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SPRING

SUMMER

THE

OLD

FARMER'S

1960

ALMANAC

BY ROBERT B. THOMAS



BENJAMIN FRANKLIN



ROBERT B. THOMAS



AUTUMN



WINTER

Nichols

Price 35 Cents

THIS IS THE ORIGINAL ROBT. B. THOMAS FARMER'S ALMANAC FIRST ISSUED IN 1792 FOR THE YEAR 1793.

Weather Forecast, Fishing Days, Planting Tables.



Freedom writes in a big, bold hand

IT WAS QUIET now in the big room.

The weeks of talk were over. The moment of decision had come.

The man picked up the pen. Strange, to think he might hang for what he was about to do.

Hang! "Together or separately," as witty Mr. Franklin had put it.

Very well, then. He'd let them know that he'd gone into it with all his heart...with a clear conscience...with the deep conviction of a man who does what is right.

He smiled. The pen swept across the parchment, and the letters stood bold and clear: *John Hancock.*

John Hancock
MUTUAL LIFE INSURANCE COMPANY
BOSTON, MASSACHUSETTS

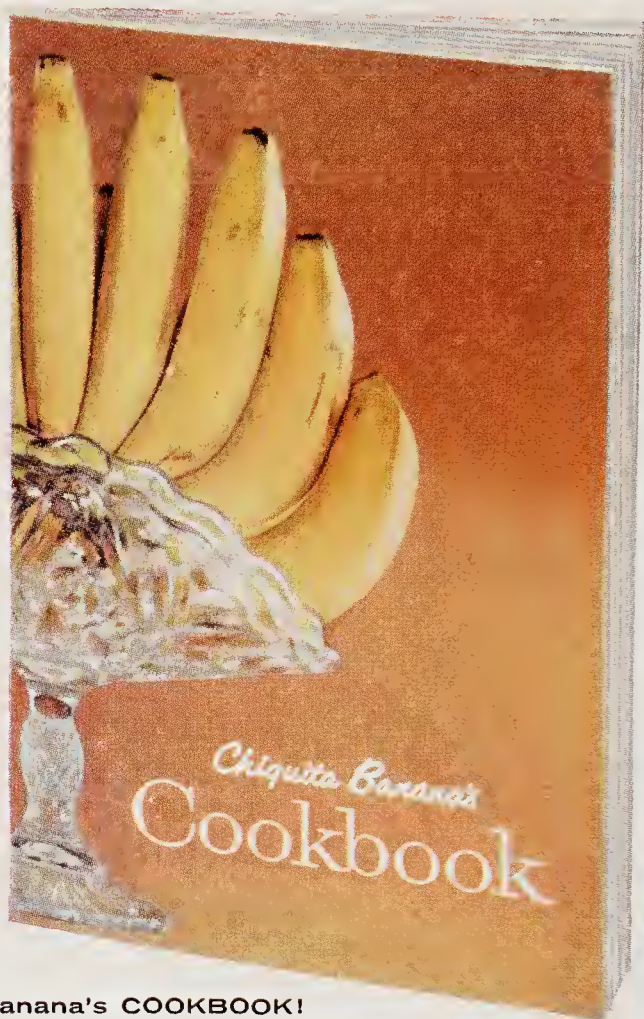


FALL
In the land of Evangeline, Nova Scotia

R. Estes

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NEW RECIPES!



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R.S.

Number One Hundred and Sixty-eight.

THE
(OLD)
FARMER'S ALMANACK,
CALCULATED ON A NEW AND IMPROVED PLAN
FOR THE YEAR OF OUR LORD

1960

Being LEAP YEAR, and (until July 4)
184th 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.



Ten Thousand Suns, prodigious Globes of Light;
At once in broad Dimensions strike our Sight;
Millions behind in the remoter Skies
Appear but Spangles to our wearied Eyes;
And when our wearied Eyes want further Strength;
To pierce the Void's immeasurable Length,
Our vigorous tow'ring Thoughts still further fly,
And still remoter flaming Worlds desery.

Nat. Ames, 1748

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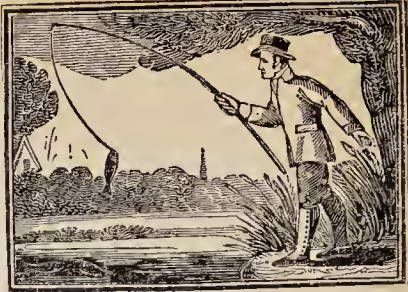
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GLOSSARY OF ASTRONOMICAL TERMS, ETC.

- 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.
- Conj.** — **conjunction** . . . moment of closest approach to each other of any two heavenly bodies.
- 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.
- El.** — **elongation** . . . apparent angular distance of a member of the solar system from the Sun as seen from the Earth.
- Inf.** — **Inferior** . . . Inferior conjunction is when the Planet is between the Sun and the Earth.
- Moon Runs High or Low** . . . day of month Moon Souths highest or lowest above the horizon.
- Opposition** . . . time when Sun, and Moon or Planet appear on opposite sides of the sky (elongation 180 degrees).
- 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.
- 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.
- 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.
- 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.
- Underground Moon** . . . one which changes its phases between 12 M. and 1 A.M.

To Patrons

This is the 168th consecutive annual edition of **The Old Farmer's Almanac(k)** . . . the oldest continuously published, in the same name and format, periodical in America. This edition is for the year 1960, or Atomic Year 16. Over one million copies have been printed and distributed for sale at newsstands, stationery stores, bookstores, drug stores, chain stores, and supermarket checkout counters.

The several imitators of this publication, under various devices of name, color, fact, and misappropriation of its valuable historical record and attributes, we regret to advise will shortly depart to join some 499 other similar imitations in the dark and dismal land of **discontinuance**. Nor shall they, poor dears, carry with them any of the profits dishonestly gained from such spurious imitation.

It will be noted that this Edition carries in addition to its usual content of "new, useful, and entertaining matter," a new section (pages 39 to 44) called Part Two. This is in the tradition of early almanac makers who were disposed to print an astrological meaning of the astronomical matter which appears here on pages 6 through 37. For those who may ridicule this "zodiacal thinking" (which includes ourselves), it is interesting to note that modern scientists are just now reporting so-called valuable findings with regard to the configurations of the planets noticed by the early astrologers. Is it possible, we wonder, that in some respects we must retrace jungle and desert paths to find the long discarded knowledge held by the Babylonians, Aztecs, and other dead civilizations, is useful to us after all? Or, to put this question another way, of what value is a material, physical law (steam and gas engines, jets, planes, H Bombs, ICBM's, et al) if it has no "creative" meaning? The law of existence is creation: indeed it may be said with Nature, birds, animals, flowers, trees, (humans too), creation is the whole purpose of existence. What is happiness? The individual experience of creation . . . love, children, craftsmanship, art, any accomplishment in building again or anew. We find little in today's rosters of scientific thinking or accomplishment which seems to enhance, rather than destroy, the creative powers of the *individual*. We urge the few readers of this page who will notice or understand these words to guard, continue, and extend their creative urge and belief, as they would life itself.

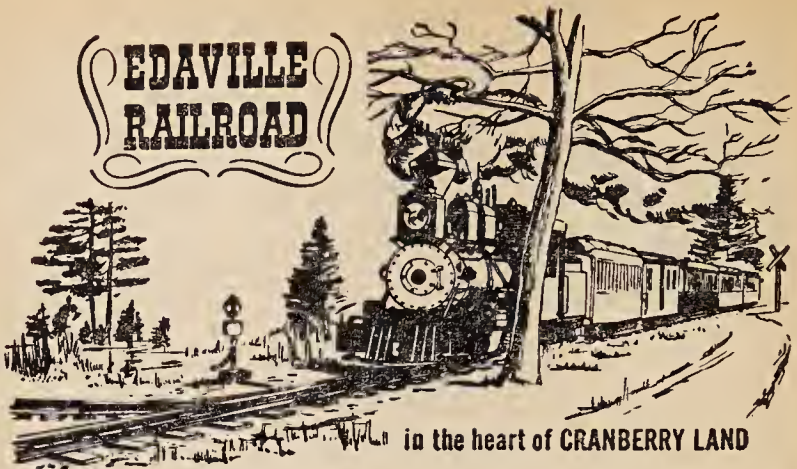
The Astronomical Matter in the Edition has been prepared by Loring B. Andrews and, as in other years, Benjamin Rice has contributed the delightful Farm Calendars at the right of pages 15-37, the Anecdotes and Pleantries, and the Puzzles. The Weather Forecasts are, of course, by the venerable Abe Weatherwise and his ancient inscrutable formulae.

B.A.T., Coehituate, Mass.: Your request as to who will be the next President is duly noted. In some mysterious way, if the Book of Revelations holds prophetic significance, the number "seyen" may hold your answer. S.I.M., Chicago, Illinois: You are idiotic to build and furnish your house as **you** want it to be. You will only have to do it over later the way your wife desires. L.M., New York City: Sir, you are wasting your money subscribing to expensive weather services for vacation, wedding, or business plans. Just count on the worst possible weather, then when the great day comes, and it is clear, you will be just that much happier. F.D., Sebago, Maine: No, we don't believe your mountain has moved these past fifty years, nor that the earth has tipped its axis to make you think it has. It is possible though that the deep frosts of recent years have tipped your porch where you keep your telescope the few degrees which make you wonder.

We are unable to find words or ways to express fully the gratitude this **Almanac** owes to the many without whose aid and interest it could not exist. We trust our own efforts in its behalf may continue to warrant your approbation. Man, however, in these things can only propose. God is the true disposer. In this then it is by our works and not our words we would be judged. These we hope will sustain us in the humble, though proud, station we have so long held, in the name of

Your ob'd servant,

W. O. P. Thomas.



*The Greatest Entertainment Value
in All New England*

There's fun in store for every member of the family when you visit Edaville during the Summer or Winter. Visitors will enjoy the nostalgic 5½ mile ride on real old time steam trains through the heart of Cape Cod's Cranberryland. Edaville serves a Chicken-Cranberry Barbecue daily and sea-fresh Swordfish in season during the Summer. Folks thrill while riding a real old Horse drawn Streetcar. Gaiety is always present when riding a beautiful hand carved and hand painted European Carousel. Bring your camera for real locomotives, streetcars, steamrollers, fire engines, etc. make wonderful settings for the photographer.

The museum at Edaville is one of the most comprehensive in the East with its collections of Antique Toy Trains and Railroadianna including the museum collection of the Railway and Locomotive Historical Society, Fire Engines and Equipment from The National Fire Museum Inc., Antique Guns featuring the Kentucky Rifle and Antique Autos dating back to 1905. During the month of December Edaville is colorfully illuminated with over one hundred thousand lights making it the most gigantic display east of the Mississippi at Christmas-Time.

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The Edaville Railroad is conveniently located in the Heart of Cape Cod's Cranberryland near Historic Plymouth, Mass.

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1960

Holidays

WEATHER

† Are recommended as "with pay" holidays—regardless of regular periods—for all commercial employes. (*) Quite generally observed. All dates are also included in abbreviated form in the Farm Calendars, pages 15-37. (**) State holidays only. (***) Observed some places though probably not holidays.

- Jan. 1 (**†) New Year's, Fri., Mild and clear.
- Jan. 8 (**) Battle of New Orleans
- Jan. 15 (**) Arbor (Fla.)
- Jan. 19 (**) Robert E. Lee's Birthday (South)
- Jan. 26 (**) MacArthur (Ark.)
- Jan. 30 (**) F. D. R.'s Day (Ky.)
- Feb. 12 (*) Lincoln's Birthday, (13 states), Fri., overcast.
- Feb. 14 (**) Admission Day (Ariz.)
- Feb. 14 (***) Valentine's Day
- Feb. 15 (***) Susan B. Anthony
- Feb. 22 (†) George Washington's Birthday, Mon., Stormy
- Mar. 1 (**) Mardi Gras (Ala., Fla., La.)
- Mar. 1 (**) State Day (Nebraska)
- Mar. 2 (**) Texas Ind. Day
- Mar. 7 (**) Burbank Day (Cal.)
- Mar. 15 (**) Jackson Day (Tenn.)
- Mar. 17 (**) St. Patrick's or Evacuation Day (Boston)
- Mar. 25 (**) Maryland Day
- Apr. 11 (**) Arbor (Utah)
- Apr. 12 (**) Halifax Day (N.C.)
- Apr. 13 (**) Jefferson Day (Ala., Mo., Neb., Okla., Va.)
- Apr. 14 (***) Pan American Day
- Apr. 15 (**) Good Friday (Ark., Cal., Conn., Del., Fla., Ill., Ind., La., Md., Minn., N. J., N. D., Penn. & Tenn.) Warm, clear
- Apr. 18 (**) Easter Mon (N. C.)
- Apr. 19 (**) Patriots' Day (Me., Mass.), Tues., Cool, perhaps stormy.
- Apr. 21 (**) San Jacinto (Tex.)
- Apr. 22 (**) Okla. Day (Neb.)
- Apr. 24 (***) Nat'l Arbor Day
- Apr. 25 (**) Fast Day (N. H.), Mon., Cool, perhaps stormy
- Apr. 26 (**) Memorial Day (Ala., Fla., Ga., Miss.)
- May 4 (**) R. I. Indep. Day
- May 8 (***) Mother's Day
- May 10 (**) Mem. Day (N. & S.C.)
- May 20 (**) Mecklenburg (N. C.)
- May 21 (**) Armed Forces Day
- May 30 (†) Decoration or Memorial Day, Mon., Rain
- June 3 (**) Jefferson Davis Day (Ala., Fla., Ga., Ky., La., Miss., S. C., Tenn., Tex.)
- June 14 (**) Flag (Mo. & Pa.)
- June 15 (**) Pioneer Day (Idaho)
- June 17 (**) Bunker Hill (Suffolk Co., Mass.), Fri., Stormy
- June 19 (****) Father's Day
- June 20 (**) West Virginia Day
- July 4 (†) Indep., Mon. Hot
- July 13 (**) Forrest's (Tenn.)
- July 24 (**) Pioneer Day (Utah)
- Aug. 1 (**) Colorado Day
- Aug. 14 (**) Victory (Ark., R. I.)
- Aug. 16 (**) Bennington, Vt. Bat.
- Aug. 30 (**) Huey Long (La.)
- Sept. 5 (†) Labor Day, Mon., Unsettled
- Sept. 9 (**) Admission Day (Cal.)
- Sept. 12 (**) Defender's (Md.)
- Sept. 16 (**) Cherokee (Okla.)
- Sept. 17 (***) Citizenship Day
- Sept. 23 (***) Am. Indian Day
- Oct. 3 (**) Missouri Day
- Oct. 10 (**) Okla. Hist. Day
- Oct. 11 (**) Pulaski Day (Neb.)
- Oct. 12 (†) Columbus (All states except 10), Wed., Showers
- Oct. 24 (***) United Nations Day
- Oct. 31 (**) Nevada Day
- Nov. 1 (**) All Saints' Day (La.)
- Nov. 4 (**) Will Rogers (Okla.)
- Nov. 8 (*) Election Day. Stormy
- Nov. 11 (†) Veterans' (All states except 4) Fri., Unsettled
- Nov. 14 (***) Sadie Hawkins Day
- Nov. 23 (**) Repudiation (Md.)
- Nov. 24 (†) Thanksgiving Day, Thurs., Storms
- Dec. 7 (**) Delaware Day
- Dec. 10 (**) Wyoming Day
- Dec. 21 (***) Forefather's Day
- Dec. 25 (†) Christmas Day Sun., Mild

LONG HOLIDAY WEEKENDS, 1960

The year 1960 promises more long weekend vacations than usual. Compared with 5 last year, this one holds 9: New Year's (Fri.), Lincoln's (Fri.), Washington's (Mon.), Memorial (Mon.), Independence (Mon.), Labor (Mon.), Vet's. (Fri.), Thanksgiving (Thurs.), and Christmas (Sun. cel. Mon.). Columbus Day falls on Wednesday this year. Days of various states are listed above. (Christmas in 1959 falls on a Friday.)

VENUS, MARS, JUPITER AND SATURN, 1960.

Below are given the times of the rising or setting of the Planets named, on the first, eleventh and twenty-first 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 82-85.

1960		VENUS			MARS			JUPITER			SATURN		
		h	m	Key	h	m	Key	h	m	Key	h	m	Key
JANUARY	1st	rises	3 56	A.M.	M	rises	5 52	A.M.	O	rises	5 40	A.M.	N
"	11th	"	4 17	A.M.	N	"	5 47	A.M.	O	"	5 11	A.M.	O
"	21st	"	4 36	A.M.	N	"	5 40	A.M.	O	"	4 41	A.M.	O
FEBRUARY	1st	rises	4 53	A.M.	N	rises	5 30	A.M.	O	rises	4 08	A.M.	O
"	11th	"	5 03	A.M.	N	"	5 19	A.M.	N	"	3 36	A.M.	O
"	21st	"	5 09	A.M.	N	"	5 06	A.M.	N	"	3 04	A.M.	O
MARCH	1st	rises	5 09	A.M.	M	rises	4 53	A.M.	N	rises	2 35	A.M.	O
"	11th	"	5 05	A.M.	L	"	4 37	A.M.	M	"	2 01	A.M.	O
"	21st	"	4 58	A.M.	K	"	4 19	A.M.	M	"	1 26	A.M.	O
APRIL	1st	rises	4 47	A.M.	J	rises	3 57	A.M.	L	rises	12 46	A.M.	O
"	11th	"	4 35	A.M.	I	"	3 37	A.M.	K	"	12 09	A.M.	O
"	21st	"	4 23	A.M.	H	"	3 15	A.M.	K	"	11 29	P.M.	O
MAY	1st	rises	4 12	A.M.	G	rises	2 54	A.M.	J	rises	10 46	P.M.	O
"	11th	"	4 03	A.M.	F	"	2 32	A.M.	I	"	10 04	P.M.	O
"	21st	"	3 56	A.M.	E	"	2 09	A.M.	I	"	9 22	P.M.	O
JUNE	1st	rises	3 53	A.M.	D	rises	1 44	A.M.	H	rises	8 34	P.M.	O
"	11th	"	3 56	A.M.	C	"	1 22	A.M.	G	rises	7 49	P.M.	O
"	21st	"	4 06	A.M.	C	"	1 00	A.M.	G	sets	4 12	A.M.	C
JULY	1st	sets	7 37	P.M.	O	rises	12 39	A.M.	F	sets	3 27	A.M.	C
"	11th	"	7 44	P.M.	N	"	12 18	A.M.	F	"	2 43	A.M.	C
"	21st	"	7 45	P.M.	N	"	11 57	P.M.	E	"	1 59	A.M.	C
AUGUST	1st	sets	7 41	P.M.	M	rises	11 36	P.M.	D	sets	1 13	A.M.	C
"	11th	"	7 32	P.M.	L	"	11 18	P.M.	D	"	12 31	A.M.	C
"	21st	"	7 21	P.M.	K	"	11 00	P.M.	D	"	11 47	P.M.	C
SEPTEMBER	1st	sets	7 07	P.M.	I	rises	10 41	P.M.	C	sets	11 05	P.M.	C
"	11th	"	6 55	P.M.	H	"	10 24	P.M.	C	"	10 28	P.M.	C
"	21st	"	6 42	P.M.	G	"	10 06	P.M.	C	"	9 52	P.M.	C
OCTOBER	1st	sets	6 30	P.M.	F	rises	9 47	P.M.	C	sets	9 17	P.M.	C
"	11th	"	6 20	P.M.	E	"	9 27	P.M.	C	"	8 43	P.M.	C
"	21st	"	6 16	P.M.	D	"	9 04	P.M.	C	"	8 10	P.M.	C
NOVEMBER	1st	sets	6 18	P.M.	C	rises	8 33	P.M.	C	sets	7 35	P.M.	C
"	11th	"	6 27	P.M.	C	"	8 00	P.M.	C	"	7 04	P.M.	C
"	21st	"	6 39	P.M.	C	"	7 21	P.M.	C	"	6 34	P.M.	C
DECEMBER	1st	sets	7 01	P.M.	C	rises	6 36	P.M.	C	sets	6 04	P.M.	C
"	11th	"	7 14	P.M.	C	"	5 43	P.M.	B	"	5 35	P.M.	C
"	21st	"	7 41	P.M.	E	"	4 45	P.M.	B	"	5 06	P.M.	C
"	31st	sets	7 04	P.M.	F	sets	7 36	A.M.	P	sets	4 38	P.M.	C

MORNING AND EVENING STARS, 1960

(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 February 23, June 19 and October 15. On these dates it will set 34 m., 1 h. 38 m., and 2 h. 22m., respectively, after sunset. It will be seen as a Morning Star when near its greatest western elongations, about April 7, August 5 and November 24, on which dates it will rise 2 h. 50 m., 1 h. 28 m., and 1 h. 46 m., respectively, before sunrise.

Venus will be a Morning Star over the first half of the year, until June 22 when it comes to conjunction. It will be an Evening Star for the balance of the year. Its peak brilliance during the year will occur at the year's beginning and at its end.

Mars will be a Morning Star for all but the last two days of the year. It comes to opposition on December 30.

Jupiter, like Venus, will be a Morning Star for the year's first half, until June 19 when it comes to opposition, and an Evening Star thereafter until the year's end.

Saturn, too, is a Morning Star until the year is half over, until July 7 when it comes to opposition and thereafter an Evening Star for the rest of the year.

March 25th offers an interesting opportunity to view Mercury. During the hour before sunrise on that date, the crescent of the waning moon will lie close together in essentially a straight line with the moon uppermost and Mercury close by the crescent's lower cusp. Some observers in the United States, primarily those west of the Mississippi, will see Mercury occulted by the moon before the sun has risen.

ECLIPSES FOR THE YEAR 1960

There will be four eclipses in 1960, two of the Sun and two of the Moon. Three of these will be visible from points within the United States, in whole or in part.

I. **A Total Eclipse of the Moon, March 13, 1960.** The beginning of this eclipse will be visible generally in North and South America, the Pacific Ocean but for its southwestern part, the northeastern tip of Asia, the Atlantic Ocean except its southeastern part, the west coasts of Europe and of North Africa, and parts of Antarctica. Its ending will be visible in North America except the extreme northeastern part, the western half of South America, the Pacific Ocean all but the west coast of Australia, New Zealand, the east coast of Asia and parts of Antarctica.

Times of special interest to observers in the United States follow. Moon enters earth's umbral shadow: 1.38 A.M. Total phase begins: 2.41 A.M. Total phase ends: 4.16 A.M. Moon leaves umbral shadow: 5.18 A.M. All times are E.S.T.

II. **A Partial Eclipse of the Sun, March 27, 1960.** This eclipse is visible solely from Australia except its north and east coasts, that part of Antarctica between longitudes 167°E. and 80°W. and the ocean between Australia and the South Pole.

III. **A Total Eclipse of the Moon, September 5, 1960.** The beginning of this eclipse will be visible in North America except the extreme northeastern part, the western half of South America, the Pacific Ocean, Australia except the west coast, New Zealand, the extreme northeastern coast of Asia, and parts of Antarctica. Its ending will be visible in Australia, New Zealand, Asia except the western part, the eastern part of the Indian Ocean, the Pacific Ocean the west coast of North America, and parts of Antarctica.

The umbral phase of this eclipse is such that only observers west of the Eastern Standard Time zone will be able to observe it in whole or in part, since, for many, the moon will set while this phase is in progress. Times of special interest to observers in the United States follow. Moon enters earth's umbral shadow: 4.36 A.M. Total eclipse begins: 5.38 A.M. Total eclipse ends: 7.06 A.M. Moon leaves umbral shadow: 8.08 A.M. All times are E.S.T.

IV. **A Partial Eclipse of the Sun, September 20, 1960.** This eclipse will be visible throughout the United States, including Alaska, but not Hawaii, except the easternmost parts, the U.S.S.R. east of Siberia, and the Arctic north of these areas. Observers east of the line from Ottawa, Canada, to Tallahassee, Florida, will not see this eclipse, for the eclipse will be beginning at sunset. Observers west of this line to a line running from longitude 100°W. in North Dakota to the western boundary of Texas will see part of the progress of the eclipse before the sun sets, the more the further west the observer is. To the west of the North Dakota-Texas line observers will see the entire eclipse.

The eclipse begins at 4.10 P.M., is at its maximum phase at 6.00 P.M., and is over at 7.50 P.M., all times E.S.T.

EARTH IN PERIHELION AND APHELION, 1960

The Earth will be in Perihelion on January 4, 1 P.M., distant from the Sun 91,344,000 miles. The Earth will be in Aphelion on July 2 4 P.M., distant from the Sun 94,455,000 miles.

TRANSIT OF MERCURY, 1960

Mercury crosses the line of sight from the earth to the sun on November 7 and will be seen projected against the sun's disc. This transit will be visible from the Americas, the Atlantic Ocean, Western Europe and Africa.

For all observers in the United States the transit will begin almost simultaneously at about 9.35 A.M.E.S.T., which means the sun will not have yet risen for observers in the far west. The transit's ending will be visible to all such observers, occurring about 2.12 P.M.E.S.T.

Mercury, seen as a dark spot against the sun's bright disc, will cross below the sun's center along a path from lower left toward upper right.

Since Mercury's disc will represent but about 1/200th that of the sun at the time of its transit a telescope, is needed adequately to view the transit, remembering that telescopic viewing of the sun requires special precaution and techniques, lest one's eyes be damaged.

FULL MOON DAYS — 1960, 1961, 1962

(Listed below in *that* order.)

Jan. 13 — 1	31 — 20	July 8 — 28 — 17
Feb. 12 —	— 19	Aug. 7 — 26 — 15
Mar. 13 — 2	— 21	Sept. 5 — 24 — 14
Apr. 11 — 1	30 — 19	Oct. 4 — 23 — 13
May 11 —	30 — 19	Nov. 3 — 22 — 11
Jun. 9 —	28 — 18	Dec. 3 — 22 — 11



GRANDMA'S GRANDDAUGHTER

says:

"You please your whole family every time you serve them tasty dishes made with flavorful Grandma's Unsulphured Molasses!"

Grandma knew that Grandma's Unsulphured Molasses was delicious...she knew it was healthful and nutritious, too, but she didn't know why! Grandma's Granddaughter knows why...because modern science has proven that Grandma's Unsulphured Molasses, with its natural iron, calcium, Vitamin B-1, and sugars helps build glowing health and red-blooded energy *nature's way!*

Serve it every day...on pancakes, waffles, biscuits, in milk for a delicious drink, and as "long sweetening" in coffee.

Cook and bake with it every day...in cakes, cookies, beans, baked ham, puddings, and hundreds of other ways.

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American Molasses Company,
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SUNSPOTS DO NOT AFFECT "OUR" WEATHER

by PROF. DR. M. WALDMEIER, Director
Observatoire Astron. Fédéral, Zurich, Switzerland

Early records of sunspot observations are reported in the Chinese annals of astronomy. There are recorded a number of 'deckles' from A.D. 188 onwards, but there are also a few of much earlier date, including one in the spring of 165 B.C. After the invention of the telescope sunspots were rediscovered in 1610 by different observers — Fabrieius, Scheiner, and Galileo. Until this time any dark spots seen on the sun were attributed either to planets passing between the sun and the earth or to blemishes pertaining to the more earthly regions. In 1612 Galileo described his results as follows: "Repeated observations have finally convinced me that these spots are substances on the surface of the solar body where they are continuously produced and where they are also dissolved, some in shorter and others in longer periods. And by the rotation of the sun, which completes its period in about a lunar month, they are carried round the sun; an occurrence important in itself and still more so for its significance."

Father Christopher Scheiner made his important recordings on sunspots from 1611 to 1625 in Ingolstadt; these were published in a large and magnificent volume in 1630 under the title "*Rosa Ursina sive sol*". Like Galileo he used a self-made telescope and projected the sun's image on a white screen. Scheiner determined the sun's rotation period was about 27 days and found that the axis of rotation was inclined to the plane of the earth's orbit by about 7°. He also distinguished between the black central part of a spot, the umbra, and its lighter surroundings or penumbra.

After this first period of sunspot observations very few records were made, probably because of a general absence of sunspots in the middle of the seventeenth century.

Throughout the eighteenth century numerous sunspot observations were carried out and reported by many astronomers, but very little progress resulted in the knowledge of the sunspots. In 1826 an apothecary of Dessau, Samuel Heinrich Schwabe started his famous sunspot-observations. He used a telescope of 6 feet focal length, and counted each day the number of sunspot-groups. After 18 years of observations he published in 1843 the remarkable result that the frequency of sunspots seems to follow a period of about 10 years. Years of sunspot maxima were in 1828 and 1837. For this discovery Schwabe was in 1857 awarded the Gold Medal of the Royal Astronomical Society of London. Schwabe began his sunspot-observations with the intention to discover a new planet when crossing the sun's disk. Therefore he wrote in 1859: "I may compare myself to Saul, who went out to seek his father's asses, and found a kingdom."

Once the periodicity of sunspots had been discovered, Rudolf Wolf of Zurich began a search through all recorded observations that he could find from 1610. He introduced the Sunspot-Relative-Numbers and demonstrated the existence of the solar cycle through two and a half centuries, from which he derived an average period of 11.1 years.

These sunspot-relative-numbers today represent the most frequently applied index of solar activity. Since solar observations can be carried out in Zurich but on about 320 days per year, the Swiss Federal Observatory established two branch stations: the Astrophysical Observatory in Arosa and the Specola Solare in Locarno. By the combination of these three observatories only a few blanks are remaining. These are covered by the collaboration of foreign observatories and amateur-astronomers. Thus, a complete record of the sunspot-relative-numbers is available for more than 100 years.

The single cycles of solar activity show different behaviours. The lengths of the periods vary from 7 to 14 years. Also the heights of the single maxima differ considerably. The sunspot maximum of the years 1957/58 is by far the highest for more than 200 years. For this reason the interest in sunspots has greatly increased recently.

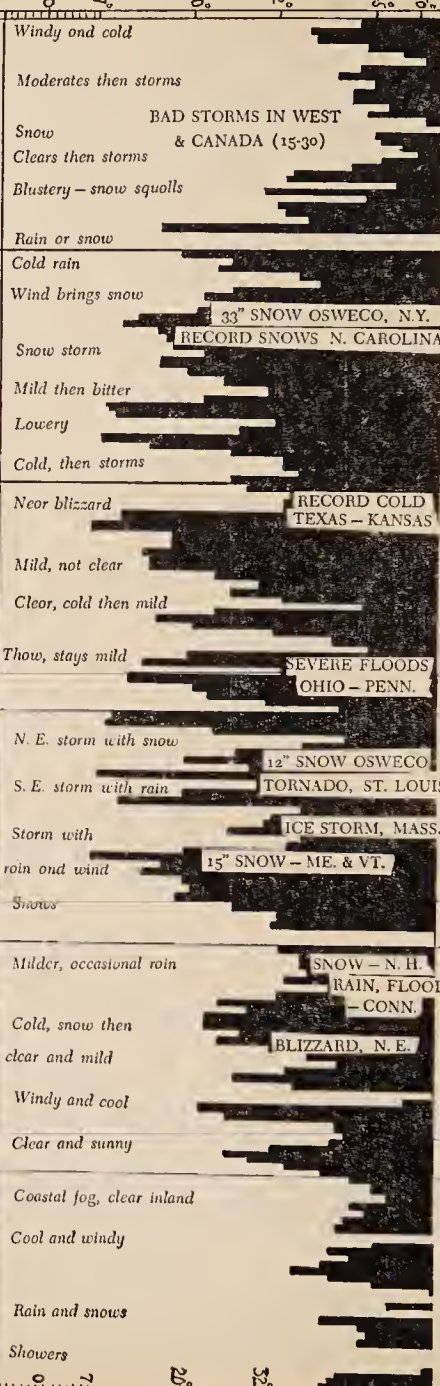
In 1852, when R. Wolf discovered that the geomagnetic variations show the same periodicity as the sunspot activity, the interest in the sunspots rose greatly too. Furthermore, later observations showed that the polar aurorae and — what is of practical importance — also that propagation of radio waves are subject to the frequency of sunspots; during the sunspot minimum long waves are to be used, whereas during the spot maximum, very short waves — down to 5 metres — are being used. The 11-year periodicity of the solar ac-

LAST WINTER'S WEATHER

AS RECORDED AT BLUE HILL OBSERVATORY, MILTON, MASSACHUSETTS, COMPARED WITH PREDICTIONS GIVEN IN THE 1959 OLD FARMER'S ALMANAC(K)

MONTH		DAILY RECORD										MONTHLY SUMMARY										
DAY	MONTH	FORECAST FULFILLED	ACTUAL RAIN & SNOW IN INCHES	RANGE GIVE DAYS WITH WIND OVER 20 MPH	BARONS	CIVIL DAYS	SCRIPT	IN IN	ARE ARE	TONS	D.C. PRE-20°	O.S.A. 20°	F.A.M.E. 32°	D.E. 45°	IN IN	E.A. TURES	TEMP. 45°	A.I.E. 50°	MONTH	PREDICTED TEMP. RAIN & SNOW	ACTUAL TEMP. RAIN & SNOW	
																						NOVEMBER '58
1	NOVEMBER '58																			NO SNOW	TEMP. 42°	NO SNOW
15		75%																		TEMP. 35-40°	3.26" RAIN	
30																				6-8" RAIN		
1	DECEMBER																			7.7" SNOW	TEMP. 22.5°	7.7" SNOW
15		59%																		TEMP. 25-28°	1.75" RAIN	
31																				5.7" SNOW	3.4" RAIN	
1	JANUARY '59																			7.2" SNOW	TEMP. 25.2°	4.7" SNOW
15		87½%																		TEMP. 21-26°	2.09" RAIN	
31																				2.6" RAIN		
1	FEBRUARY																			12-15" SNOW	TEMP. 24°	10.9" SNOW
15		60%																		TEMP. 25-28°	3.65" RAIN	
28																				3.4" RAIN		
1	MARCH																			0-1.2" SNOW	TEMP. 33.6°	22.3" SNOW
15		87½%																		TEMP. 33-36°	5.7" RAIN	
31																				1.4" SNOW		
1	APRIL																			NO SNOW	TEMP. 45.9°	NO SNOW
15		60%																		TEMP. 45-47°	4.19" RAIN	
30																				3" RAIN		

LAST YEAR'S OVERALL FORECAST — "MILDER THAN USUAL" — SHOULD HAVE BEEN AND WAS MEANT AS "MORE OPEN THAN USUAL" — SAYS SINGLELINE ABE WEATHERWISE



Weather Forecast

(Applies to Boston but will work for other places by subtracting one day for each Time Zone west, by reading five deg. lower temperature for every 100 miles north of 42 Lat. N. or 5 deg. higher for every 100 mi. South of 42 Lat. N. and by considering every 1000 feet of altitude is five degrees cooler.)

This is June 8, 1959. On the facing page you will note how last year's forecast compared with what actually happened (71% "successful" for Nov.-Apr.). Herewith are Abe Weatherwise's summary and monthly breakdowns for 1960. The verses on pages 15-37, of course, are his original mss.—the data here being just a prose translation.

The Winter (Nov., Dec. 1959, Jan., Feb., Mar., Apr. 1960) will be warmer than last year—and close to average temperature. There will be much more snow and precipitation but this will occur in storms of some severity. Look for about 45 inches prec. and 46° ave. temp.—a cold January, February, March, late Spring, hot dry Summer and Fall.

November, 1959. Temp. 38-42 (3 to 7 above normal). Trace of snow. 1-4" rain. 1-6, Clears off windy; 8-14, Rain, snow flurries in places; 15-22, Rain, wind, and snow; 23-30, Clears off cold.

December, 1959. Temp. 25-32 (Normal). 2-4" snow, 2-3" rain. 1-5, Northeast with sleet; 6-12, Fair but chilly; 13-20, Milder with rain; 21-27, Clears then snow flurries; 28-31, Fair and colder.

January, 1960. Temp. 20.5°, Prec. 3.67" (20" snow, 1.67" rain). 1-5, mild for now; 6-13, rain-violent winds-snow-colder; 14-18, clear-severe cold; 19-23, cloudy as warms up; 24-27, thaw with rain; 28-31, probably blizzard.

February. Temp. 22.7°, Prec. 4.48" (25" snow, 1.98" rain). 1-3, stormy; 4-5, blustery; 6-10, cold; 11-15, overcast; 16-29, blizzard-rain-floods.

March. Temp. 30.9°, Prec. 4.30" (30" snow, 1.3" rain). 1-5, warmer, intermittent storms; 6-9, cold-snow flurries; 10-13, unsettled; 14-22, threatening; 23-26, cold; 27-31, bad snowstorm.

April. Temp. 41.6°, Prec. 5.38" (10" snow, 4.38" rain). 1-3, clears off cold; 4-10, windy and wet; 11-6, warm and clear; 17-26, cooler, then a terrific storm; 27-30, nice.

May. Temp. 53.8°, Rain 3.27". 1-5, cool and clear; 6-11, cloudy with rain or snow; 12-15, humid; 16-18, rain; 19-25, changeable; 26-31, rain and flood(s).

June. Temp. 62.9°, Rain 4.33". 1-2, rain; 3-9, hot-tornadoes; 10-20, cool, then a big storm; 21-23, overcast; 26-27, hot-clear; 28-30, stormy.

July. Temp. 67.4°, Rain 2.39". 1-2, storms; 3-7, hot, occasional showers; 8-14, hot and dry; 15-17, rain; 18-26, great U.S. storm; 27-31, the usual.

August. Temp. 68.6°, Rain 3.29". 1-5, hot-dry; 6-10, storm; 11-20, cool-fine; 21-25, storm with rain; 26-31, cooler-changeable.

September. Temp. 60.9°, Rain 1.85". 1-2, rain; 3-6, unsettled; 7-13, high winds, perhaps gale with rain; 14-18, cool and fine; 19-23, cools toward a storm; 24-26, frosty; 27-30, gale.

October. Temp. 51.4°, Rain, 3.83". 1-4, clear and cool; 5-10, real nice; 11-18, cooler, perhaps showers; 19-27, the "great storm of 1960"; 28-31, cold.

November. Temp. 37.2°, Prec. 3.78" (rain 3.5", snow 2.8"). 1-8, colder, snow flurries; 9-12, unsettled; 13-20, warm-fine; 21-30, rain-snow-sleet-wind.

December. Temp. 31.9°, Prec. 4.34" (rain 3.34", snow 10"). 1-5, cold-high winds; 6-11, mild spell; 12-16, cold again — overcast; 17-22, storm with snow or rain; 23-25, mild; 26-31, fine-cold.

N. B. For verification, compare the above with the monthly and annual summaries issued by the Blue Hill Meteorological Observatory, Milton, Massachusetts.

