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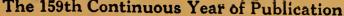


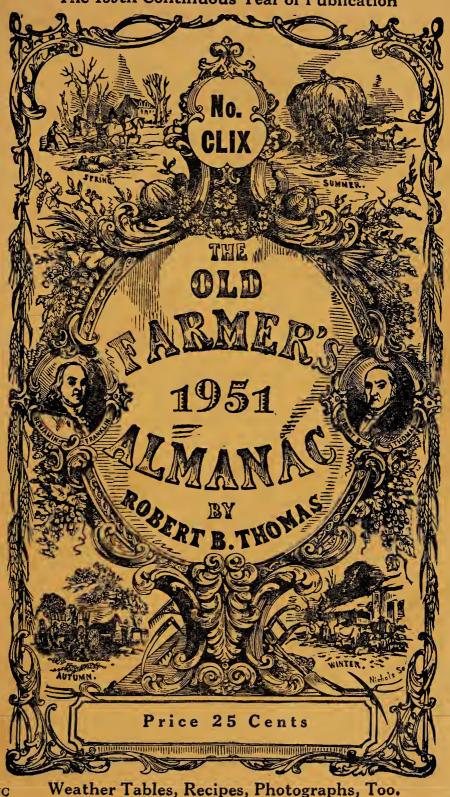
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FHOMAS FARMER'S ALMANAC FIRST ISSUED IN 1792 FOR THE YEAR 1793

THIS IS THE ORIGINAL ROBT. B.

WONDERING about the weather?

When in Bosto<mark>n</mark> do as Bostonians do..

Look to the tower of the John Hancock; for miles around you can tell the weather at a glance.

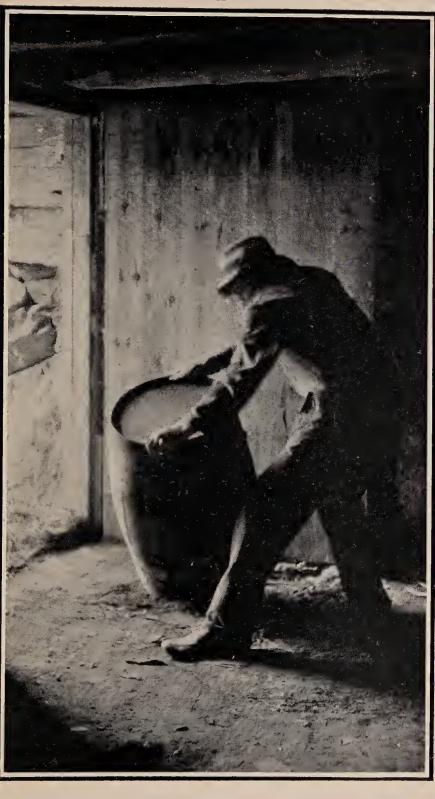
WONDERING about the future?

For Personal Security in a practical way, look to the friendly John Hancock Agent.

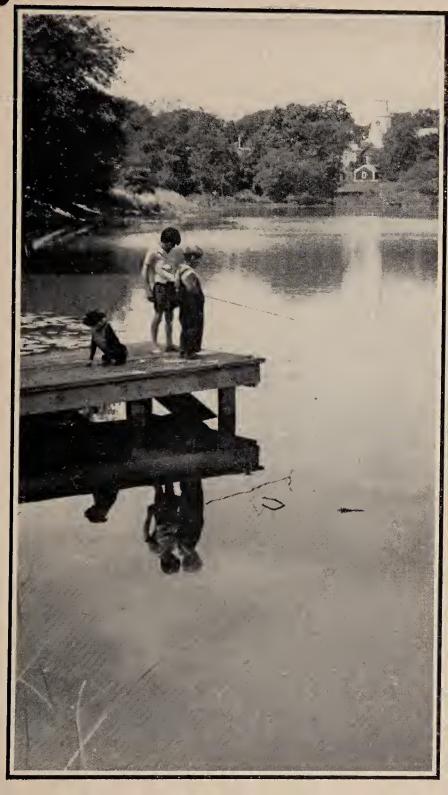
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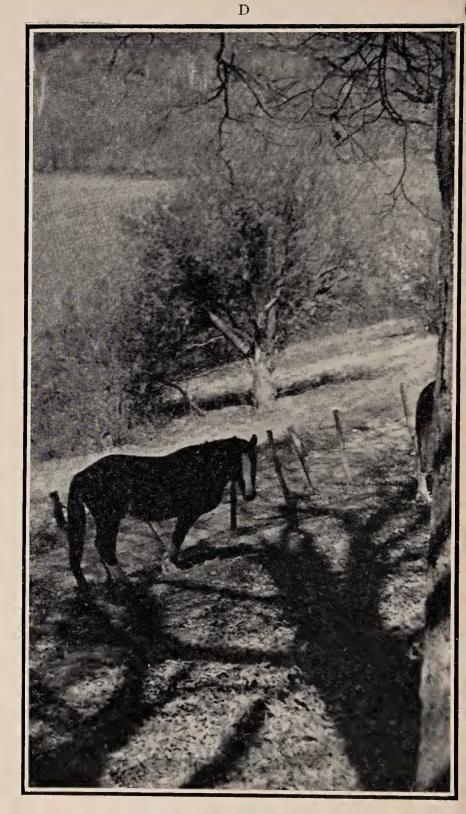
UTUAL LIFE INSURANCE CO BOSTON, MASSACHUSETTS

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Number One Hundred and Fifty-Nine

THE (OLD)

FARMER'S ALMANACK,

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



Being 3rd after BISSEXTILE or LEAP YEAR, and (until July 4) 175th year of American Independence

FITTED FOR BOSTON, AND THE NEW ENGLAND STATES, WITH SPECIAL CORREC-TIONS 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.



Alas! how swift the moments fly! how flash the years along! Searce here, yet gone already by!—the burden of a song! See Childhood, Youth, and Manhood pass,—and Age with furrowed brow! Time was! Time shall be! But alas!—where, where, in time is now? John Q. Adams—from the 1851 Old Farmer's Almanac.

> COPYRIGHT, 1950, BY ROBERT HAYNES, MRS. ALTON P. SWAN, DR. EUGENE L. SWAN COVER T.M. REGISTERED IN U.S.

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Please address all correspondence to Yankee, Inc., Dublin, N. H.

TO PATRONS & CORRESPONDENTS

Herewith is the 159th consecutive annual edition of The Old Farmer's Almanac. It is for the year 1951, covers Atomic Year 6, and portrays, despite man's confusions and troubles, how the universe continues in certain, predictable fashion to maintain its harmonious rhythms. This observation in itself should be sufficient hope to the courageous that the good life is more than mere promise. There are signs also on earth that we may be emerging from years of scientific and psychoanalytical despair during which the world has been seen as torn and decadent. The age of the material realist, the agnostic, the scoffer has ended and in its place has come that of the mystic and the seer. Dr. Albert Einstein, who needs no introduction as the world's greatest present day scientist, has ably dissolved our misconceptions of a material universe and turned us to new fields in outer space where rebirth is possible.

The steadfastness with which we bind with fetters of love, faith, charity these tiny invisible infinitesimal parts of our Rebirth and Being is in large part but our insistence upon freedom to hear and to follow the dictates of conscience. Doubt not even for one moment the glory of God, of America, of your fellow being, of thyself. Assert this glory in the face of all those who would destroy it. It is only in our weakened faith, in our doubts, that the shadows exist in which Communism dares hide. Profess the American way in thought and in deed . . . there is no time left for intellectual, or other, dallying with the Marxian (so called liberal) concepts which were dead long before the present enlightened age of the mystical—of the acknowledged mystery of Creation—began.

In this issue, David Morton of Deerfield, Massachusetts, has written the poetry on the Calendar Pages; Benjamin Rice of Peterborough, New Hampshire, the Farm Calendars and much else; Loring Andrews of Scituate, Massachusetts the astronomical matter; Abraham Weatherwise, the weather. The Hunting & Fishing Laws were taken from the files of Outdoors Magazine. Many governmental and private sources have been of inestimable help. An index appears on page 110. This and the cross references throughout we recommend as being more carefully made than were those of last year.

W. C. Newark, N. J. You ask how many gallons and pounds of water fell in a one inch rain on your acre plot. The answer is 27,154.2 gallons or 226,875 lbs. Next time please include check for the time it takes us to go out and measure such things. L. G. M., Muncie, Indiana: You state no one there seems to know where to get molds or sap buckets for use in making maple sugar. No one here seems to know where to find the price to pay for just the plain syrup. J. H. B., Boston, Mass.: The going price of a complete edition of this Almanac has never been lower than one hundred dollars. Mrs. H. G., St. Louis, Mo.: We can not advise you about the proper time for cutting hair. In our case, certain snide remarks of family or friends are helpful. A. A. B., Chicago, Ill.: As far as we know, the wind on ember days has little to do with the weather three months thence. S. T. P., Portland, Maine.: Only 20 states set their clocks ahead these days for D.S.T. B. G. G., Bozeman, Montana: We agree a rat campaign should be instituted coast to coast. Be sure to include the pink variety.

In conclusion, we wish to express our appreciation of the continued interest in the Almanac on the part of our readers, advertisers, and our many loyal friends of the press, radio, and television. It is hoped we may merit the continuance of this splendid support. Man, however, in these great 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.

Aug. 15, 1950

Art B. Promos.



"Witchcraft" they'd have cried in old Salem to see how FELSO actually washes whites whiter, colors brighter and everything cleaner.

FELSO is the blessed event in the famous FELS family of washing products. It's a white, allpurpose detergent that pours freely, suds instantly, washes perfectly. Grand for dishes, silver and painted surfaces as well as all light and heavy washable fabrics. FELSO is pleasantly fragrant, too.

Users say FELSO is noticeably easy on their hands. Won't you try FELSO and see if it isn't the blessed event in washday helps that you've been looking for? All good grocers sell FELSO.

The New, White ALL-PURPOSE Detergent



VENUS, MARS, JUPITER AND SATURN 1951. 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 103 through 108.

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MORNING AND EVENING STARS, 1951

(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 Mercury will be tavorably situated for being seen as an Evening Star when near its greatest eastern elongations about April 5, August 3, and November 28. On these dates it will set 1 h. 43 m., 1 b. 01 m., and 1 h. 10 m. respectively, after sunset. It will be seen as a Morning Star when near its greatest western elongations about January 23, May 22, and September 16, on which dates it will rise 1 h. 35 m., 0 h. 53 m., and 1 h. 31 m. respectively, before sunrise. Venus will grace the hours after sunset as an Evening Star from the year's be-ginning until September 3 when it comes to conjunction with the Sun. From September 3 to the year's end it will be seen in the morning Star a Morning Star before sunrise. It attains its greatest brilliance as an Evening Star on July 29 and

before sunrise. It attains its greatest brilliancy as an Evening Star on July 29 and as a Morning Star on October 10.

Mars is an Evening Star as the year begins and remains such until May 22 when it comes to conjunction with the Sun. Thereafter for the remainder of the year it will be a Morning Star seen in the east before sunrise.

Jupiter will be an Evening Star visible in the western sky after sunset until March 11 when it comes to conjunction with the Sun. Thereafter, until it reaches oppo-sition on October 2, it is a Morning Star. From October 2 until the year's end it is an Evening Star again.

Saturn is a Morning Star from the beginning of the year until March 20. It is an Evening Star from March 20 until September 29. Thence until the end of the year it is once again a Morning Star.

ECLIPSES FOR THE YEAR 1951

In the year 1951 there will be hut two eclipses, both of the Sun and both visible in the eastern half of the United States. I. An Annular Eclipse of the Sun, March 7, 1951. The path from points of which the annular phase will be visible follows an all-water route from just east of Australia to its ending in the southern Caribhean except where it crosses New Zealand and Central America. The eclipse will be visible as a partial eclipse from points in the United States except in the western and northwestern parts, Mexico, Central America, the northwestern part of South America and the South Pacific Ocean. Ocean.

