife got hold of two old dull hog scrapers. She cleaned them up and prettied them with paint, and guess what? They are a pair of good looking candlesticks on our kitchen table. You can't beat women.

John Decoven Berry



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THE HURRICANE OF SEPT. 8-16, 1944

(Courtesy U. S. Weather Bureau and Army Air Forces)

The hurricane of Sept. 8-16 reaped 390 lives—344 of which it found at sea. This compares with 494 taken by the storm of Sept. 17-21, 1938. Property damage total for the 1944 hurricane was one hundred million against $2\frac{1}{2}$ to $3\frac{1}{3}$ times that figure for that of 1938. Lowest barometric readings—27.94 inches in 1938, 27.97 inches in 1944—were as close as the wind velocities—87 miles an hour at Providence, R. I. in 1938, 82 miles an hour at Block Island in 1944. The highest single wind velocity reading in 1938 was 183 miles per hour at Blue Hill observatory. That of 1944 was 150 miles per hour at Cape Henry, Virginia.

Meteorological sensation of the 1944 storm was perhaps the daring penetration of Col. Floyd B. Wood, Maj. Harry Wexler, and Lieut. Frank Record to the center of the hurricane in a Douglas *Havoc* plane . . . with the scientific end of determining the amount of turbulence inside these storms and its effect on aircraft flight.

These three streaked into the towering jet black hurricane wall near Hampton, Virginia. They found themselves immediately in almost total darkness—well, let's let Col. Wood tell it:—"Altitude was 3000 feet. A drift correction of 30° was allowed to account for the estimated 100 m.p.h. cross wind encountered at the outer edge of the storm. Immediately on entering the outer edge, the atmosphere turned very dark and a blanket of heavy rainfall was encountered. Very surprisingly, a strong but steady down current also was encountered. This phenomenon is contrary to the heretofore generally accepted principle that the outer portion of a hurricane contains ascending rather than descending air."

At one time an opening in the clouds below revealed three ships seemingly altogether covered by huge waves. Spray surged two hundred feet in to the air.

"The flight was continued on toward the assumed position of the center of the hurricane. Although the downdraft continued to be of considerable strength, very little turbulence was encountered. The airplane lost a speed of about 70 m.p.h. in the necessary climb required to compensate for the downward motion of the air.

"The heavy rain continued. At a point approximately 50 or 60 miles from the outer edge of the storm, we suddenly emerged into an area of rising air. This area also contained fairly dense clouds below, but very thin clouds overhead. The vertical component of the air movement was of such magnitude that the airplane was lifted from the 3,000-foot level to 5,000 feet before power could be reduced and the airplane nosed downward.

"Turbulence in this area also was considerably more severe than in the zone of descending air just passed through, but was not of enough severity to endanger the flight. Although the flight was continued for a few minutes on toward the point where the center was assumed to be, the conditions of flight remained constant—that is, moderate turbulence, rising air, and the sun faintly visible through the thin clouds overhead.

"Presumably, we were off to one side or other of the center, but not finding the exact center and not knowing the direction in which to fly to find the exact center, the airplane was turned around and flown on a track which was estimated would lead toward Norfolk. An altitude of 5,000 feet was maintained on the way out. The dark band of descending air and heavy rainfall was traversed in the reverse order as during the incoming flight. We emerged from the hurricane at a point approximately 30 miles northeast of Norfolk."

Valuable technical information was gleaned from the notes made by the flyers in the pitching plane. Colonel Wood also indicated that, although the flight proved that hurricanes can be flown through, it did not make it a certainty that all were navigable. He did not feel that this hurricane was a hurricane at its worst—or even typical of the breed. His advice to pilots desiring to repeat this flight was not to—if severe turbulence, hail or severe thunderstorm activity were present. In conclusion, after stating that a sturdy DC 3 would probably weather any such storm, he recommended that future examination of hurricane structure be made by approaches to the eye of the storm from the stratosphere . . . over the outer rim.



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STATISTICS OF 1944 PRESIDENTIAL ELECTION

Compiled from official sources by William Grof under direction of South Trimble, Clerk of the House of Representatives.