1 9 5 9

JANUARY.							FEBRUARY.							MARCH.							APRIL.							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
-	-	-	-	1	2	3	1	2	3	4	5	6	7	1	2	3	4	5	6	7	-	-	-	1	2	3	4	
4	5	6	7	8	9	10	8	9	10	11	12	13	14	8	9	10	11	12	13	14	5	6	7	8	9	10	11	
11	12	13	14	15	16	17	15	16	17	18	19	20	21	15	16	17	18	19	20	21	12	13	14	15	16	17	18	
18	19	20	21	22	23	24	22	23	24	25	26	27	28	22	23	24	25	26	27	28	19	20	21	22	23	24	25	
25	26	27	28	29	30	31	-	-	-	-	-	-	-	29	30	31	-	-	-	-	26	27	28	29	30	-	-	
MAY.							JUNE.							JULY.							AUGUST.							
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3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8	
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15	
17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22	
24	25	26	27	28	29	30	28	29	30	-	-	-	-	26	27	28	29	30	31	-	23	24	25	26	27	28	29	
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SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.							
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13	14	15	16	17	18	19	18	19	20	21	22	23	24	15	16	17	18	19	20	21	13	14	15	16	17	18	19	
20	21	22	23	24	25	26	25	26	27	28	29	30	31	22	23	24	25	26	27	28	20	21	22	23	24	25	26	
27	28	29	30	-	-	-	-	-	-	-	-	-	-	29	30	31	-	-	-	27	28	29	30	31	-	-		
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Bold Face Dates **1 9 6 0** **Best Fishing Days**

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

JANUARY.							FEBRUARY.							MARCH.							APRIL.								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
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15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18	9	10	11	12	13	14	15	18	
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22	22	
29	30	31	-	-	-	-	26	27	28	-	-	-	-	26	27	28	29	30	31	-	23	24	25	26	27	28	29	29	
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14	15	16	17	18	19	20	18	19	20	21	22	23	24	16	17	18	19	20	21	22	13	14	15	16	17	18	19	19	
21	22	23	24	25	26	27	25	26	27	28	29	30	-	23	24	25	26	27	28	29	20	21	22	23	24	25	26	26	
28	29	30	31	-	-	-	-	-	-	-	-	-	-	30	31	-	-	-	-	-	27	28	29	30	31	-	-	-	
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SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.								
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17	18	19	20	21	22	23	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	16	
24	25	26	27	28	29	30	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	23	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-	-	-	

Introduction

STANDARD TIME IS USED THROUGHOUT THIS ALMANAC

Add 1 hr April 24, (deduct it Oct. 30) for Daylight Saving Time
For States which retain September D.S.T. Closing Date, Deduct it Sept. 25.

Chronological Cycles for 1960.

Golden Number 4	Solar Cycle 9	Roman Indiction . . . 13
Epact 2	Dominical Letter*. C, B	Year of Julian Period 6673

*The Dominical Letter is used instead of the usual "S" for "Sunday" by almanac makers for determining at a glance (a) the year of the almanac, (b) on what day of the week any day of the month will fall.

Movable Feasts and Fasts for 1960.

Septuagesima Sun. Feb. 14	Good Friday Apr. 15	Whitsunday June 5
Shrove Sunday Feb. 28	Easter Sunday Apr. 17	Trinity Sunday June 12
Ash Wednesday Mar. 2	Low Sunday Apr. 24	Corpus Christi June 16
1st Sun. in Lent Mar. 6	Rogation Sun. May 22	1st Sunday in Advent Nov. 27
Palm Sunday Apr. 10	Ascension Day May 26	

THE SEASONS OF 1960.

Winter (1959) December 22	9.35 A.M. (Sun enters Capricornus)
Spring (1960) March 20	9.43 A.M. (Sun enters Aries)
Summer June 21	4.43 A.M. (Sun enters Cancer)
Fall September 22	8.00 P.M. (Sun enters Libra)
Winter December 21	3.27 P.M. (Sun enters Capricornus)

Names and Characters of the Principal Planets.

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

Names and Characters of the Aspects.

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

CALENDAR PAGE EXPLANATIONS AND SIGNS

On the right hand pages you will find every now and again the symbols given above conjoined in groups of three to give you what is happening in the heavens. See Glossary, Page 2. Example: ☉ ♃ ♁ on page 15 opposite Jan. 26 means Saturn and the Moon are on that day in conjunction, or nearest to each other. See also pages 82-86 which explain how you may correct these pages 15-37 for use anywhere in the U.S.A. See also pages 6, 7, 15-45, 82-85 and Glossary, 2.

THE MOON, THE ZODIAC, THE WEATHER

This ALMANAC is not easily produced. There are some 400,000 calculations which must be made, and verified. Before use, therefore, a thorough study of the explanations and cross references is recommended. Queries must be accompanied by stamped addressed reply envelope.

The LONG RANGE FORECASTS about the weather appear in prose on page 11 and in verse, *in italics*, on pages 15 through 37. Opposite January 1 to 5, on Page 15, you will note: "Rise and shine, the weather's fine." which means the Almanac expects this kind of weather during this period . . . in the Boston area. For adjustments to other localities see pages 11 and 81.

For those interested in the INFLUENCE OF THE MOON, ZODIAC, etc. fishermen will appreciate page 12 where the best Moon Dates for fishing are given; also when the Moon is in CNC, SCO, or PSC (pages 14-36) is most favorable. The new columns (pages 14 to 36) on Moon Rise and Set should be especially valuable. This is information carried *only* by this Almanac. Planters should consult Page 44 and the signs CNC, LIB, and SCO; brush cutters the full and last quarters of the Moon; post setters and women wanting permanent waves, TAU, LEO, and AQR. For tooth extraction, G'M, VIR, SGR, CAP, and PSC seem best. Such superstitions of course have no sensible value, but these are all here for those who believe they have.

A full coverage of zodiacal and moon saws is given in Part II, beginning on Page 39.

1960] JANUARY, FIRST MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /																																												
	1	23s.03	7	22 26	13	21 34	19	20 27	25	19 05	2	22 58	8	22 18	14	21 24	20	20 14	26	18 50	3	22 52	9	22 10	15	21 13	21	20 02	27	18 35	4	22 46	10	22 02	16	21 02	22	19 48	28	18 19	5	22 40	11	21 53	17	20 51	23	19 34	29	18 03	6	22 33	12	21 43	18	20 39	24	19 19	30

☽ First Quarter, 5th day, 1 h. 53 m., evening, E.

☾ Full Moon, 13th day, 6 h. 51 m., evening, E.

☾ Last Quarter, 21st day, 10 h. 01 m., morning, W.

● New Moon, 28th day, 1 h. 16 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 82-86, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☀		Key	☾		Key	Length of Days		Sun Past	Full Sea, Boston.		☽	Key	☽		Key	☽	☽	Place	Age
			Rises h. m.	Key		Sets h. m.	Key		h. m.	h. m.		Morn. h.	Eve h.			Rises h. m.	Key					
1	1	Fr.	7 13	O 4	22	C	9 09	12	0 $\frac{3}{4}$	1	9 $\frac{A}{M}$ 10	L	8 $\frac{P}{M}$ 08	G	AQR	3						
2	2	Sa.	7 14	O 4	23	C	9 10	12	1 $\frac{1}{2}$	1 $\frac{3}{4}$	9 48	K	9 15	G	PSC	4						
3	3	C	7 14	O 4	24	C	9 11	11	2 $\frac{1}{2}$	2 $\frac{3}{4}$	10 22	J	10 20	H	PSC	5						
4	4	M.	7 14	O 4	25	C	9 11	11	3 $\frac{1}{4}$	3 $\frac{3}{4}$	10 53	I	11 $\frac{P}{M}$ 22	I	ARI	6						
5	5	Tu.	7 14	O 4	26	C	9 12	11	4 $\frac{1}{4}$	4 $\frac{1}{2}$	11 24	H	—	—	ARI	7						
6	6	W.	7 14	O 4	27	C	9 13	10	5 $\frac{1}{4}$	5 $\frac{1}{2}$	11 $\frac{A}{M}$ 54	G	12 $\frac{A}{M}$ 23	J	ARI	8						
7	7	Th.	7 13	N 4	28	D	9 15	10	6 $\frac{1}{4}$	6 $\frac{1}{2}$	12 $\frac{P}{M}$ 26	G	1 21	K	TAU	9						
8	8	Fr.	7 13	N 4	29	D	9 16	9	7	7 $\frac{1}{2}$	12 59	F	2 18	L	TAU	10						
9	9	Sa.	7 13	N 4	30	D	9 17	9	8	8 $\frac{1}{2}$	1 36	E	3 14	L	G'M	11						
10	10	C	7 13	N 4	31	D	9 18	8	8 $\frac{3}{4}$	9 $\frac{1}{4}$	2 15	E	4 09	M	G'M	12						
11	11	M.	7 13	N 4	32	D	9 20	8	9 $\frac{1}{2}$	10	3 00	E	5 00	M	CNC	13						
12	12	Tu.	7 12	N 4	33	D	9 21	8	10	10 $\frac{1}{2}$	3 48	E	5 48	M	CNC	14						
13	13	W.	7 12	N 4	34	D	9 22	7	10 $\frac{3}{4}$	11 $\frac{1}{4}$	4 40	E	6 34	M	—	—						
14	14	Th.	7 12	N 4	35	D	9 24	7	11 $\frac{1}{4}$	11 $\frac{3}{4}$	5 37	F	7 15	M	CNC	15						
15	15	Fr.	7 11	N 4	37	D	9 26	6	—	0	6 35	F	7 52	L	LEO	16						
16	16	Sa.	7 11	N 4	38	D	9 27	6	0 $\frac{1}{2}$	0 $\frac{3}{4}$	7 35	G	8 28	K	LEO	17						
17	17	C	7 10	N 4	39	D	9 29	6	1 $\frac{1}{4}$	1 $\frac{1}{4}$	8 37	H	9 00	K	VIR	19						
18	18	M.	7 10	N 4	40	D	9 31	5	1 $\frac{3}{4}$	2	9 40	I	9 32	J	VIR	20						
19	19	Tu.	7 09	N 4	41	D	9 32	5	2 $\frac{1}{2}$	2 $\frac{3}{4}$	10 43	J	10 04	I	LIB	21						
20	20	W.	7 08	N 4	43	D	9 34	5	3 $\frac{1}{4}$	3 $\frac{3}{4}$	11 $\frac{P}{M}$ 49	K	10 36	H	LIB	22						
21	21	Th.	7 08	N 4	44	D	9 36	5	4 $\frac{1}{4}$	4 $\frac{3}{4}$	—	—	11 11	G	LIB	23						
22	22	Fr.	7 07	N 4	45	D	9 38	4	5 $\frac{1}{4}$	5 $\frac{3}{4}$	12 $\frac{A}{M}$ 57	L	11 $\frac{A}{M}$ 49	F	SCO	24						
23	23	Sa.	7 06	N 4	46	D	9 40	4	6 $\frac{1}{4}$	6 $\frac{3}{4}$	2 05	L	12 $\frac{P}{M}$ 33	E	SCO	25						
24	24	C	7 06	N 4	48	D	9 42	4	7 $\frac{1}{4}$	7 $\frac{3}{4}$	3 13	M	1 22	E	SGR	26						
25	25	M.	7 05	N 4	49	D	9 44	3	8 $\frac{1}{4}$	8 $\frac{3}{4}$	4 17	M	2 20	E	SGR	27						
26	26	Tu.	7 04	M 4	50	D	9 46	3	9 $\frac{1}{4}$	9 $\frac{3}{4}$	5 18	M	3 24	E	CAP	28						
27	27	W.	7 03	M 4	51	E	9 48	3	10	10 $\frac{3}{4}$	6 13	M	4 32	E	CAP	29						
28	28	Th.	7 02	M 4	53	E	9 51	3	11	11 $\frac{1}{2}$	7 00	L	5 42	F	AQR	0						
29	29	Fr.	7 01	M 4	54	E	9 53	3	11 $\frac{3}{4}$	—	7 42	K	6 53	G	AQR	1						
30	30	Sa.	7 00	M 4	55	E	9 55	2	0 $\frac{1}{4}$	0 $\frac{3}{4}$	8 18	K	8 00	H	PSC	3						
31	31	C	6 59	M 4	57	E	9 57	2	1 $\frac{1}{4}$	1 $\frac{1}{2}$	8 $\frac{A}{M}$ 52	J	9 $\frac{P}{M}$ 06	I	PSC	4						



-How shall I begin this Year?
How shall I please the Criticks Ear?
Or, what Muse must I invoke
That I may please all Sorts of Folk?

But that's a Task (I think) too hard;
For Me, — or any other Bard;
Then be content with what I send
To thee this Year, my honest Friend.
John Nathan Hutchins, 1798

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Fr.	Circumcision. Paul Revere born 1735	Rise
2	Sa.	Latest sunrises 2nd-6th	and
3	C	2nda. Ch. Holy Name	shine,
4	M.	Earth nearest the sun	weather's
5	Tu.	12th night Take down Xmas greens	fine.
6	W.	Epip. Good sleighing NYC 1808 & 1830	Violent
7	Th.	Roentgen's rays disc. 1896	winds,
8	Fr.	"Common Sense" Publ. 1776	snows,
9	Sa.	Violent winds, snowstorms, and quarrels tomorrow	rains,
10	C	1st S. a. Ep. Te. veth in	8 1/2
11	M.	Plough M. Cruns high	Old Abe
12	Tu.	Omaha's biggest news event, 1888	hereby
13	W.	The "Wolf" full moon	proclaims.
14	Th.	St. Hil. "Coldest day of the year"	Cold
15	Fr.	Molasses Flood Arbor Day Boston 1919 Florida	enough
16	Sa.	6 6 C Almlra Winter of wreck 1827 1816 began	9.0 for
17	C	2nda. Ep. Enche's comet 1786	9.2 9.9 ear
18	M.	Coldest day in 19th century 1857-hurr. to hoot	9.3 muffs.
19	Tu.	Lowest p.m. high tide	9.5 9.6 Mild
20	W.	FDR third term 1st and last in U.S.	9.6 for season,
21	Th.	6 9 2 Nautilus launched 1954	9.7 9.2 no good
22	Fr.	Rain, hall, snow, '59 rainbow-Dublin, NH	9.9 9.1 rea-
23	Sa.	Marriage Joseph & Mary Stanley's return 1878	10.0 9.1 son.
24	C	3rda. Ep. The Maine to Havana 1898	10.4 9.3 Thaw's
25	M.	Conversion of St. Paul	rides 6 2 here, rain,
26	Tu.	C Peri. 6 8 C 6 9 C Sup. 6 h C	Hol. Ark.
27	W.	Boston rec'd first fire engine (Eng.) 1879	11.5 10.3 too, we fear.
28	Th.	Mary appeared to Julian 1207	11.7 10.5 Winds blow,
29	Fr.	Blizzards No. West U.S. 1891	Aurelian ass. 275 — lots of
30	Sa.	F.D.R. Day Hol. Ky., W. Va.	10.6 11.3 snow.
31	C	4tha. Ep. 6 8 h C on Eq. Boston 1938	9.54" rain

My old friend the school teacher has a Currier & Ives print which has hung these many years in his classroom. It is a country schoolroom scene—America about 1850. The teacher is at his pulpiti-like desk, seated in a fine blue chair with gold fringe, far too elegant for the rough-beamed little room. "This man," whispers the chair, "is a foolish old tyrant, a pompous ass." Indeed he looks so, peering importantly over his steel-rimmed spectacles. He is explaining to a gentle, sweet-faced mother (coiffured and aproned in the Pennsylvania Dutch manner) that, really, her son is simply good for nothing, Mam—good for nothing. His contemptuous palm indicates the little boy in blue jeans who leans, toe to heel, against the formidable desk. His brow is puckered, his eyes brimmed with tears he must not shed. One finger traces and retraces a crack on the rough bench beside him, for he is bewildered and ashamed and terribly alone. His schoolmates whisper together and laugh at him. But his mother's eye is on him, too—with love and understanding, her half smile tender yet puzzled, less by the faults of her boy, I think, than by this teacher. That is the print. "Need I tell you," my friend asks, "what this tells me? It tells me to be humble. It tells me to be patient and understanding—and as wise as I can. This bad little boy has that lesson for me every day. I think I have learned it."

1960]

FEBRUARY, SECOND MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days			Days.			Days.			Days.					
	0	/		0	/		0	/		0	/				
1	17s.	14		7	15	27	13	13	31	19	11	27	25	9	16
2	16	57		8	15	09	14	13	11	20	11	06	26	8	54
3	16	40		9	14	50	15	12	51	21	10	44	27	8	32
4	16	22		10	14	30	16	12	30	22	10	22	28	8	09
5	16	04		11	14	11	17	12	09	23	10	00	29	7	46
6	15	46		12	13	51	18	11	48	24	9	38			

☽ First Quarter, 4th day, 9 h. 27 m., morning, E.

☾ Full Moon, 12th day, 12 h. 24 m., evening, W.

☾ Last Quarter, 19th day, 6 h. 48 m., evening, E.

● New Moon, 26th day, 1 h. 24 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 82-85, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☀ Rises h. m.	☀ Key	☀ Sets h. m.	☀ Key	Length of Days h. m.	Sun. m.	Full Morn. h.	Sea. Boston. h.	☽ Rises h. m.	☽ Key	☽ Sets h. m.	☽ Key	☽ Place	☽ Age
32	1	M.	6 58	M	4 58	E	10 00	2	2	2 $\frac{1}{4}$	9 $\frac{A}{M}$ 24	I	10 $\frac{P}{M}$ 08	J	ARI	5
33	2	Tu.	6 57	M	4 59	E	10 02	2	2 $\frac{3}{4}$	3 $\frac{1}{4}$	9 55	H	11 $\frac{P}{M}$ 09	K	ARI	6
34	3	W.	6 56	M	5 00	E	10 04	2	3 $\frac{1}{2}$	4	10 26	G	—	—	TAU	7
35	4	Th.	6 55	M	5 02	E	10 07	2	4 $\frac{1}{2}$	5	10 59	F	12 $\frac{A}{M}$ 08	K	TAU	8
36	5	Fr.	6 54	M	5 03	E	10 09	2	5 $\frac{1}{2}$	6	11 $\frac{A}{M}$ 35	F	1 05	L	G'M	9
37	6	Sa.	6 53	M	5 04	E	10 12	2	6 $\frac{1}{4}$	7	12 $\frac{P}{M}$ 13	E	2 00	M	G'M	10
38	7	☾	6 52	M	5 06	E	10 14	2	7 $\frac{1}{4}$	7 $\frac{3}{4}$	12 55	E	2 52	M	G'M	11
39	8	M.	6 51	M	5 07	F	10 16	1	8	8 $\frac{3}{4}$	1 42	E	3 42	M	CNC	12
40	9	Tu.	6 49	L	5 08	F	10 19	1	9	9 $\frac{1}{2}$	2 33	E	4 29	M	CNC	13
41	10	W.	6 48	L	5 10	F	10 22	1	9 $\frac{1}{2}$	10 $\frac{1}{4}$	3 27	E	5 12	M	LEO	14
42	11	Th.	6 47	L	5 11	F	10 24	1	10 $\frac{1}{4}$	10	4 25	F	5 52	L	LEO	15
43	12	Fr.	6 46	L	5 12	F	10 27	1	11	11 $\frac{1}{2}$	5 26	G	6 28	L	—	—
44	13	Sa.	6 44	L	5 13	F	10 29	1	11 $\frac{1}{2}$	—	6 29	H	7 02	K	LEO	16
45	14	☾	6 43	L	5 15	F	10 32	1	0	0 $\frac{1}{4}$	7 32	H	7 35	J	VIR	17
46	15	M.	6 42	L	5 16	F	10 35	1	0 $\frac{3}{4}$	1	8 36	I	8 07	I	VIR	18
47	16	Tu.	6 40	L	5 17	F	10 37	2	1 $\frac{1}{4}$	1 $\frac{3}{4}$	9 41	J	8 39	H	LIB	19
48	17	W.	6 39	L	5 19	F	10 40	2	2	2 $\frac{1}{2}$	10 48	K	9 13	G	LIB	20
49	18	Th.	6 37	L	5 20	F	10 43	2	3	3 $\frac{1}{4}$	11 $\frac{P}{M}$ 55	L	9 50	F	SCO	21
50	19	Fr.	6 36	L	5 21	F	10 45	2	3 $\frac{3}{4}$	4 $\frac{1}{4}$	—	—	10 31	F	SCO	22
51	20	Sa.	6 34	L	5 22	F	10 48	2	4 $\frac{3}{4}$	5 $\frac{1}{4}$	1 $\frac{A}{M}$ 02	M	11 $\frac{A}{M}$ 18	E	SGR	23
52	21	☾	6 33	K	5 24	G	10 51	2	5 $\frac{3}{4}$	6 $\frac{1}{2}$	2 05	M	12 $\frac{P}{M}$ 10	E	SGR	24
53	22	M.	6 31	K	5 25	G	10 53	2	6 $\frac{3}{4}$	7 $\frac{1}{2}$	3 06	M	1 09	E	CAP	25
54	23	Tu.	6 30	K	5 26	G	10 56	2	8	8 $\frac{1}{2}$	4 01	M	2 13	E	CAP	26
55	24	W.	6 28	K	5 27	G	10 59	2	9	9 $\frac{1}{2}$	4 50	M	3 21	F	AQR	27
56	25	Th.	6 27	K	5 29	G	11 02	2	9 $\frac{3}{4}$	10 $\frac{1}{2}$	5 33	L	4 30	G	AQR	28
57	26	Fr.	6 25	K	5 30	G	11 05	3	10 $\frac{3}{4}$	11 $\frac{1}{4}$	6 12	K	5 38	G	PSC	29
58	27	Sa.	6 24	K	5 31	G	11 07	3	11 $\frac{1}{2}$	—	6 48	J	6 45	H	PSC	1
59	28	☾	6 22	K	5 32	G	11 10	3	0	0 $\frac{1}{4}$	7 21	I	7 50	I	ARI	2
60	29	M.	6 21	K	5 34	G	11 13	3	0 $\frac{3}{4}$	1	7 $\frac{A}{M}$ 53	H	8 $\frac{P}{M}$ 52	J	ARI	3



The weather being cold and raw,
 Let not thy beast want hay nor straw;
 For if thou dost, thou may'st not fail,
 To lift them up then by the tall;
 If in that state long they abide,
 Your greatest gain will be their hide.

Anson Allen, 1825

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	M.	St. Bridget Tides {10.2	Storms until
2	Tu.	Pur. M. G'hog day Tides {9.9	you've had
3	W.	U.S. income tax bec. law 1913 Tides {9.5	your fill.
4	Th.	Petit Bras d'Or sunk by berg 1957 (1st since Titanic) 8.9	Freez-
5	Fr.	Am. 1rst almanac maker (Peirce) arr. Boston 1631 17.9	ing lakes
6	Sa.	Dickens born 1812 Tides {8.8	go boom, skaters
7	C	5th S. a. Ep. C in do. ♀♀h {8.8	
8	M.	Boy Scouts rides high ♂♂⊙ {8.9	zoom.
9	Tu.	Fireball just missed N.Y.C. 1913 Tides {9.1	Dull
10	W.	Venus contacted 1958 ♀ Stat. in R.A. {9.4	and
11	Th.	Daniel Boone R.I.'s richest born 1735 man d. 1854 19.6	cloudy,
12	Fr.	Lil. B. The "snow" full moon ♂♂C {9.9	but
13	Sa.	Hauptman gully 1935 {10.1	soon rowdy.
14	C	Sep. S. St. Val. {9.4	Hol. First a
15	M.	on Arthur Krock made Eq. Wash Times corr. 1932 10.2	big
16	Tu.	♂♀♂ Blizzard of 1958 {9.9	storm then it
17	W.	First showing Edison's talkies, 1931 Tides {10.1	turns
18	Th.	Auld Deer "worst in year" ♂♀C {10.1	warm.
19	Fr.	Japs invade Ball 1942 Tides {9.3	Rain brings
20	Sa.	Phillips Academy Exeter 1783 Sandwich Island waterspout 1858 {9.0	
21	C	Ser. S. runs low ♂♂C on	
22	M.	Wash birth. C in Cr. El. Am. drive to Rhine 1945 {10.5	Hol. exc. in onestate. floods,
23	Tu.	♀ E. {9.5	but
24	W.	♂♂C ♂E⊙ ♂♀C Tides {10.8	
25	Th.	Matthias Oregon Inst. state Apo. gasoline tax 1919 {11.1	alas
26	Fr.	Spectacles invented 1825 104 deg. Ringold Texas 1902 {11.2	
27	Sa.	♂♀C Snowed gold dust Germany 1877 Tides {10.6	no
28	C	Shrove S. C On Rep. party Eq. started 1854 {10.9	—
29	M.	♂ Stat. in R.A. Worcester became a city 1848 {10.5	buds.

It was a wonderfully big dining room with bold wall paper depicting Boston Harbor, its rippling waves and shipping and islands moving all around wherever you looked. On the creamy mantle two cloisonné vases guarded a still life oil, very dim, its fruit and limp pheasants mounting gloomily to the ceiling. Hessian andirons toasted their breeches at the tiny flames of a Sunday fire. Silver gleamed on dark mahogany. Winter sunlight danced on grandmother's snowy hair. Her black silk dress and white shawl were Whistler's Mother—but not grandmother. Grandmother was a comfortable old lady sitting to her Sunday dinner and sipping one of Uncle's good stiff appetizers.

Uncle, a jolly bachelor, was standing up to a great roast, now and then flinging a remark to a little boy in a Buster Brown collar. I was that little boy, come to dinner on the "every other Sunday to Grandmother's." My eyes were on ancient Bessie, the serving maid, standing plate in hand behind Uncle. Bessie had a fascinating way of rolling her mouth around and around as if she had a nut in it, and then swallowing wetly. I wanted to shout at her, "Have you really a nut in your mouth, or are your teeth loose? Why do you do this?"

Of course I never did, but to wonder was a kind of game. Dear Grandmother, dear Uncle, pray forgive me.

1960]

MARCH, THIRD MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	7s. 24	7	5 05	13	2 44	19	0s. 22	25	2 00						
2	7 01	8	4 41	14	2 20	20	0N. 02	26	2 24							
3	6 38	9	4 18	15	1 56	21	0 26	27	2 47							
4	6 15	10	3 54	16	1 33	22	0 49	28	3 11							
5	5 51	11	3 31	17	1 09	23	1 13	29	3 34							
6	5 28	12	3 07	18	0 45	24	1 37	30	3 57							

☽ First Quarter, 5th day, 6 h. 06 m., morning, W.

☾ Full Moon, 13th day, 3 h. 26 m., morning, W.

☾ Last Quarter, 20th day, 1 h. 41 m., morning, E.

● New Moon, 27th day, 2 h. 38 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 82-86 FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉ Rises h. m.	Key	☉ Sets h. m.	Key	Length of Days h. m.	Sun Fast m.	Full Sea, Boston. Morn. h.	Eve. h.	☽ Rises h. m.	Key	☽ Sets h. m.	Key	☽ Place	☽ Age
61	1	Tu.	6 19	K	5 35	G	11 16	3	1½	1¾	8 ^A _M 25	G	9 ^P _M 54	K	TAU	4
62	2	W.	6 17	K	5 36	G	11 19	4	2¼	2½	8 58	G	10 52	L	TAU	5
63	3	Th.	6 16	J	5 37	G	11 22	4	3	3½	9 33	F	11 ^P _M 49	L	TAU	6
64	4	Fr.	6 14	J	5 39	H	11 24	4	3¾	4¼	10 10	E	—	—	G'M	7
65	5	Sa.	6 13	J	5 40	H	11 27	4	4¾	5¼	10 51	E	12 ^A _M 43	M	G'M	8
66	6	B	6 11	J	5 41	H	11 30	4	5½	6¼	11 ^A _M 36	E	1 34	M	CNC	9
67	7	M.	6 09	J	5 42	H	11 33	5	6½	7	12 ^P _M 25	E	2 21	M	CNC	10
68	8	Tu.	6 08	J	5 43	H	11 36	5	7½	8	1 17	E	3 06	M	CNC	11
69	9	W.	6 06	J	5 44	H	11 39	5	8¼	8¾	2 14	F	3 47	M	LEO	12
70	10	Th.	6 04	J	5 46	H	11 42	5	9	9½	3 12	F	4 24	L	LEO	13
71	11	Fr.	6 02	J	5 47	H	11 44	6	9¾	10¼	4 15	G	5 00	K	VIR	14
72	12	Sa.	6 01	J	5 48	H	11 47	6	10½	11	5 18	H	5 34	J	—	—
73	13	B	5 59	J	5 49	H	11 50	6	11¼	11½	6 24	I	6 07	I	VIR	15
74	14	M.	5 57	J	5 50	H	11 53	7	—	0	7 31	J	6 40	H	LIB	16
75	15	Tu.	5 56	I	5 51	I	11 56	7	0¼	0½	8 39	K	7 14	H	LIB	18
76	16	W.	5 54	I	5 53	I	11 59	7	1	1¼	9 47	L	7 51	G	SCO	19
77	17	Th.	5 52	I	5 54	I	12 02	7	1¾	2¼	10 54	M	8 31	F	SCO	20
78	18	Fr.	5 50	I	5 55	I	12 05	8	2½	3	11 ^P _M 59	M	9 16	E	SGR	21
79	19	Sa.	5 49	I	5 56	I	12 07	8	3½	4	—	—	10 06	E	SGR	22
80	20	B	5 47	I	5 57	I	12 10	8	4½	5	1 ^A _M 00	M	11 ^A _M 03	E	CAP	23
81	21	M.	5 45	I	5 58	I	12 13	9	5½	6¼	1 56	M	12 ^P _M 04	E	CAP	24
82	22	Tu.	5 43	I	5 59	I	12 16	9	6½	7¼	2 46	M	1 09	E	AQR	25
83	23	W.	5 42	I	6 01	I	12 19	9	7¾	8¼	3 30	L	2 15	F	AQR	26
84	24	Th.	5 40	I	6 02	I	12 22	10	8¾	9¼	4 09	K	3 22	G	PSC	27
85	25	Fr.	5 38	I	6 03	I	12 25	10	9½	10	4 45	J	4 29	H	PSC	28
86	26	Sa.	5 37	H	6 04	J	12 27	10	10½	10	5 19	J	5 34	I	PSC	29
87	27	B	5 35	H	6 05	J	12 30	10	11¼	11½	5 51	I	6 36	J	ARI	0
88	28	M.	5 33	H	6 06	J	12 33	11	—	0	6 23	H	7 38	K	ARI	1
89	29	Tu.	5 31	H	6 07	J	12 36	11	0¼	0¾	6 55	G	8 39	L	TAU	2
90	30	W.	5 30	H	6 09	J	12 39	11	1	1½	7 29	F	9 37	L	TAU	4
91	31	Th.	5 28	H	6 10	J	12 42	12	1¾	2	8 ^A _M 05	F	10 ^P _M 33	M	G'M	5

1960]

APRIL, FOURTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	4N.44	7	7 01	13	9 13	19	11 20	25	13 21						
	2	5 07	8	7 23	14	9 35	20	11 41	26	13 40						
	3	5 30	9	7 45	15	9 56	21	12 01	27	13 59						
	4	5 53	10	8 08	16	10 18	22	12 21	28	14 18						
	5	6 15	11	8 30	17	10 39	23	12 41	29	14 37						
	6	6 38	12	8 52	18	11 00	24	13 01	30	14 55						

☽ First Quarter, 4th day, 2 h. 05 m., morning, W.

○ Full Moon, 11th day, 3 h. 28 m., evening, E.

☾ Last Quarter, 18th day, 7 h. 57 m., morning, W.

● New Moon, 25th day, 4 h. 45 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 82-86, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉ Rises h. m.	☉ Key	☉ Sets h. m.	☉ Key	Length of Days h. m.	Sun Fast. m.	Full Sea, Boston. Morn. h.	Full Sea, Boston. Eve. h.	☽ Rises h. m.	☽ Key	☽ Sets h. m.	☽ Key	☽ Place	☽ Age
92	1	Fr.	5 26	H	6 11	J	12 45	12	2 $\frac{1}{4}$	2 $\frac{3}{4}$	8 $\frac{A}{M}$ 45	E	11 $\frac{P}{M}$ 25	M	G'M	6
93	2	Sa.	5 24	H	6 12	J	12 48	12	3 $\frac{1}{4}$	3 $\frac{3}{4}$	9 28	E	—	—	G'M	7
94	3	B	5 23	H	6 13	J	12 50	13	4	4 $\frac{1}{2}$	10 15	E	12 $\frac{A}{M}$ 14	M	CNC	8
95	4	M.	5 21	H	6 14	J	12 53	13	4	5 $\frac{1}{2}$	11 $\frac{A}{M}$ 06	E	1 00	M	CNC	9
96	5	Tu.	5 19	H	6 15	J	12 56	13	5	6 $\frac{1}{2}$	12 $\frac{P}{M}$ 00	E	1 42	M	LEO	10
97	6	W.	5 18	H	6 16	J	12 59	13	6	7 $\frac{1}{4}$	12 58	F	2 20	L	LEO	11
98	7	Th.	5 16	H	6 18	K	13 02	14	7 $\frac{1}{2}$	8 $\frac{1}{4}$	1 58	G	2 56	L	VIR	12
99	8	Fr.	5 14	G	6 19	K	13 05	14	8 $\frac{1}{2}$	9	3 01	H	3 31	K	VIR	13
100	9	Sa.	5 13	G	6 20	K	13 07	14	9 $\frac{1}{4}$	9 $\frac{3}{4}$	4 05	I	4 03	J	VIR	14
101	10	B	5 11	G	6 21	K	13 10	14	10	10 $\frac{1}{4}$	5 12	J	4 36	I	LIB	15
102	11	M.	5 09	G	6 22	K	13 13	15	10 $\frac{3}{4}$	11	6 21	K	5 10	H	—	—
103	12	Tu.	5 08	G	6 23	K	13 16	15	11 $\frac{1}{2}$	11 $\frac{3}{4}$	7 31	L	5 47	G	LIB	16
104	13	W.	5 06	G	6 24	K	13 18	15	—	0 $\frac{1}{4}$	8 42	L	6 26	F	SCO	17
105	14	Th.	5 04	G	6 25	K	13 21	16	0 $\frac{1}{2}$	1	9 50	M	7 11	E	SCO	18
106	15	Fr.	5 03	G	6 27	K	13 24	16	1 $\frac{1}{4}$	2	10 54	M	8 01	E	SGR	19
107	16	Sa.	5 01	G	6 28	K	13 27	16	2 $\frac{1}{4}$	2 $\frac{3}{4}$	11 $\frac{P}{M}$ 53	M	8 57	E	SGR	20
108	17	B	5 00	G	6 29	K	13 29	16	3 $\frac{1}{4}$	3 $\frac{3}{4}$	—	—	9 58	E	CAP	21
109	18	M.	4 58	G	6 30	K	13 32	16	4 $\frac{1}{4}$	4 $\frac{3}{4}$	12 $\frac{A}{M}$ 45	M	11 $\frac{A}{M}$ 01	E	CAP	22
110	19	Tu.	4 56	G	6 31	L	13 35	17	5 $\frac{1}{4}$	6	1 30	L	12 $\frac{P}{M}$ 07	F	AQR	23
111	20	W.	4 55	F	6 32	L	13 37	17	6 $\frac{1}{4}$	7	2 11	K	1 14	G	AQR	24
112	21	Th.	4 53	F	6 33	L	13 40	17	7 $\frac{1}{2}$	8	2 47	K	2 19	H	PSC	25
113	22	Fr.	4 52	F	6 34	L	13 43	17	8 $\frac{1}{2}$	9	3 20	J	3 23	I	PSC	26
114	23	Sa.	4 50	F	6 36	L	13 45	18	9 $\frac{1}{4}$	9 $\frac{3}{4}$	3'51	I	4 25	J	ARI	27
115	24	B	4 49	F	6 37	L	13 48	18	10 $\frac{1}{4}$	10 $\frac{1}{2}$	4 22	H	5 27	J	ARI	28
116	25	M.	4 47	F	6 38	L	13 51	18	11	11 $\frac{1}{4}$	4 54	G	6 28	K	TAU	29
117	26	Tu.	4 46	F	6 39	L	13 53	18	11 $\frac{1}{2}$	11 $\frac{3}{4}$	5 27	F	7 27	L	TAU	1
118	27	W.	4 44	F	6 40	L	13 56	18	—	0 $\frac{1}{4}$	6 03	F	8 24	M	TAU	2
119	28	Th.	4 43	F	6 41	L	13 58	18	0 $\frac{1}{2}$	1	6 41	E	9 18	M	G'M	3
120	29	Fr.	4 42	F	6 42	L	14 01	18	1	1 $\frac{1}{4}$	7 23	E	10 09	M	G'M	4
121	30	Sa.	4 40	F	6 43	L	14 03	19	1 $\frac{3}{4}$	2 $\frac{1}{4}$	8 $\frac{A}{M}$ 09	E	11 $\frac{P}{M}$ 56	M	CNC	5

C. G. J. J. J.

New Moon, 1st day, 1st day

APRIL hath 30 days.

[1960



Early Rising. I do not know a practice which I should more recommend than early rising, whether devotion, health, beauty, or improvement of the mind were the object in view . . . What an unspeakable cheerfulness glides into the soul, from hearing the devotional matins of the lark, and from beholding the new-born scenery of nature! . . . In the spring month of April particularly, I grudge every moment wasted after five.

Bennett's Letters, 1824

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, Etc.	Farmer's Calendar.
1	Fr.	All Fool's Hol. {9.7 in Arbor Day Mich. {8.7	<i>Only foolies</i>
2	Sa.	☾ Apo. Ariz. {9.3 {8.3	<i>will shed</i>
3	B	☽ Pas. S. ☾ rides {9.0 high {8.1	<i>their woolies.</i>
4	M.	Cain born Peepers {8.7 Abel slain are peeping {7.9	<i>Windy,</i>
5	Tu.	Rosenbergs Eilhu Yale {8.6 convicted 1951 born 1649 {8.0	<i>real</i>
6	W.	☽☾ Peter martyr, Ist {8.6 Inquisitor ass. 1252 {8.2	<i>wet —</i>
7	Th.	♀ Gr. El. Jos. Thomson auctioned {8.8 W. off his wife 1832 {8.6	
8	Fr.	Lightning seen all over France 1866 Tides {9.2 {9.1	<i>that is</i>
9	Sa.	March into Egypt Tides {9.6 {9.6	<i>Old Abe's</i>
10	B	☽ Palm S. ☾ on Eq. {9.9 {10.2	<i>best bet.</i>
11	M.	The "pink" full moon Utah Hol. {10.2 {10.7	<i>See if</i>
12	Tu.	Pass. First day ☽☽☾ Hol. N.C. Tides {10.4 {11.0	<i>I</i>
13	W.	3 E. India men arr. Boston 1810 Hol. Ala., Mo., Neb., Okla., Va. {0.4 {0.4	
14	Th.	Maundy in Pan Am. {11.2 Thurs. ☾ Peri. day {10.3	<i>care,</i>
15	Fr.	G. Fri. Income taxes due {11.1 {10.1	<i>spring's in</i>
16	Sa.	☾ runs low ☽☽☾ {10.0 {9.7	<i>the air.</i>
17	B	Easter Great Sudbury, Mass. oak toppled, 1959 ☽☽☾	
18	M.	Ohio R. flood crest Cincinnati 64.8" 1948 {10.2 {9.2	<i>The mo-</i>
19	Tu.	Patriots' Day Me., Mass. {9.8 {9.1	<i>tion of the</i>
20	W.	St. Lawrence Seaway open 1959 ☽ Stat. in R.A. {9.7 {9.3	<i>ocean,</i>
21	Th.	"Mark Twain" d. 1910 ☽☽☾ Hol. Tex. {9.7 {9.8	<i>wind,</i>
22	Fr.	Witches around day Okla. {9.8 {9.9	<i>land and sky,</i>
23	Sa.	St. George ☽☽☾ on Eq. {9.9 {10.2	<i>remarks</i>
24	B	☽ Low S. D.S.T. begins in R.A. ☽☽☾ Stat. {9.8 {10.4	<i>a terrific</i>
25	M.	Mark, Ev. Fast holiday N.H. {9.8 {10.4	
26	Tu.	Conf. Mem. Day Ala., Fla., Ga., Miss. {9.7 {10.4	<i>commotion.</i>
27	W.	☽ Stat. in R.A. ☽☽☾ {9.5 {9.5	<i>Nature's fine</i>
28	Th.	Mutiny of Bounty 1789 {10.8 {9.2	<i>attire announces</i>
29	Fr.	National Arbor Day Tides {10.0 {9.0	<i>the season</i>
30	Sa.	☽ rides high ☾ Apo. Tides {9.8 {8.7	<i>of desire.</i>

DAYLIGHT SAVING: 9 becomes 10 PM —
23rd for 24th.