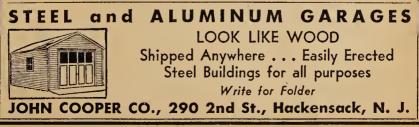
Details of the eclipse of interest to observers in the United States are given helow. By magnitude of the eclipse is meant the portion of the sun's diameter covered by the Moon.

	1 11 11	1 2 61 2 22 4		
	Eclipse	Middle of	Magni-	Eclipse
J	begins	eclipse	tude	ends
		Eastern Stan	dard Time	
Ann Arbor, Mich.	5.15 P.M.	5.43 P.M.	0.09	6.09 P.M.
Atlanta, Ga.	4.54 P.M.	5.45 P.M.	0.34	6.32 P.M.
Cambridge, Mass.	5.12 P.M.	Post-sunset	$(0.13)^*$	Post-sunset
Charleston, W. Va.	5.04 P.M.	5.44 P.M.	0.22	44
Cleveland, Ohio	5.13 P.M.	5.43 P.M.	0.12	6.13 P.M.
Columbia, S.C.	4.55 P.M.	5.45 P.M.	0.35	Post-sunset
New York, N.Y.	5.08 P.M.	5.43 P.M.	0.17	66
Orono, Maine	5.20 P.M.	Post-sunset	(0.04)	66
Philadelphia, Pa.	5.06 P.M.	5.44 P.M.	0.10	66
Raleigh, N.C.	4.58 P.M.	5.45 P.M.	0.31	66
Richmond, Va.	5.01 P.M.	5.44 P.M.	0.26	66
Tallahassee, Fla.	4.48 P.M.	5.44 P.M.	0.44	66 ⁶
Washington, D.C.	5.04 P.M.	5.44 P.M.	0.22	<u>66</u>
		Central Stand	ard Time	
Austin, Texas	3.45 P.M.	4.40 P.M.	0.34	5.31 P.M.
Evanston, Ill.	4.18 P.M.	4.43 P.M.	0.07	5.06 P.M.
Greencastle, Ind.	4.09 P.M.	4.43 P.M.	0.15	5.17 P.M.
Iowa City, Iowa	4.20 P.M.	4.42 P.M.	0.05	5.04 P.M.
Jackson, Miss.	3.51 P.M.	4.43 P.M.	0.34	5.32 P.M.
Kansas City, Mo.	4.10 P.M.	4.42 P.M.	0.10	5.12 P.M.
Little Rock, Ark.	3.56 P.M.	4.43 P.M.	0.26	5.27 P.M.
Louisville, Ky.	4.04 P.M.	4.44 P.M.	0.20	5.22.P.M.
Madison, Wis.	4.26 P.M.	4.42 P.M.	0.03	4.58 P.M.
Nashville, Tenn.	3.59 P.M.	4.44 P.M.	0.25	5.26 P.M.
New Orleans, La.	3.46 P.M.	4.43 P.M.	0.41	5.36 P.M.
Oklahoma City, Ok.	3.59 P.M.	4.41 P.M.	0.18	5.21 P.M.
Topeka, Kans.	4.11 P.M.	4.41 P.M.	0.10	5.11 P.M.
Tuscaloosa, Ala.	3.53 P.M.	4.44 P.M.	0.34	5.32 P.M.
		Mountain Stan	dard Time	
Phoenix, Ariz.	2.59 P.M.	3.31 P.M.	0.09	4.02 P.M.
Sante Fe, N.Mex.	3.05 P.M.	3.37 P.M.	0.10	4.07 P.M.

II. An Annular Eclipse of the Sun, Septemher 1, 1951, visible in its annular phase along a path extending from North Carolina across the Atlantic to West and Central Africa to an end-point in Madagascar. As a partial eclipse it will he visible as a dawn and immediately post-dawn event for United States observers living generally east of Longitude 95° W. and at later hours in the day to observers in the Middle and South Atlantic Ocean, Western Europe and Africa. The central line of the path of annular phase starts pear Winston-Solem NC

The central line of the path of annular phase starts near Winston-Salem, N.C. and thence runs eastward to the Atlantic coast at Norfolk, Va. Its width is approxi-mately 80 miles. Observers within that path must needs rise early to see the short-lived annular phase, for the eclipse will already be in that phase as the sun rises or within minutes thereafter.

For observers elsewhere facts about the time and magnitude of the partial eclipse are given below. By magnitude of the eclipse is meant the portion of the sun's diameter covered hy the moon. Continued on page 39



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WEEKEND HOLIDAYS and the WEATHER

None of the weekend holidays except one of 1951 fall on Saturday or Sunday. Four fall on Monday, and one on Friday—thus offering the vacationer at least five full three-day excursions. The full list, the day the holiday is on, and the weather to be expected, for the full time, is given below: January 1. Monday. Cold. July 4. Wednesday, Rain.

January 1. Monday. Cold.	July 4. Wednesday. Rain.
Feb. 12. Monday. Plenty of snow.	Sept. 3. Monday. Rain.
Feb. 22. Thursday. Overcast.	October 12. Friday. Rain.
April 19. Thursday. Overcast.	November 6. Tuesday. Clear.
April 23. Monday. Lowery	November 22. Thursday. Changeable.
May 30. Wednesday. Rain.	December 25. Tuesday. White.
June 17. Sunday. Nice.	(See opposite page for complete list.)

AN IDEAL PLACE FOR A HAPPY AND RESTFUL VACATION

Spend it at a delightful home in a beautiful New Hampshire residential town. Fiue center for visiting points of interest in the White Mountains and Canada. Near all churches, stores, restaurants and golf course. Attractive rooms, excellent beds; a friendly, congenial home. Rates moderate.

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PRINCIPAL HOLIDAYS, ETC. IN 1951

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

Jan. 1 (*) New Year's Day

Jan. 8 (**) Battle of New Orleans

- Jan. 19 (**) Robert E. Lee's Birthday
- Jan. 26 (**) MacArthur Day (Ark.)
- Jan. 30 (**) F. D. R.'s Day
- Feb. 4 (**) Arbor Day (Ariz.)
- Feb. 6 (**) Mardi Gras
- Feb. 12 (**) Abraham Lincoln's Birthday
- Feb. 14 (**) Admission Day (Arizona)
- Feb. 14 (***) Valentine's Day
- Feb. 15 (***) Susan B. Anthony Day
- Feb. 22 (*) George Washington's Birthday

Mar. 1 (**) State Day (Nebraska)

Mar. 2 (**) Texas Independence Day

- Mar. 7 (**) Burbank Day (Cal.)
- Mar. 15 (**) Jackson Day (Tennessee)
- Mar. 17 (**) St. Patrick's or Evacuation Day

Mar. 23 (**) Good Friday (Conn., Del., Fla., La., Md., Minn., N. J., Penn. & Tenn.)

- Mar. 25 (**) Maryland Day
- Mar. 26 (**) Easter Monday (N. C.)
- Apr. 1 (**) State Election (Michigan)
- Apr. 10 (***) Arbor Day (Neb.) 1872
- Apr. 12 (**) Halifax Day (N. Car.)
- Apr. 13 (**) Jefferson Day (Mo., Okla., Va.)
- Apr. 14 (***) Pan American Day
- Apr. 19 (**) Patriots' Day (Me., Mass.)
- Apr. 21 (**) San Jacinto Day (Texas)
- Apr. 22 (**) Arbor Day (Nebr.)
- Apr. 22 (**) Okla. Day
- Apr. 24 (**) Arbor & Bird Day (Mass.)
- Apr. 24 (**) Fast Day (N. H.)

Apr. 26 (**) Memorial Day (Fla., Ga., Miss.)

May 4 (**) R. I. Independence Day May 10 (**) Memorial Day (N. C. & S. C.)

- May 13 (***) Mother's Day
- May 19 (**) Armed Forces Day
- May 20 (**) Mecklenburg Day (N. C.)
- May 20 (**) Citizenship Day
- May 30 (*) Decoration or Memorial Day
- June 3 (**) Jefferson Davis Day (Ala., Ark., Fla., Ga., La., Miss., S. C., Tenn., Tex. & Va.)
- June 14 (**) Flag Day (Mo. & Pa.)
- June 15 (**) Pioneer Day (Idaho)
- June 17 (**) Bunker Hill Day (Suffolk County, Mass.)
- June 17 (***) Father's Day
- June 20 (**) West Virginia Day
- July 4 (*) Independence Day
- July 13 (**) Forrest's Day (Tenn.)
- July 24 (**) Pioneer Day (Utah)
- Aug. 1 (**) Çolorado Day
- Aug. 14 (**) Victory Day (R. I.)
- Aug. 16 (**) Bennington, Vt. Battle Day
- Aug. 30 (**) Huey Long Day (La.)
- Sept. 3 (*) Labor Day
- Sept. 9 (**) Admission Day (Cal.)
- Sept. 10 (**) Election Day (Me.)
- Sept. 12 (**) Defender's Day (Md.) Sept. 16 (**) Cherokee Day
- Sept. 16 (**) Cherokee Day (Okla.) Sept. 17 (***) Constitution Day
- Sept. 17 (?**) Constitution Day
- Sept. 28 (***) Am. Indian Day
- Oct. 1 (**) Missouri Day
- Oct. 10 (**) Okla. Hist. Day
- Oct. 12 (*) Columbus Day
- Oct. 31 (**) Nevada Day
- Nov. 1 (**) All Saints' Day (La.)
- Nov. 4 (**) Will Rogers Day (Okla.)
- Nov. 6 (*) Election Day
- Nov. 11 (**) Armistice Day
- Nov. 22 (*) Thanksgiving Day
- Nov. 23 (**) Repudiation Day (Md.)
- Dec. 7 (**) Delaware Day
- Dec. 21 (***) Forcfather's Day
- Dec. 25 (*) Christmas Day

LAST WINTER'S (Nov., Dec., 1949-Jan., Feb., Mar., 1950) WEATHER

The past seven winters were forecast by Abe Weatherwise — The Old Farmer's Almanac long time forecaster — as "Mild," "Turbulent," "Wet," "Old Fashioned," "White, long and cold," "Not so cold but icy," and finally, as "wet." The correctness of the first six of these winters has never been disputed. For the seventh, or last winter, Abe slipped up on his "bitter cold and more storms of rain and snow" for November and December of 1949. He was right however in saying that January 1950 would be "Mild" — February "Stormy," and the Spring "Cold and Late." He was furthermore correct in his year ahead forecast that on Feb. 2, 1950, the Groundhog would not see his shadow during the day but would see it by the light of the full moon during the evening. Special Observer Francis W. Hatch reported on this day's weather events as follows: (Mr. Hatch works in Boston, lives in Weston.)

"Bedraggled snow from dawn 'tll ten, and then rain, cold rain that pelted at my felted hat — then fog that made the Boston State House dome wistful in the mist. drlving home I brooded over slushy ruts and rills and thought of washed out skiers in the hills: but, lo, after one sustaining drink or so I stepped out doors and shining pale above, shy and luminescent as first love, in compliment to spirits growing bolder there perched the moon, a jewel on my shoulder. (The moon I must confess in honesty was shrouded in dim obscurity. Behind the dismal veil it held its track, faithful to the trusty Almanac.)

(ED. NOTE: The dismal veil referred to by Observer Hatch refers no doubt to Boston smoke as other observers of that evening report the moon full and clear.)

The most significant weather event of the Spring of 1950 was the report on March 28th (New York Herald Tribune) from the International Ice Patrol that icebergs were much further south than usual for that date. The Weather Bureau has long felt the need of more weather stations in Arctic areas. The importance of the movements of the ocean currents under the ice cap is not to be denied. At the end of the winter, Chief Namais of the U.S. Weather Bureau

At the end of the winter, Chief Namais of the U.S. Weather Bureau explained that a roving high pressure cell a thousand miles off the Pacific Coast controlled by chain reaction a Bermuda high pressure area to cause another weird winter in which California at times had more snow than New England. Now that the Weather Bureau's thirty day ahead forecasts are well established it is to be hoped that such cells may be recognized in advance of the weeks and months during which their influence is to be felt.