State	Electoral votes		Popular votes						Total
	Roosevelt (Democrat)	Dewey (Republican)	Roosevelt (Democrat)	Dewey (Republican)	Thomas (Socialist)	Watson (Prohibition)	Teichert ¹ (Socialist-Labor)	Others	
Alabama.....	11	5	198,918	44,540	190	1,095			244,743
Arizona.....	4	3	80,926	56,287		421			137,634
Arkansas.....	9	7	148,965	63,551	438				212,954
California.....	25	23	1,988,564	1,512,965	23,923	14,770	2,327	8,326	3,520,875
Colorado.....	8	6	234,331	268,731	1,977				505,039
Connecticut.....	8	5	435,146	390,527	5,097		1,220		831,990
Delaware.....	3	3	68,166	56,747	154	294			125,361
Florida.....	8	5	339,377	143,215					482,592
Georgia.....	12	10	268,187	56,506		36		4,332	328,111
Idaho.....	4	3	107,399	100,137	282	503			208,321
Illinois.....	28	23	2,079,479	1,939,314	180	7,411	9,677		4,036,061
Indiana.....	13	11	781,403	875,891	2,223	12,574			1,672,091
Iowa.....	10	10	499,876	547,267	1,511	3,752	193		1,052,599
Kansas.....	8	8	287,458	442,096	1,613	2,609			733,776
Kentucky.....	11	10	472,589	392,448	535	2,023	326		867,921
Louisiana.....	10	9	281,564	67,750				6,69	349,353
Maine.....	8	5	140,631	155,434			335		296,400
Maryland.....	10	10	315,490	292,949					608,439
Mass.....	16	16	1,035,296	921,350		973	2,780	649,594	2,009,993
Michigan.....	19	19	1,106,899	1,084,423	4,598	6,503	1,264	71,530	2,205,217
Minnesota.....	11	11	859,864	527,416	5,073		1,376		1,125,529
Mississippi.....	9	9	158,515	3,742				917,823	180,680
Missouri.....	15	15	807,357	761,175	1,750	1,175	221		1,571,678
Montana.....	4	4	112,556	93,163	1,296	340			207,355
Nebraska.....	6	6	233,246	329,880					563,126
Nevada.....	3	3	29,623	24,611					54,234
N. H.....	4	4	119,663	109,916	46				229,625
New Jersey.....	16	16	987,874	961,335	3,358	4,255	6,939		1,963,761
New Mexico.....	4	4	81,389	70,688		148			152,225
New York.....	47	47	3,304,238	2,987,647	10,553		14,352		6,316,790
No. Carolina.....	14	14	527,399	263,155					790,554
No. Dakota.....	4	4	100,144	118,535	943	549			220,171
Ohio.....	25	25	1,570,763	1,532,293					3,153,056
Oklahoma.....	10	10	401,549	319,424		1,663			722,636
Oregon.....	6	6	248,635	225,365	3,785	2,362			480,147
Penn.....	35	35	1,940,479	1,835,048	11,721	5,750	11,789		3,794,787
R. I.....	4	4	175,356	123,487		433			299,276
So. Carolina.....	8	8	90,601	4,547		365		117,862	103,375
So. Dakota.....	4	4	96,711	135,365					232,076
Tennessee.....	12	12	308,707	200,311	892	882			510,792
Texas.....	23	23	821,605	191,425	594	1,017		12135,689	1,150,330
Utah.....	4	4	150,088	97,891	340				248,319
Vermont.....	3	3	53,820	71,527				814	125,361
Virginia.....	11	11	242,276	145,243	417	4,399	90		388,485
Washington.....	8	8	486,774	361,689	3,824	2,596	1,645		856,328
W. Va.....	8	8	392,777	322,819					715,596
Wisconsin.....	12	12	650,413	674,532	13,205		1,002		1,339,152
Wyoming.....	3	3	49,419	51,921					101,340
Total.....	432	99	25,602,505	22,006,278	80,518	74,758	45,336	216,289	48,025,684

¹ Teichert and Albaugh were the Socialist-Labor Party candidates, but in Minnesota, New York and Pennsylvania they were the candidates of the Industrial Government Party.

² Write-In vote.

³ Scattering

⁴ Independent Democrats 3,373 votes and scattering 9 votes.

⁵ Independents.

⁶ Blanks 49,328 and scattering 266 votes.

⁷ America First Party.

⁸ Democratic-Farmer-Labor Party.

⁹ Regular Democrats 9,964 votes and Independent Republicans 7,859 votes.

¹⁰ Includes 496,405 American Labor Party votes and 329,235 Liberal Party votes.

¹¹ Southern Democrats 7,799 votes and Republican (Tolbert Faction) 63 votes.

¹² Texas Regulars 135,439 votes and America First 250 votes.

Note 1. (Courtesy Associated Press) One of the biggest surprises to political historians was the aggregate vote of 45,103,023 shown for all candidates for the House.

Official compilations of these figures were begun only after the 1942 election and a comparison for the previous Presidential year is not available.

The Democrats polled only a little more than 1,500,000 votes for Representative than the Republicans. The totals were: Democrats, 22,812,611; Republicans, 21,303,273.

Note 2. (Courtesy The Boston Globe) On the death of President Roosevelt, Harry S. Truman became the 32nd President of the United States. President Roosevelt was referred to as the 31st President, although his was the 32nd occupancy of the Presidency. The two non-consecutive terms of Grover Cleveland account for the apparent discrepancy. He is known as the 22nd President. . . . Benjamin Harrison, known as the 23rd President, served the intervening term from 1889 to 1893. According to Prof. Arthur M. Schlesinger, professor of American History at Harvard, although historians have established no official ruling, it is a general practice to "count the number of individuals who were President."

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