A farmer's herd, cow for cow, produces a lot more milk than his father's herd years ago—but not too many years ago. Our farmer isn't just out to fill his stanchions; what he buys is in the bag, though the truth is, thanks to careful breeding and management, it's harder to buy a poor cow today than a good one. Our farmer depends far more on barn feeding than pasturing—though he still has his pastures, of course. The feeding of minerals and vitamins, and silage, grass as well as corn, are part of the picture. Better fertilizers supplement the manure spreader. Likely he bales his own hay. Saves time and space. If he has less mowing, he gets more off it. Electric milkers, water bubblers by the stanchions, a milk room spotless, planned for time and dollar economy, means less help than Dad needed. Markets, largely through cooperatives or distributors, are assured. His consumers will increase forever. But since he serves a fundamental human need which cannot be exploited, his profits are limited. In many states he operates under rigid price controls. With this background for his business, to produce and expand, and make a fair profit, calls for utmost efficiency. Which largely explains why hundreds, perhaps thousands of farms, many of them milk producing, were sold or abandoned last year (there were 300 in one New England state). Milk business is a tough business.

1960]

MAY, FIFTH MONTH.

ASTRONOMICAL CALCULATIONS.

D's Declination.	Days.			Days.			Days.			Days.					
	0	/		0	/		0	/		0	/				
1	15	N	13	7	16	57	13	18	29	19	19	52	25	21	02
2	15		31	8	17	13	14	18	44	20	20	05	26	21	12
3	15		49	9	17	29	15	18	58	21	20	17	27	21	22
4	16		06	10	17	45	16	19	12	22	20	29	28	21	32
5	16		24	11	18	00	17	19	26	23	20	40	29	21	41
6	16		41	12	18	15	18	19	39	24	20	51	30	21	50

- ☽ First Quarter, 3rd day, 8 h. 01 m., evening, W.
- ☾ Full Moon, 11th day, 12 h. 43 m., morning, W.
- ☾ Last Quarter, 17th day, 2 h. 55 m., evening, W.
- New Moon, 25th day, 7 h. 27 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 82-86, FOR ALL POINTS OUTSIDE NEW ENGLAND

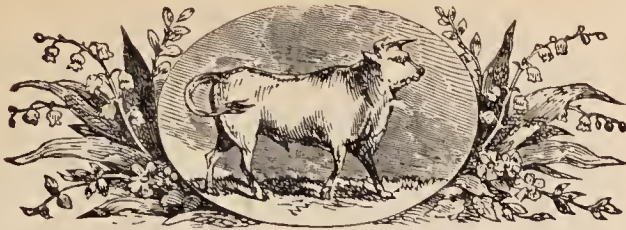
Day of Year	Day of Month	Day of Week	Rises h. m.	Key	Sets h. m.	Key	Length of Days h. m.	Sun Past m.	Full Sea, Boston. Morn. h. Eve. h.	☽ Rises h. m.	Key	☽ Sets h. m.	Key	☽ Place	☽ Age
122	1	B	4 40	F	6 45	L	14 06	19	2½ 3	8 ^A _M 58	E	11 ^P _M 39	M	CNC	6
123	2	M.	4 37	F	6 46	M	14 08	19	3¼ 4	9 50	E	—	—	LEO	7
124	3	Tu.	4 36	E	6 47	M	14 11	19	4¼ 4¾	10 45	F	12 ^A _M 18	M	LEO	8
125	4	W.	4 35	E	6 48	M	14 13	19	5 5¾	11 ^A _M 43	F	12 54	L	LEO	9
126	5	Th.	4 34	E	6 49	M	14 15	19	6 6½	12 ^P _M 43	G	1 28	K	VIR	10
127	6	Fr.	4 32	E	6 50	M	14 18	19	7 7½	1 46	H	2 01	J	VIR	11
128	7	Sa.	4 31	E	6 51	M	14 20	19	7¾ 8¼	2 51	I	2 33	I	LIB	12
129	8	B	4 30	E	6 52	M	14 22	19	8¾ 9	3 58	J	3 06	H	LIB	13
130	9	M.	4 29	E	6 53	M	14 25	19	9½ 9¾	5 08	K	3 40	G	SCO	14
131	10	Tu.	4 28	E	6 54	M	14 27	19	10¼ 10½	6 19	L	4 18	G	SCO	15
132	11	W.	4 26	E	6 55	M	14 29	19	11 11½	7 31	M	5 01	F	—	—
133	12	Th.	4 25	E	6 57	M	14 31	19	— 0	8 40	M	5 49	E	SGR	16
134	13	Fr.	4 24	E	6 58	M	14 33	19	0¼ 0¾	9 44	M	6 45	E	SGR	17
135	14	Sa.	4 23	E	6 59	M	14 36	19	1 1¾	10 40	M	7 46	E	CAP	18
136	15	B	4 22	E	7 00	N	14 38	19	2 2½	11 ^P _M 30	M	8 51	E	CAP	19
137	16	M.	4 21	D	7 01	N	14 40	19	3 3½	—	—	9 58	F	AQR	21
138	17	Tu.	4 20	D	7 02	N	14 42	19	4 4½	12 ^A _M 12	L	11 ^A _M 05	F	AQR	22
139	18	W.	4 19	D	7 03	N	14 44	19	5 5¾	12 49	K	12 ^P _M 12	G	PSC	23
140	19	Th.	4 18	D	7 04	N	14 45	19	6 6¾	1 23	J	1 16	H	PSC	24
141	20	Fr.	4 17	D	7 05	N	14 47	19	7 7¾	1 54	I	2 18	I	ARI	25
142	21	Sa.	4 16	D	7 06	N	14 49	19	8 8½	2 25	H	3 20	J	ARI	26
143	22	B	4 16	D	7 07	N	14 51	19	9 9¼	2 57	G	4 21	K	ARI	27
144	23	M.	4 15	D	7 07	N	14 53	19	9¾ 10	3 29	G	5 20	L	TAU	28
145	24	Tu.	4 14	D	7 08	N	14 54	19	10½ 10¾	4 02	F	6 17	L	TAU	29
146	25	W.	4 13	D	7 09	N	14 56	19	11¼ 11¼	4 39	E	7 12	M	G'M	0
147	26	Th.	4 13	D	7 10	N	14 58	19	11¾ —	5 20	E	8 04	M	G'M	1
148	27	Fr.	4 12	D	7 11	N	14 59	19	0 0½	6 04	E	8 52	M	CNC	2
149	28	Sa.	4 11	D	7 12	N	15 01	19	0¾ 1¼	6 51	E	9 37	M	CNC	3
150	29	B	4 11	D	7 13	N	15 02	18	1¼ 2	7 43	E	10 18	M	CNC	4
151	30	M.	4 10	D	7 14	N	15 03	18	2 2½	8 36	E	10 55	L	LEO	5
152	31	Tu.	4 10	D	7 14	N	15 05	18	2¾ 3½	9 ^A _M 33	F	11 ^P _M 29	L	LEO	6

Planetary

Net Sun

MAY hath 31 days.

[1960



The Life renewing Heat each Flower meets,
 Expands its Leaves, and gives forth all its sweets,
 Touch'd by the kindly Warmth, the Roses blow,
 And liquid Pearls amidst their Fragrance glow,
 The velvet Lillies milder Scents exhale,
 And give their Odours to the passing Gale.

Nathaniel Ames, 1743

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	B	2nd S. a. E. {9.4 8.5	Sleighing's
2	M.	72 hr. rain New Haven 1893 Tides {9.1 8.3	all over,
3	Tu.	Invention Birds & beasts of cross do bide away	now for
4	W.	Moses on Mt. Sinai 1491 B.C. ♂♂♂ Hol. {8.7 8.4	the
5	Th.	"To the pure all things are pure" ♂♀♀ {8.7 8.6	clover.
6	Fr.	Thoreau died 1862 Tides {8.9 9.1	Pregnant
7	Sa.	Kentucky Derby ♂ on Eq. Tides {9.2 9.6	clouds
8	B	3rd S. a. E. Mother's Day {9.5 10.2	in the
9	M.	Latest Gt. Lakes opg. Buffalo 1926 {9.9 10.8	sky warn that
10	Tu.	The "flower" full moon (11th) "underground" ♂Ψ♂	
11	W.	"Most herole battle in all history" 1860 {10.4 11.5	storms
12	Th.	Three Chilly Saints ♂ runs low ♂♂♂ in Peri. {10.5 11.6	are nigh.
13	Fr.	♂♂♂ Oblo-Ind. tornado 1886 {11.5 10.4	Friendly
14	Sa.	♂♂♂ 4th S. a. E. Tides {11.2 9.9	'tis nearly
15	B	1st Boston 1834 Worcester trains Tides {10.7 9.7	spring.
16	M.	♂♀♂ Sup. Halley's Comet '10	Now rain,
17	Tu.	Mass.-N.Y. boundaries aec. 1773 {9.8 9.4	that's plain.
18	W.	Persians conq. Medes 556 B.C. ♂ Stat. in R.A. {9.5 9.5	Toss a
19	Th.	♂ on Eq. ♂♂♂ Hol. N.C. {9.3 9.6	coin in
20	Fr.	Armed Forces Day Tides {9.3 9.8	the air,
21	Sa.	♂♂♂ Rog. S. Maritime Day {9.3 10.0	'Twill tell
22	B	Kit Carson died 1868 Rogation Days {9.2 10.7	you if it's
23	M.	John Foster Dulles, 1959 {9.2 10.2	foul or fair.
24	Tu.	A scene as dark as night turns out all right	
25	W.	Asc. D. 36.-22.4 lb. Pike ct. 1943 {9.1 10.2	Watch
26	Th.	♂ rides high ♂ in Apo. {10.1 8.9	you may
27	Fr.	3 tornadoes Cincinnati 1809 Tides {10.0 8.8	have
28	Sa.	♂ 1st a. A. Minor Rogation d. 1814 Josephine {9.3 8.3	to
29	B	MEMORIAL D. 310 traffic deaths 1959 {9.6 8.7	row.
30	M.	Last run B. & A. Highland Br. 1958 Tides {9.4 8.7	
31	Tu.		

Squire Brown clanged shut his Sears Roebuck mailbox and stood with a scattering of fertilizer advertisements and the weekly "Banner," then tapped the dust off them. The ruts could have said mud season, only the ruts were dust already. Just three seasons on Squire's road: snow season, mud season, dust season—one right after the other.

If you looked at the road it was dust season, but if you looked down beyond the silo to the near pasture, it was spring. Squire's milkers were in their first grass and fair drooling. Overhead with his neck as stiff as a ramrod a crow was going somewhere in an all-fired hurry. Swallows were gibbering away on the wires, buds on the old apples along the lane were pink and white, like a pretty girl's fingers, only prettier, and up the lane a tow-headed boy was stepping right along.

In each hand he had a bunch of mayflowers, tied up just trim and tight enough and with just enough of the leaves off so all the pink flowers and all the white ones looked up through the leaves. Shy and sweet and fragrant—and for sale, along the black road, to the city folks in their fine cars—bouquets for the ladies—a breath of spring and country to take home to their shadowy mantles and black pianos. For a day. They'll last no longer there.

We watched the boy out of sight. Squire wiped the dust from his eye. "I mind," he said, "Ma always counted on a bunch of mayflowers."

1960]

JUNE, SIXTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /	Days.		0 /	Days.		0 /	Days.		0 /	Days.		0 /
	1	22		7	22		13	23		19	23		25	23	
	2	22	14	8	22	53	14	23	17	20	23	26	26	23	21
	3	22	22	9	22	58	15	23	20	21	23	26	27	23	18
	4	22	29	10	23	03	16	23	22	22	23	26	28	23	16
	5	22	35	11	23	07	17	23	24	23	23	25	29	23	12
	6	22	42	12	23	11	18	23	25	24	23	24	30	23	09

- ☽ First Quarter, 2nd day, 11 h. 02 m., morning, E.
- ☾ Full Moon, 9th day, 8 h. 02 m., morning, W.
- ☾ Last Quarter, 15th day, 11 h. 36 m., evening, E.
- New Moon, 23rd day, 10 h. 27 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 82-86, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉		Key	☾		Key	Length of Days h. m.	Sun Past m.	Full Sea, Boston.		☽		Key	☽		Key	☽	☽
			Rises h. m.	Key		Sets h. m.	Key				Morn h.	Eve. h.	Rises h. m.	Key		Sets h. m.	Key			
153	1	W.	4 09	D	7 15	N	15 06	18	3 1/2	4 1/4	10 ^A _M 31	G	—	—	VIR	7				
154	2	Th.	4 09	D	7 16	O	15 07	18	4 1/2	5	11 ^A _M 31	H	12 ^A _M 01	K	VIR	8				
155	3	Fr.	4 08	C	7 17	O	15 08	18	5 1/4	6	12 ^P _M 34	I	12 32	J	VIR	9				
156	4	Sa.	4 08	C	7 17	O	15 09	18	6 1/4	6 3/4	1 37	J	1 04	I	LIB	11				
157	5	B	4 08	C	7 18	O	15 11	17	7 1/4	7 3/4	2 45	K	1 36	H	LIB	12				
158	6	M.	4 07	C	7 19	O	15 12	17	8	8 1/2	3 54	K	2 12	G	SCO	13				
159	7	Tu.	4 07	C	7 19	O	15 12	17	9	9 1/4	5 06	L	2 50	F	SCO	14				
160	8	W.	4 07	C	7 20	O	15 13	17	10	10 1/4	6 18	M	3 35	E	SGR	15				
161	9	Th.	4 07	C	7 21	O	15 14	17	10 3/4	11	7 26	M	4 28	E	—	—				
162	10	Fr.	4 06	C	7 21	O	15 15	16	11 3/4	—	8 27	M	5 27	E	SGR	16				
163	11	Sa.	4 06	C	7 22	O	15 15	16	0	0 1/2	9 22	M	6 32	E	CAP	17				
164	12	B	4 06	C	7 22	O	15 16	16	0 3/4	1 1/2	10 10	L	7 41	E	AQR	18				
165	13	M.	4 06	C	7 23	O	15 17	16	1 3/4	2 1/4	10 50	K	8 51	F	AQR	19				
166	14	Tu.	4 06	C	7 23	O	15 17	16	2 3/4	3 1/4	11 26	K	10 00	G	AQR	20				
167	15	W.	4 06	C	7 24	O	15 18	15	3 1/2	4 1/4	11 ^P _M 59	J	11 ^A _M 07	H	PSC	21				
168	16	Th.	4 06	C	7 24	O	15 18	15	4 3/4	5 1/4	—	—	12 ^M _M 12	I	PSC	22				
169	17	Fr.	4 06	C	7 24	O	15 18	15	5 3/4	6 1/4	12 ^A _M 30	I	1 14	J	ARI	23				
170	18	Sa.	4 06	C	7 25	O	15 19	15	6 3/4	7 1/4	1 00	H	2 14	K	ARI	24				
171	19	B	4 06	C	7 25	O	15 19	15	7 3/4	8	1 32	G	3 14	L	TAU	25				
172	20	M.	4 07	C	7 25	O	15 19	14	8 1/2	8 3/4	2 04	F	4 11	L	TAU	26				
173	21	Tu.	4 07	C	7 25	O	15 19	14	9 1/2	9 1/2	2 40	F	5 07	M	G'M	27				
174	22	W.	4 07	C	7 26	O	15 19	14	10	10 1/4	3 19	E	6 00	M	G'M	28				
175	23	Th.	4 07	C	7 26	O	15 18	14	10 3/4	11	4 01	E	6 50	M	G'M	29				
176	24	Fr.	4 07	C	7 26	O	15 18	13	11 1/2	11 1/2	4 48	E	7 36	M	CNC	1				
177	25	Sa.	4 08	C	7 26	O	15 18	13	—	0	5 38	E	8 18	M	CNC	2				
178	26	B	4 08	C	7 26	O	15 18	13	0 1/4	0 3/4	6 30	E	8 56	L	LEO	3				
179	27	M.	4 09	C	7 26	O	15 17	13	0 3/4	1 1/2	7 26	F	9 32	L	LEO	4				
180	28	Tu.	4 09	C	7 26	O	15 17	13	1 1/2	2	8 24	G	10 04	K	LEO	5				
181	29	W.	4 09	C	7 26	O	15 16	12	2 1/4	2 3/4	9 22	G	10 35	J	VIR	6				
182	30	Th.	4 10	C	7 26	O	15 16	12	3	3 1/2	10 ^A _M 23	H	11 ^P _M 05	I	VIR	7				

Never Sets.

115-Md

176-Corned



Meridian suns dart down their torrid rays,
 The glowing firmament does almost blaze;
 Till from the west the gentle zephyr springs,
 To fan the fainting world with breezy wings.
 "A Lover of Science," 1800

D. M. D. W.
Aspects, Holidays, Heights of High Water, Weather, etc.

Farmer's Calendar.

1	W.	Nicomede English Derby	{ 9.1 8.7	<i>This</i>
2	Th.	P. T. Barnum's 1st tour 1835	{ 9.0 8.9	<i>rain's</i>
3	Fr.	Hol. in 9 So. states	{ 8.9 9.2	<i>a pain.</i>
4	Sa.	Onward Christian Soldiers 1865	{ 9.0 9.6	<i>Heavy</i>
5	B	W.H. S. Baltimore Tunnel	{ 9.2 10.1	<i>squalls</i>
6	M.	PENT. disaster 1919	{ 9.5 10.6	<i>with</i>
7	Tu.	Woman reaches new high 1947	{ 9.8 11.2	<i>great</i>
8	W.	Flood Miss. 1935	{ 10.1 11.6	<i>gusts lay</i>
9	Th.	The "hot" full moon in 1892	{ 10.4 11.3	<i>down</i>
10	Fr.	Earliest sun-rises 10th-19th	{ runs low 8.2	<i>the dusts.</i>
11	Sa.	St. Barnabas Trin. S.	{ Ember days 10.5	<i>For</i>
12	B	Mexico evac. 1848	{ 11.7 10.4	<i>this cool</i>
13	M.	Babe Ruth last unlf. app. 1948	{ Tides 11.4 10.2	<i>weather</i>
14	Tu.	Flag Windy in Day Boston '58	{ 10.9 10.0	<i>be grateful,</i>
15	W.	Bernard, London Apo. going up 1834	{ Bridge Ida. 10.3 9.8	<i>but</i>
16	Th.	Corpus Christi bt. 1904	{ SS Slocum on Eq. 9.8 9.6	<i>the</i>
17	Fr.	Bunker Hill Florida 1942	{ Nazi saboteurs Hol. Mass. 9.3 9.6	
18	Sa.	Longest days 18th-22nd	{ 8.7 9.6	<i>storm in its</i>
19	B	2 S. a. M. Father's Day	{ Gr. El. E. 8.4 9.0	<i>8 2/3</i>
20	M.	Queen Victoria room of own 1837	{ got Hol. W. Va. 8.7 9.3	<i>wake</i>
21	Tu.	Sum. begins 4.43 A.M.	{ Cen. 8.7 9.9	<i>may be</i>
22	W.	6 ♀ ♀ Sup. Canal '09	{ Cape Cod high 8.7 10.0	<i>fateful.</i>
23	Th.	Latest sunsets 22nd-July 1	{ rides high 8.7 10.0	<i>Cloudy</i>
24	Fr.	Midsum-mer's Day	{ Sacred in Apo. 8.8	<i>and murky</i>
25	Sa.	Hurricane Texas and La. 1957	{ Audrey hlt. 8.8	<i>you old</i>
26	B	2 a. Tr. U.N. Charter	{ signed 1945 8.9 9.9	<i>turkey.</i>
27	M.	E. Bartlett (pear) d. 1860	{ 8.9 9.9	<i>Hot, wot?</i>
28	Tu.	2 of Dionne quintals walked 1935	{ 9.8 9.0	<i>Not clear</i>
29	W.	Peter, Apo. & St. Paul	{ Tides 9.6 9.1	<i>tomorra,</i>
30	Th.	Alaska Statehood voted by Senate 1958	{ 9.4 9.2	<i>begorra.</i>

As this is written our fair land from coast to coast is being lashed to a frenzy of road construction. It is called the Accelerated Road Program. Into this program Federal and State money, which means you and me, will pour as fast as concrete and tar. When it is all over (though indeed one can scarcely see an end) we will have achieved a highway system more efficient for military and disaster needs and the urgencies of John Q. Public to get somewhere in a hurry. Mr. Public will be able to drive as far and as fast as he can across his country and see as little of it, and discover as little of it, as possible. Thousands of points A will hitch themselves simply but ingeniously to the main lines in order to reach thousands of points B just off the main lines.

In these ribbons of concrete and tar will be accomplished a marvel of concentration, the intensity of a bullet to its target; suburb and tomb and wilderness and farm will be cleaved as the bullet cleaves the air. A true blessing, of course, to those whose passage must be direct and fast. But to those of us who still have the time and the inclination to dawdle and explore, perhaps a blessing of a very different sort.

We like to believe that wonderful, unpoked wooded corners will be created, solitudes of meadows and streams, an isolation even of really great wilderness areas with little byways still to lead us there.

154 Tornadoes, 1958 — 164 in 1956 — Record Years.

1960]

JULY, SEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
1	23	N.	05	7	22	32	13	21	46	19	20	46	25	19	33
2	23	00		8	22	25	14	21	37	20	20	34	26	19	21
3	22	55		9	22	18	15	21	27	21	20	23	27	19	07
4	22	50	10	10	22	11	16	21	17	22	20	11	28	18	53
5	22	45		11	22	03	17	21	07	23	19	59	29	18	39
6	22	39		12	21	54	18	20	57	24	19	46	30	18	24

☽ First Quarter, 1st day, 10 h. 49 m., evening, W.

☾ Full Moon, 8th day, 2 h. 37 m., evening, E.

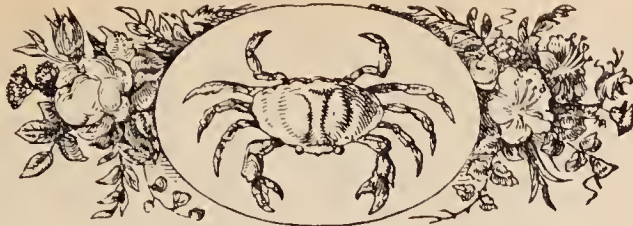
☾ Last Quarter, 15th day, 10 h. 43 m., morning, E.

☾ New Moon, 23rd day, 1 h. 31 m., evening, W.

☽ First Quarter, 31st day, 7 h. 39 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 82-86, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉ Rises h. m.	☉ Key	☉ Sets h. m.	☉ Key	Length of Days h. m.	Sun. Past m.	Full Sea, Boston. Morn. h. Eve. h.	☽ Rises h. m.	☽ Key	☽ Sets h. m.	☽ Key	☽ Place	☽ Age
183	1	Fr.	4 10	c	7 26	o	15 15	12	3 $\frac{3}{4}$ 4 $\frac{3}{4}$	11 $\frac{A}{M}$ 25	I	11 $\frac{P}{M}$ 37	II	LIB	8
184	2	Sa.	4 11	c	7 25	o	15 14	12	4 $\frac{3}{4}$ 5 $\frac{3}{4}$	12 $\frac{P}{M}$ 28	J	—	—	LIB	9
185	3	B	4 11	c	7 25	o	15 14	12	5 $\frac{3}{4}$ 6 $\frac{1}{4}$	1 35	K	12 $\frac{A}{M}$ 09	G	SCO	10
186	4	M.	4 12	c	7 25	o	15 13	11	6 $\frac{3}{4}$ 7	2 44	L	12 45	G	SCO	11
187	5	Tu.	4 13	c	7 25	o	15 12	11	7 $\frac{1}{2}$ 8	3 53	M	1 25	F	SGR	12
188	6	W.	4 13	c	7 24	o	15 11	11	8 $\frac{1}{2}$ 9	5 02	M	2 13	E	SGR	13
189	7	Th.	4 14	c	7 24	o	15 10	11	9 $\frac{1}{2}$ 9 $\frac{3}{4}$	6 08	M	3 07	E	CAP	14
190	8	Fr.	4 15	c	7 23	o	15 09	11	10 $\frac{1}{2}$ 10 $\frac{3}{4}$	7 07	M	4 09	E	—	—
191	9	Sa.	4 15	c	7 23	o	15 08	11	11 $\frac{1}{4}$ 11 $\frac{3}{4}$	7 59	M	5 17	E	CAP	15
192	10	B	4 16	d	7 23	n	15 07	10	— 0 $\frac{1}{4}$	8 44	L	6 28	F	AQR	16
193	11	M.	4 17	d	7 22	n	15 05	10	0 $\frac{1}{2}$ 1	9 24	K	7 40	G	AQR	17
194	12	Tu.	4 18	d	7 22	n	15 04	10	1 $\frac{1}{2}$ 2	9 59	J	8 51	G	PSC	18
195	13	W.	4 18	d	7 21	n	15 03	10	2 $\frac{1}{4}$ 3	10 32	I	9 58	H	PSC	19
196	14	Th.	4 19	d	7 20	n	15 01	10	3 $\frac{1}{4}$ 3 $\frac{3}{4}$	11 04	H	11 $\frac{A}{M}$ 03	I	ARI	20
197	15	Fr.	4 20	d	7 20	n	15 00	10	4 $\frac{1}{4}$ 4 $\frac{3}{4}$	11 $\frac{P}{M}$ 36	G	12 $\frac{P}{M}$ 05	J	ARI	21
198	16	Sa.	4 21	d	7 19	n	14 58	10	5 $\frac{1}{4}$ 5 $\frac{3}{4}$	—	—	1 06	K	TAU	22
199	17	B	4 22	d	7 18	n	14 57	10	6 $\frac{1}{4}$ 6 $\frac{3}{4}$	12 $\frac{A}{M}$ 08	F	2 04	L	TAU	23
200	18	M.	4 23	d	7 18	n	14 55	10	7 $\frac{1}{4}$ 7 $\frac{1}{2}$	12 42	F	3 01	M	TAU	24
201	19	Tu.	4 23	d	7 17	n	14 53	10	8 8 $\frac{1}{2}$	1 19	E	3 56	M	G'M	25
202	20	W.	4 24	d	7 16	n	14 52	9	9 9 $\frac{1}{4}$	2 00	E	4 47	M	G'M	26
203	21	Th.	4 25	d	7 15	n	14 50	9	9 $\frac{3}{4}$ 9 $\frac{3}{4}$	2 45	E	5 34	M	CNC	27
204	22	Fr.	4 26	d	7 14	n	14 48	9	10 $\frac{1}{4}$ 10 $\frac{1}{2}$	3 34	E	6 17	M	CNC	29
205	23	Sa.	4 27	d	7 14	n	14 46	9	11 11 $\frac{1}{4}$	4 26	E	6 58	M	LEO	30
206	24	B	4 28	d	7 13	n	14 45	9	11 $\frac{3}{4}$ 11 $\frac{3}{4}$	5 21	F	7 34	L	LEO	1
207	25	M.	4 29	d	7 12	n	14 43	9	— 0 $\frac{1}{4}$	6 18	F	8 08	K	LEO	3
208	26	Tu.	4 30	d	7 11	n	14 41	9	0 $\frac{1}{2}$ 1	7 16	G	8 39	K	VIR	4
209	27	W.	4 31	d	7 10	n	14 39	9	1 1 $\frac{1}{2}$	8 16	H	9 09	J	VIR	5
210	28	Th.	4 32	e	7 09	m	14 37	9	1 $\frac{3}{4}$ 2 $\frac{1}{4}$	9 17	I	9 40	I	LIB	6
211	29	Fr.	4 33	e	7 08	m	14 35	9	2 $\frac{1}{2}$ 3	10 19	J	10 12	H	LIB	7
212	30	Sa.	4 34	e	7 07	m	14 33	9	3 $\frac{1}{4}$ 3 $\frac{3}{4}$	11 $\frac{A}{M}$ 23	K	10 44	G	SCO	8
213	31	B	4 35	e	7 05	m	14 30	9	4 $\frac{1}{4}$ 4 $\frac{3}{4}$	12 $\frac{P}{M}$ 29	L	11 $\frac{P}{M}$ 22	F	SCO	9



Now shepherds drive their flocks unto the shade,
 And bottle ale and beer is a great trade;
 Tapsters fill out their liquor in short cans,
 And little use there is for warming pans.

Poor Robin, 1745

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Fr.	1st sticky stamps 1847	on Eq. { 9.3 Splashes
2	Sa.	Visit. of Mary	♀ in R.A. ⊕ Apo. and
3	B	4th a. ♀.	♂ Ψ C { 9.1 flashes,
4	M.	Ind. Day 155 sunstrokes	{ 9.2 showers
5	Tu.	California Indep. 120 deg.	{ 9.4 S. Dak. 1936 { 10.9 for
6	W.	Madame Blanchard Hartford	{ 9.7 the
7	Th.	perished 1819	c. fire 1944 { 11.3
8	Fr.	runs low	♂ h o ♂ ♀ C { 10.1 flowers.
9	Sa.	The full "buck" moon	Perl. ♂ h C { 10.4 It's
10	B	Salvation Army fd. 1865	Tides { 10.6 no
11	M.	4th a. T.	Tides { 10.7 fun out
12	Tu.	Yuma, Ariz. Temp. 116 deg.	Tides { 11.8
13	W.	or more 5 days 1958	Tides { 10.7
14	Th.	Tammuz Bangor Daily Whlz	{ 11.4 under
15	Fr.	fd. 1834	{ 10.5
16	Sa.	France to U. S. cable 1869	on Hol. { 10.9 this
17	B	World rec. rain 24 hrs. 46 in. Luzon 1911	{ 10.2 { 9.9 hot sun.
18	M.	St. Swithin	If rain forsooth no summer drouth { 9.6 Now
19	Tu.	1st nuclear expl. 1945	♂ ♀ ⊙ Inf. { 9.0 all readers
20	W.	6th S. a. ♀.	♂ ♂ C { 8.6 beware
21	Th.	ψ Stat. Mushroomers	{ 9.4 this storm
22	Fr.	"God will give you blood to drink" 1692	Tides { 8.3 will
23	Sa.	Sltting Bull surr. 1881	N. E. passage acc. 1879 { 8.3 give
24	B	Daniel, prophet	rides in high C Apo. { 8.4 the U. S.
25	M.	Mary M. Tweed ring exposed 1871	{ 8.6 a real
26	Tu.	Bunker Hill Mon. compl. 1842	Tides { 8.8 scare.
27	W.	6th S. a. T.	Dog days begin (25th) Utah { 9.9
28	Th.	James, Apo. St. Christopher	♂ ♂ C No more
29	Fr.	Cuban revolution begins 1953	Tides { 10.0 surprises
30	Sa.	Jane McCrae scalped 1777	♀ Stat. in R.A. { 9.9 Old Abe
31	B	on Bomber crashed Tucson, Ariz. 1958	Empire St. Bldg. 1945 { 9.4 { 9.8 { 9.7 this
		Henry Ford born 1863	William Penn died 1718 { 9.5 month
		8th a. ♀.	♂ Ψ C { 9.3 surmises.

It was a sagging "string hammock," shapeless as an old fish net and strung across the front walk between the two ancient crab apple trees. So far as I have been able to sort it out, my first recollection of anything was the matter of the hammock, the red brick walk, and the two trees.

I am told that I had wound myself up in the hammock, being in a tantrum, and refused to unwind. This I do not recall. I do recall that the hammock, no doubt because of my thrashing about, suddenly unwound itself and flopped me head first to the bricks. It hurt terribly, but since I was not killed outright, the skirts and the trousers that gathered about considered it highly amusing.

An idle recollection as I sit half dozing on the front door steps—my door steps now. There is the walk and there are the trees, looking about the same size as they did that afternoon I busted my crown beneath them. Quite natural, I suppose—the trees and I were, relatively speaking, the same then as now, for we have grown up together and are the same size still.

That's an odd way of thinking, though, for it makes nothing any different at all.

But come, man, open your eyes—stop your dreaming. There's your grandson rocking in that new hammock with the horrible green back—safe as in church. Of course, of course,—but I wonder what became of that old string affair.

1960]

AUGUST, EIGHTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	17	n. 54	7	16 18	13	14 32	19	12 37	25	10 36					
2	17	39	8	16 01	14	14 13	20	12 18	26	10 15						
3	17	23	9	15 43	15	13 54	21	11 58	27	9 54						
4	17	07	10	15 26	16	13 36	22	11 37	28	9 33						
5	16	51	11	15 08	17	13 16	23	11 17	29	9 11						
6	16	34	12	14 50	18	12 57	24	10 57	30	8 50						

☾ Full Moon, 6th day, 9 h. 41 m., evening, E.

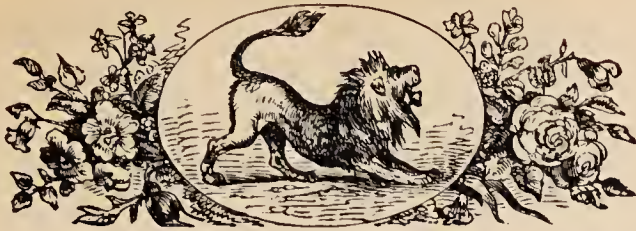
☾ Last Quarter, 14th day, 12 h. 37 m., morning, E.

☾ New Moon, 22nd day, 4 h. 16 m., morning, E.

● First Quarter, 29th day, 2 h. 23 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 82-86, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉ Rises h. m.	☉ Key	☉ Sets h. m.	☉ Key	Length of Days h. m.	Sun Fast m.	Full Sea, Boston. Morn/Eve h. h.	☾ Rises h. m.	☾ Key	☾ Sets h. m.	☾ Key	☾ Place	☾ Ag.
214	1	M.	4 36	E	7 04	M	14 28	10	5 $\frac{1}{4}$ 5 $\frac{3}{4}$	1 ^P _M 36	L	—	—	SCO	10
215	2	Tu.	4 37	E	7 03	M	14 26	10	6 $\frac{1}{4}$ 6 $\frac{3}{4}$	2 43	M	12 ^A _M 05	E	SGR	11
216	3	W.	4 38	E	7 02	M	14 24	10	7 $\frac{1}{4}$ 7 $\frac{3}{4}$	3 48	M	12 53	E	SGR	12
217	4	Th.	4 39	E	7 01	M	14 22	10	8 $\frac{1}{4}$ 8 $\frac{3}{2}$	4 49	M	1 50	E	CAP	13
218	5	Fr.	4 40	E	6 59	M	14 19	10	9 $\frac{1}{4}$ 9 $\frac{3}{2}$	5 45	M	2 54	E	AQR	14
219	6	Sa.	4 41	E	6 58	M	14 17	10	10 $\frac{1}{4}$ 10 $\frac{3}{2}$	6 34	L	4 03	E	—	—
220	7	B	4 42	E	6 57	M	14 15	10	11 11 $\frac{1}{2}$	7 17	K	5 15	F	AQR	15
221	8	M.	4 43	E	6 55	M	14 12	10	— 0	7 54	K	6 27	G	PSC	16
222	9	Tu.	4 44	E	6 54	M	14 10	10	0 $\frac{1}{4}$ 0 $\frac{3}{4}$	8 30	J	7 38	H	PSC	17
223	10	W.	4 45	E	6 53	L	14 07	11	1 1 $\frac{1}{2}$	9 03	I	8 46	I	ARI	18
224	11	Th.	4 46	F	6 51	L	14 05	11	2 2 $\frac{1}{2}$	9 35	H	9 52	J	ARI	19
225	12	Fr.	4 48	F	6 50	L	14 02	11	2 $\frac{3}{4}$ 3 $\frac{1}{4}$	10 08	G	10 54	K	ARI	20
226	13	Sa.	4 49	F	6 49	L	14 00	11	3 $\frac{3}{4}$ 4 $\frac{1}{4}$	10 42	F	11 ^A _M 55	L	TAU	21
227	14	B	4 50	F	6 47	L	13 58	11	4 $\frac{1}{2}$ 5	11 19	E	12 ^P _M 53	L	TAU	22
228	15	M.	4 51	F	6 46	L	13 55	11	5 $\frac{1}{2}$ 6	11 ^P _M 59	E	1 49	M	G'M	23
229	16	Tu.	4 52	F	6 44	L	13 53	12	6 $\frac{1}{2}$ 7	—	—	2 41	M	G'M	24
230	17	W.	4 53	F	6 43	L	13 50	12	7 $\frac{1}{2}$ 7 $\frac{3}{4}$	12 ^A _M 42	E	3 29	M	CNC	25
231	18	Th.	4 54	F	6 41	L	13 47	12	8 $\frac{1}{2}$ 8 $\frac{3}{2}$	1 29	E	4 15	M	CNC	26
232	19	Fr.	4 55	F	6 40	L	13 45	12	9 $\frac{1}{4}$ 9 $\frac{3}{4}$	2 20	E	4 57	M	CNC	27
233	20	Sa.	4 56	F	6 38	L	13 42	13	10 10	3 14	E	5 34	L	LEO	28
234	21	B	4 57	F	6 37	L	13 40	13	10 $\frac{1}{2}$ 10 $\frac{3}{4}$	4 11	F	6 09	L	LEO	29
235	22	M.	4 58	F	6 35	L	13 37	13	11 $\frac{1}{4}$ 11 $\frac{3}{4}$	5 09	G	6 41	K	VIR	0
236	23	Tu.	4 59	F	6 33	K	13 34	13	11 $\frac{3}{4}$ —	6 09	H	7 12	J	VIR	1
237	24	W.	5 00	G	6 32	K	13 32	14	0 0 $\frac{1}{4}$	7 10	H	7 43	I	VIR	2
238	25	Th.	5 01	G	6 30	K	13 29	14	0 $\frac{3}{4}$ 1	8 13	I	8 15	H	LIB	3
239	26	Fr.	5 02	G	6 29	K	13 26	14	1 $\frac{1}{4}$ 1 $\frac{3}{4}$	9 16	J	8 48	G	LIB	4
240	27	Sa.	5 03	G	6 27	K	13 24	14	2 2 $\frac{1}{2}$	10 21	K	9 23	F	SCO	5
241	28	B	5 05	G	6 25	K	13 21	15	3 3 $\frac{1}{4}$	11 ^A _M 26	L	10 03	F	SCO	7
242	29	M.	5 06	G	6 24	K	13 18	15	3 $\frac{3}{4}$ 4 $\frac{1}{4}$	12 ^P _M 32	M	10 48	E	SGR	8
243	30	Tu.	5 07	G	6 22	K	13 15	15	4 $\frac{3}{4}$ 5 $\frac{1}{4}$	1 36	M	11 ^P _M 40	E	SGR	9
244	31	W.	5 08	G	6 20	K	13 13	16	5 $\frac{3}{4}$ 6 $\frac{1}{4}$	2 ^P _M 37	M	—	—	CAP	10



The Sun with sultry Sirlus now doth rise,
 And Jove's red lightning flashes from the skies;
 The angry gods heaven's arm'ty open flings,
 And whizzing bolts ride forth on burning wings.
 Anson Allen, 1825

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	M.	Lammas Day ♀♀♂ Hol. Col. <i>Avoid</i>	
2	Tu.	Fast of 1st iron mail { 9.7 Av boxes Boston 1858 { 10.4 <i>sunny</i>	
3	W.	Am. first yacht race 1835 ♀♂ { 9.3 Freedom of press 1735 ♀♂ { 10.8 <i>glades,</i>	
4	Th.	Runs of press 1735 ♀♂ { 9.6 low ♀♂ { 11.2 <i>seek</i>	
5	Fr.	The "sturgeon" in Gr. El. { 10.0 full moon (6th) ♀ Peri. { 11.6	
6	Sa.	Trans. Yankee maz. { 10.5 td. 1935 { 11.8 <i>cooling</i>	
7	B	Stha. T. Name of Jesus { 10.8 { 11.9 <i>shades.</i>	
8	M.	"One spout does not make a whale"—Jefferson, Me. 1958 { 10.9	<i>Rain</i>
9	Tu.	New England's most destructive (exc. 1953) tornado 1878 { 11.7 { 10.9 <i>di-</i>	
10	W.	Flery teared on St. Lawrence Eq. <i>vine makes</i>	
11	Th.	USS Skate under No. { 10.8 Pole 9.47 p.m. 1958 { 10.4 <i>good fall</i>	
12	Fr.	Absolutely positively Mr. Shean D. 1949 { 10.1 Florence { 9.4 Nightingale D. 1910 { 9.6 <i>wine.</i>	
13	Sa.	10tha. P. ♀♂⊙ Ark., R.1. <i>Think</i>	
14	B	Jesuits Will Rogers { 8.1 fd. 1534 1935 { 8.1 <i>not I</i>	
15	M.	Bat. (Vt.) Babe Ruth { 8.1 Bennington D. 1948 { 9.0 <i>write in</i>	
16	Tu.	rides ♀ in high Apo. Tides { 8.1 { 9.1 <i>rain when</i>	
17	W.	Ch. of Nativity Bethlehem btt. 371 A.D. { 8.2 { 9.2 <i>I say</i>	
18	Th.	Something strange brings happy change { 8.4 { 9.4 <i>it won't</i>	
19	Fr.	Fireball dances on Topeka fence '58 ♀♂ in R.A. { 8.7 { 9.7	
20	Sa.	10tha. T. Charter Oak { 8.9 blew down 1856 { 9.8 <i>rain.</i>	
21	B	Yacht America arr. { 9.2 Coves 1851 { 10.0 <i>Now we</i>	
22	M.	1st U.S. ship ent. China 1784 ♀♀♂ { 9.5 { 10.0 <i>cal'late it</i>	
23	Tu.	St. Bar. "soak the rich" ♀♂ on tax bill 1935 ♀ Eq. { 9.7 { 10.0 <i>will</i>	
24	W.	Tornado '58 Fla. boom { 10.0 Reading, Mass. 1925 { 9.9 <i>pre-</i>	
25	Th.	Huey Long's last filibuster 1935 Tides { 9.9 { 10.0 <i>c'p'tate.</i>	
26	Fr.	Wm. James D. 1910 ♀♂♂ { 9.8 { 10.1 <i>Weather</i>	
27	Sa.	12tha. P. Tides { 9.5 { 10.1 <i>you'll find</i>	
28	B	John B. behcaded ♀♂⊙ { 9.3 { 10.1 <i>often changes</i>	
29	M.	♂♂♂ Sup. ♀♂♂ Hol. La. <i>its mind.</i>	
30	Tu.	♂♂♂ Sup. ♀♂♂ Hol. La. <i>its mind.</i>	
31	W.	♂ runs low Flying Cloud record Frisco run 1851 { 9.1 { 10.3	

I haven't seen the old barnyard for many a year. Doesn't look much different than when I was a boy. But it is. No cows, no sheep, no pigs, no goats, no pair of farm horses, no loose chickens pecking around. Just an empty, weedy old yard.