NEXT WINTER'S (Nov., Dec., 1950-Jan., Feb., Mar., 1951) WEATHER "PLENTY OF SNOW and PLENTY COLD"

November, 1950, will be colder than most years, and along with December, 1950, will have its full share of storms of rain and snow. January, 1951, will start off real cold, and the last half of the month will bring along almost every kiud of known winter weather. February will find on the ground more snow than usual, and this snow will stay well into March. The last three weeks of March will have uothing in them which can be spoken of favorably except they brought us three weeks nearer Spring.



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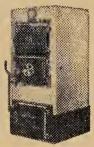
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The following Calendar Pages (12-35) have remained practically unchanged in format since the first issue in 1793. Those not familiar with the signs, abbreviations, etc., should realize that the understanding of this time-honored format is easily come by—and contains for the year 1951: the angle of the sun's declination, the times of the change of the moon's phases, sunrise, sunset, day's length, sun dial adjustments, high tides, moon rise, moon set, moon southing, moon's place in the heavens, and the moon's age—for every day in the year. On the right hand pages are expressed, by means of the symbols explained below, the relative positions during the year of the solution of the symbols. the eleven planets including our sun and moon; daily tide heights, and in italic type, coursing down just to the left of the Farm Calendar, the weather which may be expected for the days which the italic sentence covers. On these right hand pages are also indicated all the important religious Holy Days of all faiths—national and state holidays—historic dates—and advice as to when the sap starts to run, birds, return, etc.

The Moon Signs used by many for planting are given in the next to last column of the left hand pages. Abbreviations used in this column are explained below and correspond to the positions on Moon Sign Man—familiar to many—but never used in this Almanac... which has never given credence to astrological matter. How-ever in the last column of the Planting Table which follows these Calendar Pages on page 36 you will find the dates which astrologers use as most favorable for planting.

For the adjustment of the times given, to those of your locality turn to page 103.

CALENDAR PAGE EXPLANATIONS AND SIGNS

On the right hand pages you will find every now and again the symbols given in Tables 1 and 2 conjoined on groups of three to give you what is happening in the heavens. See Abbreviations and Definitions on page 102.

1. Names	and (Tharacters.	of the	Princip	al Planets.

0	0		The	Sun. Moon
ğ	M	ercu	ry.	10001

Venus. H The Earth. of Mars.

Jnpiter. Saturn. H or 🕆 Uranus. Ѱ Neptune. [©] Pluto.

2. Names and Characters of the Aspects.

 d Conjunction, or in the same degree. □ Quadrature, 90 degrees. ○ Quadrature, or 180 degrees. 	Ω Dragon's Head, or Ascending Node. ⁽¹⁾ Dragon's Tail, or Descending Node.
---	--

8 Opposition, or 180 degrees.

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

		Artes, head.	
2.	8	Taurus, neck.	
3.	Ū	Gemini, arms.	•

5	R	Leo, heart.
6.	my	Virgo, belly.
7	~	Libra reins.

- 4. 5 Cancer, breast.
- 8. M Scorpio, secrets.

10. 1/2 Capricornus, knees. 11. = Aquarius, legs. 12. \neq Pisces, feet.

9. *I* Sagittarius, thighs.

4. Chronological Cycles for 1951.

Golden Number		•	14 Solar Cycle	•		28 Roman Indiction 4
Epact	• •	•	22 Dominical Letter	•	•	G Year of Julian Period 6664

Moyable Feasts and Fasts for 1951.

Ash Wednesday Feb. 7 Lo	aster Sunday M ow Sunday A ogation Sun. A		Whitsunday Trinity Sunday Corpus Christi 1st Sunday in Advent	May May May Dec.	$\begin{array}{c} 20\\ 24 \end{array}$
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THE SEASONS, 1951

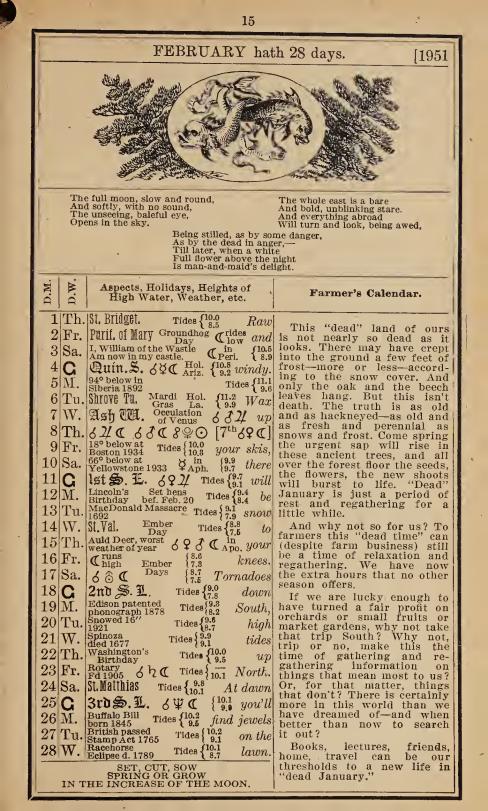
Eastern Standard Time

STANDARD TIME IS USED THROUGHOUT THIS ALMANAC Add one hour to obtain Daylight Saving Time.

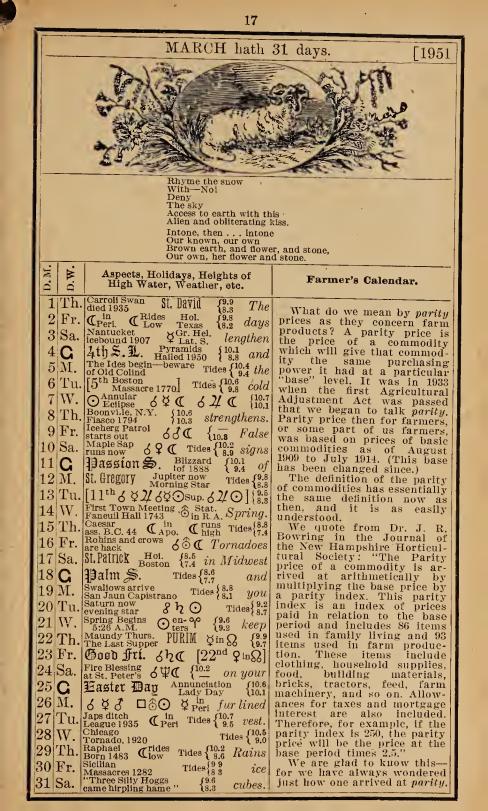
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	Ó Fi	ill M	oon, 22	2nd	da da	\mathbf{v} . 1	, , , ⊥ 1, h.	47	m., e	venir	ng. W.			
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4	4Th	7 13	o 4 25	C	91	12 11	$7\frac{1}{2}$	8	3 4	9 o	8 27 s	sco	26	
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	JANUARY hat	th 31 days. [1951
KA V		
	Disruption, dislocation, everyw Formless and wiid, and part at And, still, the word, the word, Stubborn and small and sweet Persists in shape and sense, be 'Cleave unto me, me, all other	t war with part at her love-making, in violent air, gging the beart:
	ects, Holidays, Heights of igh Water, Weather, etc.	Farmer's Calendar.
2 Tu. $\begin{array}{c} 2 & \text{fu} \\ 3 & \text{W.} \\ \text{Ist U.S} \\ \text{Ist U.S} \\ 4 & \text{Th. Bloom} \\ 5 & \text{Fr. Take da} \\ 5 & \text{Fr. Take da} \\ 6 & \text{Sa. Epip} \\ 7 & \textbf{C} \\ 1 & \text{Snowed} \\ 6 & \text{Sa. Epip} \\ 7 & \textbf{C} \\ 1 & \text{Snowed} \\ 9 & \text{Tu. Snowed} \\ 9 & \text{Tu. Snowed} \\ 10 & \text{W. U.S. Ra} \\ 10 & \text{W. U.S. Ra} \\ 10 & \text{W. U.S. Rability} \\ 11 & \text{Th. Borden} \\ 12 & \text{Fr. Maximin} \\ 12 & \text{Fr. Maximin} \\ 13 & \text{Sa. Vera Ic} \\ 14 & \textbf{C} \\ 20 & \text{Sa. Vera Ic} \\ 15 & \text{M. [14^{th} \\ 16 & Tu. Hoax T. Hoax $	1950 Tides $\{3,9\}$ starts Seens Tides $\{10.8, 0.64$ 10.8 $(0.6, 10.8)$ $(0.6, 10.8)10.6 \forall C \ Peri \ Iovs \ 10.2 (0.6, 10.8)Monday \forall \ Cr. Hel. \ Varphi \ 10.6 \$	boy at school my teacher, irritated by my thick-headed- ness remarked that I hadn't brains enough to last me over night (a conviction, by the way, which he carried to his dying day). This, being in class before my gleeful class- mates caused me the agonizing embarrassment that only the very young may know—while not in the least clearing up my thick-headedness. At any rate, I have always remembered the remark (and the sting of it), and, I think, turned it to good account. A school teacher myself in later years, I have tried never to make a pupil suffer from a cruel and unconstructive tongue-lashing, particularly before his fellows. "Losing face" is a crushing thing to youngsters—only a little less so to us who are older—and certainly not less so to na- tions and races. God knows the world can do—and must do — with every grain of kindness and thoughtfulness we may find for the other farm: We who are not so concerned with the marts of trade, fiscal years and so on, as our more prosperous brethren in the business