But I have some particular memories of that barnyard and its big wooden gate.

There was the time the old boar took after me. I was in the middle of the yard and before I knew it he was coming at me around the barn. He was as big as a cow, he had tusks as long as rake handles, his eyes were balls of fire, and his mouth opened up like an alligator's. When he slammed it shut where my legs had been going over the fence, it sounded like someone had sprung Uncle Joe's bear trap.

My brother and I took off over the same gate when the bull got loose. Just made it. Our britches were red-hot where he blew fire at us.

Another time we fixed up a kind of cart made out of two boards and some old wheels. We caught the Billy goat and hitched him to it somehow. Then we got aboard and set off from the top of the yard. Quickest ride I ever had. When we came to we were plastered against the gate with the cart, and the goat was on the other side. Don't know how he did it.

Well, that was our old barnyard. Every boy ought to have one.

1960]

SEPTEMBER, NINTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/	Days.	0	/	Days.	0	/	Days.	0	/	Days.	0	/	Days.
1	8 ^N .07		7	5	54	13	3	37	19	1	18	25	1	02	
2	7 45		8	5	31	14	3	14	20	0	55	26	1	25	
3	7 23		9	5	09	15	2	51	21	0	32	27	1	49	
4	7 01		10	4	46	16	2	28	22	0 ^N .08		28	2	12	
5	6 38		11	4	23	17	2	05	23	0 ^s .15		29	2	35	
6	6 16		12	4	00	18	1	41	24	0	39	30	2	59	

☾ Full Moon, 5th day, 6 h. 19 m., morning, W.

○ Last Quarter, 12th day, 5 h. 20 m., evening, W.

☾ New Moon, 20th day, 6 h. 13 m., evening, W.

● First Quarter, 27th day, 8 h. 13 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 82-86, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉ Rises h. m.	☉ Key	☉ Sets h. m.	☉ Key	Length of Days h. m.	Sun Fast m.	Full Sea. Boston. Morn. h.	Full Sea. Boston. Eve. h.	☾ Rises h. m.	☾ Key	☾ Sets h. m.	☾ Key	☾ Place	☾ Age
245	1	Th.	5 09	G	6 19	K	13 10	16	7	7 ¹ / ₄	3 ^P _M 33	M	12 ^A _M 39	E	CAP	11
246	2	Fr.	5 10	G	6 17	K	13 07	16	8	8 ¹ / ₄	4 23	M	1 44	E	AQR	12
247	3	Sa.	5 11	G	6 15	K	13 05	17	9	9 ¹ / ₄	5 08	L	2 53	F	AQR	13
248	4	B	5 12	G	6 14	J	13 02	17	9 ³ / ₄	10 ¹ / ₄	5 49	K	4 03	F	PSC	14
249	5	M.	5 13	H	6 12	J	12 59	17	10 ³ / ₄	11	6 25	J	5 15	G	—	—
250	6	Tu.	5 14	H	6 10	J	12 56	18	11 ¹ / ₂	—	6 59	I	6 24	H	PSC	15
251	7	W.	5 15	H	6 08	J	12 53	18	0	0 ¹ / ₄	7 32	H	7 31	J	ARI	16
252	8	Th.	5 16	H	6 07	J	12 50	18	0 ³ / ₄	1	8 05	G	8 38	J	ARI	17
253	9	Fr.	5 17	H	6 05	J	12 48	19	1 ¹ / ₂	1 ³ / ₄	8 39	F	9 40	K	TAU	18
254	10	Sa.	5 18	H	6 03	J	12 45	19	2 ¹ / ₄	2 ³ / ₄	9 16	F	10 41	L	TAU	19
255	11	B	5 19	H	6 01	J	12 42	19	3 ¹ / ₄	3 ¹ / ₂	9 55	E	11 ^A _M 38	M	G'M	20
256	12	M.	5 20	H	6 00	J	12 39	20	4	4 ¹ / ₂	10 37	E	12 ^P _M 33	M	G'M	21
257	13	Tu.	5 21	H	5 58	J	12 36	20	5	5 ¹ / ₄	11 ^P _M 23	E	1 24	M	G'M	22
258	14	W.	5 22	H	5 56	J	12 34	20	6	6 ¹ / ₄	—	—	2 10	M	CNC	23
259	15	Th.	5 24	H	5 54	J	12 31	21	7	7 ¹ / ₄	12 ^A _M 13	E	2 53	M	CNC	24
260	16	Fr.	5 25	H	5 53	I	12 28	21	7 ³ / ₄	8	1 05	E	3 32	L	LEO	25
261	17	Sa.	5 26	I	5 51	I	12 25	21	8 ¹ / ₂	8 ³ / ₄	2 01	F	4 08	K	LEO	26
262	18	B	5 27	I	5 49	I	12 22	22	9 ¹ / ₄	9 ¹ / ₂	2 59	F	4 42	K	LEO	27
263	19	M.	5 28	I	5 47	I	12 19	22	10	10 ¹ / ₄	3 58	G	5 13	J	VIR	28
264	20	Tu.	5 29	I	5 46	I	12 17	22	10 ¹ / ₂	11	5 00	H	5 45	I	VIR	29
265	21	W.	5 30	I	5 44	I	12 14	23	11 ¹ / ₄	11 ¹ / ₂	6 03	I	6 17	H	LIB	1
266	22	Th.	5 31	I	5 42	I	12 11	23	11 ³ / ₄	—	7 07	J	6 49	G	LIB	2
267	23	Fr.	5 32	I	5 40	I	12 08	23	0 ¹ / ₄	0 ¹ / ₂	8 12	K	7 25	G	SCO	3
268	24	Sa.	5 33	I	5 38	I	12 05	24	1	1 ¹ / ₄	9 19	L	8 03	F	SCO	4
269	25	B	5 34	I	5 37	I	12 02	24	1 ³ / ₄	2	10 25	M	8 47	E	SGR	5
270	26	M.	5 35	I	5 35	I	12 00	25	2 ¹ / ₂	3	11 ^A _M 30	M	9 36	E	SGR	6
271	27	Tu.	5 36	I	5 33	I	11 57	25	3 ¹ / ₂	3 ³ / ₄	12 ^P _M 31	M	10 31	E	CAP	7
272	28	W.	5 37	J	5 31	I	11 54	25	4 ¹ / ₂	5	1 28	M	11 ^P _M 33	E	CAP	8
273	29	Th.	5 39	J	5 30	I	11 51	26	5 ¹ / ₂	6	2 19	M	—	—	AQR	9
274	30	Fr.	5 40	J	5 28	I	11 48	26	6 ³ / ₄	7	3 ^P _M 04	L	12 ^A _M 39	E	AQR	10

Moms. Nova Sc. New P.R.



Now golden fruits on loaded branches shine,
 And grateful clusters swell with floods of wine,
 But flowers decay, forsaken by the Spring;
 And birds now left by Summer, cease to sing;
 The trees now fade as autumn heats remove,
 And dying insects mourn in evry grove.

John Nathan Hutehins, 1801

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Th.	Much Tea table tattling $\delta\eta\zeta$ { 9.3 10.5	<i>A few hours</i>
2	Fr.	Cranberry Harvest begins ζ Peri. { 9.6 10.9	<i>of showers.</i>
3	Sa.	Violent storm all over Europe 1658 { 10.1 11.2	<i>Your guess</i>
4	B	12th a. T. Card. Hays D. 1938 { 10.5 11.5	<i>is as</i>
5	M.	Labor Day The "corn" total full moon ζ eclipse a.m. { 5.38 11.0	<i>good</i>
6	Tu.	Pilgrims left Plymouth England 120 ζ Eq. { 11.0 11.3	<i>as</i>
7	W.	Whittler D. 1892 Gram's Moses born 1860	<i>the rest.</i>
8	Th.	Nativity of Mary England 1802 1st parachutist on { 10.9 10.8	<i>Forgive</i>
9	Fr.	Comet arr. Hongkong from London-85 dys. 1854 { 10.4 10.4	<i>morning—more virtue surely than in me.</i>
10	Sa.	Middlesex Canal begun 1794 { 9.8 10.0	<i>please while</i>
11	B	14th a. P. S.S. United States boiler expl. 1830 { 9.1 9.5	<i>I say that I have robbed my friend, and my friend has robbed me, or so I do believe. But because I have not stolen his apples or his silver or anything of his that I might lay hands on, you say that I am not his thief. But I am, as he is mine. For this reason: beyond his possessions that I do not touch, there, is my friend himself, and all that he possesses within himself—his pride, his dreams, his desires, his sorrows and shame, his secret love and wonder and tenderness. These are his special possessions, the core of his being, and with them he walks alone.</i>
12	M.	New England's saddest day 1674 Mo. { 8.6 9.1	<i>rainy gales</i>
13	Tu.	Rides high $\delta\delta\zeta$ N.H. primaries { 8.2 8.8	<i>tease.</i>
14	W.	Holy Cross ζ in Apo. Day { 8.0 8.7	<i>Skies</i>
15	Th.	Stat. in R.A. Tides { 8.0 8.8	<i>are bright,</i>
16	Fr.	St. Euphemia Okla. Hol. Ember { 8.2 9.0	<i>day and</i>
17	Sa.	Mrs. Sherman got her pig back 1638 Days Ctt. Day { 8.5 9.2	<i>are bright,</i>
18	B	14th a. T. Ord. Day $\delta\delta\zeta$ { 8.0 8.8	<i>night.</i>
19	M.	Miekey Mouse 1st app. 1928 { 9.3 9.8	<i>Now, cooling</i>
20	Tu.	Partial eclipse of Sun-6.00 p.m. 1873 Panic of { 9.6 10.0	<i>and</i>
21	W.	Matthew App. ζ On Eq. { 10.0 10.1	<i>drooling.</i>
22	Th.	FALL begins 8.00 P.M. ζ enters $\delta\delta\zeta\delta\delta\zeta$	
23	Fr.	Am. Indian Day $\delta\psi\zeta$ Rosh. Hosh. { 10.1 10.6	<i>A frost, all</i>
24	Sa.	Louis def. Baer 1935 Little Rock crisis 1957 { 10.1 10.6	<i>is</i>
25	B	16th a. P. D.S.T. ends Gedallah { 9.9 10.5	<i>is</i>
26	M.	Night equals One eyed day hung 1676 John { 9.6 10.4	<i>lost.</i>
27	Tu.	Runs low $\delta\psi\zeta$ Tides { 9.3 10.2	<i>A gale or</i>
28	W.	$\delta\eta\zeta$ British evae. Detroit 1813 { 9.1 10.0	<i>great</i>
29	Th.	Michael. Gabriel & Raphael ζ in Peri. { 9.1 10.0	<i>signs</i>
30	Fr.	Statue Liberty 1st circled by plane 1910 Tides { 9.8 10.2	<i>fail.</i>

DAYLIGHT SAVING: 10 PM becomes 9 — 24th for 25th.

1960]

OCTOBER, TENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /
	1	3s.	22	7	5 41	13	7 57	19	10 09	25
2	3	45	8	6 03	14	8 19	20	10 30	26	12 36
3	4	08	9	6 26	15	8 41	21	10 52	27	12 56
4	4	32	10	6 49	16	9 03	22	11 13	28	13 16
5	4	55	11	7 12	17	9 25	23	11 34	29	13 36
6	5	18	12	7 34	18	9 47	24	11 55	30	13 56

○ Full Moon, 4th day, 5 h. 17 m., evening, E.

☾ Last Quarter, 12th day, 12 h. 26 m., evening, W.

● New Moon, 20th day, 7 h. 03 m., morning, E.

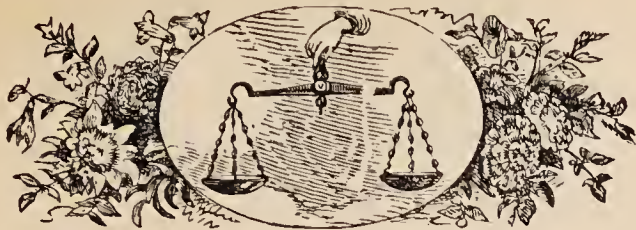
☽ First Quarter, 27th day, 2 h. 34 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 82-86, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉		Key	☽		Length of Days	Sun First	Full Sea, Boston.		☽	Key	☽		Key	☽	☽
			Rises h. m.	Sets h. m.		Morn h. m.	Even. h. m.			Rises h. m.	Sets h. m.			Place	Age			
275	1	Sa.	5 41	J 5 26	H	11 45	26	7 ³ / ₄	8	3 ^P _M 44	K	1 ^A _M 47	F	PSC	11			
276	2	B	5 42	J 5 24	H	11 43	26	8 ³ / ₄	9	4 20	J	2 56	G	PSC	12			
277	3	M.	5 43	J 5 23	H	11 40	27	9 ¹ / ₂	10	4 56	I	4 05	H	ARI	13			
278	4	Tu.	5 44	J 5 21	H	11 37	27	10 ¹ / ₂	10 ³ / ₄	5 29	H	5 13	I	—	—			
279	5	W.	5 45	J 5 19	H	11 34	27	11 ¹ / ₄	11 ¹ / ₂	6 02	H	6 19	J	ARI	14			
280	6	Th.	5 46	J 5 18	H	11 31	28	—	0	6 35	G	7 24	K	ARI	15			
281	7	Fr.	5 47	J 5 16	H	11 28	28	0 ¹ / ₄	0 ¹ / ₂	7 12	F	8 26	L	TAU	16			
282	8	Sa.	5 49	J 5 14	H	11 26	28	1	1 ¹ / ₄	7 49	E	9 26	L	TAU	17			
283	9	B	5 50	J 5 13	G	11 23	29	1 ³ / ₄	2	8 30	E	10 23	M	G'M	18			
284	10	M.	5 51	K 5 11	G	11 20	29	2 ¹ / ₂	2 ³ / ₄	9 16	E	11 ^A _M 15	M	G'M	19			
285	11	Tu.	5 52	K 5 09	G	11 17	29	3 ¹ / ₂	3 ³ / ₄	10 03	E	12 ^P _M 04	M	CNC	20			
286	12	W.	5 53	K 5 08	G	11 14	29	4 ¹ / ₄	4 ¹ / ₂	10 55	E	12 49	M	CNC	21			
287	13	Th.	5 54	K 5 06	G	11 12	30	5 ¹ / ₄	5 ¹ / ₂	11 ^P _M 49	F	1 30	M	CNC	22			
288	14	Fr.	5 55	K 5 04	G	11 09	30	6 ¹ / ₄	6 ¹ / ₂	—	—	2 06	L	LEO	23			
289	15	Sa.	5 57	K 5 03	G	11 06	30	7	7 ¹ / ₂	12 ^A _M 46	F	2 41	K	LEO	24			
290	16	B	5 58	K 5 01	G	11 03	30	8	8 ¹ / ₄	1 45	G	3 12	K	VIR	26			
291	17	M.	5 59	K 5 00	G	11 01	30	8 ³ / ₄	9	2 45	H	3 43	J	VIR	27			
292	18	Tu.	6 00	K 4 58	G	10 58	31	9 ¹ / ₄	9 ³ / ₄	3 48	I	4 15	I	LIB	28			
293	19	W.	6 01	K 4 56	G	10 55	31	10	10 ¹ / ₂	4 52	J	4 48	H	LIB	29			
294	20	Th.	6 02	K 4 55	G	10 52	31	10 ³ / ₄	11 ¹ / ₄	5 59	K	5 22	G	LIB	0			
295	21	Fr.	6 04	K 4 53	F	10 50	31	11 ¹ / ₂	11 ³ / ₄	7 07	L	6 00	F	SCO	1			
296	22	Sa.	6 05	L 4 52	F	10 47	31	—	0	8 15	L	6 43	E	SCO	2			
297	23	B	6 06	L 4 50	F	10 44	31	0 ¹ / ₂	0 ³ / ₄	9 22	M	7 31	E	SGR	3			
298	24	M.	6 07	L 4 49	F	10 42	32	1 ¹ / ₂	1 ³ / ₄	10 26	M	8 26	E	SGR	4			
299	25	Tu.	6 09	L 4 48	F	10 39	32	2 ¹ / ₄	2 ¹ / ₂	11 ^A _M 25	M	9 26	E	CAP	5			
300	26	W.	6 10	L 4 46	F	10 36	32	3 ¹ / ₄	3 ¹ / ₂	12 ^P _M 18	M	10 30	E	CAP	6			
301	27	Th.	6 11	L 4 45	F	10 34	32	4 ¹ / ₄	4 ¹ / ₂	1 04	M	11 ^P _M 38	F	AQR	7			
302	28	Fr.	6 12	L 4 43	F	10 31	32	5 ¹ / ₄	5 ³ / ₄	1 45	L	—	—	AQR	9			
303	29	Sa.	6 13	L 4 42	F	10 29	32	6 ¹ / ₂	6 ³ / ₄	2 21	K	12 ^A _M 45	G	PSC	10			
304	30	B	6 15	L 4 41	F	10 26	32	7 ¹ / ₂	8	2 55	J	1 52	H	PSC	11			
305	31	M.	6 16	L 4 39	F	10 23	32	8 ¹ / ₂	8 ³ / ₄	3 ^P _M 28	I	2 ^A _M 59	I	ARI	12			

OCTOBER hath 31 days.

[1960



A Cloth of Gold extremely fine,
Wrought by no Hand but the Divine;
Sometimes it lays upon my Chair,
The same as holy Angels wear,
Made chiefly for the Use of Man
Sometime before the World began.

Nathaniel Ames, 1744

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Sa.	Yom Kippur Rufus Choate { 9.6 No born 1799 { 10.4	Clear and mellow after frost, it's a day made for partridge shooting. Only mid-morning, but we have birds, and setter Rab wears the amiable expression he reserves for such occasions. Bob and I call a halt, we to a dry log and our pipes, Rab to our feet. Now this moment of happy hunting is not a picture from a dear dead yesterday. Our ruffed grouse really holds his own. His numbers are naturally maintained, for he doesn't take to rearing pens like quail or pheasants. He has survived largely because mau himself has unwittingly given the means of survival. This abandoned orchard wasn't planted for a grouse to enjoy, but it's his corner now, and his brethren increase because of brushy, berry-filled clearings that were once fields and cultivation. The axe that has taken northern forests opened for him (and still does) hardwood second growth that he likes to "bud" and ground cover he never had a chance to forage in before. We consider other factors in this bird's survival or extinction. He apparently won't be gunned to extermination, but about every tenth year he is struck by a "partridge disease" that may temporarily decimate his numbers. However, the strongest survive, and thus the breed continues as vigorous as the original stock. Bob adds this thought: "It's the stupid birds get shot. The wise ones get away and breed wiser ones." Maybe, only I never saw a stupid partridge.
2	B	16th a. T. Woodrow Wilson { 10.1 stroke 1919 { 10.7	
3	M.	Fall foliage 6 ♀ ♀ ♀ Hol. { 10.5 tours this week Mo. { 10.9 need	
4	Tu.	The harvest on { 10.8 moon C Eq. { 10.9 for dice,	
5	W.	Cimbrians annihilate { 11.0 these days Romans 195 B.C. { 11.7	
6	Th.	Sukkoth 12 lb. blue caught { Nantucket 1956 { 10.9 clear,	
7	Fr.	Wreck of Brig. St. John { 10.4 Larsen's Ledge 1849 { 10.7 cool,	
8	Sa.	Larsen's no 6 ♀ ♀ ♀ Tides { 9.9 hitter '56 { 10.4 and	
9	B	18th a. P. Abraham { 9.4 St. Denis { 10.0 nice.	
10	M.	Chester, Vermont declares Hol. { 8.9 Independence, 1774 Okla. { 9.5	
11	Tu.	rides 6 ♂ ♂ ♂ DAR org. { 8.5 high { 8.9 Wind	
12	W.	Col. D. C in Lee { 8.2 Apo. d. 1870 { 8.7 and water	
13	Th.	"Looming" observed Lake { 8.0 Erie, 1787 { 8.5 tied	
14	Fr.	Totah "T.R." shot by { 8.1 assassin 1912 { 8.6 together	
15	Sa.	Assassination of 6 ♂ ♂ ♀ Gr. El. { Beziers 1167 E. bring	
16	B	18th a. T. Cardiff giant { 8.7 about hoax 1869 { 9.0	
17	M.	Capone convicted Tides { 9.1 tax evasion 1931 { 9.3 rainy	
18	Tu.	Luke, on St. { 9.6 Ev. C Eq. Luke's { 9.6 weather.	
19	W.	Roger Williams Little banished 1635 Summer 1960's	
20	Th.	Bones of many a pilgrim { 10.5 washed to sea 1785 { 10.1 great	
21	Fr.	6 ♀ ♀ Lord Nelson { 10.8 killed 1805 { 10.2 storm	
22	Sa.	U.S. Cong. Church 6 ♀ ♀ { fd. 1835 { 11.0 will	
23	B	20th a. P. World created { 10.1 4004 B.C. { 11.0 be	
24	M.	U. N. DAY C in 6 ♀ ♀ { 10.0 Peri. { 10.9 rainy,	
25	Tu.	runs 6 ♀ ♀ Tides { 9.7 low { 10.6 windy,	
26	W.	Jet air age began 1958 { 9.4 1st Paris-N.Y. paid pass. { 10.2 and	
27	Th.	♀ Stat. Rita Hayworth { 9.2 in R.A. born 1918 { 9.9 warm.	
28	Fr.	Simon, Apo. Catholic Church { 9.2 This & St. Jude 262nd Pope-1958 { 9.8	
29	Sa.	Mormons convicted Tides { 9.4 polygamy 1878 { 9.7 cold is	
30	B	20th a. T. Christ DST ends The King some states real	
31	M.	Hal. Feast of on Hol. { 10.1 Our Lord C Eq. Nev. { 10.0 bold.	

1960]

NOVEMBER, ELEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.					
	0	'	"/	0	'	"/	0	'	"/	0	'	"/			
1	14s.	35		7	16	25	13	18	05	19	19	34	25	20	50
2	14	54		8	16	42	14	18	21	20	19	49	26	21	02
3	15	13		9	17	00	15	18	36	21	20	01	27	21	13
4	15	31		10	17	16	16	18	51	22	20	14	28	21	23
5	15	49		11	17	33	17	19	06	23	20	27	29	21	33
6	16	07		12	17	49	18	19	20	24	20	39	30	21	43

○ Full Moon, 3rd day, 6 h. 58 m., morning, W.

☾ Last Quarter, 11th day, 8 h. 48 m., morning, W.

● New Moon, 18th day, 6 h. 47 m., evening, W.

☽ First Quarter, 25th day, 10 h. 42 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 82-86, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	Rises h. m.	Key	Sets h. m.	Key	Length of Days h. m.	Sun Fast m.	Full Sea. Boston. Morn. h. Eve. h.	☽ Rises h. m.	Key	☽ Sets h. m.	Key	☽ Place	☽ Age
306	1	Tu.	6 17	L	4 38	F	10 21	32	9 $\frac{1}{4}$	9 $\frac{3}{4}$	H	4 $\frac{4}{M}$ 01	J	ARI	13
307	2	W.	6 18	L	4 37	F	10 18	32	10	10 $\frac{1}{2}$	G	5 09	K	TAU	14
308	3	Th.	6 20	L	4 36	E	10 16	32	10 $\frac{3}{4}$	11 $\frac{1}{4}$	F	6 11	K	—	—
309	4	Fr.	6 21	M	4 34	E	10 13	32	11 $\frac{1}{2}$	—	F	7 13	L	TAU	15
310	5	Sa.	6 22	M	4 33	E	10 11	32	0	0 $\frac{1}{4}$	E	8 11	M	G'M	16
311	6	B	6 23	M	4 32	E	10 09	32	0 $\frac{3}{4}$	0	E	9 07	M	G'M	17
312	7	M.	6 25	M	4 31	E	10 06	32	1 $\frac{1}{4}$	1 $\frac{1}{2}$	E	9 58	M	G'M	18
313	8	Tu.	6 26	M	4 30	E	10 04	32	2	2 $\frac{1}{4}$	E	10 44	M	CNC	19
314	9	W.	6 27	M	4 29	E	10 02	32	2 $\frac{3}{4}$	3	E	11 $\frac{4}{M}$ 26	M	CNC	20
315	10	Th.	6 28	M	4 28	E	9 59	32	3 $\frac{3}{4}$	4	F	12 $\frac{0}{M}$ 04	L	LEO	21
316	11	Fr.	6 30	M	4 27	E	9 57	32	4 $\frac{1}{2}$	4 $\frac{3}{4}$	G	12 39	L	LEO	22
317	12	Sa.	6 31	M	4 26	E	9 55	32	5 $\frac{1}{2}$	5 $\frac{3}{4}$	—	1 11	K	VIR	23
318	13	B	6 32	M	4 25	E	9 52	31	6 $\frac{1}{4}$	6 $\frac{3}{4}$	G	1 42	J	VIR	24
319	14	M.	6 33	M	4 24	E	9 50	31	7 $\frac{1}{4}$	7 $\frac{1}{2}$	H	2 13	I	VIR	25
320	15	Tu.	6 35	M	4 23	E	9 48	31	8	8 $\frac{1}{4}$	I	2 45	H	LIB	26
321	16	W.	6 36	M	4 22	E	9 46	31	8 $\frac{3}{4}$	9 $\frac{1}{4}$	J	3 17	G	LIB	27
322	17	Th.	6 37	N	4 21	D	9 44	31	9 $\frac{1}{2}$	10	K	3 54	F	SCO	28
323	18	Fr.	6 38	N	4 20	D	9 42	30	10 $\frac{1}{4}$	10 $\frac{3}{4}$	L	4 34	F	SCO	29
324	19	Sa.	6 40	N	4 20	D	9 40	30	11	11 $\frac{1}{2}$	M	5 21	E	SGR	1
325	20	B	6 41	N	4 19	D	9 38	30	11 $\frac{3}{4}$	—	M	6 15	E	SGR	2
326	21	M.	6 42	N	4 18	D	9 36	30	0 $\frac{1}{4}$	0 $\frac{1}{2}$	M	7 15	E	CAP	3
327	22	Tu.	6 43	N	4 18	D	9 34	29	1 $\frac{1}{4}$	1 $\frac{1}{2}$	M	8 21	E	CAP	4
328	23	W.	6 44	N	4 17	D	9 33	29	2	2 $\frac{1}{4}$	M	9 29	F	AQR	5
329	24	Th.	6 46	N	4 16	D	9 31	29	3	3 $\frac{1}{4}$	L	10 37	F	AQR	6
330	25	Fr.	6 47	N	4 16	D	9 29	29	4	4 $\frac{1}{4}$	K	11 $\frac{P}{M}$ 44	G	PSC	7
331	26	Sa.	6 48	N	4 15	D	9 27	28	5	5 $\frac{1}{2}$	J	—	—	PSC	8
332	27	B	6 49	N	4 15	D	9 26	28	6	6 $\frac{1}{2}$	I	12 $\frac{A}{M}$ 51	H	ARI	9
333	28	M.	6 50	N	4 14	D	9 24	28	7	7 $\frac{1}{2}$	H	1 56	I	ARI	10
334	29	Tu.	6 51	N	4 14	D	9 23	27	8	8 $\frac{1}{2}$	G	3 00	J	TAU	11
335	30	W.	6 52	N	4 14	D	9 21	27	9	9 $\frac{1}{2}$	G	4 $\frac{A}{M}$ 02	K	TAU	12



Now sportsmen with tantivee to the field
 Repair, in hopes it will some pleasure yld;
 Old age must stay at home, for fear of cold,
 And misers chuse to stay to count their gold.
 Poor Robin, 1745

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
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1	Tu.	All Saints 1935	N. E. quakes	♁♃♅	Hol. La	Now
2	W.	All Souls born 1734	Daniel Boone		{10.7 110.1	winter's
3	Th.	The "beaver" full moon	Russian dog satellite 1957		{10.7 110.1	cold
4	Fr.	Mercury is a sunspot 9:35 a.m. (7th)			{10.8 9.9	hand
5	Sa.	Fawkes' plot is not forgot	Minot's Light 1-4-3 flash 1860		{10.7 9.7	de-
6	B	22nd a. ♀	1st college football 1869		10.5	scends
7	M.	♁rides high	♁♃♅ Inf. ♀ Tr.			on the land.
8	Tu.	General elections	Boston got its opera house 1909	♁♃♅		Don't
9	W.	Animals hibernating	in Apo. Tides		{8.5 9.1	rely
10	Th.	Key to the math—Descartes 1619	universe is		{8.3 8.8	on a
11	Fr.	V&L's D.	♁♃♅ Tides		{8.2 8.6	fair sky.
12	Sa.	♁♀♃	Curley died 1958		{8.3 8.5	Nothing
13	B	22nd a. ♀	Indian summer		{8.5 8.6	could be
14	M.	Sadie Hawkins	Begins (13-20)		{8.9 8.8	dumber
15	Tu.	Boston got its museum 1909	on Eq.		{9.3 9.1	than a
16	W.	6 in. snow 1958 Tucson, Ariz.	♀ Stat. in R.A.		{9.9 9.4	cold
17	Th.	♁♀♃	♁♃♅			Indian
18	Fr.	♁♀♃	Tides		{10.9 10.0	summer.
19	Sa.	24th a. ♀	Chas. Dickens in Boston 1867		{11.3 10.2	
20	B	♁ in Peri.	♁♀♃			Rain, snow, sleet,
21	M.	Pres. V.M. ♁	♁ low	♁ Stat. in R.A.		♁♃♅ ♁♀♃
22	Tu.	♁♃♅	27" rain Erie, Pa. 1956		{10.1 11.2	and
23	W.	Boston to 85 days 1856	Calcutta record Clipper Beverly Md.		{9.9 10.8	
24	Th.	Thanksgiving	♁ Gr. El. W.		{9.7 10.4	wind,
25	Fr.	52nd anniversary of Christian Science	Monltor		{9.5 9.9	little
26	Sa.	Beacon Hill's beacon blown down 1789			Tides {9.4 9.5	
27	B	Adbent S. ♁	on Eq.		{9.5 9.3	wonder
28	M.	Cyclone Boston 1958	♁♀♃		{9.6 9.3	Adam
29	Tu.	Benedict Arnold at Quebec 1775			{9.9 9.3	sinned.
30	W.	Andrew Apo.	Dr. Cook did not reach N. Pole 1910		{10.1 9.3	

My friend who is not very old, but who is very rich and retired, has a strange sort of workshop. He does not work in it, but calls it a workshop because his life was built on work alone.

This retreat, for so it really is, lies well away from his fine mansion (which he loathes) and under a canopy of gloomy maples.

Within his one room "workshop" (a converted chicken house) are no signs of labor. There is only the master's deep easy chair and another, little worn, for a guest—if he comes; a soapstone stove, a window to the vegetable garden, a window to the lonely mountain, a bookshelf, a desk, a bottle. My friend is in his chair before a fire, for the east wind drives a bitter rain. He waves me to be seated, but stares morosely out the damp window.

"Cozy," I venture.

"No good, no good," he sighs. "Look," and he turns fiercely, almost desperately, "why am I here? All my life I worked, I worked hard and I made money. And I know now I was happy. But because I had worked I thought I'd earned a rest. I thought without work a man could really live. I wanted to get away from work—forever. And so I'm sitting in this d—d bathtub of a chair—forever. There's nothing left to fight, nor anything left to run away from, not even myself."

It was so tragic, so terribly final. What could I say? What could I offer my friend but his own broken sword?

Leap Year's Quadrennial Voice proclaims "Ladies Choice".

1960]

DECEMBER, TWELFTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	21s.	53	7	22	40	13	23	11	19	23	25	25	23	23	23
2	22	02	8	22	46	14	23	14	20	23	26	26	23	21	23	21
3	22	10	9	22	52	15	23	17	21	23	26	27	23	18	23	18
4	22	18	10	22	57	16	23	20	22	23	26	28	23	15	23	15
5	22	26	11	23	02	17	23	22	23	23	26	29	23	12	23	12
6	22	33	12	23	07	18	23	24	24	23	25	30	23	08	23	08

○ Full Moon, 2nd day, 11 h. 25 m., evening, E.

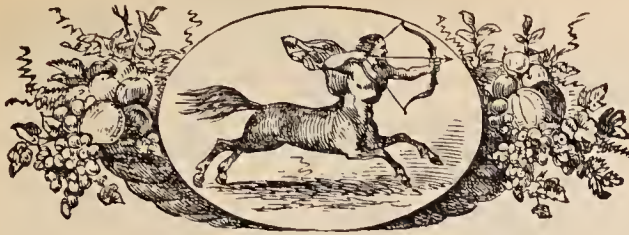
☾ Last Quarter, 11th day, 4 h. 39 m., morning, E.

● New Moon, 18th day, 5 h. 47 m., morning, E.