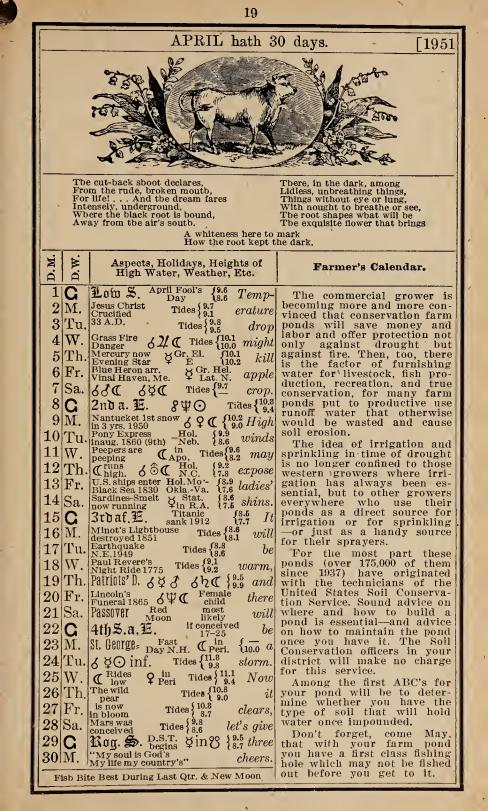
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• New Moon, 7th day, 3 h. 50 m., evening, W. • First Quarter, 15th day, 12 h. 40 m., evening, E. • Full Moon, 23rd day, 5 h. 50 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 35 m., morning, E. • Last Quarter, 30th day, 12 h. 400 P. • Souths. 90 K 536 G li 194 4 63 71 400 P. • Souths. 90 K 537 G li 21 4 8 8 4 44 0 9 15 AqR 20 • Cast 61 K 537 G li 21 4 8 8 4 44 0 9 15 AqR 20 • Cast 61 K 537 G li 21 4 8 8 4 44 0 9 15 AqR 20 • Cast 61 K 537 G li 21 4 8 8 4 44 0 9 15 AqR 20 • Cast 61 K 537 G li 21 4 9 9 $\frac{1}{2}$ 5 38 N 10 10 AqR 22 • Cast 61 K 537 G li 21 1 9 04 L 2 00 ARI • 11 S. 604 J 5 43 H li 36 5 0 0 $\frac{1}{4}$ 7 57 K 1 16 ARI • 200 ARI • 11 S. 604 J 5 46 H li 42 6 $\frac{1}{4}$ $\frac{1}{3}$ 10 11 N 2 44 TAU • 12 M. 602 J 5 47 H li 45 6 2 $\frac{2}{2}$ 11 $\frac{1}{1}$ 8 3 30 TAU • 13 Tu. 600 J 5 48 H li 48 6 $\frac{2}{3}$ $\frac{3}{4}$ 4 4 18 $\frac{3}{4}$ M 0 • 7 14 S. 559 J 5 59 H li 53 7 4 $\frac{1}{4}$ 5 1 22 Q 5 59 G M • 7 516 Fr. 5 55 I 552 I 15 55 I 12 05 8 8 $\frac{3}{4}$ 4 11 N 9 20 Leo 12 • 7 18 S. 552 I 554 I 12 08 8 9 $\frac{9}{2}$ 4 38 M 10 06 VIR 14 • 22 Th. 5 45 I 5 59 I 12 14 9 10 $\frac{1}{1$				6	11		11	3	5	1	17	1	29	23	0	53	29	3	15
) First Quarter, 15th day, 12 h. 40 m., evening, E. O Full Moon, 23rd day, 5 h. 50 m., morning, E. (Last Quarter, 30th day, 12 h. 35 m., morning, E. KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 199 ($\mathbf{X} = \mathbf{X} = \mathbf{X}$		11	6 N		<u> </u>	· • • • •												3	38
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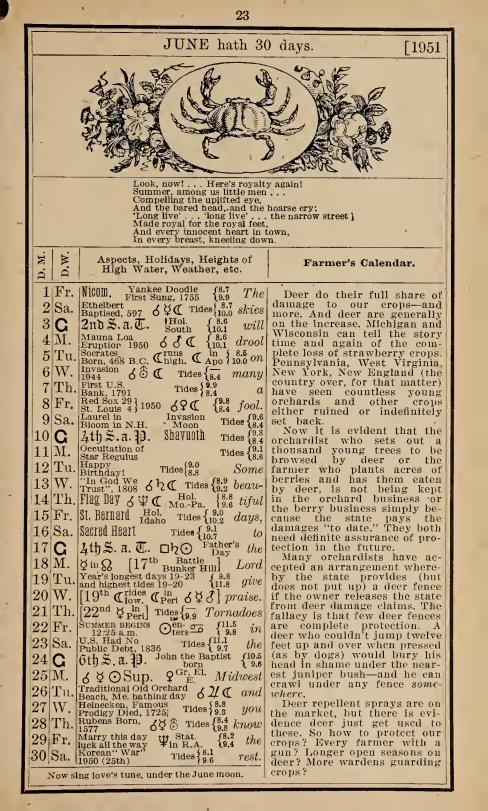
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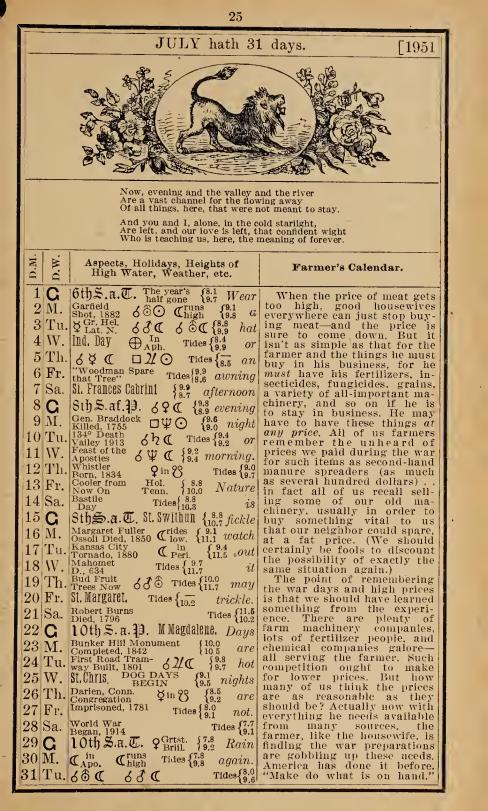
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	MAY hath 33	1 days. [1951
H A B T	aving no vanity-case Al ave only the shining river, T nd that is a rapid ferry W Baring away, forever, W he look of the flower's grace, T	ad they but been to school! hey might look over my shoulder nd see, as in a pool, he mirroring way of verse,— here they grow never oider, "here meter and rhyme rehearse be young, the beautiful eheld and beholder.
Ŋ. М. D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
4 Fr 5 Sa 6 C 7 M. 8 Tu 9 W. 10 Th 11 Fr 12 Sa 13 C 14 M. 15 Tu 16 W. 17 Th 18 Fr. 19 Sa 20 C 21 M. 22 Tu 23 W. 24 Th 25 Fr. 26 Sa. 27 C 28 M.	Ist No Stop \mathcal{O} Days $\{9.4\}$ is ASCENSION D. Trides $\{0.4\}$ is $\{10.0\}$ at ASCENSION D. Trides $\{10.0\}$ at ASCENSION D. Trides $\{9.4\}$ in $\mathbb{C}_{110,2}$ hand, Call B.C. 2055 $\mathcal{O} \subseteq \mathbb{C} \left\{ 0.3 \\ 10.2 \\ 1$	ned Main Street, perilous with its cobbles and trolley tracks, and all the great parade stretching behind him. The Grand Army Men in their fading blue—but not too faded then—and the spruce Spanish war veterans in their bright blue and gold, band blaring, and little girls in white and little boys in khaki or blue, and firemen and policemen and more bands. Down Main Street, up Cot- tage Street, alternately under the good warm sun and through the shadows of the great elms and maples and chestnut trees—shadows as cool as water. The smell of lilacs and lilles-of-the-valley would drift up to us from the garden as we sat on the porch
 29 Tu 30 W. 31 Th	Memorial Day & Gr. Hel. 6 2/ C {8.9 9.4	came straggling back to dis- perse at the street corner and the firehouse. So our parade ended. But the thrill remains.

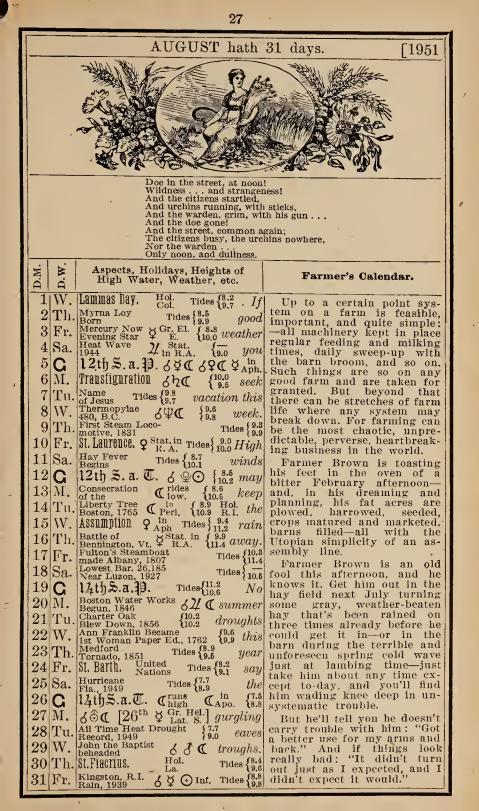
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b L B A Rises. A Rise															
152 1 Fr. 41		5 05 18	$9 \mid 9$	$\frac{1}{4}$ $2_{M}^{A}0$	$0 \mathbf{E} . 9$	^р 16 т									
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158 7 Th. 40		51217	$0\frac{1}{2}$ 1	10 0			NC	$\overline{3}$							
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164 13 W. 40		51616	5^{4} 5	$\frac{\frac{4}{3}}{4}12_{M}$				$\frac{9}{9}$							
165 14 Th. 40		51716		$\frac{1}{2}$ 12 28				-)							
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167 16 Sa. 40		5 18 15	8 8	$\frac{1}{4}$ 1 1'		- [co 12								
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109 18 m. 40 170 19 Tu. 40			$9\frac{3}{4} 10 $ $10\frac{3}{4} 11 $	2 ^A 3' rises		<u>в</u> 22 s	GR 14	4							
171 20 W. 40	6 c 7 25 o 1	51914	113	. QPO	3 0 12	430 c	AP 10	6							
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174 23 Sa. 40	7 c 7 25 o 1.	5 18 14	$\frac{1\frac{3}{4}}{91}$ 2	$\frac{1}{4}$ 10 43	3к 3	30 A	QR 19	9							
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178 27 W. 40	8 c 7 26 o 1.	5 18 13	$\begin{bmatrix} \frac{1}{2} & 0 \\ 5\frac{1}{2} & 6 \end{bmatrix}$	4 1 1 M T	$\frac{1}{-6}$	32 A	RI 2.	3							
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			arter											, W.	
	O Fu	ll Mo	on, 18	8th	day	y, 2	h.	. 17	́ m.	, eve	enir	ıg,	E.		
	 ○ Full Moon, 18th day, 2 h. 17 m., evening, E. 𝔅 Last Quarter, 25th day, 1 h. 59 m., evening, W. 														
	KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109														
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	Area Area Area Area Area Area Area Area														
182	1 1	4 10						$9\frac{1}{4}$	$9\frac{1}{2}$		1				
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185		$411 \\ 412$	c72	50	$15 \\ 15$	14 1 1 3 1	$\frac{2}{2}$	111	10 <u>4</u> 11 <u>1</u>	set			$2_{M}^{P}09$		
186		.412	c 7 2						$\frac{112}{0}$	8º4			$2^{M00}58$		
187			c72	50	15	12 1	1	0	$0\frac{3}{4}$	91	0 N	- 11		LEO	
188	7 Sa.		c72					$0\frac{3}{4}$	$1\frac{1}{4}$		- 1		2 29		
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203	22 D .	4 20	D71		$14 \\ 1.1$	18	9 9	$\begin{array}{c} 0\frac{1}{2} \\ 1\frac{1}{2} \\ 2\frac{1}{4} \\ 3\frac{1}{4} \end{array}$	$\frac{2}{2^{3}}$	93			$\begin{array}{c} 2 & 57 \\ 3 & 43 \end{array}$		
204	20 m. 24 Tu	4 27	D 7 1	1 N	14^{14}	17	9	$\frac{4}{31}$	$\frac{24}{33}$	10 1	$\frac{1}{2}$		43 4 27		
206	25 W.	428	D 7 1:	3 N	14	15	9		$4\frac{1}{2}$	10^{1}	5 1		5 11		
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208	27 Fr.	430	D71	l N	14	41	9	6	$6\frac{1}{2}$	11 _M 3	3 1	3 (3 43		
209	28 Sa.	431	D 7 10) м	14	39	9	7	$-7\frac{1}{4}$		•	- "	7 32	G'м	24
210	29 S.	432	E 7 0	Эм	14	37	9	8	$8\frac{1}{4}$	12_{m} 1	2	4 8	8 22	G'M	25
211	20 Fr. 21 Sa. 22 S . 23 M. 24 Tu 25 W. 26 Th 27 Fr. 28 Sa. 29 S . 30 M. 31 Tu	433	E 7 0'	7 м	14:	34	9	$8\frac{3}{4}$		12 5			9 13		
212	31 Tu	434	E 7 0) M	μ4;	32	9	$9\frac{3}{4}$	$9\frac{3}{4}$	LME	31	411	DA04	CNC	27