☽ First Quarter, 24th day, 10 h. 30 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 82-86, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉ Rises h. m.	☉ Key	☉ Sets h. m.	☉ Key	Length of Days h. m.	Sun Fast m.	Full Sea, Boston. h.	☽ Rises h. m.	☽ Key	☽ Sets h. m.	☽ Key	☽ Place	☽ Age	
336	1	Th.	6 53	N	4 13	D	9 20	27	9 $\frac{3}{4}$	10 $\frac{1}{4}$	F	3 $\frac{P}{M}$ 43	F	5 $\frac{A}{M}$ 03	L TAU 13	
337	2	Fr.	6 54	N	4 13	D	9 18	26	10 $\frac{1}{2}$	11	E	4 20	E	6 02	M G'M 14	
338	3	Sa.	6 55	N	4 13	D	9 17	26	11	11 $\frac{1}{2}$	E	5 02	E	6 59	M — —	
339	4	B	6 56	N	4 13	D	9 16	25	11 $\frac{3}{4}$	—	E	5 48	E	7 51	M G'M 15	
340	5	M.	6 57	N	4 12	D	9 15	25	0 $\frac{1}{4}$	0 $\frac{1}{2}$	E	6 37	E	8 40	M CNC 16	
341	6	Tu.	6 58	N	4 12	D	9 14	25	1	1	E	7 29	E	9 24	M CNC 17	
342	7	W.	6 59	O	4 12	C	9 13	24	1 $\frac{1}{2}$	1 $\frac{3}{4}$	F	8 23	F	10 04	M LEO 18	
343	8	Th.	7 00	O	4 12	C	9 12	24	2 $\frac{1}{4}$	2 $\frac{1}{2}$	F	9 19	F	10 40	L LEO 19	
344	9	Fr.	7 01	O	4 12	C	9 11	23	3	3 $\frac{1}{4}$	G	10 17	G	11 12	K LEO 20	
345	10	Sa.	7 02	O	4 12	C	9 10	23	3 $\frac{3}{4}$	4	H	11 $\frac{P}{M}$ 16	H	11 $\frac{A}{M}$ 43	K VIR 21	
346	11	B	7 03	O	4 12	C	9 09	22	4 $\frac{3}{4}$	5	—	—	—	—	12 $\frac{P}{M}$ 12	J VIR 22
347	12	M.	7 04	O	4 13	C	9 09	22	5 $\frac{1}{2}$	6	I	12 $\frac{A}{M}$ 16	I	12 42	I LIB 24	
348	13	Tu.	7 04	O	4 13	C	9 08	21	6 $\frac{1}{2}$	6 $\frac{3}{4}$	J	1 18	J	1 14	H LIB 25	
349	14	W.	7 05	O	4 13	C	9 08	21	7 $\frac{1}{4}$	7 $\frac{3}{4}$	K	2 23	K	1 47	G SCO 26	
350	15	Th.	7 06	O	4 13	C	9 07	20	8 $\frac{1}{4}$	8 $\frac{3}{4}$	K	3 30	K	2 25	F SCO 27	
351	16	Fr.	7 07	O	4 13	C	9 07	20	9	9 $\frac{1}{2}$	L	4 40	L	3 08	E SCO 28	
352	17	Sa.	7 07	O	4 14	C	9 06	19	9 $\frac{3}{4}$	10 $\frac{1}{4}$	M	5 50	M	3 58	E SGR 29	
353	18	B	7 08	O	4 14	C	9 06	19	10 $\frac{3}{4}$	11 $\frac{1}{4}$	M	6 57	M	4 56	E CAP 0	
354	19	M.	7 09	O	4 15	C	9 06	18	11 $\frac{1}{2}$	—	M	7 59	M	6 01	E CAP 1	
355	20	Tu.	7 09	O	4 15	C	9 06	18	0	0 $\frac{1}{4}$	M	8 55	M	7 10	E AQR 2	
356	21	W.	7 10	O	4 15	C	9 06	17	1	1 $\frac{1}{4}$	L	9 44	L	8 22	F AQR 3	
357	22	Th.	7 10	O	4 16	C	9 06	17	1 $\frac{3}{4}$	2	L	10 26	L	9 33	G PSC 4	
358	23	Fr.	7 11	O	4 17	C	9 06	16	2 $\frac{3}{4}$	3	K	11 02	K	10 42	H PSC 5	
359	24	Sa.	7 11	O	4 17	C	9 06	16	3 $\frac{3}{4}$	4	J	11 $\frac{A}{M}$ 36	J	11 $\frac{P}{M}$ 49	I ARI 7	
360	25	B	7 11	O	4 18	C	9 06	15	4 $\frac{3}{4}$	5	I	—	—	—	—	ARI 8
361	26	M.	7 12	O	4 18	C	9 07	15	5 $\frac{3}{4}$	6 $\frac{1}{4}$	H	12 39	H	12 $\frac{A}{M}$ 53	J ARI 9	
362	27	Tu.	7 12	O	4 19	C	9 07	14	6 $\frac{3}{4}$	7 $\frac{1}{4}$	G	1 11	G	1 55	K TAU 10	
363	28	W.	7 12	O	4 20	C	9 07	14	7 $\frac{3}{4}$	8 $\frac{1}{4}$	F	2 56	F	2 56	L TAU 11	
364	29	Th.	7 13	O	4 21	C	9 08	13	8 $\frac{1}{2}$	9	E	2 21	E	3 56	L G'M 12	
365	30	Fr.	7 13	O	4 21	C	9 09	13	9 $\frac{1}{4}$	9 $\frac{3}{4}$	E	3 01	E	4 53	M G'M 13	
366	31	Sa.	7 13	O	4 22	C	9 09	13	10	10 $\frac{1}{2}$	E	3 $\frac{P}{M}$ 45	E	5 $\frac{A}{M}$ 46	M CNC 14	



Now Days are short, Nights long and raw,
 With pinching Frost, and stabby Rain and Snow;
 But let good rousing Fires, and Christmas Cheer,
 Still mix'd with Charity, conclude the Year.
 As all to Change and Dissolution tend,
 POOR ALMANACKS, even they must have an End.
 John Nathan Hutchins, 1799

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Th.	Stat. Chicago school in R.A. fire 1958	10.3 9.3 <i>Gone</i>
2	Fr.	The "hunter's" full moon	10.4 9.2 <i>are the leaves,</i>
3	Sa.	Hall Mills case closed 1926	Tides { 10.4 9.1 <i>all except</i>
4	B	2nd S.A. Carides high Carlyle	10.3 10.1 <i>—</i>
5	M.	Earliest sunsets 5th-11th	Tides { 9.0 10.1 <i>Eve's.</i>
6	Tu.	St. Nich. Apo. ♂♂♂	Tides { 8.9 9.9 <i>Not so</i>
7	W.	Pearl Harbor green 1883	Tides { 8.8 9.6 <i>wild,</i>
8	Th.	Conc. V.M. city No. 3-1953	8.7 9.3 <i>calm</i>
9	Fr.	♂♂♂ Boston's original codfish cooked 1746	8.6 9.0 <i>and</i>
10	Sa.	First American "Municipal Bond" 1690	8.5 8.7 <i>mild.</i>
11	B	3rd S.A. Tides	8.6 8.6 <i>Hit the</i>
12	M.	on Mary & Jos's House (10th) Eq. crossed Mediterranean 1294	8.8 8.6
13	Tu.	St. Lucy fire (Ga.-N.E.) 1833	9.1 8.7 <i>sack,</i>
14	W.	Hanukkah ice breakers Potomac 1958 day	8.7 — <i>winter</i>
15	Th.	Napoleon div. Josephine 1809 ♂ψ♂	Stat. in R.A. is
16	Fr.	Annie Laurie b. 1682 Shortest Lazarus d. (2nd ti) 63 A.D. 17-25th	10.6 9.6 11.2 10.0 <i>back.</i>
17	Sa.	4th S.A. runs lke spoke '58 low outer space	11.7 — <i>or</i>
18	B	in Peri. ♂h♂ Rome burns 1869	11.7 — <i>snow,</i>
19	M.	Forefathers' Day tomorrow	Tides { 10.4 11.7 <i>who's to</i>
20	Tu.	Winter Begins 3.27 P.M. ☉ cn- ters ♃ ♂♀♂	10.3 11.0 <i>know?</i>
21	W.	First gorilla born in captivity 1956	10.3 11.0
22	Th.	Geo. Catlin famous Indian painter d. 1872	10.0 10.5 <i>Christmas</i>
23	Fr.	Ball of fire struck Grabon, 1821	Tides { 9.8 9.9 <i>green so</i>
24	Sa.	Christmas on Eq. ♂ nearest	9.6 9.3 <i>it</i>
25	B	Steph. Apo. 3 U.S. yachts cross Atlantic 1866	9.5 8.9 <i>seems.</i>
26	M.	John, Ev. Cath. St. John Divine beg. 1892	9.5 8.7 <i>Fine</i>
27	Tu.	Child. Westminster Abbey ded. 1065	9.6 8.6 <i>and cold,</i>
28	W.	Franklin's birthplace bt. 1810	Tevens { 9.7 8.6 <i>our</i>
29	Th.	U.S. specie pay'ts suspended 1861	9.8 8.6 <i>story is</i>
30	Fr.	And a Happy New Year to all	Tides { 9.9 8.7 <i>told.</i>
31	Sa.		

My wife and I still decorate our tree with a few of the Christmas ornaments she remembered as a little girl. And there is the stocking from her first Christmas. It seems to get smaller each year, but "Grandma's stocking" is just the right size now when hung with all the other stockings just as small—one of them this year for the first time.

What a lonely hearth it would be of a Christmas morning, were it not for the confusion of getting the right small stocking into the right small hand. What a merry to-do over the stocking presents. Ned has Arthur's harmonica, little Billy has busted both his balloons, and Jane has eaten Mary's chocolate Santa, which still leaves Jane her own.

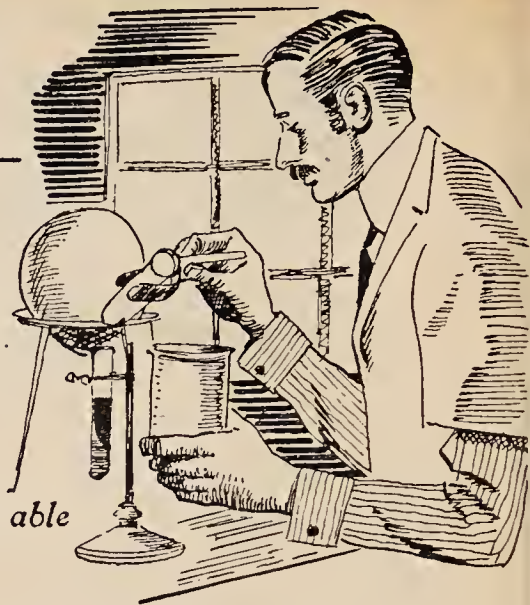
Then the breakfast (as if anyone cared) and then the tree, its tinsel and ornaments sparkling in the sunlight, eandy canes on its boughs, a river of presents flowing out from its green skirts. A doll proclaims itself, a cart, a sled—a tricycle which is suddenly everyone's. Distrant mothers cheerfully distribute. This for Tommy, this is Joanna's (put it at the foot of her crib—she might eat it), this is Jane's. Jane! Where is Jane? Don't worry about Jane. She is sitting under the piano with packages of her own gathering. Grandma, with considerable effort is peering in at her. "Why, dear, are all those your presents?" "Dunno, Sweetie Pie," says Jane happily. "I can't read."

Merry Christmas!

*For sore,
aching muscles—*

An old New England Remedy

*Nobody has ever been able
to duplicate*



Before the turn of the century, a native New Englander searched for a pleasant, effective way to relieve one of man's most common ailments—the searing aches and pain that overexertion inflicts on muscles.

He discovered that a special blend of oils and tinctures rubbed upon the afflicted areas brought almost unbelievable relief.

Soon, through all New England—then across the country—men, women, and children no longer needed to fear the anguish that unaccustomed exercise exacts from legs, arms, and back muscles. For this New Englander's special formula stood ready in millions of medicine cabinets



to bring them blessed relief.

Today, Americans bound to desk or machine or shop all week, get their exercise from sports and household chores on weekends only. And muscles, after occasional weekend workouts, suffer!

But in this modern day, an old New England remedy is theirs to rely upon. And its special blend has never been duplicated by newer products.

It is the undisputed fact that this time-tested liniment has been a household stand-by, bringing its unmatched relief to millions, continuously since 1894.

This famous product is called Absorbine Jr., and if you would like to see what it can do for your own muscle aches, buy a bottle today wherever drugs are sold. W. F. Young, Inc., Springfield, Mass.

PART TWO

Secrets of the Zodiac & Planets

(Being the interpretation, astrologic, and just for fun,
Of all serious scientific data in Part One.)

FAMOUS DEBOWELLED
MAN OF THE SIGNS

- ♈ Aries, head. ARI
Mar. 21-Apr. 19
♉ Taurus, neck. TAU
Apr. 20-May 20
♊ Gemini, arms. G'M
May 21-June 20
♋ Cancer, breast. CNC
June 21-July 22
♌ Leo, heart. LEO
July 23-Aug. 22
♍ Virgo, belly. VIR
Aug. 23-Sept. 22
♎ Libra, reins. LIB
Sept. 23-Oct. 22
♏ Scorpio, secrets. SCO
Oct. 23-Nov. 21
♐ Sagittarius, thighs. SGR
Nov. 22-Dec. 21
♑ Capricornus, knees. CAP
Dec. 22-Jan. 19
♒ Aquarius, legs. AQR
Jan. 20-Feb. 18
♓ Pisces, feet. PSC
Feb. 19-Mar. 20



Man of the Signs used by Abe Weatherwise, 1784

These signs abbreviated appear
for each day pages 14-36.

Now here, above, for all to consider (merrily)
Is Old Abe's astrological man of the 15th Century.
Since the earth in its travels 'round the sun
Divides the heavens into a twelve part run,
Each part, called constellation, has a name and a sign,
Which, in turn, is hitched to this man (note the line).
Under the sign during which you were born (too soon?)
You are ruled by that body part and the planets, especially the moon
Thus, dear reader, you will find pages 14 to 36
Carry for each day these signs (in a short syllabic fix),
Like ARI for ARIES, TAU for TAURUS, G'M for GEMINI
That you may be well guided through eternity.

In what now follows under each sign you'll find advice
To make your actions and thoughts advantageous and nice.
In addition are symbolized the most favorable moons
● for new; ☾ first quarter; ○ the full; ☾ when she swoons.
For the moon, too, there follows a table by quarters
To bring you guidance and fill up your larders.

Apologies are in order, perhaps, for this rhyming and nonsense;
But, be sure to remember all errors here are with poetic license.

Continued on next page



ARIES

ABBR: "ART" SIGN: LAMB

Controls the head and face

Belongs to those born Mar. 21-Apr. 19

The ruling planet of Aries is Mars, which is just fine,
For the fiery, masculine, headstrong, impulsive people of this sign.
Poor business partners they make, but succeed when the need's for brains,
And all need ARI when taking mineral baths for gout, aches and pains.
Use this sign too for any project which depends on heavy rains;
Fine also for moving around, whether by plane, boat or trains.
Jasper or bloodstone (courage and wisdom) the birthstone is; the color, red.
Keep out of the very hot sun or you'll wish you'd stayed in bed.

Plant crops or fruits to be harvested above the ground.

To graft fruit trees ○ ☾ ; slip artichokes and sage ○ ☾ is sound.

Cut trees or bushes you want to grow again ● ☽ ; but be not bound

In business dealings or intellectual pursuits or you'll be drowned.

Geld your lambs and cattle ○ ☾ ; fine now for cutting bark by tanners.

But above all, you quick-tempered Arians, mind first your manners.

TAURUS

ABBR: "TAU" SIGN: BULL

Controls the throat and neck

Belongs to those born Apr. 20-May 20



Taurians are earthy and feminine; the planet Venus does the ruling.
They are stable and firm and have "green thumbs" (no fooling).
Diamond or sapphire (purity, peace, virtue) the birthstone is; color blue;
Excellent for hatching canaries or other birds that sing — or coo.
Make cement or dig a hole ○ ; but clothes ● ☽ ; or a home or two;
Set out those fence posts ○ ☾ ; take lambs from dams, teach hops to climb;
Prune vines ○ ; to breed for does or daughters, now is just the time.
Plant fruit or crops you'll harvest underground ○ or ☾ like
Potatoes, parsnips, carrots and beets. A practical art is your turnpike.

GEMINI

ABBR: "G'M" SIGN: TWINS

Controls shoulders, lungs, arms,
hands, and the nervous system

Belongs to those born May 21-June 20



Geminians, in general airy, flexible, and barren, live by Mercury.
Highstrung, fickle, enthusiastic, they seldom finish breakfast or a symphony.
Emerald (for immortality) is their birthstone and their color is light gray.
These people should excel in outer space development in the Milky Way.
The sign is good for shearing your sheep ● ☽ ; bring in firewood,
Weed the garden, make hay, set out flowers, rue and wormwood,
Carry sand or lime or manure to pastures, fields, and gardens.
And, as changeable as you are, better carry along a bag of "beg your pardons."

CANCER

ABBR: "CNC" SIGN: CRAB

Controls breast and stomach

Belongs to those born June 21-July 22



Cancer seems to be the most fruitful sign — little wonder
As the ruling planet here is the Moon. Cancerians must ponder
Since on things watery, movable, feminine, and fulsome they are said to be
Sensitive, psychic, nostalgic — have weak stomachs, and so like tea.
Warmth, sight, light, and breath are things on which they can rely.
Their color's green, their stone is agate, for health, wealth, and longevity.
The fishing is best now only if moon is at change of phase
So make sauerkraut, set eggs ● ☽ , and to the Lord give praise.
Go gather galls from sumac, pine, and gallnuts from oak trees,
To spread upon your floors, for these will banish moths and fleas.
Start projects for which dryness is essential, bake bread, or brew, ○ ☽ ,
Can foods ○ ☽ , plant flowers for abundance, vegetables too ☽ ,
Shear sheep ● , plant "above ground" fruits, crops, and flowers,
Take all purgatives ○ ☾ , and beware of tri-colored cats, and showers.



LEO

ABBR: "LEO" SIGN: LION

Controls the heart

Belongs to those born July 23-Aug. 22

The Leo born should be full of fun — their ruling planet is the Sun. Affectionate, generous, leaders they are, when all is said and done. They in turn will want to heed matters of time and all living things. Don't cross or heckle a Leonite — such action always trouble brings. Their stone is turquoise (prosperity and cheer); their color, sky blue. It is now you can gather beans and ripe crops, free of dew. Cut brush June through August ☉ ☾; it won't grow again if the alder's cut now. And mow if you can for there's luck these days in the haymow. Collect seeds, sow winter herbs ☀, dig a hole or buy a home; Prune a vine ☉, or buy a hat, but don't drink anything with foam.

VIRGO

ABBR: "VIR" SIGN: VIRGIN

Controls the lower intestines

Belongs to those born Aug. 23-Sept. 22



Like the Geminian, the Virgoan has Mercury for planet chief. In it these earthy, fixed, feminine, and barren find relief. They make good financiers, scientists — are diligent and kind; In studies of water, form, taste or image they won't fall behind. The birthstone is carnelian (prevents ill fortune); color gray and blue. Again a sign for begetting daughters or a doe or two. Sow winter wheat and barley — plant trees and ☀ ☽ shrubs Put swine at mast ☀, kill bees ☾, don't wear anything that rubs.

LIBRA

ABBR: "LIB" SIGN: SCALES

Controls the loins

Belongs to those born Sept. 23-Oct. 22



The Taurians and Librans share, apparently, the planet Venus. But are semi-fruitful, airy, masculine, movable, and ingenious. Sex, smell, tangibility, the physical body, their thoughts will hold; In fact any physical manifestation holds interest for them we're told. The birthstone is chrysolite (it gladdens the heart); color crimson — So not to send a son to Harvard would be practically treason. Hatch birds for pretty colors now; plant flowers for beauty or fragrance. But any operations which require moisture haven't got a chance. Or cut trees you wish to grow again and now your gardens dig ☾ Set acorns and other nuts ☀ ☽; and if you have one the small-mouthed fig. Plant herbs of course and crops above the ground you'll harvest. Buy clothes, bake bread, and with smiles you'll travel farthest.

SCORPIO

ABBR: "SCO" SIGN: SCORPION

Controls the generative organs

Belongs to those born Oct. 23-Nov. 22



The Scorpion, like the Arien is, worse luck, ruled by Mars, Is watery, feminine and fixed, and easily hurt by wars. Darkness, feeling, desire and doing require special attention. For all under this sign is deep, dark, secret and allows no mention. Beryl is the birthstone, bringing happiness and eternal youth. Dark red is the color chosen, unless perchance for a new tooth. Make malt ☉ ☾; kill hogs ☽; a good sign to in which to paint ☉ ☾. And when I say to mulch your gardens, do not faint. You can cut timber for carts and ploughs, or buy a home; Can foods ☀ ☾; take purgatives ☉ ☾ — then do not roam. This is a good sign too for increasing the female population — So too in the Virgo, Scorpio, Capricorn, and Pisces constellations.

SAGITTARIUS

ABBR: "SGR" SIGN: ARCHER

Controls the thighs

Belongs to those born Nov. 23-Dec. 21



These fiery, masculine, and flexible souls have Jupiter as king,
 And they do best, like the Scotch, in moral motives and thinking.
 Birthstone is Topaz, meaning friendship and fidelity — purple's their color,
 And for them routine jobs just could not be duller.
 Geld your cattle, buy clothes ● ♃, and don't scold.
 Cover your flowers and herbs with rotted horse manure (old).
 Uncover the roots of fruit trees (they enjoy the winter).
 Harvest your fruits — watch your hands, the ladder may splinter.
 Carry on operations best suited to dry weather, and be sincere —
 You have tendencies to exaggerate which may cost you dear.

CAPRICORN

ABBR: "CAP" SIGN: GOAT

Controls the knees

Belongs to those born Dec. 22-Jan. 19



"Dat ole debil" Saturn rules over the Capricornicious
 So they've got to be self-conscious, knowledgeable, and suspicious.
 The birthstone, Ruby (real dark), has the power to save them,
 But, being earthly, feminine, and movable, the good Lord is their Sachem.
 Old "Cap" is the best for cutting timbers for houses or bridges or buildings ○ ♄.
 And also for removing unwanted trees, or brush and seedlings.
 Or prune fruit trees or vines, geld cattle ○ ♄, bake bread
 Breed for females, wean colts, sow or plant — and make the bed.

AQUARIUS

ABBR: "ACQ" SIGN: WATER BOY

Controls the legs

Belongs to those born Jan. 20-Feb. 18



Here we have some great people of whom Uranus makes slaves;
 Airy, masculine, and fixed, they adore intellectual caves.
 For grace and victory the many-colored garnet is their birthstone,
 And for their most successful accomplishments they must work alone.
 A good planting and sowing sign ● ♃, despite its season.
 Wean colts, or prune and trim, cut timber within reason.
 Excavate, make cement ○, set posts ○ ♄, buy a home;
 Repair dykes and dams, remove trees, cover gardens with loam.
 The one thing Aquarians must be careful they won't do
 Is to eat phlegmatic meats — like sows' ears or an old shoe.

PISCES

ABBR: "PSC" SIGN: FISH

Controls the feet

Belongs to those born Feb. 19-Mar. 20



We like this sign and its bearded king Neptune,
 For it means that the Equinox (and Spring) will be here soon.
 It is watery, feminine, flexible, fruitful, and could be
 Best for intelligence, abstract will, or joining a fraternity.
 Catch fish under this sign when the moon's changing phase.
 Plant bulbs or tubers ○ ♄, brew malt ○ ♄, to ground-hogs give chase.
 Breed for females, cut timber ○ ♄, take a purgative real strong.
 Amethyst (for deep love) is the birthstone, marine colors ring the gong.
 Good time to set hens ● ♃, graft, sow, plant ● ♃, and for weaning
 Can foods, and beware of the inferiority complex, for you it has no meaning.

Moon Saws

See Lefthand Pages 14-36 for Moon Phases

NEW MOON ●

WHEN NEW ●, six to one there will be a weather change. See it over your left shoulder, your luck from bad to good will range. Have some money in your pocket though, if it's riches you acclaim, And if you can't hang your hat on it, surely count on rain. Kill pigs for best bacon, and set seeds and plants to grow; But wood cut now, and next quarter, decays not at all slow. Your nails and hair will begin to grow faster and faster, As will your lawn unless you dowse it with plaster. It's a time for good fishing, and to cure whooping cough; Shear your sheep and cut timber for bridges you want to be tough. But as this moon comes in, says the old superstition, So everything will remain (including snow) until the full fills its mission.

FIRST QUARTER ☽

FIRST QUARTER ☽, when it has reached eight days old Will give you a look at the man-in-the-moon, I am told. Oysters prefer this phase for spawning — afternoon, evening, or morning. In June or July cut birch bark for tubs — it's no time for yawning. Do your transplanting just now and get in your corn — And in general remember this moon and the new together were born. For a change in the weather the odds are just two to one, But there are plenty of ways in which to have fun.

FULL MOON ○

THE MOON IS NOW FULL ○ and tree sap flows strongest. The temperature gets coldest and surely lasts longest. For a change, two to one is the best you can hope for. But crime walks abroad like a veritable spectre. Plant now all those crops which mature underground, Slaughter the livestock (3 days after the full) for best price per pound, Dig your potatoes, cut all your hay, cut timber for use where dry. Masculine births, two and one-half days after the full, run shy. The North African sea urchin comes up to release all her cells, And the buried cities of Atlantis are all ringing their bells.

LAST QUARTER ☾

THIS LAST QUARTER ☾ is the time when the old moon swoons. Lunacy is most active — not only among loons. Samoan pololo worms rise in October and November to flirt. With grunion fish and oysters and 'most any sea "skirt". Turn the sod, destroy weeds, cultivate well. Good time to spray. Chestnut cut now (if you've any to cut) will not snap, so they say, In fireplace, fence rails, highboys, furnace or floor, Cut hemlock too and split it to set by the door. Good sign for fishing, and for setting out young trees. Then, ere the new moon comes, go and do as you please.

SHORT CUTTER

Short Cuts Dozens of
Kitchen Chores



75c each
3 for \$2.00

IMPORTED ROSEWOOD HANDLE. 3 $\frac{5}{8}$ " flexible stainless steel blade with serrated edge. Frosts cakes, cuts and spreads sandwiches, trims crusts, slices vegetables, handy spatula . . . right width for mustard, mayonnaise, peanut butter jars. You'll wonder how you ever got along without them. Perfect 'bread and butter', shower, remembrance and stocking gift.

PERRY PRODUCTS Box 386A, Peterborough 2, New Hampshire



OUTDOOR PLANTING TABLE, 1960

Find the latitude of your town or city. Interpolate between columns below to find your planting date. For example, if you live in Grove City, Pa. (Lat. 41°09'35") this would mean the latitude was about halfway between Boston-Phila. So your planting times would also be halfway between. N.B. Plant one week later for every 500 ft. elevation above sea level.

The "Moon Most Favorable" columns give the superstitious times when the phase of moon is "Right" for planting the crop indicated during 1960. See also pages 13, 39-43. For flowers, use same dates as Beans, except bulbs for which use the Beets column.

Above Ground Crops Best Signs: ARI, CNC, LIB, ACQ, PSC. Below Ground TAURUS	42°21'44" Boston Latitude		39°53'58" Phila. Latitude		33°45'10" Atlanta Latitude	
	Plant Anytim Between Dates Below	Moon Most Favorable Between	Plant Anytime Between Dates Below	Moon Most Favorable Between	Plant Anytime Between Dates Below	Moon Most Favorable Between
Barley	May 15-Jun 21	May 25-Jun 2	Mar 15-Apr 7	Mar 27-Apr 7	Feb 15-Mar 7	Feb 26-Mar 7
Beans (Early)	May 7-Jun 21	May 7-10, 25-31	Apr 15-30	Apr 25-30	Mar 15-Apr 7	Mar 27-Apr 7
(Late)	Jun 15-Jul 15	Jun 23-Jul 7	Jun 1-21	Jun 2-8	Aug 7-30	Aug 22-30
Beets (Early)	May 1-15	May 11-15	Mar 15-Apr 30	Mar 15-26	Feb 7-29	Feb 12-25
(Late)	Jul 15-Aug 15	Jul 15-22	Aug 15-30	Aug 15-21	Sep 1-30	Sep 5-19
Broccoli (E)	May 15-30	May 25-30	Mar 7-30	Mar 27-30	Feb 15-Mar 15	F 26-Mr 12
(Late)	Jun 15-Jul 7	Jun 23-Jul 7	Aug 1-20	Aug 1-5	Sep 7-30	Sep 20-30
Brussels Spr.	May 15-30	May 25-30	Mar 7-Apr 15	Mar 27-Apr 7	Feb 11-Mar 20	F 26-Mr 12
Cabbage (E)	May 15-30	May 25-30	Mar 7-Apr 15	Mar 27-Apr 7	Feb 11-Mar 20	F 26-Mr 12
Plants (L)	Jun 7-Aug 7	Jul 23-Aug 7	Jun 1-Jul 7	Jun 23-Jul 7	Jul 15-30	Jul 23-30
Carrots (E)	May 15-30	May 15-30	Mar 7-31	Mar 13-26	Feb 15-Mar 7	Feb 15-25
(Late)	Jun 15-Jul 21	Jun 15-22	Apr 7-May 30	May 11-24	Aug 1-Sept 7	Aug 6-21
Cauliflower (E)	May 15-30	May 25-30	Mar 15-Apr 7	Mar 27-Apr 7	Feb 15-Mar 7	F 26-Mr 7
Plants (L)	June 15-Jul 21	Jun 23-Jul 7	Jun 1-Jul 7	Jun 23-Jul 7	Aug 7-30	Aug 22-30
Celery (Early)	May 15-Jun 30	May 15-24	Mar 7-30	Mar 13-26	Feb 15-28	Feb 15-25
(Late)	Jul 15-Aug 15	Jul 15-22	Jun 15-Jul 7	Jun 15-22	Apr 15-30	Apr 15-24
Corn, Sweet (E)	May 10-Jun 15	May 25-Jun 2	May 1-15	May 3-10	Mar 15-29	Mar 27-29
(Late)	Jun 15-30	Jun 23-30	May 7-Jun 21	May 25-Jun 8	Aug 7-30	Aug 22-30
Cucumber	May 7-Jun 20	May 25-Jun 8	Apr 7-May 15	Apr 25-May 10	Mar 7-Apr 15	Mar 27-Apr 10
Egg Plant Plants	Jun 1-30	Jun 23-30	Apr 7-May 15	Apr 25-May 10	Mar 7-Apr 15	Mar 27-Apr 10
Endive (Early)	May 15-30	May 15-24	Apr 7-May 15	Apr 11-24	Feb 15-Mar 20	Feb 15-25
(Late)	Jun 7-30	Jun 9-22	Jul 15-Aug 15	Jul 15-22	Aug 15-Sept 7	Aug 15-21
Kale (Early)	May 15-30	May 25-30	Mar 7-Apr 7	Mar 27-Apr 7	Feb 11-Mar 20	F 26-Mr 12
(Late)	Jul 1-Aug 7	Jul 23-Aug 7	Jul 15-31	Jul 23-31	Sep 7-30	Sep 7-19
Leek Plants	May 15-30	May 15-24	Mar 7-Apr 7	Mar 12-26	Feb 15-Apr 15	Feb 15-25
Lettuce	May 15-Jun 30	May 25-Jun 8	Mar 1-31	Mar 1-12	Feb 15-Mar 7	F 26-Mar 7
Melon (Musk)	May 15-Jun 30	May 25-Jun 8	Apr 15-May 7	Apr 25-May 7	Mar 15-Apr 7	Mar 27-Apr 7
Onion Plants	May 15-Jun 7	May 15-24	Mar 1-31	Mar 13-26	Feb 1-28	Feb 12-25
Parsley	May 15-30	May 25-30	Mar 1-31	Mar 1-12	Feb 20-Mar 15	F 26-Mr 12
Parsnip	Apr 1-30	Apr 11-24	Mar 7-31	Mar 13-26	Jan 15-Feb 4	Jan 15-27
Peas (Early)	Apr 15-May 7	Apr 25-May 7	Mar 7-31	Mar 7-12	Jan 15-Feb 7	Jan 28-Feb 7
(Late)	Aug 15-30	Aug 22-30	Jul 7-31	Jul 23-31	Aug 15-30	Aug 22-30
Pepper Plants	May 15-Jun 30	May 25-Jun 8	Apr 1-30	Apr 25-30	Mar 1-20	Mar 5-12
Pumpkin	May 15-30	May 25-30	Apr 23-May 15	Apr 25-May 10	Mar 7-20	Mar 7-12
Potatoes	May 1-15	May 11-15	Apr 1-15	Apr 11-15	Feb 10-Mar 1	Feb 12-25
Radish (Early)	Apr 15-30	Apr 15-24	Mar 7-31	Mar 13-26	Jan 21-Mar 1	Jan 21-27
(Late)	Aug 15-30	Aug 15-21	Sept 7-30	Sept 7-19	Oct 1-21	Oct 4-19
Spinach (E)	May 15-30	May 25-30	Mar 15-Apr 20	Mar 27-Apr 10	Feb 7-Mar 15	Feb 26-Mar 12
(Late)	Jul 15-Sept 7	Jul 23-Aug 5	Aug 1-Sept 15	Aug 22-Sept 4	Oct 1-21	Oct 20-21
Swiss Chard	May 1-30	May 25-30	Mar 15-Apr 15	Mar 27-Apr 10	Feb 7-Mar 15	Feb 26-Mar 12
Summer Squ	May 15-Jun 15	May 25-Jun 8	Apr 15-May 15	Apr 25-May 10	Mar 15-Apr 15	Mar 27-Apr 10
Tomato Plants	May 15-30	May 25-30	Apr 7-30	Apr 25-30	Mar 7-20	Mar 7-12
Turnip (Early)	Apr 7-30	Apr 11-24	Mar 15-30	Mar 15-26	Jan 20-Feb 15	Jan 20-27
(Late)	Jul 1-Aug 15	Jul 8-22	Aug 1-20	Aug 6-20	Sept 1-Oct 15	Oct 4-15
Wheat (Wint.)	Sept 11-15	Sept 4	Sept 15-Oct 20	Sept 20-Oct 3	Oct 15-Dec 7	Oct 20-Nov 2
(Spring)	Apr 7-30	Apr 25-30	Apr 1-20	Apr 1-10	Mar 15-31	Mar 27-31

HARRIS' NORTH STAR

The Finest Early Sweet Corn Of All!

No other early hybrid has been developed that combines all of North Star's features: *Early and uniform maturity • Bright golden kernels of fine quality • Large ears with attractive dark green husks • Grows vigorously even in cold soil.*

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Seedsman for three generations
of discriminating gardeners.

Send a postcard for our **FREE** catalog.

JOSEPH HARRIS CO., INC.

90 Moreton Farm

Rochester 11, N. Y.



KILLING FROSTS and GROWING SEASONS

Courtesy of U. S. Weather Bureau

City	G.S. (Days)	Last Frost Spring	First Frost Fall	City	G.S. (Days)	Last Frost Spring	First Frost Fall
Lander, Wyo. . .	123	May 18	Sept. 18	Boston, Mass. . .	195	Apr. 14	Oct. 26
Bismarck, N.D. . .	133	May 11	Sept. 21	Wichita, Kans. . .	197	Apr. 9	Oct. 23
Alpena, Mich. . .	141	May 13	Oct. 1	Cincinnati, Ohio . .	198	Apr. 8	Oct. 23
Helena, Mont. . .	145	May 7	Sept. 29	Lewiston, Ida. . .	201	Apr. 6	Oct. 24
Reno, Nev. . . .	145	May 14	Oct. 6	Harrisburg, Pa. . .	202	Apr. 9	Oct. 28
Marquette, Mich.	149	May 13	Oct. 9	Evansville, Ind. . .	207	Apr. 5	Oct. 29
Concord, N.H. . .	149	May 7	Oct. 3	Cairo, Ill.	212	Mar. 31	Oct. 29
Duluth, Minn. . .	152	May 6	Oct. 5	Richmond, Va. . .	216	Mar. 31	Nov. 2
Green Bay, Wis.	157	May 5	Oct. 9	Roseburg, Ore. . .	217	Apr. 8	Nov. 11
Pocatello, Ida. . .	160	Apr. 29	Oct. 6	Oklahoma City . . .	218	Mar. 30	Nov. 3
Denver, Colo. . .	160	May 3	Oct. 10	Chattanooga . . .	220	Mar. 29	Nov. 4
Pierre, S. Dak. . .	160	Apr. 30	Oct. 7	Raleigh, N.C. . . .	223	Mar. 27	Nov. 5
Minneapolis . . .	166	Apr. 27	Oct. 10	Little Rock, Ark. .	241	Mar. 18	Nov. 14
Detroit, Mich. . .	170	Apr. 28	Oct. 15	El Paso, Tex. . . .	242	Mar. 19	Nov. 16
Des Moines, Ia. . .	171	Apr. 21	Oct. 9	Tucson, Ariz. . . .	243	Mar. 11	Nov. 9
Fort Wayne, Ind.	171	Apr. 25	Oct. 13	Macon, Ga.	245	Mar. 14	Nov. 14
Ludington, Mich.	172	May 2	Oct. 21	Columbia, S.C. . . .	246	Mar. 17	Nov. 18
Albany, N.Y. . . .	174	Apr. 24	Oct. 15	Montgomery, Ala. .	250	Mar. 8	Nov. 13
Madison, Wisc. . .	174	Apr. 26	Oct. 17	Shreveport, La. . .	251	Mar. 6	Nov. 12
Santa Fe, N.M. . .	177	Apr. 25	Oct. 19	Portland, Ore. . . .	251	Mar. 15	Nov. 21
Hartford, Conn. .	177	Apr. 20	Oct. 13	San Bernardino . . .	259	Mar. 8	Nov. 22
Toledo, Ohio . . .	179	Apr. 22	Oct. 18	Eureka, Calif. . . .	277	Mar. 16	Dec. 18
Portland, Maine . .	181	Apr. 19	Oct. 17	Del Rio, Tex.	277	Feb. 23	Nov. 27
Spokane, Wash. . .	182	Apr. 14	Oct. 13	Sacramento	283	Feb. 19	Nov. 29
Parkersburg	184	Apr. 17	Oct. 18	Phoenix, Ariz. . . .	296	Feb. 10	Dec. 3
Omaha, Nebr. . . .	184	Apr. 14	Oct. 15	Yuma, Ariz.	334	Jan. 20	Dec. 20
Salt Lake City . . .	185	Apr. 18	Oct. 20	San Francisco . . .	350	Jan. 13	Dec. 29
Chicago, Ill. . . .	186	Apr. 16	Oct. 19	Los Angeles	*	*	*
St. Joseph, Mo. . .	191	Apr. 9	Oct. 17	Miami, Fla.	*	*	*
Trenton, N.J. . . .	191	Apr. 16	Oct. 24	San Diego	*	*	*
Springfield, Mo. .	193	Apr. 12	Oct. 22				

*Frosts do not occur every year.

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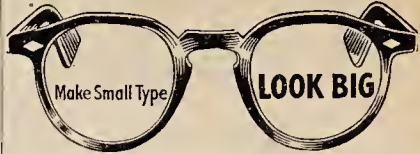
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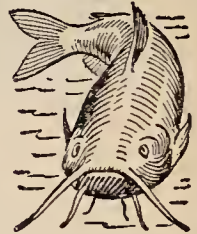
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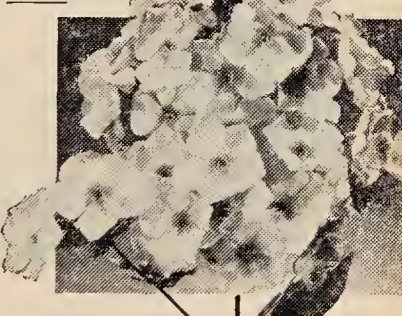


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Select Rhymes

for the Nursery, 1835— with woodcuts attributed to Abel Bowen . . . and (those marked "A") Alex Anderson, America's first wood engraver. The latter are from the History of the Goose Family.



GETTING UP

Baby, baby, open your eye,
For the sun is in the sky,
And he's peeping once again,
Through the frosty window
pane.

JEMMY JED

Jemmy Jed went into a shed,
And made a ted of straw his
bed,
An owl came out and flew
about,
And Jemmy Jed up stakes and
fled.



THE LITTLE COWARD

Why, here's a foolish little
man!
Laugh at him, Donkey, if you
can.
And Cat, and Dog, and Cow
and Calf,
Come, ev'ry one of you and
laugh.

THE COW

Thank you, pretty Cow, that
made
Pleasant milk to soak my
bread;
Ev'ry day, and ev'ry night,
Warm, and fresh, and sweet,
and white.



A



There was a man in our town,
 And he was wondrous wise,
 He jump'd into a bramble bush,
 And scratched out both his
 eyes:
 And when he saw his eyes were
 out,
 With all his might and main,
 He jumped into another bush,
 And scratched them in again.

A



What's the news of the day
 Good neighbor I pray?
 They say a balloon
 Has gone up to the moon.

A



Hush-a-bye, baby, upon the
 tree top,
 When the wind blows the
 cradle will rock;
 When the bough breaks the
 cradle will fall,
 Down tumble cradle, and baby
 and all.

GOOD NIGHT

Baby, baby, lay your head,
 On your pretty cradle bed;
 Shut your eye-peeps, now the
 day,
 And the light, are gone away.



A

TOM & HIS PIG

Tom, Tom, the piper's son,
Stole a pig and away he run;
The pig was eat,
And Tom was beat,
And Tom ran crying down the
street.

**THE BIRD**

Look! What a pretty bird I've
got.
In yonder field 'twas caught;
Just see its breast and painted
wings
And listen, John, how sweet
it sings.

**THE SHEEP**

Lazy Sheep, pray tell me why,
In the pleasant fields you lie,
Eating grass and daisies white,
From the morning till the
night?

**NO BREAKFAST
FOR GROWLER**

No, naughty Growler, get away,
You shall not have a bit,
Now when I speak, how dare
you stay!
I can't spare any, Sir, I say.

“Because I was nervous and irritable,
my doctor started me on Postum!”

“You know how it is when you’re nervous—any noise makes you *more* nervous and irritable.

“I finally went to the doctor. He said maybe I’d been drinking too much coffee. The caffeine in coffee upsets some people sometimes. He suggested I try Postum; it’s 100% caffeine-free, can’t make you nervous—or keep you awake.

“He was right. But one thing he forgot to tell me—just how good Postum is! Why don’t you try Postum for 30 days? You’ll like it, too.”



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Herb Recipes

By Duncan MacDonald

What woman would willingly forego her claim to mystery, and how could she be mysterious without her carefully guarded secrets?

Two thousand years ago, Cleopatra enlisted the fragrances of flowers and herbs in casting her spell over Caesar and Mark Antony. Down through the ages, women have sought beauty with the help of delightful fragrances. They have sprinkled lavender, geranium, and rose petals over their clothes. They have dreamed of romance as they smoothed on beauty lotions distilled from herbs and flower petals.

Then, since they believed the adage that the way to a man's heart is through his stomach, they have used the same ingredients to make his food appetizing, and many a woman has cherished her special ways of cooking with herbs among her most important secrets.

BEEF TONGUE WITH HORSERADISH

Herbs: Bay leaf, celery, onion

Select a 3-pound smoked beef tongue, scrub well, cover with fresh water, and add 1 celery rib and leaves, 2 bay leaves, 1 onion, and 10 peppercorns. Bring to boiling point and cook over moderate flame for $2\frac{1}{2}$ to 3 hours, or until tender. Leave in the stock until slightly cool, then skin and remove hard portion at base of tongue. Slice and serve with horseradish sauce.

HORSERADISH SAUCE

Herbs: Horseradish, parsley, chives

Grate horseradish root into white vinegar, using just enough to have a moist mixture. Then combine with cream sauce made by adding 2 tablespoons chopped parsley and 2 tablespoons chopped chives to basic cream sauce recipe.