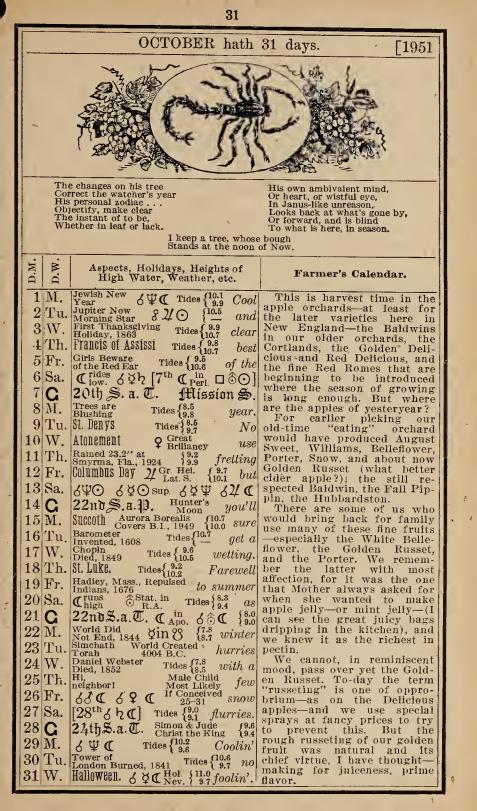
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1951] AUGUST, EIGHTH MONTH. ASTRONOMICAL CALCULATIONS.											
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 New Moon, 2nd day, 5 h. 39 m., evening, W. First Quarter, 10th day, 7 h. 22 m., morning, E. Full Moon, 17th day, 9 h. 59 m., evening, W. Last Quarter, 24th day, 5 h. 20 m., morning, W. KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109 											
Day of Year Day of Month Day of the Week	Men Sets.	A Lenge of Days b. 1	s Sun Fast.	Full Bost Morn	Sea, ton. Eve	n Rise h.	s. E.	Sc	Duths. m. F)'S Place	Moon' Age
$\begin{array}{c} 213 & 1 \text{ W. } 435 \\ 214 & 2 \text{ Th. } 436 \\ 215 & 3 \text{ Fr. } 437 \\ 216 & 4 \text{ Sa. } 438 \\ 217 & 5 \textbf{ S. } 439 \\ 218 & 6 \text{ M. } 440 \\ 219 & 7 \text{ Tu. } 441 \\ 220 & 8 \text{ W. } 442 \\ 221 & 9 \text{ Th. } 443 \\ 22210 & \mathbf{Fr. } 444 \\ 22311 \text{ Sa. } 446 \\ 22412 \textbf{ S. } 447 \\ 22513 \text{ M. } 448 \\ 22614 \text{ Tu. } 449 \\ 22715 \text{ W. } 450 \\ 22816 \text{ Th. } 451 \end{array}$	E 7 05 E 7 04 E 7 04 E 7 03 E 7 02 E 6 59 E 6 59 E 6 59 E 6 55 E 6 55 E 6 55 F 6 55 F 6 55 F 6 55 F 6 45 F 6 45 F 6 45 F 6 42 F 6 42 F 6 41 F 6 39 F 6 38 F 6 35 G 6 32 G 6 32 G 6 25 F 6 23 F 7 2 F 6 23 F 7 2 F 6 3 F 7 F 6 3 F	$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{array}{c} 0 & 10 \\ 0 & 10 \\ 28 & 10 \\ 10 \\ 2 & 10 \\ 9 & 10 \\ 7 & 10 \\ 5 & 10 \\ 0 & 10 \\ 7 & 11 \\ 2 & 10 \\ 7 & 11 \\ 2 & 11 \\ 2 & 11 \\ 7 & 11 \\ 2 & 12 \\ 9 & 12 \\ 7 & 12 \\ 2 & 13 \\ 7 & 13 \\ 3 & 13 \\ 1 & 14 \\ 9 & 14 \\ 5 & 14 \\ 3 & 14 \\ 0 & 15 \\ 7 & 15 \\ \end{array}$	$\begin{array}{c c} 10^{\frac{1}{4}} \\ 11 \\ 11^{\frac{1}{2}} \\ 11^{\frac{1}{2}} \\ 0^{\frac{1}{4}} \\ 1^{\frac{1}{2}} \\ 2^{\frac{1}{4}} \\ 4^{\frac{1}{3}} \\ 4^{\frac{1}{5}} \\ 5^{\frac{1}{4}} \\ 4^{\frac{1}{4}} \\ 5^{\frac{1}{4}} \\ 4^{\frac{1}{4}} \\ 1^{\frac{1}{4}} \\ 1^{\frac{3}{4}} \\ 3^{\frac{1}{4}} \\ 3^{\frac{1}{4}} \\ 2^{\frac{1}{4}} \\ 3^{\frac{1}{4}} \\ 5^{\frac{1}{4}} \\$	$\begin{array}{c} 10\\ 11\\ 11\\ 0\\ 0\\ 1\\ 2\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$	$\begin{array}{c} 1 \\ 2 \\ 2 \\ \text{M} \\ \text{Set} \\ 1 \\ 2 \\ \text{Set} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	54 : 58 : 59 1 10 1 58 : 58 : 58 : 58 : 58 : 50 : 50 : 50 : 50 : 50 : 50 : 50 : 53 : 14 : 52 : 44 : 43 : 43 : 43 : 43 : 43 : 43 : 43 : 43 : 43 : 44 : 43 : 43 : 147 : 153 :	$ \begin{array}{c} B & -1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	$0_{h}^{h}54$ (1 $1_{h}^{4}421$ $1_{h}^{2}2^{h}271$ 111 $2_{h}^{2}271$ 111 $2_{h}^{2}271$ 111 $2_{h}^{2}271$ 1153 $2_{h}^{2}271$ $1_{h}^{2}54$ $4_{h}^{2}54$ $5_{h}^{2}56$ $5_{h}^{2}66$ $2_{h}^{2}54$ $4_{h}^{2}67$ $2_{h}^{4}51$ $1_{h}^{2}54$ $2_{h}^{2}43$ $2_{h}^{2}94$ $2_{h}^{2}43$ $2_{h}^{2}94$ $2_{h}^{2}56$ $15_{h}^{2}67$ $2_{h}^{2}7$ $2_{h}^{$	CNC LEO VIR VIR VIR VIR VIR VIR VIR VIR VIR CO SCO SGR SGR CAP CAP CAP CAP CAP CAP CAP CAP CAP CAP	$\begin{array}{c} 28\\ 29\\ 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 23\\ 24\\ 25\\ 26\\ 27\\ 28\\ \end{array}$



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	ar	e of poi	1	1100	1 II T.et	RECTIONS	Full	PAGES 103	1 11	- 1	D's	1000's Age
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l		18 Tı 19 W				25 21	$0\frac{3}{4}$	1 7		1 40		
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	29	
	SEPTEMBER hat	h 30 days. [1951]
	The meadow, gay with flowers, The wild notes blossoming for Is drunk with sun and with da I keep my decorous feet to the The meadow's not for gaberdin And a tweed jacket—and incip I hurry on to cocktalls, where t May know a trick of mixing th To point the ears, again, and si	sober road; ie and oxfords ient baldness. the hostess, is and that
D.M.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1 Sa. $\bigcirc f$ 2 C 16t 3 M. Labo 4 Tu. N.4 5 W. Exh 6 Th. Saute 7 Fr. Q 8 Sa. Vir 9 C 16t 10 M. Elec 10 M.	Annular $\delta & & & & & & & & & & & & & & & & & & $	Any dear aunt (by cour- tesy in the good old New England way) used to have a saying that I have oft re- peated to myself—"There is nothing nicer than a little bit of money." I think she was smug about it and really kept her coins and small bills be- hind the clock or in the cup- board. But then this is but a memory and, financially speaking, I don't know how she "cut up" when she died. I wasn't in on that. Be that as it may, dear "auntie" was right. What could be nicer than a little bit of money? What could be? The funny part of it is that few of us know much about this now. Where would we get that "little bit of money" nowadays to put be- hind the clock or the tele- vision? Mostly we wait till we're overdrawn at the bank and then borrow on the life insurance or go to the finance corporation. What's left for the clock or the television? But we are philosophers here on the farm. If we are lucky we are carried by the bank till the 'crop comes in; the fertilizer people will wait us out; the spray and dust people will stay with us un- til—; and the fellows who supply us with packs and boxes and have agreed to buy our crop: all are as pa-
TWO NE	EW MOONS THIS MONTH	
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	12		551		509					83	$\frac{8}{9}$	4)5	r H				SC SC	$11 \\ 12$
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294	$\frac{41}{22}$	M.	6003	K	$\frac{4}{4}\frac{50}{53}$	G F	10 10	52 40	$\frac{31}{21}$	$3\frac{1}{4}$		$\frac{1}{2}$	92 104	20 24	B					$\frac{20}{21}$
295	5 23	Tu.	601		$\frac{1}{4}\frac{50}{52}$	F	$10 \\ 10$	47	$\frac{31}{31}$	$\begin{array}{c} 4\\ 5\end{array}$	5	4	10 A	$\frac{24}{28}$	C D	$\begin{bmatrix} 0\\6\end{bmatrix}$	42 09		NC EO	$\frac{21}{22}$
297	24	W.	606	L	450	F	10	44	31	6	6	4 1 4	M*	-	-	$\begin{vmatrix} 0\\ 6 \end{vmatrix}$				$\frac{22}{23}$
298	25	Th.	607	L	449	F	10	42	32	$6\frac{3}{4}$	7		$12_{\rm M}^{\rm A}$	34	F	7	38	\mathbf{L}	EO	24
299	26	Fr.	6 09		447	F	$10 \\ 10$	38	32	$7\frac{3}{4}$	8		1 4	40			21			
300	28	Sa.	$610 \\ 611$		+ 40 4 44	F	10	30 33	32 32	$\begin{array}{c} 634\\734\\812\\914\\914\end{array}$	8	41	$\frac{2}{3}$	$\frac{46}{55}$	I J		$05 \\ 40$			$\frac{27}{28}$
302	29	M.	612		443	F	10	31	32	93	10^{-9}	21	- о - 5 _м ($\frac{28}{29}$
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32	
1951] NOVEMBER, ELEVENTH MONTH.	
ASTRONOMICAL CALCULATIONS.	
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$ \begin{bmatrix} \circ \\ \bullet \end{bmatrix} \begin{bmatrix} 5 & 15 & 35 & 11 & 17 & 20 & 17 & 18 & 54 & 23 & 20 & 17 \\ 6 & 15 & 53 & 12 & 17 & 36 & 18 & 19 & 09 & 24 & 20 & 29 \\ \end{bmatrix} $	
▶ First Quarter, 6th day, 1 h. 59 m., morn	ning, E.
○ Full Moon, 13th day, 10 h. 52 m., morn	ing, E.
	ing, E.
• New Moon, 28th day, 8 h. 00 m., evenin	
KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH The set of the set o	
Image: Constraint of the sector of the se	$\begin{array}{c c} \begin{array}{c} \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ $
305 1 Th. 6 16 L 4 39 F 10 23 32 - 0 5 M 45 B	$1_{M}^{P}24 SGR 2$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} 2 & 28 & \mathrm{SGR} & 3 \\ 3 & 32 & \mathrm{CAP} & 4 \end{array}$
3°7 3 Sa. 6 19 L 4 37 F 10 18 32 1 $\frac{1}{4}$ 1 $\frac{3}{4}$ 7 50 B 3°8 4 S. 6 20 M 4 35 E 10 15 32 2 $\frac{1}{4}$ 2 $\frac{1}{2}$ 9 08 C	$\begin{array}{c} 3 \ 32 \ \text{CAP} \\ 4 \ 34 \ \text{CAP} \\ 5 \end{array}$
309 5 M. 6 21 M 4 34 E 10 13 32 $3\frac{1}{4}$ $3\frac{1}{2}$ 10 26 D	5 31 AQR 6
310 6 Tu. 6 22 M 4 33 E 10 11 32 $4\frac{1}{4}$ $4\frac{3}{4}$ $11_{\text{M}}^{\text{P}42}$ F 311 7 W. 6 24 M 4 32 E 10 08 32 $5\frac{1}{2}$ $5\frac{3}{4}$	6 24 AQR 7 7 12 PSC 8
312 8 Th. 6 25 M 4 31 E 10 06 32 $6\frac{1}{2}$ $6\frac{3}{4}$ $12\frac{55}{4}$ G	7 12 PSC 8 7 58 PSC 9
313 9 Fr. 6 26 M 4 30 E 10 04 32 $7\frac{1}{2}$ 8 2 05 I	8 43 ARI 10
	9 27 A RI 12 0 12 TAU 13
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318 14 W. 6 32 M 4 24 E 9 52 31 $11\frac{1}{4}11\frac{3}{4}$ 4 ^p _M 37 B 319 15 Th. 6 34 M 4 24 E 9 50 31 — 0 5 20 B 1	- $ -$
	2 _м 40 G'м 16 1 32 G'м 17
321 17 Sa. 6 36 M 4 22 E 9 46 31 $1\frac{1}{4}$ $1\frac{1}{4}$ 7 09 B	$2\ 24\ \mathrm{cnc}\ 18$
322 18 S 6 37 N 4 21 D 9 44 31 2 2 8 11 C 323 19 M. 6 39 N 4 20 D 9 41 30 $2\frac{3}{4}$ $2\frac{3}{4}$ 9 15 D	3 14 CNC 19
323 19 M. 6 39 N 4 20 D 9 41 30 $2\frac{3}{4}$ $2\frac{3}{4}$ 9 15 D 324 20 Tu. 6 40 N 4 20 D 9 40 30 $3\frac{1}{2}$ $3\frac{3}{4}$ 10 19 E	4 03 CNC 20 4 48 LEO 21
323 19 M. 6 39 N 4 20 D 9 41 30 $2\frac{3}{4}$ $2\frac{3}{4}$ 9 15 D 324 20 Tu. 6 40 N 4 20 D 9 40 30 $3\frac{1}{2}$ $3\frac{3}{4}$ 10 19 E 325 21 W. 6 41 N 4 19 D 9 38 30 $4\frac{1}{4}$ $4\frac{1}{2}$ $11\frac{p}{M}24$ G 326 22 Th. 6 42 N 4 18 D 9 36 30 $5\frac{1}{4}$ $5\frac{1}{2}$ — —	5 32 Leo 22
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$329\ 25\ \text{S}_{-}\ 6\ 46\ \text{N}\ 4\ 16\ \text{D}\ 9\ 30\ 29\ 7\frac{3}{4}\ 8\ 2\ 43\ \text{K}$	8 24 LIB 26
$33 \circ 26$ M. 647 N 416 D 92929 $8\frac{1}{2}$ 9 356 L	9 13 sco 27
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 07 sco 28 1 ^A 06 sgr 29
33329 Th. 650 N 414 D 92428 $10\frac{3}{4}11\frac{1}{2}$ 4.26 A 1	$2_{\rm M}^{\rm p}10$ SGR 29 $2_{\rm M}^{\rm p}10$ SGR 1
	$1_{\rm M}^{\rm p}17$ CAP 2

NOVEMBER hath 30 days.

The singer, being such As loves the naming word, The singlng name of things That's nearly sight and tonch, Now, naked and absurd, Sits in his lack, and sings.

D. W

Aspects, Holidays, Heights of High Water, Weather, etc.

Farmer's Calendar.

1951

All Saints Day, $\[mathscreek]{\Delta ph}$ 1 Th. There's **{**11.1 JGr. Hel. 9in Q Winant Suicide Tic $\overline{2}$ C Peri, Clow. Fr. 3 Tides { 9.4 hills in Sa. 1947 24th S.a.T. Hol. Okla. { 9.1 10.5 4 C them Tides { 8.9 5Fawkes М. there Dav 6 Τu Tides $\begin{cases} 8.7 \\ 9.7 \end{cases}$ Election Day. hills. Tippecanoe Tides $\begin{cases} 8.8\\ 9.4 \end{cases}$ 7W. MilderNo. Dakota Storm, 1945 Bangor St. John Tides $\begin{cases} 9.0\\ 9.3 \end{cases}$ 8 Th. and Tides {9.4 9 Fr. dandy R.R. Began, 1865 Oliver Goldsmith Born, 1728 9.7 10Sa. but 64C 9.4 26th S.a. P. Armistice Day f10.1 11 M. keep 9.4 S.S. Vestris Tides $\begin{cases} 10.3\\ 9.3 \end{cases}$ 12Disaster, 1928 Indian Summer yourTides 10.4 13Tu. coat begins 14 W. 15 Th. Tides 10.3 No Society Fd., 1823 U.S.A. Recognized U.S.S.R., 1933 Eli Terry Clock Patent, 1794 16 Fr. **⊄**runs high Indian Sa. 17ა მ **ແ** summer 26th S.a.T. € Apo. (8.3 18 G this "Man With Iron Mask" Died, 1703 Prestwick Air Tides $\begin{cases} 8.1\\ 91 \end{cases}$ 19 M. year, 20Tu. Tides {8.0 coldTragedy, 1948 Mayflower $\mathcal{U}_{\mathrm{Peri}}^{\mathrm{in}}$ $\mathbf{21}$ W. 692 weather Compact Gr. Hel. ${8.2 \\ 8.5}$ 22Th. Thanksgiving ğ is Lat. S. Prof. Webster k. Dr. Parkman, 1849 {8.5 8.5 23Hol. Fr. here. Md. 33 € [25th 3h € 39 € 3¥ €] $\mathbf{24}$ Sa. 27th a. C. Bad 25G 28thS.a.P. 1st Boston Salem Phone, 1876 S. S. Portiand Lost 1898 {^{10.0} 9.1 26М. storms at Tides {10.5 9.3 27Tu. sea¥Gr. El. Mercury now Evening Star $\mathbf{28}$ W. are quite E. 29 Th. Gen. Arnold Outside Quebec, 1775 62Ψ likely. 30 Fr. St. Ald. 6 \$ C 2 in R.A. C Peri. Clow. It is the sick oyster which produces the pearl.

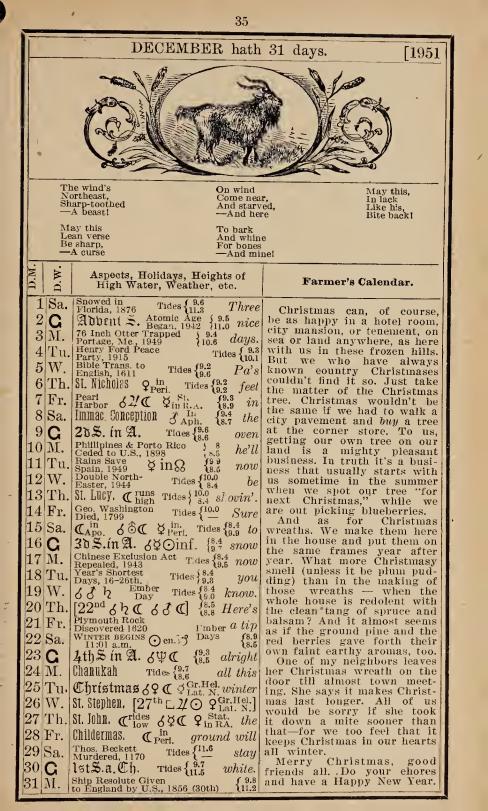
Sometimes this month is called "Octembruary"--and it not entirely a is facetious name-for it is a month of startling changes that can leap \mathbf{from} Indian summer into winter and days mid combines, indeed, the qualities of four months. The fine old Currier and Ives print-"Home For Thanksgiving" is a snow scene crisp and blue and white-the old homestead, the sleigh and frosty horse bringing back the son and daughter-in-law and the petticoated youngster.

But November at its best on the farm is made up of those days when the frost is not yet in the ground and the farmer may still be at constructive ground work. Certainly not too late for "stone" work—building of walls or the removing of them—and an ideal time for the use of bulldozers in removing walls and brush around the orchards. Get out what manure you can.

Though spring is generally considered the best time for transplanting of trees and shrubs, it may well be done now if the condition of the ground is suitable.

Begin to get ready for the winter's lumbering, if you plan to do any. Look to your barns and henhouse that all is ship-shape and weathertight. There will always be something left undone in the orchard—apple drops to plck up and stray boxes and maybe a ladder or two that have been overlooked. Sharpen up the axes and saws and get ready for the woodlot.

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1001	EMBER, T			
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$ \begin{bmatrix} 8 \\ 6 \\ 22 \\ 28 \end{bmatrix} \begin{bmatrix} 5 \\ 12 \\ 12 \\ 12 \end{bmatrix} $		$ \begin{array}{c cccccccccccccccccccccccccccccccc$		$\begin{bmatrix} 25 & 15 \\ 23 & 12 \end{bmatrix}$
▶ First Quart	er, 5th day	11 h. 20 n	n., mornir	ng, E.
· · · · · · · · · · · · · · · · · · ·	13th day, 4			
	er, 21st day,		-	
KEY LETTERS R	, 28th day, (1
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				23 AQR 4
337 3 M. 655 N 4		$6 \ 2 \ 2^{\frac{1}{4}} \ 9$		19 AQR 5
338 4 Tu. 6 56 N 4 339 5 W. 6 57 N 4		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\begin{array}{c c} 0 & \text{PSC} & 6 \\ 57 & \text{PSC} & 7 \end{array}$
340 6 Th. 658 N 4			MA	2 ARI 8
341 7 Fr. 659 04		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		CARI 9
342 8 Sa. 700 0 4 343 9 S 700 0 4	12 c 9 12 2 12 c 9 12 2	2		0 A RI 10 6 TAU 11
344 10 M. 701 04			30 N 94	$4 \operatorname{Tau} 12$
345 11 Tu. 7 02 0 4			EL L	4 G'м 13
346 12 W. 703 0 4 347 13 Th. 704 0 4			$ \frac{140}{\text{ses}} = \frac{11 \text{p}^2}{-11 \text{m}^2} $	26 G'м 14
348 14 Fr. 705 04	13 c 908 2	$1 11\frac{1}{2} -5$	$_{M}^{P}01$ b $12_{M}^{A}1$	8 CNC 15
				9 CNC 16
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352 18 Tu. 707 04	14 c 907 1	$9 2\frac{1}{4} 2\frac{1}{4} 9$	12 F 3 2	28 LEO 19
353 19 W. 708 0 4 354 20 Th. 709 0 4				0 VIR 20
355 21 Fr. 709 04	15 c 906 1 15 c 906 1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{19}{19}$ 1 4 5 5 3	51 VIR 21 32 VIR 22
356 22 Sa. 7 10 04	16 c 906 1	$7 5\frac{1}{4} 5\frac{3}{4} 12$	$A_{\rm M}^{\rm A}24$ J 6 1	5 LIB 23
357 23 S -7 10 0 4 358 24 M. 7 11 0 4		$egin{array}{c c c c c c c c c c c c c c c c c c c $		0 LIB 24 50 sco 25
359 25 Tu. 7 11 0 4				$5 \operatorname{sco} 25$ $5 \operatorname{sco} 27$
360 26 W. 7 11 0 4	18 c 907 1	$5 8\frac{3}{4} 9\frac{1}{4} 5$	• 22 р 94	$17 \operatorname{sgr} 28$
361 27 Th. 7 12 0 4 362 28 Fr. 7 12 0 4		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} \mathbf{\hat{h}}_{M}^{A}38 & \mathbf{\hat{p}} & 10_{M}^{A}38 \\ \mathbf{\hat{e}}ts & -12_{M}^{\mathbf{p}} \end{array}$	53 sgr 29 10 cap 0
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365 31 M. 7 13 0 4	22 c 909 1	$3 1 1^{1}_{4} 8$	$\mathbf{S}_{\mathbf{M}}^{\mathbf{P}}27 \in 3_{\mathbf{M}}^{\mathbf{P}}27$)1 AQR 3



OUTDOOR PLANTING TABLE

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. clevation above sea level. The "Moon Most Favorable" columns give the superstitious times when the phase of moon is "Right" for the crop indicated.