HERB BROILED CHICKEN

Herbs: Oregano, rosemary, tarragon, thyme

One of the most interesting aspects of herbs is that you develop an attitude of experimentation and inquiry. Here is a simple recipe for broiled chicken that will become your own recipe, depending upon your choice of herbs: Cut chicken in half, insert just under the skin the minced herbs of your choice. Dot chicken with butter. Place several inches under broiler, baste frequently, turn once.

HERB BROILED SALMON

Herbs: Rosemary, dill

Dot salmon with butter, and sprinkle lightly with freshly minced rosemary leaves. Place fish about 3 inches from flame and broil 10-15 min. or until done. Dill may be substituted for rosemary.

HERB BROILED HALIBUT

Herbs: Tarragon, thyme

Dot halibut with butter, and sprinkle with freshly minced tarragon just before broiling. Thyme, dill, or rosemary may be substituted for tarragon.

HERB BROILED SCROD

Herb: Thyme

Cut a young cod fish into sections, sprinkle with salt and pepper and dip in melted butter. Roll in a mixture of bread crumbs and sprinkle with dried thyme. Broil until done, basting with melted butter.

Continued on page 55

"Handy Ham"



adds the last smack of flavor
to sandwiches, snacks and salads!

"Handy Ham" isn't a name we pinned on Underwood Deviled Ham. The ladies who use Underwood Deviled Ham (bless 'em) coined the name. Now we're not going to change the name on the label, but we know what homemakers mean. Underwood Deviled Ham is "handy ham". It does just about everything ham can do. It adds real ham goodness to sandwiches, sparks up salads—and makes a special treat of between-meal snacks. Yet, Underwood Deviled Ham is easy to keep on hand.

Why don't you check your pantry today? Make room for several cans of Underwood Deviled Ham. It's made from fine whole hams!

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FISH WITH HERBS**Herbs:** Savory, shallot

Almost any fish tastes better by sprinkling lightly with freshly minced savory or shallot just before serving.

HOT APPLE SLAW**Herb:** Tarragon

3 cups cabbage, shredded	2½ tbs. butter
3 tbs. vinegar	2 tsp. minced tarragon
1 tbs. sugar	2 medium-sized apples, grated
	salt and pepper

Wash cabbage and put in pan with just the water that clings to leaves. Add vinegar, sugar, butter, tarragon, salt and pepper. Bring to a boil, then stir in apples. Cook gently until apples are heated. Serves 5.

TOMATO CUP**Herbs:** Basil, chervil, shallot, tarragon

2 large tomatoes	1 tsp. tarragon
½ tsp. basil	salt and pepper
2 tsp. fresh chervil, chopped	2 tbs. mayonnaise
2 tsp. shallot	¼ cup bread cubes
	1 tsp. wine vinegar

. Remove tops of tomatoes. Scrape out pulp. Add to pulp: basil, chervil, shallot, tarragon, salt and pepper. Combine bread cubes with mayonnaise and vinegar and add to pulp mixture. Refill tomato cups with mixture. Serves 2.

CANAPES**Herbs:** Caraway, rue, sage

Mix 1 teaspoon chopped caraway leaves with ¼-pound cream cheese. Serve on crackers. Rue, sage, and other herbs may be used in the same way.

HERB BUTTERS**Herbs:** Chives, dill, parsley, rosemary

Cream one stick of butter, blending in 1½ tbs. freshly minced chives. Let stand at room temperature for 2 hours, then store in sealed jars in refrigerator until ready to serve. Almost all herbs, as well as spices, can be used in this way, with interesting variations in taste. If clear butter is desired, simply arrange layers of herbs on bottom and top of butter in storage jar, seal tightly, and remove herbs before serving.

HOREHOUND CANDY**Herb:** Horehound

6 tbs. horehound leaves and stems	1½ cups hot water
	3½ cups brown sugar

Crush herbs and place in teapot. Cover with very hot water and steep for 30 minutes. Strain. Pour this liquid over brown sugar, mix, and bring to boil. Continue boiling until liquid reaches hard crack stage (300°). Pour into buttered pan and cut into squares.

ANGELICA CANDY**Herb:** Angelica

2 cups sugar	1 tbs. lemon juice
2 cups water	1 pound angelica roots

Make syrup by boiling water and sugar for 30 minutes, adding lemon juice the last 5 minutes of cooking. Add angelica roots and let stand until mixture reaches room temperature. Reheat, boil for 30 minutes, until syrup becomes candied. Drain off syrup and place roots on wax paper to dry.

CANDIED SWEET FLAG**Herb:** Sweet flag

Select fully ripe flag roots, clean, cut into squares and boil gently in water to cover for 2½ to 3 hours. Drain. Boil for 30 minutes in equal parts of sugar and water until syrup becomes candied. Drain off syrup and place roots on wax paper to dry.

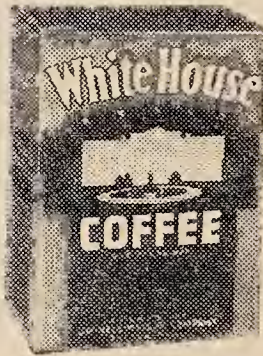
No Colonial home was without its herb garden. As we learn about herbs and follow them in the garden, we learn very soon the importance of herbs to health—not a leaf that we prize for its flavor fails to add vitamins and minerals to our diet. Herbs naturally found their way into salads and vinegars.

Continued on page 57

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NASTURTIUM SALAD

Herb: Nasturtium

Mix nasturtium leaves and stems with salad greens, or with green vegetables for a vegetable salad. The flowers make an attractive garnish and may also be eaten. Other herbs may also be used with salad greens: borage or savory, sorrel or marjoram. One or two teaspoons of one of the herbs is usually sufficient for a salad bowl.

VEGETABLE SALAD

Herbs: hyssop, lovage

Cook green vegetables, chill, mix at serving time with a teaspoon of minced herb leaves, either hyssop or lovage.

FRUITS WITH HERBS

Herbs: Rose, rose geranium

Rose petals or flower petals from the rose geranium may be added to fruit salads, fruit cups, or drinks with a fruit base. The petals may be crushed at the bottom of the dish, or used as a garnish. Before baking fruits, place a leaf under each fruit in the pan.

HERB MASSAGE LOTION

Herbs: lavender, rose geranium

Crush rose geranium leaves and petals and place in a jar, then cover with rubbing alcohol, using about $1\frac{1}{2}$ cups of rubbing alcohol for each half cup of leaves. Cover the jar tightly and allow to stand at room temperature for several weeks. The liquid should then be put through a filter and again tightly sealed until time of use. An excellent lotion for massage purposes. Lavender leaves may also be used in this way.

Both hot and cold drinks can be made more piquant by use of herbs. To soothe the nerves, tansy tea is just as effective today as it was hundreds of years ago.

HERB TEAS

Herbs: Tansy, catnip, parsley, camomile

Pour boiling water over freshly crushed herb leaves, using 2 or 3 teaspoons of herb leaves for each cup of tea. Steep only 3 to 4 minutes. Catnip, parsley, and tansy herb leaves provide a very beneficial tonic. Camomile tea is made from the flowers rather than the leaves.

HERB BEVERAGES

Herbs: Verbena, mint, woodruff, borage

Crush a leaf of verbena in the bottom of a glass of iced tea or lemonade, and use a sprig of verbena as a garnish. Mint, woodruff, borage, and other herb leaves may also be used, and are equally delicious with fruit drinks and light wines.

Herbs were early used to enhance the beauty of young ladies' complexions, and the herb-bleach recipe is a very old one. Even though you may have no desire to bleach your skin, the aroma of dill and cucumber will refresh your spirit.

**HERB FACIAL BLEACH**

Herb: Dill

An old-fashioned recipe for a fair complexion calls for peeling and slicing a cucumber, sprinkling with dill, adding a cup of buttermilk and leaving these ingredients to stand in a covered dish in a cool place for one hour. Then the mixture is patted on the skin and allowed to remain for 15 or 20 minutes. Rinse face with cool water. Repeat twice a week until desired result is achieved.

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ROERICH PACT



The year 1960 marks the twenty-fifth anniversary of the United States signing of the Roerich Peace Pact—a unique project designed to create peace through common protection of the World's Culture. The idea was conceived and proposed as far back as 1904 by Professor Nicholas Roerich.

The basis of the Pact lies in the proposition that Culture belongs to no one man, group, nation or era. The meaning of the Roerich Peace Pact is exemplified by its symbol, the Banner of Peace, consisting of three spheres, as shown above, surrounded by a circle in magenta color on a white background. Flags of this symbol have flown over artistic, educational and scientific institutions during wartime to indicate the neutrality of Culture in war in much the same manner as the Red Cross symbolizes the neutrality of the disabled. In fact, the Roerich Peace Pact has been justly named the "Red Cross of Culture."

On Pan-American Day, April 15, 1935, the United States, along with twenty Latin American countries, signed the Pact in the office of President Roosevelt. At the close of the signing President Roosevelt delivered an address on an international broadcast in which he said: "This Treaty possesses a spiritual significance far deeper than the text of the instrument itself."

LOST LIVY MANUSCRIPT

When there was that great fire in the seraglio at Constantinople about fifty years ago, a great portion of the furniture and several books were flung into the street. The secretary of the French embassy happened to be walking by and as he pushed through the crowd he saw a man examining a large opened folio volume. The secretary saw it was a manuscript of Livy, and on turning the leaves further, found that it had the sec-

ond decade as well as the first and probably have all that is lost to us. He offered the man a handsome reward if he would keep the book under his long robe and follow him with it to his lodgings. The man agreed and followed him but, the crowd and confusion increasing, they were separated and the secretary lost the opportunity of recovering so great a treasure as this would have been to the learned world. — Boston Transcript, 1842

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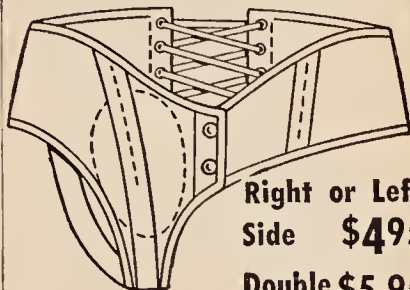
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Anecdotes and Pleasantries

Squire Brown

Squire observes, on his neighbor's removal from town to the next village, that it's likely to improve the I.Q. of both places.

Squire doesn't think much of the head selectman this year. "Got the eye of a hawk," says Squire, "and the forward look of a clam."

Snake in the Synod

"The synod met at Cambridge. Mr. Allen of Dedham preached . . . It fell out in the midst of his sermon, there came a snake into the seat, where many of the elders sat behind the preacher. It came in the door where people stood thick upon the stairs. Divers of the elders shifted from it, but Mr. Thomson (a man of much faith), trod upon the head of it, until it was killed. This being so remarkable, and nothing falling out but by divine providence, it is out of doubt, the Lord discovered something of his mind in it. The serpent is the devil, the synod, the representative of the churches of Christ in New England . . . The synod went on comfortably."

—John Winthrop's *New England*

Professor Briggs of Harvard once remarked, "A pretty good poem is like a pretty good egg."

Busy folks have the most time to give you.

Folks who get between you and the sun always look big.



The Prayer of Cyrus Brown

"The proper way for a man to pray."

Said Deacon Lemuel Keyes, "And the only proper attitude, Is down upon his knees,"

"No, I should say the way to pray,"

Said Reverend Doctor Wise, "Is standing straight, with outstretched arms,

And rapt and upturned eyes."

"Oh, no; no, no," said Elder Slow,

"Such posture is too proud: A man should pray with eyes fast closed

And head contritely bowed."

"It seems to me his hands should be

Austerely clasped in front, With both thumbs pointing toward the ground,"

Said Reverend Doctor Blunt. "Las' year I fell in Hodgkin's well

Head first," said Cyrus Brown,

"With both my heels a-stickin' up.

My head a-p'inting down; "An' I made a prayer right then

and there — Best prayer I ever said, The prayin'gest prayer I ever

prayed. A-standing on my head."

—Sam Walter Foss



The good opinion of a bartender is as valuable as a birth certificate.

The best place to make a big noise is in a quiet place.

Try It.

Words and hands are ready things

To help a brother.

Use them so. We don't need wings

To cheer each other.

The Shark and the Patriarch

During the Deluge, as a Shark was conducting a Thanksgiving service for an abundant Harvest, a prudent Patriarch looked out and addressed him thus: "My Friend, I am much struck with your open Countenance; pray come into the Ark and make one of us. The Probabilities are a falling Barometer and Heavy Rains throughout the Region of the Lower Universe during the next Forty Days." "That is just the sort of hairpin I am," replied the Shark, who had cut several rows of Wisdom Teeth: "fetch on your Deluges." About six weeks subsequently the Patriarch encountered him on the summit, of Mount Ararat, in very straitened Circumstances.

Moral.—You Can't pretty much 'most Always Tell how Things are going to Turn Out Sometimes.

—"Fables, by G. Washington Aesop"
George T. Lanigan



Shades of Falstaff

One aspect of the days of Queen Anne (early 18th century England) is reported by Addison in the *Spectator Papers*. It is the cheerful report of "honest Will Funnell, the West Saxon, who was reckoning up how much liquor had passed through him in the last twenty years of his life, which, according to computation, amounted to twenty-three hogsheads of October, four tuns of port, half a kilderkin of small beer, nineteen barrels of cider, and three glasses of champagne, besides which he had assisted at four hundred bowls of punch, not to mention sips, drams and whets without number."

Still True To-day?

A kind of antiquity has already gathered about the once and very recent "sacred cows" of old New England. These anonymous lines were evidently penned in the 1920's — just a little while ago. But, you folks of Boston — is

this all true of you to-day? It is entitled, "To Be Happy in New England."

You must select the Puritans for your ancestors.

You must have a sheltered youth and be a graduate of Harvard

You must know Emerson
You must live within two hours of Boston

You should have a professional or literary calling

You must speak low, be a conservative in politics and a liberal in religion

You must drop your "r's", be fond of the antique, eat beans on Saturday night and fish balls on Sunday morning

You must tolerate the Jew, respect the Irish and love the negro

You must wear glasses, be fond of tombstones, and, man or woman, carry your parcels in a green bag

You must be a D.A.R., a Colonial Dame, an S.A.R. or belong to the Mayflower Society

You must be neighborly to the unmarried

You must read the Atlantic Monthly

You must shudder at the West, but go to Europe frequently

In age you must live on Easy Street with a little Boston and Albany Preferred

You must make sure in advance that your obituary appears in the Boston Transcript.

There is nothing else!

New Englanders aren't really moral. They're just cautious.



Superstitious?

Never speak of good luck out loud.

Only cross your fingers behind your back or in your pocket, but be sure you cross them.

Knock on wood unseen.

Never spend your first dollar. Hide your last one.

FISH AND GAME SUMMARY

(Format copyrighted — must not be copied.)

Based on latest (mostly 1958-59) available laws courtesy of State Fish & Game Commissioners. For the most part 1960 laws not released until after press date (June, 1959) and so no attempt is made here at accuracy; in fact, only approximations of the months which may include seasons are given. This table useful only for vacation planning considerations and to satisfy curiosity as to what the various states offer in the way of hunting and fishing. Migratory Bird Regulations are available at any post office.

! EXACT DATES, LIMITS, ETC. MUST BE VERIFIED LOCALLY.

STATE	SPECIES	ANTELOPE	BEAR	DEER	MT. GOAT SHEEP	ELK	MINK	MUSKRAT	OPOSSUM	RABBIT	RACCOON	SQUIREL
Alabama			C	11-12			11-2	11-2	11-2	10-2	11-2	10-12
Alaska			9-6	8-11	8		12-1	1-5		9-4		0
Arizona	9		9-2	9-12	12	9-11		0		0	0	9-11
Arkansas			C	11-12		C	11-1	11-1	0	9-1	11-1	10-12
California	C		10-1	8-10	C	C	11-2	11-3	0	11-1	0	11-12
Colorado	9		4-10	10	9	10	11-1	11-4	0	9-2	0	
Connecticut			0	12-1			C	C	0	11-12	11-12	11
Delaware				11			12-3	12-3	11-1	11-12	11-1	9-10
Florida			11-12	11-12						0		11-1
Georgia			11-1	11			11-2	11-2	11-2	11-2	11-2	9-12
Idaho	S		0	9-12	9	9-12	11-12	11-12		10-1	0	C
Illinois				11			11-12	11-12	11-12	11-1	11-1	8-10
Indiana				X			11-1	11-1	11-1	11-1	11-1	8-10
Iowa				11-12			11-12	11-12		9-1	10-2	9-11
Kansas				C			12-1	12-1	12-1	12-10	11-1	9-12
Kentucky										11-1		8-12
Louisiana			C	11-1						10-2		10-1
Maine			0	10-11			11	11		10-3	8-12	10-11
Maryland			C	12				1-3	10-1	11-12	10-1	10
Massachusetts			10-12	12			11-1	11-1	10-12	10-2	10-12	10-11
Michigan			10-11	11		C	11-1	11-1	0	10-3	10-12	10-11
Minnesota			0	11			11	11		10-2	10-12	10-12
Mississippi			C	11-12			12-1	12-1	12-1	10-2	0	10-12
Missouri				11			12-1	12-1	11-1	6-2	11	7-11
Montana	9-11		3-5	9	9	9	6-8	6-8				
Nebraska	9			11			11-1	11-3	0	0	0	1-9
Nevada	8-9			10	12	11	11-3	11-3		10		
New Hampshire			0	11-12			11-1	11-1		10-3	10-11	10
New Jersey			C	10, 12			12-3	12-3		11-12	10-3	
New Mexico	9-10			11	2	10						
New York			10-12	10-12			10-2	12-4	0	10-2	10-2	10-12
Long Island			C	0						11-1		11-12
North Carolina			10-12	10-12	C	C	11-12	11-12	0	0	0	10-12
North Dakota	9			10-11			11	11			0	
Ohio				12			11-2	11-3	11-2	11-12	11-2	9-10
Oklahoma				S			12-1	12-1	12-1	0	12-1	5-12
Oregon	8			10	X	11						0
Pennsylvania			11	12						12		10
Rhode Island				10, 1						11-12	10-1	11-12
South Carolina				12-3			12-3	12-3	12-3	12-3	12-3	12-3
South Dakota	9		0	11-12	0	11	11-12	11-12	11-12	10-12	10-12	10-12
Tennessee				10			10-1		10-1	11-1	10-1	9-12
Texas	P		11-12	11-12			12-1	12-1	12-1	12-1	12-1	5, 12
Utah	P			10								
Vermont			6-12	11			10-2	10-4	0	10-2	10-12	10
Virginia			10-11	11-1			12-1	12-3	10-1	11-1	10-11	11-1
Washington			9-11	10-11	9	11	11-1	11-1		10-3		
West Virginia			11	11-12			11-2	11-2	11-1	11-1	11-1	10-1
Wisconsin				11					10-12	10-12	10-12	10-1
Wyoming	9		4-6	9-10	9-10	9-12	9-10					

SPECIALS IN CERTAIN STATES:

ALLIGATOR: Ga. (6-1); Fla. (6-1)
 WILD BOAR: Fla. (S), N. C. (10-12), Tenn. (10), Tex. (10)
 BUFFALO: Alaska (C), Ariz. (10), Utah (P); Tex. (O)
 CARIBOU: Alaska (S)

CHACHALACA: Texas (12-1)
 JAVELINA: Ariz. (2), Tex. (O)
 MOOSE: Alaska (9), Idaho (P), Mont. (9); Wyo. (9-10)
 BLUEGILL: Ind. (O), Mass. (X), Mich., S.D., Tenn. (O)

SYMBOLS USED PAGES 62 AND 63

Months: January is represented by the numeral "1"—February by the numeral "2," etc.

Seasons: In the columns under the various animals, birds, and fishes you will note these numerals which represent the months in which the various seasons open and close. This, "12-3" means the season opens in December and closes in March. A number standing alone means the season opens and closes within that month. Thus "12" alone means the season is within December. A number followed by a comma denotes two seasons: thus "9, 12" would mean a season in September and then another in December. "O" means no closed season; "X" not available; "S" special seasons, "C" closed, "P" Permit only.

VERIFY EXACT OPENING & CLOSING DATES IN EVERY CASE.

PARTRIDGE GROUSE	PHEASANT	QUAIL	TURKEY	STATE	SPECIES	BASS	CATFISH PERCH SUNFISH CRAPPIE	PIKE PICKEREL	SALMON	BROOK TROUT	LAKE TROUT	WHITEFISH
9-12		12, 1	12, 4	Alabama.....		0	0	0	0	0	0	0
				Alaska.....		6-		6-	6-	S	6-	
		12	10	Arizona.....		0	0			0	0	
C	C	12-1	4	Arkansas.....		0	0	0	0	0	0	
S	11	11-12	C	California.....		0	0	0	5-10	5-10	5-10	0
9	11	11	10	Colorado.....		0	0	0	5-10	5-10	5-10	5-10
10-11	10-11	C		Connecticut.....		5-10	5-10	5-10	C	5-10	5-10	4-2
	11-12	11-12		Delaware.....		0	0	0	0	4-11	0	0
		11-1	11-1	Florida.....		0	0	0	0	0	0	0
11-1		11-2	11-2	Georgia.....		0	0	0	0	0	0	0
9-10	10-11	10-11		Idaho.....		6-10	6-10	6-10	S	6-10	6-10	0
C	11	11-12		Illinois.....		0	0	5-11	0	0	0	0
11-12	S	11-12	C	Indiana.....		0	0	0	0	5-8	0	0
11	11-12	11-12		Iowa.....		5-2	0	5-2	0	0	0	0
10	11	11-12		Kansas.....		0	0	0	0	0	0	0
11-1		11-1		Kentucky.....		0	0	0	0	0	0	0
		11-12	4	Louisiana.....		0	0	0	0	0	0	0
10-11	10-11	10-11		Maine.....		6-9	4-9	4-9	4-9	4-8	4-9	4-9
11-12	11-12	11-12	10	Maryland.....		6-11	0	6-11	0	0	0	0
10-11	10-11	10-11	C	Massachusetts.....		4-2	0	4-2	4-10	4-10	4-10	4-2
10-11	10-11	C	C	Michigan.....		6-9	0	4-3	4-3	4-9	4-9	4-9
10-11	10-11	10-11		Minnesota.....		6-2	0	5-2	0	5-9	1-9	0
		12-2	4	Mississippi.....		0	0	0	0	0	0	0
	C	11-12		Missouri.....		0	0	0	0	0	0	0
C	C	C	C	Montana.....		0	0	0	0	0	0	0
10	11	11		Nebraska.....		0	0	0	0	0	0	0
10-11	10	C		Nevada.....		0	0	0	S	0	0	0
11-12	11-12	11-1	C	New Hampshire.....		6-10	5-10	5-3	4-8	4-9	1-9	1-8
10-12	10-12	10-12	10	New Jersey.....		0	0	0	4-2	4-2	4-2	0
10-12	10-12	10-12		New Mexico.....		0	0	0	0	5-11	5-11	0
10-12	10-11			New York.....		7-11	0	5-3	4-9	4-9	4-9	4-9
11	11-12	11-12		Long Island.....						4-9		
9-12	9-12		11-12	North Carolina.....		6-3	6-3	5-3	5-10	5-3	5-3	0
10	10-11			North Dakota.....		6-2	0	5-2	5-9	5-9	5-9	0
11-12	11-12	C	C	Ohio.....		0	0	0	0	0	0	0
	5	11-12		Oklahoma.....		0	0	0	0	0	0	0
10-11	10-11	10-11		Oregon.....		0	0	0	4-10	4-10	4-10	4-10
10	10	10	10	Pennsylvania.....		1-3	0	0	0	4-8	4-10	0
11-12	11-12	11-12		Rhode Island.....		4-2	0	4-2	0	4-10	4-10	0
12-3		12-3	12-3	South Carolina.....		0	0	0	0	1-9	1-9	0
9-10	10-12	0	10-11	South Dakota.....		0	5-2	5-2	X	0	X	X
11-1		11-1	4-5	Tennessee.....		0	0	0	0	3-9	3-9	0
	10-3	12-1	C	Texas.....		0	0	0	0	0	0	0
P	11	11		Utah.....		6-10	6-10			6-10	6-10	6-10
	10	C	C	Vermont.....		7-11		5-3	4-9	4-9	4-9	
11-1	11-1	11-1	11-1	Virginia.....		0	0	0	0	4-12	4-12	0
9-11	9-11	9-11		Washington.....		5-10	5-10	5-10	5-10	5-10	4-10	12-2
10-1	11-1	11-1	10-1	West Virginia.....		0	0	0	0	4-12	4-12	0
10-1	10-11	11-12	10-12	Wisconsin.....		0	0	5-2	5-9	4-9	1-9	0
				Wyoming.....		5-10	5-10	5-10	5-10	5-10	5-10	5-10

BUFFALO: Minn. (5-2), Texas (O)
 BULL FROGS: Ariz. (6-11), Ark. (6-12),
 Del. (5-12), Ida. (6-10), Ia. (5-11), Ind. (4,
 6-10), Kans. (7-9), Mo. (7-11), Neb. (7-11),
 N. Mex. (8-9), Pa. (7-10), Tenn. (6-3), W. Va.
 (6).

SHAD: Calif. (O), Ct. (4-6), Del. (3-6), Fla.
 (1-4), Ga. (O), Md. (3-9), N.H. (1-8),
 Ore. (O).
 STURGEON: Ida. (O), Mich. (O)
 TERRAPIN: Fla. (X), Pa. (11-3)

State	Max. Speed Exc. (R—rea- sonable)	Date new license plates can be used	Driving license Mini- mum age	Gasoline tax	Percent sales tax	Period of stay ¹	Safety responsi- bility law	Certifi- cate of title required
Alabama.....	60	Oct. 1	16	\$.07	1	30 days	A	no
Alaska.....	50	Dec. 15	16	.05	...	90 days	...	yes
Arizona.....	R	Dec. 1	18a	.05	2	7	A	yes
Arkansas.....	60	Jan. 1	14c	.065	3	30 days	A	yes
California.....	55	Jan. 1	16bj	.06	3	3	A	yes
Colorado.....	60	Dec. 1	16	.06	2	Reciprocal	A	yes
Connecticut...	R	Mar. 1	16ik	.06	3	6 mos.	A	no
Delaware.....	50	3 mos.*	16	.05	...	90 days	A	yes
D. C.....	25	Mar. 1	16†	.06	2	Reciprocal	A	yes
Florida.....	65	Jan. 1	16b†	.07	1	Reciprocal	A	yes
Georgia.....	60	Jan. 1	16	.065	3	30 days	A	no
Idaho.....	60	Dec. 1	16b	.06	...	Reciprocal	A	yes
Illinois.....	65	Dec. 1	16†	.05	2½	Reciprocal	A	yes
Indiana.....	65	Jan. 2	16&1 mo.	.06	...	60 days	A	yes
Iowa.....	R	Dec. 1	16b	.06	2	Reciprocal	A	yes
Kansas.....	70	Jan. 1	16b	.05	2½	3	A	yes
Kentucky.....	60	Dec. 29	16†	.07	3	Reciprocal	A	6
Louisiana.....	60	Dec. 1	15	.07	2	Reciprocal	A	yes
Maine.....	60	Dec. 25	15†	.07	3	Reciprocal	A	no
Maryland.....	50	Mar. 1	16hk	.06	2	30 days	A-D	yes
Massachusetts	40	Jan. 1	16†	.055	...	Reciprocal	C	no
Michigan.....	65	On issue	16bi	.06	3	90 days	A	yes
Minnesota.....	60	Nov. 15	15h	.05	...	Reciprocal	A	no ²
Mississippi....	60	Nov. 1	17d	.07	2	30 days	A	no ⁶
Missouri.....	65	On issue	16d	.03	2	Reciprocal	A	yes
Montana.....	65	On issue	15	.07	...	30 days	A	yes
Nebraska.....	65	Jan. 1	15½e	.07	...	Reciprocal	A	yes
Nevada.....	R	June 1	16h	.06	2	3	A	yes
New Hampshire	50	Mar. 1	16d	.06	...	Reciprocal	A-B	no
New Jersey.....	50	On issue	17	.05	...	Reciprocal	A-D	yes
New Mexico...	70	Dec. 15	15-9 mos.	.06	1	none	B	yes
New York.....	50	Jan. 1	18a	.04	...	Reciprocal	C-D	no
North Carolina	60	Jan. 1	16†	.07	1	Reciprocal	A-C	yes
North Dakota.	65	Nov. 1	16b	.06	2	Reciprocal	A-D	yes
Ohio.....	60	Mar. 1	16b†	.05	3	Reciprocal	A	yes
Oklahoma.....	65	Dec. 11	16b	.065	2	15 days	A	yes
Oregon.....	55	On issue	16b	.06	...	3	A	yes
Pennsylvania..	50	Mar. 15	18†a	.05	3	Reciprocal	A	yes
Rhode Island..	50	Mar. 1	16k	.06	3	Reciprocal	A	no
South Carolina	55	Oct. 1	14	.07	3	90 days	A	no
South Dakota	60	Jan. 1	15	.06	2	60 days	A	yes
Tennessee.....	65	Mar. 1	16b	.07	3	30 days	A	yes
Texas.....	60	Feb. 1	16bi	.05	1.1	Reciprocal	A	yes
Utah.....	60	Dec. 15	16e	.06	2	Reciprocal	A	yes
Vermont.....	50	Feb. 1	18a	.065	...	Reciprocal	A	no ⁵
Virginia.....	55	Mar. 15	15f	.06	...	60 days	A-B	yes
Washington...	60	Jan. 1	16	.065	3½	Reciprocal	A	yes
West Virginia..	55	June 1	16	.06	2	60 days	A	yes
Wisconsin.....	65	On issue	16b	.06	...	Reciprocal	A	yes
Wyoming.....	60	Dec. 1	15h	.05	2	90 days	A	yes

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

²Required for initial registration of vehicle previously registered in another State.

³Until expiration of home registration.

⁴Three months before current registration expires.

⁵Upon transfer of title, seller must file memorandum with State.

⁶Bill of sale must be filed.

⁷Visitor's permit required after 10 days.

A. Modern "security" and "Future proof" type.

D. Unsatisfied Judgment Fund.

B. Uninsured Motorist Coverage

R. Reasonable.

C. Compulsory.

*Prior to expiration of prev. regis.

(a) Jr. p'mt 16. (b) Jr. p'mt 14. (c) 14-16 need parent lic. sig. and under 18 need par. lic., sig. (d) Jr. p'mt 15. (e) 15½-16 need acc. by lic. op. and permit. (f) Exc. cert. cities. (g) Jr. p'mt 13. (h) Under 21, need par. lic. sig. (i) 16-18 applicant must have completed driver training course. (j) 15½ if applicant has completed driver training course. (k) Minor must file proof of financial responsibility.

†License issued under age 18 must be signed by parent or guardian.

No Surgery Needed to Heal Swollen Pile Tissues while you shrink them!

In doctors' tests, remarkable *Stainless Pazo*® did more than just "shrink" pile tissues. Pazo stops pain, itching in minutes! Medically-proved formula also promotes healing of inflamed tissues — all without surgery! For real comfort, get *Stainless Pazo* Suppositories or Ointment at druggists. Get immediate symptomatic relief or money back!

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A. M. Beetch, Newark, N. J., writes: "Before using Orotune Ear Drops, I was so deafened that I could not hear the clock tick. After using Orotune, I can now hear the clock tick with both ears." Thousands now hard-of-hearing would hear clearly and distinctly again, and also get relief from buzzing, ringing head noises, clogged up feeling in ears, if impacted wax that blocks ear canals and presses on sensitive ear drums were removed. Try Orotune Ear Drops as directed. They are safe and contain an ingredient especially recommended for this purpose. SEND NO MONEY. Pay postman \$2 for 3 months' supply plus postage and C.O.D. charges. If you enclose \$2 with order, we pay all postage. ZOAK, INC., Dept. 3, Sheffield, Mass.

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NEW PEP, NEW VITALITY, NEW JOY IN LIVING in just 3 days! We'll prove it AT NO COST TO YOU. Send for FREE SAMPLE of amazing, new Dr. Reeves Vitamin and Food Supplement formula that has helped thousands. No obligation. No salesman will call. Use FREE SAMPLE and in 3 days discover what it's like to feel really good again! Send name, address to Dr. Reeves Prod. Co., Dept. ON-60Z, 809 Wyandotte, Kansas City, Mo.

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Easy to use Viscose Applications may heal many old leg sores due to venous congestion of varicose veins, leg swelling or injuries. Send today for a FREE BOOK and NO-COST-FOR-TRIAL-plan. O.F. VISCOSÉ COMPANY
140 North Dearborn Street, Chicago 2, Illinois

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A delightful small inn with private beach. Glorious view of sea. 2 or 3 meals daily. Moderate rates. Churches nearby. Booklet. Late June to Labor Day. Gloucester, Mass.

LOOK

for Rupture Help

Try a Brooks Patented Air Cushion appliance. This marvelous invention for most forms of reducible rupture is GUARANTEED to bring you heavenly comfort and security, day and night, at work and at play, or it costs you NOTHING! Thousands happy. Light, neat-fitting. No hard pads or springs. For men, women, and children. Durable, cheap. Sent on trial. Not sold in stores. Beware of imitations. Write for Free Book on Rupture, no-risk trial order plan, and Proof of Results.



BROOKS, 55A State St., Marshall, Mich.

Name.....

Address.....

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Gas pain, simple nausea (upset stomach), belching, bloating, and heaviness after meals are often caused by Nervous Stomach. In that case be wise and use ALLIMIN Garlic Tablets with their four-way relief: (1) Reduces the movement and tension of the stomach, and relaxes the muscular rings that close the stomach entrance and exit; (2) Expels gas from stomach and intestines and diminishes gas pain; (3) Causes a sense of well-being and comfort in the gullet; (4) Promptly relieves any feeling of fullness or distention after meals.

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Very first use of soothing, cooling liquid D.D.D. Prescription positively relieves raw red itch—caused by eczema, rashes, scalp irritation, chafing—other itch troubles. Greaseless, stainless. 45¢ trial bottle must satisfy or money back. Don't suffer. Ask your druggist for D. D. D. PRESCRIPTION.



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WHO SAID WORDS DON'T CHANGE MEANINGS OR GET FORGOTTEN?

In 1806 you might not have minded being called a "nipper;" you would have had no cause to brag about your "penthouse;" and you could have given your girl a "casket." Now — see why in the quotations below from THE ROYAL STANDARD ENGLISH DICTIONARY.

UNUSUAL MEANINGS OF 1806 WORDS COMMON TODAY

anecdote — a piece of secret history	macaroni — a fop, a modern coxcomb
bait — to take refreshment on a journey	nipper — a keen satirist, a lamponer
casket — a small box for jewels	obnoxious — liable or subject to some punishment, exposed
doodle — a trifler, an idler, a lazy person	penthouse — a shed sloping from a wall
eavesdrop — to listen under the windows	querist — a busy asker of questions
fellow — a mean man	romp — a rude awkward girl
gossip — to be merry, to be a pot companion	stickler — one who takes part in a contest
heart — the most noble part of the body	tire — rank, row, head-dress, furniture
innocent — an idiot, natural	uxorious — very submissive to a wife
jelly — a transparent sizzly broth; a sweetmeat	volt — a certain tread of a horse
kindle — to bring forth as rabbits	wallop — to boil hard, bubble up
lights — the lungs, organs of breathing	youngly — early in life, ignorantly
	zest — orange peel cut thin

If you went out at "cockshut," would you come back with an "elf-lock?" And would some think you an "owler?" If you were called a "pickthank," a "rantipole," or an "upspring," would you be pleased or plagued? Look and see.

1806 DEFINITIONS OF 1806 WORDS

accubation — ancient posture of leaning at meals	meacock — an uxurious or effeminate man
backfrind — an enemy in secret	ninny-hammer — a simpleton, a fool
cockshut — close of the evening	owler — who carries contraband goods
dewsprent — sprinkled with dew	pickthank — an officious meddling person
elflock — hair twisted by elves	rantipole — a wild, raving, talkative person
flix — soft hair; down; fur	salamandrine — of a fiery hot temper
greensickness — a disease of maids	tiddle — to use tenderly, to fondle
haberdine — a dried salted cod	upspring — a man very suddenly exalted
irretragability — strength of argument not possible to be refuted	volder — a vessel to carry table furniture
jorden — a pot, a chamber pot	wherret — to box the ear
kicksey-wicksey — word of disdain to a wife	yux — to hiccough
leechcraft — the art of healing cattle	

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FISHERS ISLAND, NEW YORK

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How tragic when a woman feels so tired, so run-down, she *can't* be a real companion to her husband. Luckily, it's often due to "Iron-Hungry Blood" (*simple iron deficiency anemia). Then it's needless to suffer this awful weariness. Now, a wonderful iron tonic can help relieve this condition...thus renew your vitality. It's Lydia E. Pinkham's Tablets, the *only* blood enriching iron tonic that's made especially for women!

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Blood" in one day! Thus quickly help build rich, red blood...to restore strength and energy so you feel fine again fast! Pinkham's unique formula can also bring blessed relief from functionally-caused monthly cramps and "Hot Flashes" of change-of-life. No wonder so many women use Pinkham's Tablets *all through their lives!*

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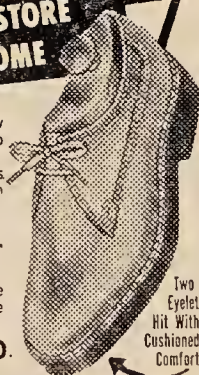
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Postal Laws

Including provisions, June 10, 1958 of the New Postal Rate & Pay Act, June 1, 1959.

First Class Matter may be forwarded from one Postoffice to another without additional postage but other matter must have new postage.

LETTERS AND POSTAL CARDS. — FIRST CLASS.

Letters and Written and Sealed Matter, 4 cents for each ounce, local and non-local except that drop letters are subject to 3 cents for each ounce when deposited for local delivery at offices not having letter-carrier service, provided they are not collected or delivered by rural or star-route carriers.

Postcards and Private Mailing Cards (not larger than 3½ by 5¼)..... .03

Government Postal Cards, each..... .03

Stamped 4 cent Envelopes No. 8—100—\$4.76, 500—\$23.80, 1000—\$47.60.

Business Reply Cards 5 cents, Business Reply 1 oz. letters six cents.

NEWSPAPERS AND PERIODICALS. — SECOND CLASS.

Entire Newspapers or Magazines containing notice of second class entry when mailed by public unsealed, 2 cents for 1st two ounces, 1 cent each added 1 oz. Fourth Class Rate applies when it is lower than Second Class.

MERCHANDISE AND MISCELLANEOUS. — THIRD CLASS.

(Limit of weight up to but not including 16 ounces)

Merchandise, incomplete copies of newspapers, printed and other mailable matter, unsealed, 3 cents for first two ounces, 1½ cents each add'l ounce—limit 16.

Identical pieces of third-class matter may be mailed under permit in bulk lots of not less than either 20 pounds or 200 pieces, at the rate of 16 cents a pound, or fraction thereof. In case of circulars, miscellaneous printed matter, and merchandise, 10 cents a pound, or fraction thereof, in the case of books or catalogs having 24 pages or more, seeds, plants, etc., with a minimum charge of 2 cents a piece in either case. Apply to postmaster for permit. The bulk mailing fee is \$20 per calendar year.

Minimum charge for pieces of odd size or form, 3½ cents.

Books, catalogs mailed in packages (must be of 24 or more pages and substantially bound, with at least 22 pages printed, seeds, cuttings, bulbs, roots, scions and plants, 2 ounces or fraction 3 cents, each added ounce 1½ cents.)

Circulars and other miscellaneous printed matter, also merchandise, 3 cents for the first 2 ounces and 1½ cent for each additional oz.

PARCEL POST. — FOURTH CLASS.