	42°21′	44″	1 39°56′		33°45′	
	Boston L	atitude	Phila. La	titude	Atlanta L	atitude
GDAD	Plant Anytime Between Dates	Moon Most Favorable	Plant Anytime Between Dates	Moon Most Favorable	Plant Anytime Between Dates	Moon Most Favorable
CROP Barley	Below May 15-Jun 21	Between May 15-20	Below Mar 15-Apr 7	Between Mar 7-22	Below Feb 15-Mar 7	Between Feb 15-20
Beans (Early) (Late)	May 7-Jun 21 Jun 15-Jul 15	May 15-20 Jun 15-18	Apr 15-30 Jun 1-21	Apr 15-20 Jun 12-18	Mar 15-Apr 7 Aug 7-30	Mar 15-21 Aug 10-16
Beets (Early) (Late)	May 1-15 Jul 15-Aug 15	None Jul 18–24	Mar 1 5- Apr 30 Jul 15-30	Mar 23-29 Jul 18-24	Feb 7-28 Aug 7-30	Feb 21-28 Aug 17-23
Broccoli (E) . (Late)	May 15-30 Jun 15-Jul 7	None None	Mar 7-30 Aug 1-20	Mar 8-14 Aug 2-9	Feb 15-Mar 15 Sept 7-30	Sept 1-7
Brussels Spr.	May 15-30	None	Mar 7-Apr 15	Mar 8-14	Feb 11-Mar 20	Feb 7 -1 2
Cabbage (E) (L)	May 1 5- 30 Jun 7-Aug 7	None Jun 7-1 1	Mar 7-Apr 15 Jun 1-Jul 7	Mar 8-14 Jun 4-10	Feb 7-Mar 20 Jul 15-30	Feb 7-12 None
		May 21-26 Jun 19-25	Mar 7-31 Apr 7-May 30	Mar 23-29 Apr 21-27	Feb 15-Mar 7 Aug 1-Sept 7	Feb 21-27 Aug 17-24
	June 15-Jul 21	None Jul 4-10	Mar 15-Apr 7 Jun 1-Jul 7	Apr 6-7 Jun 4-11		Aug 11-16
	May 15-Jun 30 Jul 15-Aug 15	Jun 4-11 Aug 2-9	May 7-30 Jun 15-Jul 7	May 7-13 Jul 4-7	Apr 15-30	None
(Late)		Jun 15-18	Mar 15-30 May 7-Jun 21	Mar 15 May 14-20		Feb 15- 20 Aug 17-23
Cucumber		May 7-13	Apr 7-May 15	Apr 7-13	Mar 7-Apr 15	Mar 7-14
		Jun 12-18	Apr 7-May 15	Apr 14-20	•	Mar 7-14
Endive (Early) (Late)	May 15-30 Jun 7-30	None Jun 7-10	Apr 7-May 15 Jul 15-Aug 15	Apr 7-13 Aug 2-9	Feb 15-Mar 20 Aug 15-Sept 7	Aug 2-9
Kale (Early) (Late)	May 15-30 Jul 1-Aug 7	None Jul 4-10	Mar 15-Apr 7 Jul 15-31	Mar 15 None	Feb 15-Mar 7	Sept 1-7
Leek	May 15-30	None	Mar 7-Apr 7	Mar 7-15	Feb 15-Apr 15	
Lettuce	May 15-Jun 30	Jun 4-11	Mar 1-31	Mar 7-14	Feb 15-Mar 7	
	May 15-Jun 30		Apr 15-May 7	-	Mar 15-Apr 7	Mar 15-20
Onion			Mar 1-31	Mar 23-29	Feb 1-28	Feb 21-27
Parsley		None	Mar 1-31	Mar 7-14	Feb 20-Mar 15	
Parsnip	Apr 1-30	Apr 21-27	Mar 7-31			Jan 22-30
Peas (Early) (Late)		Apr 14-20 Aug 15-16	Mar 7-31 Jul 7-31	Jul 11-17	Aug 15-30	Jan 15-20 Aug 10-15
Pepper	May 15-Jun 30		May 1-31		Apr 1-20	Apr 14-20
Pumpkin Potatocs	May 15-30 May 15-30	May 15-20 May 21-26	Apr 23-May 15		*	Apr 14-20
Radish (Early)		Apr 21-26	Apr 7-May 30 Mar 7-31	Apr 21-27 Mar 23-29		Jan 22-30 Jan 22-30
(Late)	Aug 15-30	Aug 17-24	Aug 7-31	Aug 17-24	Sept 1-21	Sept 15-21
		None Aug 2-9	Mar 15-Apr 20 Aug 1-Sept 15	Aug 2-9	Feb 7-Mar 15 Sept 1-21	None
Swiss Chard	May 1-30	May 5-13	Mar 15-Apr 15		Feb 7-Mar 15	
Summer Squ	May 15-Jun 15 May 15-20		Apr 15-May 15		Mar 15-Apr 15	
Tomato Turnin (Farly)	May 15-30	May 15-20	Apr 7-30	Apr 14-20	Mar 7-20	Mar 15-20
		Apr 21-27 Jul 18-24	Apr 7-30 Aug 1-20	Apr 21-27 Aug 17-20	Jan 20-Feb 15 Sept 1 -Oct 15	Jan 22-29 Sept 15-20
	Oct 7-30. Apr 7-30	Oet 7-13 Apr 7-20	Sept 15-Oct 20	Oct 1-20	Oct 15-Dec 7	Nov 1-12

"ABSORBINE kept my horse at work"

37

SAYS MARTIN PAUL of Pewee Valley, Kentucky

"I thought my horse would be laid up for a week with shoulder gall 'til I tried Absorbine. It helped give relief in a few hours. I'd recommend Absorbine to any farmer like myself."



AND NORWOOD ANDREWS of Moorestown, N. J., says:



"I can't afford to have my horse laid up.

"Whenever I see any signs of lameness on my horses, I use Absorbine for relief. I'm sure it saved me many working hours in the past ten years."

Yes, there's nothing like Absorbine for lameness due to shoulder gall, strains, puffs, bruises. Absorbine is not a "cure-all," but a time-proved help in relieving fresh bog spavin, windgall, collar gall, and congestive troubles.

A stand-by for over 50 years, it's used by many leading veterinarians. Will not blister or remove hair. Only \$2.50 a long-lasting bottle at all druggists.

W.F. Young, Inc., Springfield, Mass.

FOR FORTY DAYS AND NIGHTS

Psychologists agree that in thoughts, as well as actions, we earth people of 1951 are motivated to a large degree (perhaps 70%) by the past. The palsy, for example, is seen as the continuous exercise we once undertook as fishes to keep ourselves afloat. In thought, not the least tenacious and frequent outcropping of legend is seen in our arbitrary acceptance of "forty days" for Lent, the rainy or dry period after St. Swithin's Day, et al.

Upon occasion, the Aztecs - as well as most ancient and honorable civilizations - divided the year into forty day cycles. Hesiod, in the Sthe century B.C., proclaimed the disappearance of the Pleiades for forty days and nights as the law of all mankind. There are too many Biblical and other historical references to this forty day period for us, just because we can not explain these, to dismiss them as old wives tales.

In our estimate an observer at about 42 degrees North or South Latitude might easily conclude the forty day cycle as one which makes excellent weather forecasting sense. It has, apparently, a definite relation to the obliquity of the sun's rays upon the earth and to the temperatures of the earth's atmosphere—the chief cause of weather.

At the Equator, stable temperatures produce even weather. The winds come steadily from given directions. The rainy season is predicted successfully almost to the minute.

We, at forty-two degrees North could forecast our weather accu-rately, too, could we determine our normal atmospheric temperatures for any given obliquity of the sun's rays. The accumulated excess or deficiency heat and cold figures from the normal would go far to determine what might be expected in the way of a balancing weather operation by Mother Nature.

The principle is simple and well understood. Precipitation. storms, weather extremes, are Nature's way of maintaining temperature balances. As the Sun leaves us in the Fall, the cooling of our atmosphere brings on bad weather. As it returns to us in the Spring, the warming process does likewise. The apparent "Lag" — or period of adjustment, which is allowed to our atmosphere for catching up with the Sun seems to be approximately forty days.

Our observer, then on the fortieth parallel might arrive at certain definite weather conclusions:

- 1. That severe "surprise" weather extremes, such as hurricanes and blizzards, are to be looked for only in two of nine seasons. 2. That the forty day legend at Groundhog Day (Feb. 2), at St.
- 2. That the forty day legend at Groundhog Day (Feb. 2), at St. Swithin's Day (July 15), at Christmas, and at St. Paul's Day (Jan. 25th) are based on the fact that seasons actually do begin very close to those particular days.
- 3. That the ancients - as well as ourselves - have some basis in That there is some reason to believe that weather can be foretold
- in the equation between atmospheric temperatures and the obliquity of the sun's rays.
- 5. That actual weather records along the fortieth parallel actually prove nine seasons a far more accurate measure of weather than do the present zodiacal four seasons which in most places are no measure at all.

A tabulation which an observer might make of the nine seasons along the fortieth parallel — and certain weather extremes which have occurred within these seasons — follows. North or South of the fortieth parallel one would expect these seasons to be fewer in number and of different lengths.

THE NINE SEASONS

- 1. SPRING. May 1 to June 10.
- 2. EARLY SUMMER, June 11 to July 15. 3. SUMMER, July 15 to September 1. (Heat and storm records occasional.)
- EARLY FALL, September 2 to October 15, Sept. 8 to 16, 1944. Great Atlantic Hurricane, Sept. 17 to 21, 1938. New England Hurricane. 1815. New England Hurricane.
- FALL, October 16 to November 20.
 EARLY WINTER, November 21 to December 25.
- 7. WINTER. December 26 to February 1. (Cold and snow records occasional.)

	· · · · ·			
ECLIPS	E TABLE ((Continued fro	m page 5)	1
	Eclipse	Middle of	Magui-	Eclipse
	begins	eclipse	tude	ends
Ann Arbor, Mich.	Der damm	Eastern Stand		
Atlanta, Ga.	Pre-dawn	Pre-dawn	$(0.79)^*$	7.06 A.M.
Cambridge, Mass,		0.00 4.34	$(0.75)^*$	7.03 A.M.
Charleston, W.Va.		6.02 A.M.	0.83	7.12 A.M.
Cleveland, Ohio	66	6.00 A.M.	0.92	7.05 A.M.
Columbia, S.C.	66	6.01 A.M.	0.90	7.06 A.M.
Now Vorle NV		Pre-dawn	$(0.91)^*$	7.04 A.M.
New York, N.Y.		6.01 A.M.	0.87	7.10 A.M.
Orono, Me. Philadalphia Da	5.01 A.M.	6.04 A.M.	0.81	7.14 A.M.
Philadelphia, Pa.	Pre-dawn	6.01 A.M.	0.89	7.09 A.M.
Raleigh, N.C.		5.58 A.M.	0.95 (7.06 A.M.
Richmond, Va.	••	5.59 A.M.	0.96	7.07 A.M.
Tallahassee, Fla.	**	Pre-dawn	(0.91)*	7.03 A.M.
Washington, D.C.		6.00 A.M.	0.92	7.07 A.M.
		Central Stands	ard Time	
Evanston, Ill.	Pre-dawn	Pre-dawn	$(0.71)^*$	6.05 A.M.
Greencastle, Ind.		"	(0.74)*	6.04 A.M.
Iowa City, Iowa	44	6.6	$(0.49)^*$	6.04 A.M.
Jackson, Miss.	44	4.6	(0.39)*	6.02 A.M.
Kansas City, Mo.	44	6.6	(0.26)*	6.04 A.M.
Little Rock, Ark.	66	66	(0.32)*	6.02 A.M.
Louisville, Ky.	44	66	(0.79)*	6.04 A.M.
Madison, Wis.		64	$(0.62)^*$	6.05 A.M.
Minneapolis, Minn.	66	66	$(0.43)^*$	6.04 A.M.
Nashville, Tenn.	44	÷ 6	(0.68)*	6.03 A.M.
New Orlcans, La.	44	**	$(0.34)^*$	6.00 A.M.
Tuscaloosa, Ala.	44	6.6	(0.57)*	6.02 A.M.

* Magnitude at sunrise; mid-eclipse before sunrise.