(16 oz. or over, incl. books, ptd. matter, except 1st class and second class papers mailed by publishers)

Catalogs and Similar Printed Advertising Matter, in bound form having 24 or more pages, weighing 16 ounces but not exceeding 10 pounds.

ZONES	Local	1st & 2nd	3rd	4th	5th	6th	7th	8th
1st Lb.	12c	13c	14c	15c	17c	18c	19c	20c
Each Add. ½Lb. (C)	0.75	1.5	2	2.5	3.25	4	5	6

Exception: 1st or 2nd zone, where shortest regular mail route is 300 miles or more, third zone rate applies.

Books: 9 cents for the first pound or fraction thereof and 5 cents for each additional pound or fraction thereof—24 or more pages permanently bound, not to exceed 70 pounds in weight. Also includes music, recordings, author's mss. Also incl. when marked "Educational Materials": ptd. music, bound theses, library materials, 16 mm. films and catalogs (Exc. to commercial theatres), objective test material, phonograph recordings and mss. for books, periodical articles and music.

Library Books: 4 cents for the first pound or fraction thereof and 1 cent for each additional pound or fraction thereof—limit of weight 70 pounds—when sent by public libraries, organizations, or associations not organized for profit.

Weight Limits: 70 lbs. and 100 inches combined length and girth—except between 1st Class postoffices (Postmaster has list) where limits are: In zones 1 and 2, 40 lbs. with 72 inch combined length and girth, other zones 20 lbs. and 72 inch combined length and girth. Parcels over 84 but under 100 inches combined length and girth charged as 10 pounds.

Weight in Pounds	LOCAL	1-2		3		4		5		6		7		8	
		Up to 150 miles	150 to 300 miles	300 to 600 miles	600 to 1000 miles	1000 to 1400 miles	1400 to 1800 miles	1800 to 2100 miles	2100 to 2400 miles	2400 to 2700 miles	2700 to 3000 miles	3000 to 3300 miles	3300 to 3600 miles	3600 to 3900 miles	3900 to 4200 miles
1	\$0.18	\$0.23	\$0.23	\$0.24	\$0.26	\$0.28	\$0.30	\$0.32	\$0.34	\$0.36	\$0.38	\$0.40	\$0.42	\$0.44	\$0.46
2	.20	.27	.29	.31	.36	.40	.46	.51	.56	.61	.66	.71	.76	.81	.86
3	.21	.31	.34	.38	.45	.52	.61	.69	.77	.85	.93	1.01	1.09	1.17	1.25
4	.23	.35	.39	.45	.54	.64	.76	.87	.97	1.08	1.19	1.30	1.41	1.52	1.63
5	.24	.39	.44	.52	.63	.76	.91	1.05	1.20	1.35	1.50	1.65	1.80	1.95	2.10
6	.26	.43	.49	.59	.73	.88	1.06	1.23	1.41	1.59	1.77	1.95	2.13	2.31	2.49
7	.27	.47	.54	.66	.83	1.00	1.22	1.41	1.60	1.79	1.98	2.17	2.36	2.55	2.74
8	.29	.51	.60	.73	.91	1.12	1.37	1.59	1.84	2.09	2.34	2.59	2.84	3.09	3.34
9	.30	.55	.65	.80	1.00	1.24	1.52	1.77	2.06	2.35	2.64	2.93	3.22	3.51	3.80
10	.32	.59	.70	.87	1.10	1.36	1.67	1.95	2.26	2.57	2.88	3.19	3.50	3.81	4.12
11	.33	.63	.75	.93	1.19	1.48	1.82	2.13	2.47	2.81	3.15	3.49	3.83	4.17	4.51
12	.34	.67	.80	1.00	1.28	1.60	1.98	2.31	2.70	3.09	3.48	3.87	4.26	4.65	5.04
13	.36	.71	.85	1.07	1.37	1.72	2.13	2.49	2.90	3.31	3.72	4.13	4.54	4.95	5.36
14	.37	.75	.90	1.14	1.47	1.84	2.28	2.67	3.10	3.53	3.96	4.39	4.82	5.25	5.68
15	.39	.79	.96	1.21	1.56	1.96	2.43	2.85	3.34	3.83	4.32	4.81	5.30	5.79	6.28
16	.40	.83	1.01	1.28	1.65	2.08	2.58	3.03	3.54	4.05	4.56	5.07	5.58	6.09	6.60
17	.42	.87	1.06	1.35	1.74	2.20	2.74	3.21	3.74	4.27	4.80	5.33	5.86	6.39	6.92
18	.43	.91	1.11	1.42	1.84	2.32	2.89	3.39	3.94	4.49	5.04	5.59	6.14	6.69	7.24
19	.45	.95	1.16	1.49	1.93	2.44	3.04	3.57	4.14	4.71	5.28	5.85	6.42	6.99	7.56
20	.46	.99	1.21	1.56	2.02	2.56	3.19	3.75	4.34	4.93	5.52	6.11	6.70	7.29	7.88

(Continued on Page 70)

POSTAL RATES (Continued from page 69)

SPECIAL CLASSES. — DOMESTIC MAIL.

Special Delivery: First Class Mail: Each piece under 2 lbs.—30c; over 2 up to 10—45c; over 10 lbs.—60c. Same for air, incl. air p.p.

Parcel Post: Up to 2 lbs.—45c; over 2 up to 10—55c; over 10 lbs.—70c.

Special Handling: Parcel Post only: Up to 2 lbs.—25c; over 2 lbs. up to 10—35c; over 10 lbs.—50c.
(This service expedites mail but does not include special delivery.)

Registered Mail: Up to \$10.00 indemnity—50c; over \$10.00 up to \$100.00—75c; over \$100.00 up to \$200.00—\$1.00; over \$200.00 up to \$400.00—\$1.25; over \$800.00 up to \$1000.00—\$2.00. There are special surcharges when declared values exceed indemnities—see local Postmaster about these.

Insured Mail: Third and Fourth Class Only: Indemnity up to \$10.00—10c; over \$10.00 up to \$50.00—20c; over \$50.00 up to \$100.00—30c; over \$100.00 up to \$200.00—40c.

C. O. D.: Indemnities up to \$5.00, Registered 80c; Not reg. 30c; over \$5.00 up to \$10.00—Registered 80c, Non Reg. 40c; over \$10.00 up to \$25.00—Reg. \$1.10, Non Reg. 60c; over \$25.00 up to \$50.00—Reg. \$1.10, Non Reg. 70c; over \$50.00 up to \$100.00—Reg. \$1.20, Non Reg. 80c. (These rates may have changed—query Postmaster.)

Money Orders: Limit for each is One Hundred Dollars. If amount of money order is from 1c to \$5.00 the fee is 15c; from \$5.01 to \$10.00 the fee is 20c; from \$10.01 to \$100.00 the fee is 30c.

Certified Mail: First class only having no value; add 20c to postage plus (a) 10c for ret. receipt showing to whom and when del'd; (b) 35c for whom, when, and address where del'd. Inquiry fee 25c. Obtain blank coupons from Postmaster.

AIR MAIL: On United States Continent

Letters: Seven cents per ounce. Postals five cents each.

Air Mail Parcel Post (Correspondence may be included in package). Weight limits and sizes same as Surface Mail.

Weight	ZONES					
	1, 2, 3	4	5	6	7	8
8 oz. up to 1 pound	\$0.60	\$0.65	\$0.70	\$0.75	\$0.75	\$0.80
Each added pound	.48	.50	.56	.64	.72	.80

POSTAL RATES: International

Letters: Surface rate: To Canada and Mexico 4c per ounce or fraction; to all other countries 8c for the first ounce and 5c each additional ounce or fraction.

Postcards: Surface rate: To Canada and Mexico, 3c each; 6c with reply paid. To all other countries 5c each, 10c with reply paid. Maximum size 6x4 1/4 inches, minimum size 4x2 3/4 inches.

Printed Matter:—4 cents for first two ounces or fraction thereof, 3c each additional 2 oz.

Eight-ounce Merchandise Packages.—Packages of merchandise weighing 8 ounces or less, for the countries named in the table below, 4c for each 2 oz. Do not seal. Mark—"May be Opened for Inspection."

Canada, Chile, Colombia, Cuba, Guatemala, Haiti, Panama, Paraguay, Peru.

Small Packets.—Four cents for each 2 ounces, and 2c for each additional 2 oz. with a minimum charge of 20 cents per packet. Limit of weight: 2 pounds, 3 ounces. Dimensions: Same as for letters. (Inquire at main office or classified stations for list of countries which accept small packets and mailing instructions.)

Parcel Post.—Basic rate 45c first pound, 22c each additional pound. For detailed information consult your local Postmaster.

Registration, Insurance, Return Receipts.—For detailed information concerning these services, consult your local Postmaster.

AIR MAIL: U.S. (Outside Continent) and International

AIR MAIL: U.S. (Outside Continent) and International

(Air letter sheets, 10c each to all countries.)

(Air mail post cards (single), 10c each to all countries except Canada and Mexico, 5c, and St. Pierre and Miquelon, 8c.)

Letters and Letter Packages

A. 7 cents: (Per ounce) Canada, Mexico; APO and FPO addresses and U.S. possessions.

B. 10 cents: Central and South America, West Indies, and Bermuda .10—1/2 oz.

C. 15 cents: Great Britain, Europe and other Islands in waters around it, U.S.S.R.,

Vatican City, Algeria, Egypt, Iceland, Libya, Morocco, Tunis, Turkey .15—1/2 oz.

E. 25 cents: All other localities .25—1/2 oz.

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

OTHER INTERNATIONAL AIR SERVICE

Because of the varying rates and conditions, as well as frequent changes, applicable to other countries, it is important that a qualified postal employee handle parcel post transactions. Weight limits vary from 11 to 44 lbs.

1. Commercial Papers, Printed Matter, etc., Samples (Unsealed)

From U. S. to:	First 2 oz.	Ea. Add'l 2 oz.
England	\$0.41	\$0.20
France	.42	.21
Belgium	.42	.21
Italy	.45	.24
Sweden	.45	.24
Egypt	.52	.31

2. Parcel Post

First 4 oz.	Ea. Add'l 4 oz.
\$1.00	\$0.41
1.22	.44
.98	.43
1.08	.50
.85	.49
1.35	.64

Continued from page 9

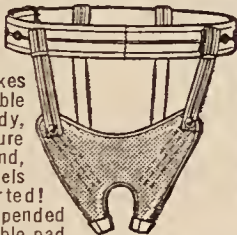
tivity influences the entire atmosphere above 60 kilometres. There are two means by which the 11-year periodicity is transmitted from the sun to earth: partly by ultra-violet and X-rays, partly by corpuscular-radiations. Both are emitted with great intensity from the solar atmosphere's regions, which are disturbed by sunspots. Yet both being absorbed in great heights of our atmosphere, only these upper layers are affected by the 11-year periodicity. The earth's surface is reached but by the light and heat rays, the intensity of which remains constant and is not subject to the 11-year cycle. As weather, climate, and growth are taking place in the lowest layer of the earth's atmosphere (up to a height of about 12,000 metres) and this layer is only affected by the light and heat rays, which are constant with time, the meteorological as well as biological phenomena of the earth's immediate atmosphere are not influenced by the sunspots. Nevertheless, one often hears and reads opinions of scientists, and others, to the contrary.

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A strong form fitting washable support. Snaps in front. Completely washable and sanitary. Unexcelled for comfort, invisible under light clothing. Action-free; you can bend, work or play in it. Don't suffer any longer. Get easy to wear Pi-Peer BACK-EASER today. 10-day trial offer. Money back guarantee. Just give hip measurement. We pay postage except on C.O.D.'s.

PIPER BRACE COMPANY

811 Wyandotte, Dept. ON-60B Kansas City 5, Mo.



EVER "HEARD" THE AURORA?

"A fisherman was walking one night on the sands at Porth-Towan, when all was still save the monotonous fall of the light waves upon the sand. He distinctly heard a voice from the sea exclaiming: 'The hour is come, but not the man.' This was repeated three times, when a black figure, like that of a man, appeared on the top of the hill. It paused for a moment, then rushed impetuously down the steep incline, over the sands, and was lost in the sea. In different forms this story is told all around the Cornish coast."

Spirits of the vasty deep, indeed.

Yet, on the still New Hampshire winter night when what I was hearing in the light of an Aurora sounded like a noise in a sea shell, or even a silk flag rippling and snapping in a breeze, I remembered this quote from Robert Hunt's *Romances and Drolls of the West of England*. And, wondered if one really can hear, with a little luck and normal hearing, the Aurora?

Anyone who has seen an Aurora will know how easy it would be to imagine hearing it too. The cosmic curtains do ripple out and the streamers of the canopy seem shot out from huge cannon. Once in London I saw a German plane in a rival spectacle in the night sky caught up by searchlights and shot down. If I had an active imagination I could suggest that the Aurora, too, was guarding against visitors from inner space. To date, however, my imagination has not leapt that far.

Now I have never seen a flying saucer, or heard a rainbow. The howl of the banshee, the wail of the wendigo, the ululation of the long-garon have never, to the best of my knowledge and belief, impinged on my ear-drums or stirred my organs of Corti with their mad music.

Furthermore, I do not know the song the sirens sang to beguile Ulysses. And no one, so help me Hannah, has ever asked me, nor involved me in the Fifth Amendment, on the problem of the horns of Elfhand faintly blowing. Their tootle has been too fey, too far and too wee for me. Nor, come to think of it, have I heard a humanly-inaudible dog-whistle.

But I have heard the Aurora Borealis.

I was somewhat surprised to have my bluff called on this by some of my physicist friends. Most of them, like myself, had seen up to a dozen Northern Lights in New Hampshire, Vermont or Massachusetts. In their experience as in mine (with the one exception) the Auroras, however brilliant, were seen but not heard.

More or less in self defense I began a search of some of the literature dealing with these Auroras. Results were discouraging at first. I looked through a number of books by Arctic explorers, usually big, fat genial blubbery books. My only reward was several remarks about the stillness, the absolute silence under the Aurora.

And then I ran across this, in the letters column of the February 1903 Century Magazine. It followed an illustrated article on the silent but brilliant sky-spanning Northern Lights in Greenland:

"The writer (at Point Barrow, Alaska) was out watching a number of Eskimos playing football. Suddenly they stopped their play and began to whistle. On being asked why they were whistling, they pointed to a small bright spot near the southeastern horizon, and

said they were calling the Aurora. In a few moments from this spot in the southeast shot out a ray of bright, rosy light, and then began the most marvelous display of lights conceivable. At times the whole sky was covered with brilliant lines and eccentric figures; then they would gradually draw back to the starting point in the southeast, only to flash out again with a rolling, waving motion, and with a beauty beyond description. All during the height of this exhibition could be heard a dull, roaring, rushing sound, as if a great wind were blowing high overhead, and at times there were crackling noises, as if thousands of electric sparks were snapping near at hand . . ."

Alaska is centered on the 600-mile-wide aurora belt, 1200 miles south of the magnetic pole. Here, rather than to the north, the Aurora is most active and for the most nights. Here, magnetic forces, in a thousand-mile high Niagara, are and thunder in the rarefied atmosphere to form the Aurora. Its height ranges between twenty and 200 miles. For here curves the globe girdling Van Allen belt — even as it does again in the southern hemisphere, though mostly over an empty ocean. Most of us New England tenderfeet — or as they call us in Alaska, "cheechakos" — live far enough north to see it, too.

All in all, half a dozen references to audible Auroras turned up, including a mention in the Norwegian scientist Carl Störmer's classic text on the subject (a sound "like burning grass, and spray").

In conclusion, a Canadian newspaper a while back made a survey on audible Auroras. It found enough evidence — both in number of incidents, and in the pattern of reports — to make a good case for them.

And yet, "Who's to prove that these alleged noises might not also be heard on nights when there is no Aurora?" That is indeed one that I can't prove, so I'll leave it to someone else. By the way, did you ever hear the onrush of an approaching snowstorm? It sounds remarkably like someone with a long red flannel nightgown and nightcap getting into a featherbed and hitching the crazy quilt up over his pointed ears. Or does it?

—Malcolm M. Ferguson

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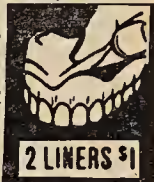
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TIME OFF TO VOTE

With a Presidential election falling on the 8th of November, 1960, the following table issued by the U. S. Department of Labor, 1958, will be of interest. Twenty-nine states have enacted laws to allow employees time off to vote. By the time this appears, perhaps more will have done so. The only states *not* allowing CIVILIAN ABSENTEE BALLOTS BY MAIL are Alabama, Louisiana, Mississippi, New Mexico, Pennsylvania, and South Carolina.

State	Allowed Hours Off	Pay Deduction Permitted	Maximum Employer Penalty	Prior Application Required	Employer Specifies Time
Alabama.....	2	Yes	None	No	Yes
Alaska.....	2*	No	\$50	No	No
Arizona.....	2	No	\$300 and/or 6 mos.	Yes	Yes
Arkansas	Nec.	—	\$250	No	No
California.....	Nec.*	Over 2 hrs.	\$1,000 and/or 5 yrs.	Two days	Yes
Colorado	2	No**	\$1,000 and/or 1 yr.	Yes	Yes
Hawaii.....	2*	No	\$300	No	No
Illinois.....	2	—	\$300	Yes	Yes
Indiana.....	4	—	\$500 and/or 1 year and disenfranchisement	No	No
Iowa.....	3*	No	\$100	Yes	Yes
Kansas.....	2	No	\$100	Yes	Yes
Kentucky.....	4	—	\$500	Yes	Yes
Maryland.....	Nec.	—	\$500 and/or 6 mos.	No	No
Massachusetts.	2	—	\$100	Yes	No
Minnesota	A.M.	No	\$100 and/or 3 mos.	No	No
Missouri.....	3*	No	\$500	Yes	Yes
Nebraska.....	2	No	—	Yes	Yes
Nevada.....	1-3*	No	\$500 and/or 6 mos.	Yes	Yes
New Mexico...	2	—	\$100	No	Yes
New York.....	2	No	\$500 and/or 1 year	Yes	Yes
Ohio.....	Nec.	—	\$500	No	No
Oklahoma.....	2	—	\$500 and/or 6 mos.	No	Yes
S. Dakota.....	2*	No	\$500 and/or 1 year	No	Yes
Tennessee.....	Nec. to 3*	No	\$1,000 and/or 1 year	Yes	Yes
Texas.....	—	No	\$500	No	Yes
Utah.....	2	No**	\$1,000 and/or 6 mos.	Yes	Yes
W. Virginia....	3	No	\$1,000 and/or 60 days	Yes	No
Wisconsin.....	3	Yes	\$250 or 1 year	Yes	Yes
Wyoming.....	1	—	\$1,000 or 1 yr.	No	Yes

* Unless polls adequately open outside working hours.

** Except employee paid by hour.

OLD-FASHIONED PUZZLES

For Answers see page 91

Charades

I

In certain realms men have to bring

My first to earth before their king:

In others they are only bound
To make my second touch the ground.

My whole's a curious little mau—
One of the most amusing clan.

2

Though someone spoke this truthful word,
"The pen is mightier than the sword,"

Without my first, you'll all agree,
Of little use the pen would be.

Deep in my second, long ago,
Young Mr. Green was said to throw

A victim innocent of wrong,
The hero of a well-known song.
What products of what mighty brains!

What wondrous books my whole contains!

What reams of prose and verse!
Yet all

Tinged with the bitterness of gall!

3

Eagerly I my first the pack
So that we might pursue the game;

I made a good deal, but the lack
Of interest made the sport seem tame.

My second ladies richly gowned
May see in patterns of their silk,

My second also may be found
In terrapin and buttermilk.

My whole will fly right merrily
O'er many a cold and chilly mile:

'T is only one, yet verily
'T would equally describe a file.

—At *The Sign of the Sphinx*
by Wells

Problems

1. Thirteen children dance in a ring holding hands. How many rings may they form without a child ever taking another child by the hand twice?

2. A farmer has a square field containing ten acres, and his neighbor has a rectangular field half as wide containing nine acres. How many more rods of fence would it take to fence in the nine-acre field than the ten-acre one?

3. A twenty-foot ladder, the bottom of which rests fifteen feet out from the wall of a building, just reaches the eaves which

project three feet out from the wall. If the bottom of the ladder is moved one foot further out, how far away from where it was at first will the top of the ladder then rest?

Difficult Transpositions

In each of the following examples, a word is to be chosen to fill the single blank, and then the letters of this word are to be re-arranged so as to fill the remaining blanks, and complete the sense. Each dash represents a word.

- By brighter deeds were this man's honor gained
Than _____
his _____ obtained.
- The wrong is _____;
with your ball,
You struck the _____
_____, but meant the wall.
- You think it _____ to be severe
With scholars of that age;
but _____;
For harshness surely will but make them fear.
- _____ indeed,
believe the statement true.
When it is _____ out so well by you.

Word Syncopations

In each of the following examples, remove one word from another and leave a complete word:

- Take the person speaking from rude in looks and leave sacred.
- Take a mineral from friendly, and leave capable, skillful.
- Take a vessel from relating to daytime, and leave a face.
- Take a cave from zealous, and leave the practical using of skill.
- Take everyone from a dance, and leave a wager.
- Take a tree from a blazing beacon, and leave a part of the human frame.

Easy Metagram

Whole, I am a personage in one of Shakespeare's plays. Curtail me, and I become an ancient city of Europe, transpose, and I become greater, but then take me from one thousand, and if you had all the remainder, you would be worth countless millions. Curtail me, and a conjunction remains; curtail again, and there is nothing left.

—St. Nicholas

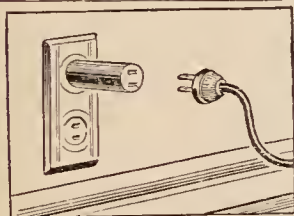
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BIRD MIGRATION TABLE

Courtesy: Massachusetts Audubon Society

About 75 birds are listed here.—chosen as those most familiar to a person with an average interest in birds. These 75 have been placed in groups—Birds Present All Year, Spring Arrivals (the majority of these are also summer residents), and Fall Arrivals (for winter residents).

The spring dates given are for Massachusetts and apply generally to the rest of New England (except the extreme northern part) and also to central New York State. For the New York City area and New Jersey, the dates would be approximately a week to ten days earlier in the spring; and for Pennsylvania about two weeks earlier. The fall dates would, of course, be that much later, and there would be additional species to the south, particularly for winter and all-year residents.

BIRDS PRESENT ALL YEAR

Black Duck	Crow
Red-shouldered Hawk	Black-capped Chickadee
Sparrow Hawk	White-breasted Nuthatch
Ruffed Grouse	Cedar Waxwing (Usually more numerous in spring and fall)
Ring-necked Pheasant	Starling
Mourning Dove	House Sparrow
Screech Owl	Purple Finch (Usually more numerous in winter)
Great Horned Owl	Goldfinch (Usually more numerous in winter)
Hairy Woodpecker	
Downy Woodpecker	
Blue Jay	

SPRING ARRIVAL DATES

MARCH

First Week	Third Week
Canada Goose	Great Blue Heron
Second Week	Robin
Pied-billed Grebe	Bluebird
Wood Duck	Cowbird
Killdeer	Fox Sparrow
Woodcock	Fourth Week
Red-winged Blackbird	Phoebe
Grackle	Tree Swallow
Song Sparrow	

APRIL

First Week	Fourth Week
Osprey	Barn Swallow
Second Week	Brown Thrasher
Kingfisher	Black-and-white Warbler
Flicker	Myrtle Warbler
Chipping Sparrow	Towhee
Field Sparrow	White-throated Sparrow
Third Week	
Green Heron	

MAY

First Week	Redstart
Spotted Sandpiper	Baltimore Oriole
Whip-poor-will	Scarlet Tanager
Chimney Swift	Rose-breasted Grosbeak
Kingbird	Second Week
Least Flycatcher	Ruby-throated Hummingbird
House Wren	Crested Flycatcher
Catbird	Red-eyed Vireo
Wood Thrush	Bobolink
Yellow Warbler	Third Week
Chestnut-sided Warbler	Nighthawk
Ovenbird	Wood Pewee
Yellowthroat	Indigo Bunting

FALL ARRIVAL DATES

SEPTEMBER	OCTOBER
Red-breasted Nuthatch	Golden-crowned Kinglet
Brown Creeper	Redpoll
Slate-colored Junco	Pine Siskin
White-throated Sparrow	Tree Sparrow
	Fox Sparrow

NOVEMBER

Evening Grosbeak

WEATHER TABLE,

For foretelling the Weather through all the lunations of each year, forever.

This table, and the accompanying remarks, are the result of many years' actual observation, the whole being constructed on a due consideration of the attraction of the sun and moon, in their several positions respecting the earth, and will, by simple inspection, show the observer what kind of weather will most probably follow the entrance of the moon into any of its quarters, and that so near the truth as to be seldom or never found to fail.

This weather table will answer very well for anywhere in the United States. It is taken from the 1849 issue of The Old Farmer's Almanac and was widely used before the advent of the Weather Bureau.

The weather forecast as given on page 11 and on the right hand pages of the Farm Calendars, 15 through 37 are strictly for Boston and East of the Hudson River. These forecasts contain elements which rise in the proximity of this region to the sea and to the paths of tropical storms. The application of these forecasts to middle western, western, and southern regions will not bring any reasonable degree of accuracy. However, for a rough rule of thumb if you insist on using the forecast on pages 11, 15-37, you may subtract one day for each time zone West of the Hudson to compensate for the Easterly path of continental storms. For every hundred miles north or south of 42 degrees latitude, add a five degree temperature (colder if north, warmer if south) differential and for every 1000 feet above sea level consider your locality as five degrees cooler than the weather as given.

WEATHER TABLE FOR ANYWHERE

Moon	Time of Change	In Summer	In Winter
If the new moon, 1st quarter, full moon, or last quarter happens.	From Midnight to 2 A.M.	Fair	Hard frost, unless wind be S. or W.
	From 2 A.M. to 4 A.M.	Cold, with frequent showers	Snow and stormy
	From 4 A.M. to 6 A.M.	Rain	Rain
	From 6 A.M. to 8 A.M.	Wind and Rain	Stormy
	From 8 A.M. to 10 A.M.	Changeable	Cold Rain if wind be W.; Snow if E.
	From 10 A.M. to Noon	Frequent Showers	Cold & high wind.
	From Noon to 2 P.M.	Very rainy	Snow or rain.
	From 2 P.M. to 4 P.M.	Changeable	Fair & mild.
	From 4 P.M. to 6 P.M.	Fair	Fair.
	From 6 P.M. to 8 P.M.	Fair — if wind N.W. Rain — if S. or S.W.	Fair & frosty if wind N. or N.E.: Rain or snow if wind S. or S.W.
	From 8 P.M. to 10 P.M.	Same as from 6 P.M. to 8 P.M.	
	From 10 P.M. to Midnight	Fair	Fair & frosty.

Observations. — 1. The nearer the moon's changes, first quarter, full, and last quarter are to *midnight*, the fairer will it be during the next seven days.

2. The space for this calculation occupies from ten at night till two next morning.

3. The nearer to *midday*, or *noon*, the phases of the moon happen, the more foul or wet weather may be expected during the next seven days.

4. The space for this calculation occupies from ten in the forenoon to two in the afternoon. These observations refer principally to the summer, though they affect spring and autumn nearly in the same ratio.

5. The moon's change, first quarter, full and last quarter, happening during six of the afternoon hours, i.e., from four to ten, may be followed by fair weather; but this is mostly dependent on the *wind*, as is noted in the table.

6. Though the weather, from a variety of irregular causes, is more uncertain in the latter part of autumn, the whole of winter, and the beginning of spring, yet, in the main, the above observations will apply to those periods also.

7. To prognosticate correctly, especially in those cases where the *wind* is concerned, the observer should be within sight of a good *vane*, where the four cardinal points of the heavens are correctly placed.

The above table was originally formed by D. Herschell, and is now published with some alterations founded on the experience of Dr. Adam Clarke.

TO THE WEATHER-WISE

Dr. Foster, of Bruges, who is well known as a meteorologist, declares that, by journals of the weather kept by his grandfather, father, and himself, ever since 1767, to the present time, *whenever the new moon has fallen on a Saturday, the following twenty days have been wet and windy, in nineteen cases out of twenty.*

USE THIS ALMANAC ANYWHERE IN THE U.S.A.

The times given on the left hand calendar pages (14 to 36) are calculated (every astronomer must have some starting place) exactly for the latitude (42 deg. 22 min. north) and longitude of Boston and in EASTERN STANDARD TIME which is the time of the 75th meridian West of Greenwich, England.

To overcome the difficulties of presenting one almanac which shall be useful not only for the spot where the astronomer is standing but also for other places, it has been customary to present three or four extra latitude columns — which at best give but a small measure of the desired accuracy. The Old Farmer's Almanac adopted a unique, copyrighted system of its own some years ago whereby the times as given may be corrected for wherever you happen to live by the use of the Almanac Data tables on pages 84 and 85.

Opposite the times given on the left hand calendar pages (14-36) for each day in the year for the Rising and Setting of the Sun, Moon and Planets you will find a capitalised letter of the alphabet. Turning to pages 84 and 85 you will find columns for each of these letters as well as a number of cities listed. If you live in one of those cities, simply read off the minus or plus number of minutes in the column under the alphabetical letter and correct the times given on pages 14-36.

If your city is not listed, choose two cities within the same time zone as your locality which lie on either side of your town. Interpolate between the corrections figures given for each key letter for each of these cities respectively and enter the result for your town below. The net figures resulting from this modification will be those to use in correcting the Almanac figures for Boston to get the standard times for your town.

For example, to find the corrections for Peoria, Ill., one finds that Peoria lies about halfway between Indianapolis and Des Moines. Thus the correction for the key letter "A" at Peoria would lie about halfway between those given in the table for Indianapolis and Des Moines (+12 and +34 respectively) and would be about +23. Or, by way of a second illustration, Concord, N. H., lies about one-eighth of the way from Portland, Me., to Pittsburgh, Pa., and the correction for the key letter "O" would lie about one-eighth of the way from the correction for Portland (+2) to that for Pittsburgh (+29) and would be +5.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	☾
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
YOUR TOWN																		
Lat.																		
Lo.																		

HOW TIMES ARE CONVERTED FOR YOUR TOWN

Sunrise and Sunset The times of sunrise and sunset at Boston on April 10 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 pages 84-5 whereby the times of sunrise and sunset at Boston are converted into those for other key cities, to wit:—

	BOSTON			PITTSBURGH, PA.		
Sunrise	5.11	A.M.E.S.T.		Sunrise (Boston)	5.11	A.M.E.S.T.
Key Letter		G		Correction (Column G, page 85)	+38	
				Sunrise (Pittsburgh)	5.49	A.M.E.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 84)	+33	
				Sunset (Pittsburgh)	6.54	P.M.E.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 10 sun time in Boston will be 14 minutes Fast of Eastern Standard Time. The time indicated by a sundial located elsewhere than in Boston is converted to clock time by applying two corrections, the "Sun Fast" correction for Boston and that for the locality given in Column I of the table on page 84 or 85.

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		PITTSBURGH, PA.	
Length of day (From calendar page 20, April 10.)	13h 10m		Sunset (Pittsburgh)	6.54 P.M.
			Sunrise (Pittsburgh)	5.49 A.M.
			Length of Day	13h 5m

Moonrise and Moonset. The procedure for finding the times of moonrise and moonset follows that for finding those of sunrise and sunset except that the constant additional correction taken from Column **D** on pages 84, 85 must be applied.

BOSTON		PITTSBURGH	
Moonrise	4.54 A.M., E.S.T.	Moonrise (Boston)	4.54 A.M.
Key Letter	G	Correction (Column G, page 84)	+ :38
April 25		Correction (Column D , page 84)	+ :01
Page 20			
Moonset	6.28 P.M., E.S.T.	Moonrise (Pittsburgh)	5.33 A.M., E.S.T.
Key Letter	K	Moonset (Pittsburgh)	7.02 P.M., E.S.T.

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

Moon Souths. It will be noted that this year this Almanac has omitted the usual "Moon Souths" column in favor of including full continuous columns (pages 14-36) on both "Moonrise" and "Moonset". The "Moon Souths" column seemed to serve but little purpose except that of an astrological nature; to wit, at what time the moon is in the astrological sign indicated in the next to last column pages 14-36. On the other hand, the extra moonrise and moonset information would seem to be in some demand—especially among fishermen.

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 6. The procedure for converting these times to those of other localities follows that for converting the times of sunrise and sunset given on page 82.

Dawn and Dark. The approximate times dawn will break and dark descend are found by applying the length of twilight taken from the table below 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.)		April 10	PITTSBURGH, PA. (Latitude 40° 26' N.)	
Sunrise	5.11 A.M.		Sunrise (see pg 82)	5.49 A.M.
Subtraet length of twilight (Column 3 of table)	1.39		Subtraet length of twilight (Column 3 of table)	1.39
Dawn breaks	3.32 A.M., E.S.T.		Dawn breaks	4.10 A.M., E.S.T.
Sunset	6.21 P.M.		Sunset (see pg 82)	6.54 P.M.
Add length of twilight	1.39		Add length of twilight	1.39
Dark descends	8.00 P.M., E.S.T.		Dark descends	8.33 P.M., E.S.T.

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

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

(See explanation on preceding page 82. Column keyletters refer to pages 6, 7, 14-37.)

City	Latitude	Longitude	Time used	Your town (interpolate between nearest two in your time zone) SUBTRACT OR ADD these minutes to Almanac times given (pages 12-34).												Q				
				A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
Amarillo, Texas...	35 12 27	101 50 04	CST	+ 88	+ 85	+ 82	+ 78	+ 74	+ 70	+ 66	+ 63	+ 59	+ 55	+ 51	+ 48	+ 44	+ 40	+ 37	+ 33	+ 30
Atlanta, Ga.....	33 45 10	84 23 37	EST	+ 87	+ 84	+ 80	+ 75	+ 71	+ 66	+ 62	+ 57	+ 53	+ 48	+ 44	+ 39	+ 35	+ 31	+ 27	+ 23	+ 19
Augusta, Ga.....	33 28 20	81 58 00	EST	+ 79	+ 75	+ 71	+ 66	+ 62	+ 57	+ 52	+ 48	+ 43	+ 39	+ 34	+ 29	+ 25	+ 20	+ 16	+ 12	+ 8
Baltimore, Md....	39 17 26	76 36 45	EST	+ 36	+ 34	+ 32	+ 29	+ 27	+ 25	+ 24	+ 22	+ 20	+ 19	+ 17	+ 15	+ 13	+ 12	+ 10	+ 8	+ 1
Beaumont, Tex....	30 05 20	94 06 09	CST	+ 78	+ 73	+ 68	+ 62	+ 65	+ 49	+ 43	+ 37	+ 31	+ 25	+ 19	+ 13	+ 7	+ 1	- 4	- 10	- 15
Birmingham, Ala..	33 21 01	86 48 36	CST	+ 38	+ 34	+ 30	+ 25	+ 21	+ 16	+ 11	+ 7	+ 2	- 2	- 7	- 11	- 16	- 20	- 24	- 28	- 33
Canton, Ohio.....	40 47 50	81 22 37	EST	+ 48	+ 47	+ 46	+ 45	+ 44	+ 44	+ 43	+ 42	+ 41	+ 40	+ 39	+ 39	+ 38	+ 37	+ 36	+ 35	+ 34
Charleston, S. C....	32 46 35	79 55 53	EST	+ 73	+ 69	+ 64	+ 60	+ 54	+ 49	+ 44	+ 40	+ 35	+ 30	+ 25	+ 20	+ 15	+ 11	+ 6	+ 2	- 3
Charleston, W. Va..	38 21 01	81 37 52	EST	+ 59	+ 57	+ 55	+ 53	+ 51	+ 48	+ 46	+ 44	+ 42	+ 40	+ 37	+ 35	+ 33	+ 31	+ 29	+ 27	+ 25
Chicago, Ill.....	41 52 28	87 38 22	CST	+ 9	+ 8	+ 8	+ 8	+ 7	+ 7	+ 7	+ 7	+ 6	+ 6	+ 6	+ 5	+ 5	+ 5	+ 5	+ 4	+ 4
Cincinnati, Ohio...	39 06 07	84 30 35	EST	+ 68	+ 66	+ 65	+ 63	+ 61	+ 59	+ 57	+ 55	+ 54	+ 52	+ 50	+ 48	+ 46	+ 45	+ 43	+ 41	+ 39
Columbia, S. C....	34 00 02	81 02 00	EST	+ 73	+ 70	+ 66	+ 61	+ 57	+ 52	+ 48	+ 44	+ 39	+ 35	+ 31	+ 26	+ 22	+ 18	+ 14	+ 10	+ 6
Columbus, Ga.....	32 28 07	84 59 24	EST	+ 94	+ 90	+ 85	+ 80	+ 75	+ 70	+ 65	+ 60	+ 55	+ 50	+ 45	+ 40	+ 35	+ 30	+ 26	+ 21	+ 17
Columbus, Ohio...	39 57 47	83 00 17	EST	+ 58	+ 57	+ 56	+ 54	+ 53	+ 52	+ 50	+ 49	+ 47	+ 46	+ 45	+ 43	+ 42	+ 41	+ 39	+ 38	+ 37
Corpus Christi, ?x	27 47 51	97 23 45	CST	+ 103	+ 98	+ 91	+ 83	+ 75	+ 68	+ 60	+ 52	+ 45	+ 37	+ 29	+ 21	+ 14	+ 6	0	- 7	- 14
Dallas-ft. Worth..	32 47 09	96 47 37	CST	+ 81	+ 78	+ 73	+ 68	+ 63	+ 58	+ 53	+ 48	+ 43	+ 38	+ 33	+ 28	+ 23	+ 19	+ 14	+ 10	+ 5
Denver, Colo.....	39 44 58	104 59 22	MST	+ 27	+ 26	+ 23	+ 23	+ 21	+ 20	+ 18	+ 17	+ 16	+ 14	+ 13	+ 11	+ 10	+ 8	+ 7	+ 6	+ 4
Des Moines, Iowa..	41 35 14	93 37 00	CST	+ 34	+ 34	+ 33	+ 33	+ 32	+ 31	+ 31	+ 30	+ 30	+ 30	+ 29	+ 29	+ 28	+ 28	+ 27	+ 27	+ 26
Detroit, Michigan.	42 19 48	83 02 57	EST	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48
*Durham, N. C.....	36 00 00	78 54 45	EST	+ 58	+ 56	+ 52	+ 48	+ 45	+ 41	+ 38	+ 34	+ 31	+ 28	+ 24	+ 21	+ 17	+ 14	+ 11	+ 8	+ 5
Evansville, Ind....	37 58 20	87 34 21	CST	+ 23	+ 20	+ 20	+ 18	+ 15	+ 13	+ 11	+ 8	+ 6	+ 3	+ 3	+ 1	+ 4	+ 6	+ 8	+ 11	+ 13
Galveston, Tex....	29 18 10	94 47 43	CST	+ 84	+ 79	+ 73	+ 67	+ 61	+ 54	+ 48	+ 41	+ 35	+ 29	+ 23	+ 16	+ 10	+ 4	- 1	- 7	- 13
*Hamilton, Ohio...	39 24 00	84 33 00	EST	+ 66	+ 65	+ 63	+ 61	+ 60	+ 58	+ 56	+ 55	+ 53	+ 52	+ 50	+ 48	+ 47	+ 45	+ 44	+ 42	+ 40
Hartford, Ct.....	41 46 12	72 40 49	EST	+ 10	+ 9	+ 9	+ 8	+ 8	+ 8	+ 8	+ 7	+ 7	+ 7	+ 6	+ 5	+ 5	+ 4	+ 4	+ 4	+ 4
Indianapolis, Ind..	39 46 07	86 09 46	CST	+ 12	+ 11	+ 9	+ 8	+ 8	+ 6	+ 5	+ 3	+ 2	0	- 1	- 3	- 4	- 6	- 7	- 8	- 10
Jackson, Miss....	32 17 56	90 11 06	CST	+ 55	+ 51	+ 47	+ 42	+ 36	+ 31	+ 26	+ 21	+ 16	+ 11	+ 6	0	- 5	- 9	- 14	- 18	- 23
Jacksonville, Fla...	30 19 44	81 39 42	EST	+ 87	+ 83	+ 77	+ 71	+ 65	+ 59	+ 53	+ 47	+ 42	+ 36	+ 30	+ 24	+ 18	+ 12	+ 7	+ 2	- 4



Little Rock, Ark....	34	44	42	92	16	37	CST	+55	+52	+48	+44	+40	+36	+32	+28	+24	+21	+17	+13	+9	+5	+1	-2	-6	+3
Los Angeles, Cal....	34	03	15	118	14	28	PST	+41	+38	+34	+30	+25	+21	+17	+12	+8	+4	-1	-5	-9	-13	-17	-21	-25	+7
Macon, Georgia....	32	50	12	83	73	36	EST	+88	+84	+79	+74	+69	+64	+60	+55	+50	+45	+40	+35	+30	+26	+21	+17	+12	+2
Madison, Wis.....	43	04	23	89	22	55	CST	+10	+11	+11	+12	+12	+12	+13	+13	+14	+14	+15	+15	+15	+16	+16	+17	+17	+3
Memphis, Tenn....	35	08	46	90	03	10	CST	+45	+42	+38	+34	+31	+27	+23	+19	+15	+12	+8	+4	0	-2	-7	-10	-14	+3
Miami, Fla.....	25	46	37	80	11	32	EST	+1	+95	+90	+83	+75	+67	+59	+51	+44	+36	+28	+20	+13	+5	-2	-9	-16	+1
Mobile, Ala.....	30	41	36	88	02	33	CST	+52	+48	+42	+36	+31	+25	+19	+13	+7	+2	-4	-10	-16	-21	-26	-31	-37	+2
Montgomery, Ala..	32	22	33	86	18	31	CST	+40	+36	+31	+26	+21	+16	+11	+5	0	0	-5	-10	-15	-20	-25	-30	-38	+2
Nashville, Tenn....	36	09	33	86	46	55	CST	+29	+26	+23	+19	+16	+12	+9	+6	+3	-1	-4	-7	-11	-14	-17	-20	-23	+2
New Haven, Ct....	41	18	25	72	55	30	EST	+9	+9	+9	+8	+8	+7	+7	+7	+6	+6	+6	+5	+5	+4	+4	+4	+3	0
New Orleans, La....	29	56	53	90	04	10	CST	+63	+58	+52	+46	+40	+34	+28	+21	+15	+9	+3	-3	-9	-15	-20	-26	-31	+3
New York, N. Y....	40	45	06	73	59	39	EST	+18	+17	+16	+15	+14	+13	+13	+12	+11	+10	+9	+8	+8	+7	+6	+5	+4	+0
Norfolk, Va.....	36	51	10	76	17	21	EST	+44	+42	+39	+36	+33	+30	+27	+24	+21	+18	+15	+12	+9	+7	+4	+1	+1	+1
Oklahoma City....	35	28	26	97	31	04	CST	+74	+71	+67	+64	+60	+56	+53	+49	+45	+42	+38	+34	+31	+27	+24	+21	+17	+4
*Ottawa, Ontario..	45	31	+	76	43	-	EST	+3	+5	+7	+9	+11	+13	+15	+17	+19	+21	+23	+24	+26	+28	+30	+32	+34	+1
Philadelphia, Pa....	39	56	58	75	09	21	EST	+27	+26	+25	+23	+22	+20	+19	+19	+16	+15	+13	+12	+11	+9	+7	+5	+1	+1
Phoenix, Arizona..	33	27	12	112	04	28	MST	+79	+75	+71	+67	+62	+57	+53	+48	+44	+39	+34	+30	+25	+21	+17	+13	+8	+6
Pittsburg, Pa.....	40	26	19	80	00	00	EST	+44	+43	+42	+41	+40	+39	+38	+37	+36	+35	+33	+32	+31	+30	+29	+28	+27	+1
Portland, Maine....	43	39	33	70	15	19	EST	-9	-9	-8	-7	-6	-5	-4	-4	-3	-2	-1	-1	0	1	2	3	0	0
Pueblo, Colo.....	38	16	17	104	36	33	MST	+32	+30	+28	+25	+23	+21	+18	+16	+14	+12	+10	+7	+5	+3	+1	-1	-3	+5
Richmond, Va.....	37	32	15	77	26	09	EST	+47	+44	+41	+38	+36	+33	+30	+28	+25	+22	+20	+17	+15	+12	+10	+7	+5	+1
Sacramento, Cal....	38	34	57	121	29	41	PST	+38	+36	+34	+32	+30	+28	+26	+24	+22	+20	+17	+15	+13	+11	+9	+7	+5	+1
St. Louis, Mo.....	38	37	45	99	12	22	CST	+33	+32	+30	+28	+25	+23	+21	+19	+17	+15	+13	+11	+9	+7	+5	+3	+1	+3
Salt Lake City, Utah	40	45	23	111	53	26	MST	+50	+50	+49	+48	+47	+46	+45	+44	+43	+42	+41	+40	+40	+39	+38	+37	+36	+4
San Antonio, Tex....	29	25	37	98	29	06	CST	+95	+90	+85	+78	+72	+66	+60	+54	+48	+41	+35	+29	+23	+17	+12	+6	+1	+4
San Diego, Cal....	32	42	53	117	09	21	PST	+19	+42	+38	+33	+29	+24	+19	+14	+9	-4	-6	-11	-16	-20	-24	-29	-33	+6
San Francisco, Cal.	37	46	39	122	24	40	PST	+44	+42	+40	+38	+35	+33	+30	+28	+25	+23	+20	+18	+15	+13	+11	+8	+6	+7
San Jose, Cal.....	37	20	16	121	53	24	PST	+45	+42	+40	+37	+34	+31	+28	+26	+23	+21	+19	+16	+14	+12	+10	+8	+6	+7
Savannah, Ga.....	32	04	42	81	05	37	EST	+80	+76	+71	+66	+60	+55	+50	+45	+40	+34	+29	+24	+19	+14	+9	+5	0	+1
Seattle, Wash.....	47	36	32	122	20	12	PST	-2	+1	+4	+8	+12	+15	+19	+22	+26	+29	+32	+36	+39	+43	+47	+50	+53	+7
Springfield, Ohio..	39	55	38	83	48	29	EST	+63	+62	+60	+59	+57	+56	+55	+53	+52	+50	+49	+47	+46	+45	+43	+42	+40	+2
Spokane, Wash....	47	39	32	117	25	33	PST	+22	-19	-16	-12	-8	-4	-1	+3	+6	+9	+13	+16	+20	+23	+26	+30	+34	+6
Stockton, Cal.....	37	57	30	121	17	16	PST	+44	+42	+39	+37	+34	+32	+29	+27	+25	+22	+20	+17	+15	+13	+10	+8	+6	+7
Tacoma, Wash.....	47	14	59	122	26	15	PST	+1	+3	+6	+10	+13	+17	+20	+23	+26	+29	+32	+35	+39	+42	+45	+48	+52	+7
Tampa, Fla.....	27	56	58	82	27	25	EST	+99	+94	+87	+80	+73	+66	+59	+52	+45	+38	+31	+24	+17	+11	+5	-1	-8	+2
Washington, D.C....	38	53	51	77	00	33	EST	+39	+37	+36	+34	+32	+30	+28	+26	+24	+22	+20	+18	+16	+14	+12	+10	+8	+1
Wilmington, Del....	39	44	46	75	32	51	EST	+29	+28	+27	+25	+24	+22	+21	+19	+18	+16	+15	+14	+12	+11	+9	+8	+6	+1
*Winnipeg, Man....	49	51	-	96	-	-	CST	+2	+7	+13	+19	+25	+30	+35	+40	+45	+50	+55	+60	+66	+71	+76	+82	+89	+4

* Scaled from maps.

TIDE CORRECTIONS

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

	Time Differ- ence h.m.	Height Differ- ence Ft.		Time Differ- ence h.m.	Height Differ- ence Ft.
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					

Example: The figures for Full Sea in Columns 11 and 12 of the left hand Almanac pages 14-36 are the times of high tide at Commonwealth Pier in Boston Harbor. The heights of these tides are given on the right hand pages 15-37. The heights are reckoned from Mean Low Water: each day has a set of figures—upper for the morning—and lower for the evening. The conversion of the times of the tides at Boston to those of Miami is given by way of illustration.

Example: Apr. 18. See page 20, column 10, for time; page 21 for height.

BOSTON		MIAMI	
High Tide (from page 20)	4.45 P.M.E.S.T.	High tide (Boston)	4.45 P.M.
	April 18	Correction above	-3.00
Height (from page 21)	9.2 feet	High tide (Miami)	1.45 P.M.E.S.T.
		Height (Miami)	2.76 feet
		(9.2 x 0.3)	

SPIDERS AND THE WEATHER

Quatremer Disjonval, a Frenchman, by birth, was adjutant-general in Holland, and took an active part on the side of the Dutch patriots, when they revolted against the Stadholder.—On the arrival of the Prussian army under the Duke of Brunswick, he was immediately taken, tried, and having been condemned to twenty-five years' imprisonment, was incarcerated in a dungeon at Utrecht, where he remained eight years.

Spiders, which are the constant, and frequently the sole companions of the unhappy inmates of such places, were almost the only living objects which Disjonval saw in the prison of Utrecht.—Partly to beguile the tedious monotony of his life, and partly from a taste which he had imbibed for natural history, he began to seek employment, and eventually found amusement in watching the habits and movements of his tiny fellow-prisoners.—He soon remarked that certain actions of the spiders were immediately connected with approaching changes in the weather. A violent pain on one side of his head to which he was subject at such times, had first drawn his attention to the connexion between such changes, and corresponding movements among the spiders. For instance, he remarked that those spiders which spun a large web in a wheel-form, invariably withdrew from his cell when he had his bad headache; and that these two signs, namely, the pain in his head and the disappearance of the spiders, were invariably followed by very severe weather. So often as his headaches attacked him, so regularly did the spiders disappear, and then rain and north-east winds prevailed for several days. As the spiders began to show themselves again in their webs, and display their usual activity, so did his pains gradually leave him until he got well, and the fine weather returned.

Further observations confirmed him in believing these spiders to be in the highest degree sensitive of approaching changes in the atmosphere, and that their retirement and reappearance, their weaving, and general habits were so intimately connected with changes in the weather,—that he concluded they were of all things best fitted to give accurate intimation when severe weather might be expected. In short, Disjonval pursued these inquiries and observations with so much industry and intelligence, that by remarking the habits of his spiders, he was at length enabled to prognosticate the approach of severe weather, from ten to fourteen days before it set in, which is proved by the following fact, which led to his release.

When the troops of the French republic overran Holland in the winter of 1794, and kept pushing forward over the ice, a sudden and unexpected thaw in the early part of December threatened the destruction of the whole army unless it was instantly withdrawn. The French generals were flinching seriously of accepting a sum offered by the Dutch, and withdrawing their troops, when Disjonval, who hoped that the success of the republican army might lead to his release, used every exertion and at length succeeded in getting a letter conveyed to the French general, in January, 1795, in which he pledged himself, from the peculiar actions of the spiders, of whose movements he was now enabled to judge with perfect accuracy, that within fourteen days there would commence a most severe frost, which would make the French masters of all the rivers, and afford them sufficient time to complete and make sure of the conquest they had commenced before it should be followed by a thaw.

The commander of the French forces believed his prognostication and persevered. The cold weather, which Disjonval had announced, made its appearance in twelve days, and with such intensity that the ice over the rivers and canals became capable of bearing the heaviest artillery. On the 28th of January, 1795, the French army entered Utrecht in triumph; and Quatremer Disjonval, who had watched the habits of his spiders with so much intelligence and success, was, as a reward for his ingenuity, released from prison.

Taken from The Waverly Magazine & Literary Repository

Tables of Measures

Apothecaries

1 scruple=20 grains
 1 dram=3 scruples
 1 ounce=8 drams
 1 pound=12 ounces

Avoirdupois

1 pound=16 ounces
 1 hundredweight=100 pounds
 1 ton=20 hundredweight=
 2000 pounds
 1 long ton=2240 pounds

Cubic Measure

1 cubic foot=1728 cubic inches
 1 cubic yard=27 cu. feet
 1 register ton (shipping measure)
 =100 cubic feet
 1 U. S. shipping ton=40 cu. ft.
 1 cord=128 cubic feet
 1 U. S. liquid gallon=4 quarts
 =231 cubic inches
 1 imperial gal.=1.20 U. S. gals.
 =0.16 cubic feet
 1 board foot=144 cubic inches

Dry Measure

2 pints=1 quart (qt.)
 4 quarts=1 gallon (gal.)
 2 gallons or
 8 quarts } =1 peck
 4 pecks=1 struck bushel

Household Measures

120 drops water=1 teaspoon
 60 drops thick fluid=1 teaspoon
 2 teaspoons=1 dessertspoon
 3 teaspoons=1 tablespoon
 16 tablespoons=1 cup
 1 cup= $\frac{1}{2}$ pt.
 1 cup water= $\frac{1}{2}$ lb.
 4 tablespoons flour=1 oz.
 2 tablespoons butter=1 oz.
 3 teaspoons soda= $\frac{1}{2}$ oz.
 4 teaspoons baking powder=
 $\frac{1}{2}$ oz.
 2 cups granulated sugar=1 lb.
 2 $\frac{1}{2}$ cups confectioners' sugar=
 1 lb.
 2 $\frac{1}{2}$ cups wheat flour=1 lb.
 3 $\frac{1}{2}$ cups whole wheat flour=
 1 lb.
 2 $\frac{1}{2}$ cups buckwheat flour=1 lb.
 5 $\frac{1}{2}$ cups coffee=1 lb.
 6 $\frac{1}{2}$ cups tea=1 lb.
 2 cups lard=1 lb.
 2 cups butter=1 lb.
 2 cups corn meal=1 lb.
 2 cups powdered sugar=1 lb.
 2 cups brown sugar=1 lb.
 2 cups raisins=1 lb.
 2 cups currants=1 lb.
 9 eggs=1 lb.

Linear Measure

1 foot=12 inches
 1 yard=3 feet
 1 rod=5 $\frac{1}{2}$ yards=16 $\frac{1}{2}$ feet
 1 mile=320 rods=1760 yards=
 5280 feet
 1 U. S. nautical mile=6076.1033
 feet
 1 knot=1 nautical mile per hour
 1 furlong= $\frac{1}{8}$ mile=660 feet=
 220 yards
 1 league=3 miles=24 furlongs
 1 fathom=2 yards=6 feet
 1 chain=100 links=22 yards
 1 link=7.92 inches
 1 hand=4 inches
 1 span=9 inches

Liquid Measure

4 gills=1 pint (O.)
 2 pints=1 quart (qt.)
 4 quarts=1 gallon (gal.)
 63 gallons=1 hogshead (hhd.)
 2 hogsheads=1 pipe or butt
 2 pipes=1 tun

Square Measure

1 square foot=144 square inches
 1 sq. yard=9 sq. feet
 1 sq. rod=30 $\frac{1}{4}$ sq. yards=
 272 $\frac{1}{4}$ sq. feet
 1 acre=160 sq. rods=43560 sq. ft.
 1 sq. mile=640 acres=
 102400 sq. rods
 1 sq. rod=625 square links
 1 sq. chain=16 square rods
 1 acre=10 square chains

Troy

(Used in weighing gold, silver,
 jewels)
 1 pennyweight=24 grains
 1 ounce=20 pennyweight
 1 pound=12 ounces

Metric

1 inch=2.54 centimeters
 1 meter=39.37 inches
 1 yard=0.914 meters
 1 mile=1609 meters=
 1.61 kilometers
 1 sq. inch=6.45 sq. cm.
 1 sq. yard=0.84 sq. m.
 1 sq. mile=2.59 sq. km.
 1 acre=0.40 hektars
 1 cu. yard=0.76 cubic meters
 1 cu. meter=1.31 cubic yards
 1 liter=1.06 U. S. liquid quarts
 1 hektoliter=100 liters=
 26.42 U. S. liquid gallons
 1 U. S. liquid quart=0.94 liters
 1 U. S. liquid gallon=3.76 liters
 1 metric ton=1000 kilograms
 1 kilogram=2.20 pounds
 1 pound avoirdupois=
 .45 kilograms

GESTATION AND REPRODUCTION TABLE

	Proper age for first mating	Period of power of reproduction in years	No. of females for one male	Period of gestation and incubation		
				Shortest days	Mean days	Longest days
Mare.....	3 yrs.	10 to 12		325	336	352
Stallion.....	4 "	12 to 15	20 to 30			
Cow.....	18-24 mos.	10 to 14		235	282	300
Bull.....	12-18 "	10 to 12	30 to 40			
Ewe.....	18 "	6		145	147	152
Ram.....	12-14 "	7	35 to 45			
Sow.....	9 "	6		110	114	120
Boar.....	9 "	6	8 to 12			
She Goat.....	18 "	6		147	151	155
He Goat.....	18 "	5	20 to 30			
Ass.....	3 yrs.	10 to 12		356	367	378
Jack.....	4 "	12 to 15	20 to 30			
She Buffalo.....	18-24 mos.	8		309	315	325
Bitch.....	16-18 "	8		58	63	67
Dog.....	12-16 "	8				
She Cat.....	12 mos.	6		58	60	64
He Cat.....	12 "	10	6 to 8			
Doe Rabbit.....	6 "	5 to 6		25	30	35
Buck Rabbit.....	6 "	5 to 6	30			
Cock.....	6 "	5 to 6	12 to 18			
Hen.....		5 to 6		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 or Duck's Eggs.....				22	30	34
Robin's Eggs...				13	16	19

REPRODUCTIVE CYCLE IN FARM ANIMALS

Courtesy F. N. Andrews — Purdue University

	Reoccurs if not Bred (Days)	Estrual Cycle incl. Heat Period (Days)		In Heat for		Usual Time of Ovulation
		Ave.	Range	Ave.	Range	
Mare	16	21	10-37	5-6 days	1-37 days	24-48 hours before end of estrus
Sow	19	21	18-24	2-3 days	1-5 days	Usually second day of estrus
Ewe	15	16	14-20	30 hours	20-42 hours	1 hour before end of estrus
Goat	19	20	12-25	36-48 hours	20-80 hours	Near end of estrus
Cow	20	19-20	16-24	16-20 hours	8-30 hours	14 hours after end of estrus
Bitch	180	24		21-28 days		
Cat	120			3-12 days		

CLASSIFIED

OLD MONEY WANTED

WANTED—1822—\$5.00 Gold pay \$10,000.00. 1913 Liberty Head Nickel \$4,000.00. 1894-S Dime \$2,000.00. 1876-C. C.—20¢ Piece \$2,000.00. 1901-S—Quarter \$75.00 — \$600.00. 1922 — 50¢ — \$5.00 — \$75.00. 1928 Hawaiian 50¢—\$95.00. 1885 Trade Dollar \$1,500.00. Uncirculated Dollars 1804 to 1839, 1893-S, 1895-P, 1903-0—\$100.00—\$5,000.00. Certain Dates — Lincoln Cents—\$125.00; Flying Eagle Cents—\$500.00; Indian Cents—\$175.00; Halfcents—\$900.00; 2¢ Pieces—\$125.00; 3¢ Pieces—\$150.00; Halfdimes—\$1,500.00; Dimes before 1943—\$500.00; Quarters before 1924—\$1,500.00; Half Dollars before 1905—\$3,000.00. Hundreds of others worth \$10.00—\$1,000.00. Canadian Coins, 1921—5¢ Silver—\$100.00. 1889—Dimes—\$100.00. 1875 Quarters—\$100.00. 1921—50¢ — \$750.00. **Wanted**—Large Cents, Gold Coins, Paper Money, etc. Know their true value. Purchase Our Large Illustrated Guarantee Buying-Selling Catalogue giving complete allcoin information before sending coins to sell, price \$1.00. Catalogue dollar refunded, \$20.00 sale. Thousands of persons have sold us coins. Incorporated 1938. Worthycoll Corporation (K-250-C), Boston 8, Massachusetts.

OF INTEREST TO WOMEN

\$200 MONTHLY POSSIBLE, Sewing Babywear—Play-Time Dresses; lacing Leather Moccasins; new Baby Sandals. No house selling! Send name for free information! Cuties, Warsaw 152, Indiana.

MAKE \$25 to \$35 weekly addressing envelopes. Our instructions reveal how. GLENWAY, Box 6568, Cleveland 1, Ohio.

\$3.00 HOURLY POSSIBLE, assembling pump lamps at home. No experience or tools needed. Selling not required. Free information. Send name to Ougor Lamps, Trilby 12, Florida.

\$2.00 HOURLY POSSIBLE, sewing our ready cut aprons at home. Spare or full time. Experience Unnecessary. Free details. Write: A. & B. Company, Caldwell 1, Ark.

MAKE MONEY weaving rugs at home for neighbors on \$79.50 Union Loom. Thousands doing it. Booklet free. Union Loom Works, Dept. 16, Boonville, N.Y.

\$500 FOR YOUR PHOTO—children, teenagers, women. Big demand—advertisers, photo-model studios. Send photo for free report, offer. Returned. Studio, 5032AVM Lankershim, North Hollywood, California.

STAMPS

ALL FREE! (1) Scarce genuine Centennial postage stamp picturing first U.S.A. (Issued 113 years ago!). (2) Big collection 25 all-different U.S.: ancient 19th century, valuable \$1 stamp, etc. (3) Spectacular collection beautiful commemoratives. (4) **EXTRA!** Big Bargain Catalog of all U.S. postage issues; Collector's Guide; other stamp offers for free consideration. Send 10c for mailing. H. E. Harris & Co., Dept. C-694, Boston 17, Mass.

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START YOUR OWN business on credit (U.S. and Canada). Your own boss. 1383 Dealers sold \$5,000 to \$33,500 in 1958. We supply stocks, equipment on credit. 200 home necessities. Sales experience unnecessary. Pleasant profitable business backed by world-wide industry. Write **RAWLEIGH'S**, Dept. 1960-U-OFA, Freeport, Illinois.

CASH FROM SAWDUST, Tin-Cans, Newspapers. Over 200 methods. Instructions \$1.00. Charles Company, 42-TPM, Norwood, Ohio.

TEAR OUT THIS AD, and mail with name, address for big box of home needs and cosmetics for Free Trial, to test in your home. Tell your friends, make money. Rush name, Blair, Dept. 347DA, Lynchburg, Virginia.

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MISCELLANEOUS

JOBS IN FOREIGN countries for men and women. Also jobs on steamships and yachts traveling foreign countries. Free job reports. Davenport Foreign Service, GPO 1354-BH, New York 1, New York.

WRITE SONGPOEMS for profit or hobby. We set music to your poems, make phonograph records. Send poems. Free examination. Crown Music Co., 49-EC West 32 Street, New York 1, New York.

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1960 EDITION. IT'S NEW! It's different! Get world's largest auto accessories and parts catalog, save up to 50%. 388 pages, over 100,000 items for 1920 to 1960 models including Hollywood accessories, custom styling and Hi-Speed Equipment. All parts and accessories for all cars and trucks. We have that hard to get part. Jam packed with bargains. Completely illustrated. Send 25c (refundable). J. C. Whitney, 1919EE-1, Archer, Chicago 16, Illinois.

ANSWERS TO OLD-FASHIONED PUZZLES

(Page 77)

Charades.—1. Brownie. 2. Ink-well. 3. Cutter.

Problems.—1. Six rings. 2. Twenty-four rods. 3. Five feet

Difficult Transpositions. 1. Any crest, ancestry. 2. Palliated, dial plate. 3. Requisite, it is queer. 4. One dares, reasoned.

Word Syncopations. 1. Ho-mely. 2. A-mica-ble. 3. Di-urn-al. 4. Ar-den-t. 5. B-all-et. 6. Bon-fire.

Easy Metagram. — Romeo, Rome, more, ore, or, o.

Cypher Contest Winners

Winners of the Contest announced Page 96 1959 OFA are:

First Prize — \$25.00 — Howard Wilson, Danal, Fla. Pg. 66 "To VIP's and other greats, serve . . . etc"

Second — \$15.00 — Mrs. Norris Cool, Fleming, Col. "That's the best barbe'cue when your hungry crowd congregates."

Third — \$5.00 — Mrs. Jos. P. Millnamow, Beaver Valley, Stroudsburg, Pa. "Chi-net's a whizzler, not a drizzler, as food never penetrates".

For this year, the money goes (1st, \$25.00 — 2nd, \$15.00 — 3rd, \$5.00) for the best one line rhymer to the solution of Cypher 38, 6-7. Contest closes July 1, 1960. No entries returned . . . all become property of Yankee, Inc. Case of the place money lumped and divided. Staff of YANKEE, final judge. Winners announced 1961 OFA, Address Cypher Contest, Yankee, Inc., Dublin, N. H.

DOES GETTING UP NIGHTS MAKE YOU FEEL OLD

Thanks to new laboratory formulation, thousands are now discovering how much stronger and better they can feel by combating ordinary Kidney or Bladder Irritations. These irritations often occur after 35, and may make you tense and nervous from too frequent, burning or itching urination both day and night. Secondly, you may lose sleep and suffer from Headaches, Backache and feel old, tired, depressed. In such irritation, CYSTEX usually brings fast, relaxing comfort by curbing irritating germs in strong, acid urine and by giving analgesic pain relief. Safe for young or old. Get CYSTEX at druggists. Feel better fast.

SPEND WHAT YOU INTEND



TALLY YOUR SUPERMARKET spending as you shop with the Clicker Quik-Chek. Unique device helps you keep a running account of your purchases, verify the accuracy of the check-out clerk. Only one hand needed — \$2.00 to operate its buttons. Postpaid—**\$2.00** THE LIGHTHOUSE INC., Dept. OF Plymouth, MASS.

What's Life Worth

if you're in terror of

ASTHMA

ATTACKS

Joy of living may be yours again — If you can get relief from bronchial asthma spasms. In 3 short years, thousands of victims have found quick, effective relief, in ASKEF. Because ASKEF contains 3 active medicinal ingredients doctors prescribe, it

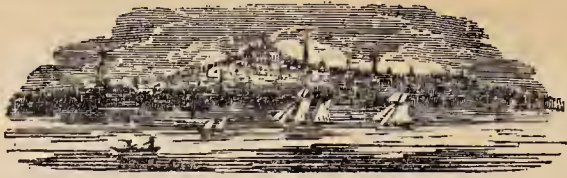
1. Relaxes the spasm in a jiffy.
2. Lets you breathe free and easy.
3. Brings up the tight phlegm.
4. Relieves the coughing spell.

Don't suffer, gasp, choke, needlessly — when you can TRY ASKEF at our risk. Send NO money. Simply write "I'll try ASKEF" on a post card. When postman delivers, pay him only \$3.00, plus postage, for full-size bottle. Unless you get wonderful palliative relief, just write for your money back. If you enclose \$3.00 — we pay postage — same money-back guarantee. Don't live in terror! Write today:

ASKEF CO., Dept. DC-4, 21 W. 45 St., New York, N. Y.



TEETH STAY TIGHT for months with amazing new soft pink liner. Eases sore gums giving you lasting comfort — eat anything. Ends daily bother with stickums you swallow. Easy to use — pure — harmless — gentle — brushable — clean — removable. Fills out shrunken mouth making you look and feel younger. Holds dentures tighter longer or your money back. Save money and time — send only 98c for big sheet or ask for information. ©PLASTICUSHION® 85 (OF-60) Elyria, Ohio.



OLD BOSTON

AS ENGRAVED BY ABEL BOWEN, THE ORIGINAL ENGRAVER OF THIS ALMANAC(K), IN SNOW'S "A GEOGRAPHY OF BOSTON," 1830.

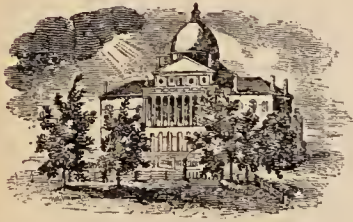
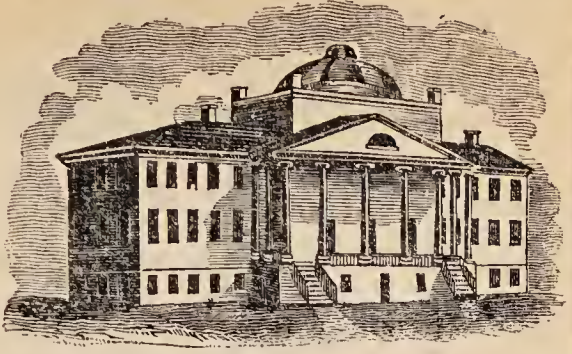
Boston, originally called "Trimountain" had three large hills; Copp's, Fort, and Beacon. On the last, there were three peaks—Mount Vernon, Beacon, and Pemberton. In 1960, many know "Beacon Hill" but not the other five.



Tremont Street (short for Trimountain.) The Tremont Theatre, left, and Tremont House, right, are no longer standing.



The Massachusetts General Hospital on Cambridge Street — "finest building in the Commonwealth." The institution is "tops" today.



The State House, Lat. N. 42 d. 20 m. 58 s. Long. W. 71 d. 4 m. 9 s. 1st. occupied Jan. 11, 1798.



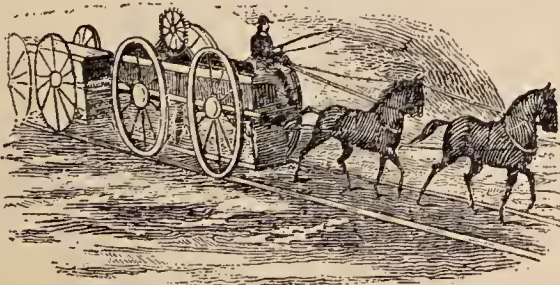
John Hancock's stone mansion house, west of the State House, is no longer there.



Faneuil Hall, Mar. 14, 1763 ... the "Cradle of Liberty" still.



Benjamin Franklin, born 1706 in this house opposite the "Old South" on Milk Street. It's gone.



The Quincy Railway, 1826, first in America, carried heavy stone — "one horse can perform the labors of four or six."

How I turned \$1,000 into a Million

-- starting in my spare time

AN AMAZING STORY THAT MAY CHANGE YOUR LIFE



by William Nickerson

PERHAPS the hardest thing about making a million dollars — or even \$200,000 — is the act of believing it to be possible. This may be the stumbling block which will keep you

from seizing upon the extraordinary opportunity presented here.

Out of every thousand people who read this page, perhaps only 10 will be able to overcome their ingrained skepticism enough to send away for more information. And out of those ten, perhaps only one or two will exploit this opportunity to the hilt. But those fortunate few may enjoy the kind of financial success that millions dream of but only a few achieve.

You can pyramid personal savings of \$2,500 (\$50 a month, plus interest, for 4 years) into an estate worth \$219,972 in 14 years . . . \$1,187,195 in 20 years.

Your chances for success are better than 400 to 1 — in fact, 1600 times better than if you went into business — according to actual U.S. government statistics.

And most, if not all, of your new wealth will be yours to keep tax-free — not even subject to capital gains tax!

I did better than that. When I was 25, my wife Lucille and I started saving part of my first modest earnings as a telephone company employee. In three years we had saved the down payment to buy a home. I began looking about for a way to insure a modest retirement income to supplement my company pension.

From "Scratch" to \$500,000 by 42

Starting with only the \$1000 cash equity in my home, I pyramided this modest asset into \$500,000 by the

time I was 42—all in my spare time. I retired at 42 to concentrate on my investments—with considerable time for gardening, swimming in our backyard pool, hunting, fishing, and traveling.

Many friends turned to me for advice on how they could follow me up the road to fortune. Finally I decided to write a unique guidebook, in which I would share my money-making secrets.

But editors who read my first manuscript told me: "Ah, but your success depended on starting during the depression. It could never happen again!"

Another \$500,000 in Only 2 Years

This led me to study other men's money-making experiences, and current, non-depression-period opportunities. Although I had not intended to increase my holdings, I found so many opportunities that *in 2 years I doubled my estate to over \$1,000,000.*

Now my book, HOW I TURNED \$1000 INTO A MILLION, is ready at last. And in it I reveal — and tell how to use — these 4 basic principles of traveling the last remaining road to great fortune still open to the average person:

- 1 **How to harness the secret force of free enterprise — the pyramiding power of borrowed money.** If you have ever experienced difficulty in arranging a personal loan (or a commercial loan to go into business) you may have the idea that banks won't lend money to the "little fellow" for the purpose of making money. But I will show you how you can get lenders to put up gladly at least three dollars for every one of yours, thereby quadrupling the earning power of your capital.

- 2 **How to choose income-producing multiple dwellings in which to invest your own (and your borrowed) capital.** If you are interested in investing in income-producing property for income alone, then you will probably get along all right with-

any advice from me, although even there I can give you many tips. But if you are out to *pyramid* your capital, there is a definite set of conditions to look for.

3 How to make your equity grow.

A fair market value of an income-producing property is in ratio to its income. Therefore, if you increase the annual net by means of the steps I outline, you increase the market value of the property — thereby increasing your equity.

4 How to virtually eliminate the "tax bite" on your capital growth. I will show you how you can increase your net worth steadily *without* its being subject to income taxes — not even capital gains tax! J. K. Lasser's famous guide, **YOUR INCOME TAX**, says of this method that "the mathematics have almost unparalleled attraction."

If you have about \$2500 right now — or if you can save only \$50 a month for the next four years — you can start out soundly along the road to a million dollars. To enhance your progress you will need an additional personal investment of \$50 a month, or \$600 a year, for two more years after that, making a total investment from your personal savings of \$3600. But then you will start receiving income from your investment. *In addition*, if you follow my instructions carefully, your capital can grow at the following startling rate:

In 2 years, your \$3600 grows to \$5,800

In 4 years, you have \$11,575.

In 6 years, \$21,681.

In 8 years, \$39,363.

In 10 years, \$70,548.

In 12 years, \$124,884.

In 14 years, \$219,972.

In 16 years, \$386,376.

In 18 years, \$677,583.

In 20 years, \$1,187,195.

How far you want to go up this

ladder depends on how much retirement income you would like. You can *conservatively* expect to earn an average net return of 6% on your personal equity. So, if you would be satisfied with a retirement income of at least \$12,000 a year, you might decide to stop when your equity reaches \$200,000.

"There Must Be a Catch to it!"

Right now, it would be understandable if you were sputtering, "But — but — it's not that simple. There *must* be a catch to it!"

Of course there's a catch to it! There are hundreds of "catches" — hundreds of pitfalls and traps for the unwary who have never traveled what I call the "realty road to riches." But I made it, by learning as I went along. And you have a priceless advantage which I never had — the advantage of being able to know beforehand everything I had to learn by trial-and-error.

My 497-page book is literally the product of a lifetime, into which I have poured every distilled ounce of practical knowledge I gained along the road to fortune. It answers all the questions on real estate operations that my friends have ever asked me. I lead you through one actual transaction after another, setting forth each step in detail.

This method of making money is not dependent on continued economic boom or inflation. It is benefited and underwritten by America's continuing *population* boom, which is expected to result in 77 million more people by 1980. And it is comparatively recession-proof.

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You may have other questions, other doubts. Rather than attempt to answer them all here, the publishers invite you to examine my book free for two weeks in your own home. If you're not impressed, return the book in two weeks and pay nothing, owe nothing. Otherwise it's yours to keep for only \$4.95 plus a few cents postage. Mail coupon or write to: **SIMON AND SCHUSTER, Publishers, Dept. FA, 630 Fifth Avenue, New York 20, New York.**

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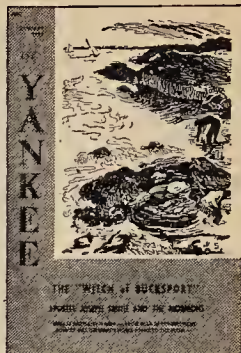
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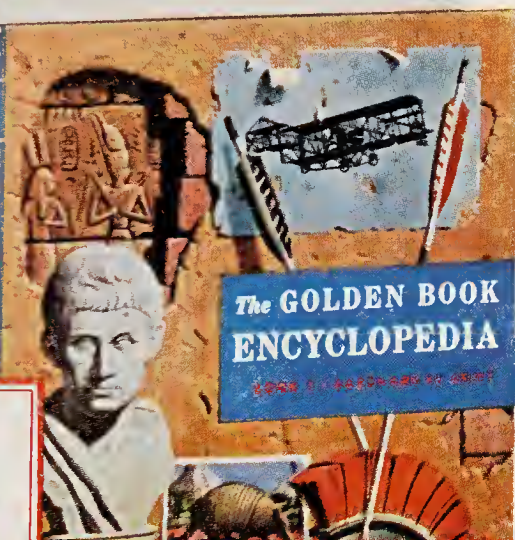
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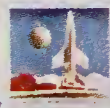
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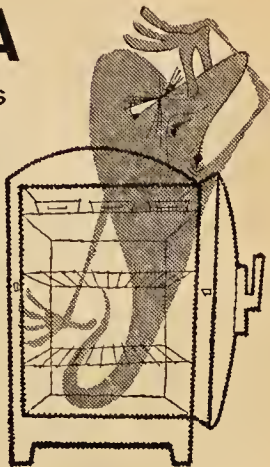
"Now, stay put, my good and faithful friend."

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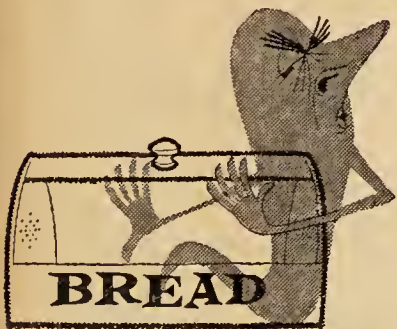
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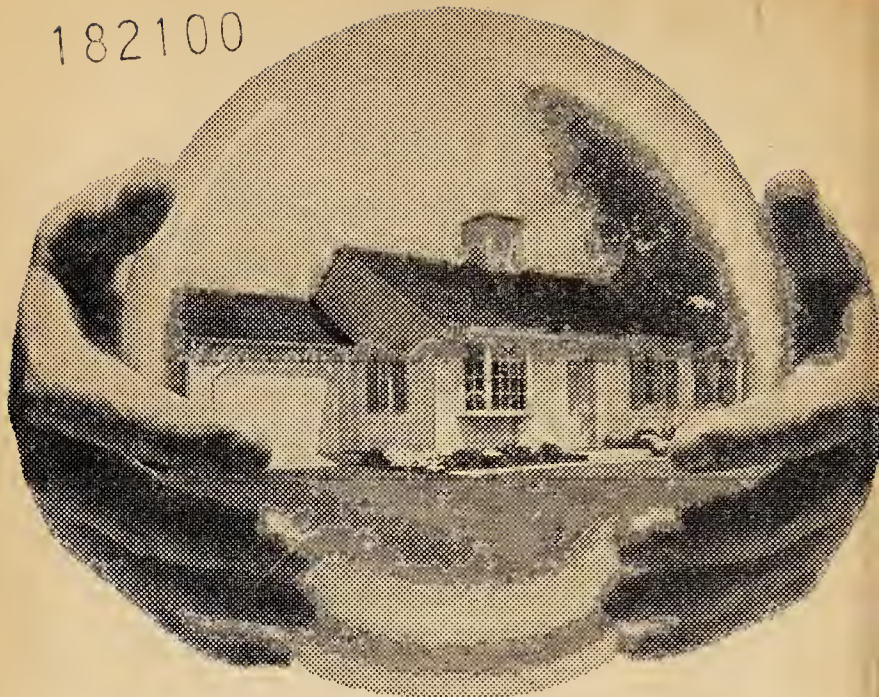
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