OCCULTATIONS, 1951

There will be three occultations visible to naked eye observers during 1951, although only one of them, that of Regulus (P Leonis) on June 11, occurs under truly favorable circumstances for a selected group of observers. The other two will test the observer's power in one or another respect.

will test the observer's power in one or another respect. The occultation of Regulus on June 11 will begin at approximately 8.20 P.M. E.S.T. for observers in the Eastern Standard Time belt; the exact time will depend upon the observer's geographical location. Observers along the Atlantic coast will find observation aided by a darker post-sunset sky than observers further west.

find observation aided by a darker post-sunset sky than observers further west. A second occultation of Regulus, this time by the bright limb of the moon and hence less easy to observe with the naked eye, will be visible to most observers in the Central Standard, Mountain Standard and Pacific Standard Time zones on October 25. The occultation will begin shortly after 5.30 P.M. C.S.T., 4.30 P.M. M.S.T. and 3.30 P.M. P.S.T., the exact moment depending upon the observer's location.

An occultation of the Planet Venus will test naked eye observers west of the Eastern Standard Time belt. For them this occultation on February 7 will begin before the sun sets and while Venus and the Moon are not far distant from the sun in the sky. For such observers the occultation will begin some time after 3.45 P.M. C.S.T., 2.45 P.M. M.S.T. and 1.45 P.M. P.S.T. Observers in the north-eastern part of the United States will have better luck. For them the occultation begins at approximately 6 P.M. E.S.T., just a few moments before the planet-sets and approximately one hour after sunset.

EARTH IN PERIHELION AND APHELION, 1951

The Earth will be in Perihelion on January I, 11 P.M., distant from the Sun 91,345,000 miles. The Earth will be in Aphelion on July 4, 4 P.M., distant from the Sun 94,456,000 miles.

THE NINE SEASONS (Continued from page 38)

LATE WINTER, February 2 to March 15, Feb. 9, 1934, Boston low record — 18 deg. (Also Feb. 15, 1817), 1933, U.S. Record low at Yellowstone Park, Wyoming, of 66 below, Feb. 16, 1933, Turners Falls, Massachusetts record low of 30 below, Feb. 24, 1723. Highest tide Boston ever had, Mar. 3, 1907, Nantucket icebound, Mar. 11, 1888, Famous blizzard began with 20.9 inches of snow.
 FALSE SPRING, March 16 to April 30.

	M	TOP	VELL	CIEI	A W/S	- 1950		
		JIOK aurtesy: A				-		
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	Speed	licensc	license*				Safety	Certifi-
	limit	plates	Mini-	Gaso-	Percent	D • 1	respon-	
Charles 1	(R-rea-	can be	mum age**	line	sales tax	Period of stay ¹	sibility law	title required
State	sonable)	used		tax	-			no
Alabama Arizona	R 60	Oct. 1 Dec. 15	$\frac{16}{18}$	\$.06 .05	$\frac{1/2^2}{2}$	Reciprocal	yes yes	yes
Arkansas	55	Jan. 1	18	.065	$\tilde{2}$	90 days	no	yes
California	55	Jan. 1	16	.045	3	3	yes	yes
Colorado	60	Onissue	16	.06	2	Reciprocal	yes	yes
Connecticut	45	Feb. 15	16	.04	2	Reciprocal	yes	110 1102
Delaware	55 25	Mar. 1	$\frac{16}{16}$	$.04 \\ .04$		Reciprocal Reciprocal	yes yes	yes yes
D. C Florida	20 60	Dec. 1	16	.04		Reciprocal	yes	yes
Georgia	55	Jan. 1	16	.07		30 days	yes	no
Idaho	R	Jan. 1	16	.06		Reciprocal	yes	yes
Illinois	R	Dec. 1	15	.03	2	Reciprocal	yes	yes
Indiana	R	Jan. 3	16	.04	$\frac{\cdots}{2}$	60 days	yes	yes no
Iowa	R R	Dec. 1 Jan. 1	$\frac{16}{16}$	$.04 \\ .05$	$\frac{2}{2}$	Reciprocal Reciprocal	yes yes	yes
Kansas Kentucky	45	Dec. 29	16	.07		Reciprocal	yes	6
Louisiana	$\vec{60}$	Jan. 1	15	.09	2	Reciprocal	no	no
Maine	45	Dec. 25	15	.06		Reciprocal	yes	no
Maryland	50	Mar. 15	16	.05	2	Reciprocal	yes	yes
Massachusetts	R	Jan. 1 Dec. 1	16	$.03 \\ .03$	3	Reciprocal		no
Michigan Minnesota	R 60	Dec. 1 Nov. 1	$\frac{16}{15}$.03 .05	ວ 	90 days Reciprocal	yes yes	yes no
Mississippi	55	Nov. 1	17	.06	1	3	no	no
Missouri	Ř	On issue	16	.02	$\overline{2}$	Reciprocal	yes	yes
Montana	50	Jan. 1	15	.06		30 days	yes	yes
Nebraska	60	Jan. 1	$15^{1}/_{2}$.06	• • •	3 NT - 11	yes	yes
Nevada	$\begin{array}{c} R\\ 50 \end{array}$	Dec. 15 Mar. 1	$\frac{16}{16}$	$.055 \\ .04$	•••	No limit Reciprocal	no yes	yes no
New Hampshire New Jersey	40	Mar. 1 Mar. 1	17	.03		Reciprocal	yes	yes
New Mexico	R	On issue	14	.07	1	90 days	yes	yes
New York	50	Jan. 1	18	.04		Reciprocal	yes	no
North Carolina	55	Dec. 1	16	.07	311	Reciprocal	yes	yes
North Dakota.	50	On issue	16	.06	$\frac{2}{3}$	Reciprocal	yes	yes
Ohio Oklahoma	$\begin{bmatrix} 50 \\ R \end{bmatrix}$	Mar. 1 Dec. 11	$\frac{16}{16}$	$.04 \\ .065$	$\frac{3}{2}$	Reciprocal 60 days	yes yes	yes yes
Oregon	55	Dec. 15	16^{10}	.000		Reciprocal	yes	yes
Pennsylvania	50	Mar. 15	18	.05		Reciprocal	yes	yes
Rhode Island	35	Mar. 1	16	.04	1	Reciprocal	yes	no
South Carolina.	55	Sept. 1	14	.06		90 days	no	no
South Dakota .	60 R	Jan. 1 Mar. 1	$\frac{15}{16}$.04 .07	$\frac{2^{12}}{2}$	90 days	yes	yes 6
Tennessee Texas	60 K	Feb. 1	16	.07	1	30 days Reciprocal	yes no	yes'
Utah	60	Dec. 15	16	.04	2	Reciprocal	yes	yes
Vermont	50	Mar. 1	$\hat{1}\hat{6}$.05		Reciprocal	yes	no
Virginia	50	Mar. 15	15	.06	3	6 mos.	yes	yes
Washington	50	Nov. 15	16	.065		Reciprocal	yes	yes
West Virginia.	50 R	June 20 On issue	$\frac{16}{16}$	$.05 \\ .04$		90 days	yes	yes
Wisconsin Wyoming	60 R	Dec. 1	$10 \\ 15$.04	2	Reciprocal 90 days	yes yes	yes yes
- young	00	2000 1	10	.01		ou days .	903	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 secare 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.

²None on used cars.

³Until expiration of home registration.

⁴Three months before current registration expires.

⁵Use tax on new cars, first registration of used cars.

⁶Bill of sale must be filed.

^sPermit showing compliance with state compulsory liability insurance law must be obtained after 30 days.

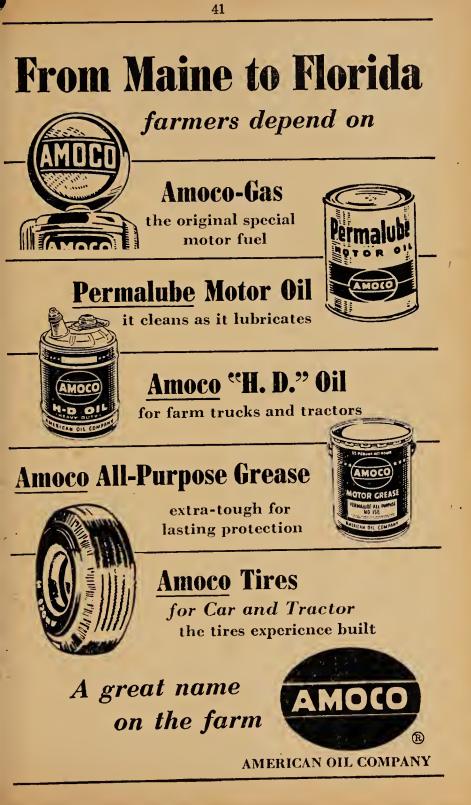
⁹State has compulsory insurance.

11\$15 maximum.

¹²Registry tax on first registration in state.

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

**Only states not requiring examinations for drivers licenses are Idaho, Missouri, and N. Dakato.



DIGEST OF LATEST AVAILABLE FISH AND GAME LAWS

Open seasons include both dates, "Rabbit" includes "hare"; "quail" includes "partridge" in South; "grouse" includes Canada grouse, sharptailed, ruffed (known as partridge in North and pheasant in South) and other members of family except prairie chickens ptarmlgan and sage hen. As many states do not complete laws for 1951 until after our press date, VERIFY in every case for changes even though the changes from year to year are not as a rule sensational. Limits are daily except those in italics which are seasonal.

o⁷ males only. *†* local exceptions. *‡* non-resident exceptions. *#* Pounds.

State and Specles	s Seasons	Limits, Season	State and Species	Seasons	Limita. Season
Alabama Deer Rabbit Squirrel Muskrat (fur),	Nov. 25-Jan. 1 † 57 Oct. 16-Feb. 20 {N-Oct. 16-Jan. 1 S-Oct. 30-Jan. 15		Rabbit	Not set Oct. 15-Dec. 31 May 25-Oct. 31 ft. open all year)	3 5 20
Otter Quail Tnrkey Bass White. bass Bream Crappie, wh. pch. Jack Salmon Weye pike	Nov. 20-Jan. 31 Nov. 25-Feb. 20 Nov. 25-Jan. 1 σ^3 † No closed season No closed season No closed season No closed season No closed season No closed season	8 5 10 15 30 20 10 15	Squirrel Quail Pheasant d ⁷ Grouse Trout Lake trout Pickerel	Nov. 1-Dec. 31 Oct. 15-Nov. 26 Dates not set Oct. 15-Nov. 26 Oct. 15-Nov. 26 Apr. 16-July 15 Apr. 16-Fug. 31 Apr. 16-Feb. 9	30 30 18 15 15 10 3 6
Alaska Deer Moose Bear, br. & grz. Bear, black Bear, other Caribou Mountain goat	Sept. 10-Nov. 1034 Sept. 1-Oct. 20 34 Sept. 1-June 204 No closed season Sept. 1-June 30 Aug. 20-Sept. 204 Aug. 20-Nov. 15	3 2 1‡	Wall-eye Bass, black Bass, striped Perch Salmon, sockeye Shad Alewives	Apr. 16-Feb. 9 Apr. 16-Oct. 31 Apr. 16-Feb. 9 Apr. 16-Feb. 9 Apr. 16-Aug. 31 Apr. 16-July 15 Mar. 1-May 31	$ \begin{array}{c} 6 \\ 10 \\ 10 \\ 15 \\ 5 \end{array} $
Mountain sheep Rabbit Grouse & Ptar'g'n Trout & grayling Arizona	No open season No closed season† Aug. 20-Feb. 28 † agg. †	$\begin{array}{c} 1 \\ 1 \\ 1 \\ 2 \\ 0 \\ \hline \end{array}$	Delaware Rabbit Squirrel Quail Pheasant Bass Pike, pkl.,	Nov. 15-Dec. 31 Sept. 15-Nov. 1 Nov. 15-Dec. 31 Nov. 15-Dec. 31 o ³ June 25-Feb. 1	
Elk Deer Rabblt	Nov. 17-30 By permit Dec. 15-Jan. 31	$\begin{array}{c}1\\1\\6\end{array}$	w. eyed pike Trout	June 25-Mar. 1 Apr. 16-Aug. 15	6 6
Javelina Turkey Trout Bass Bluegill Chan. Catfish	Mar. 1-31 Oct. 9-13 May 24-Sept. 30† No closed season No closed season No closed season	$ \begin{array}{c} 1 \\ 15 \\ 10 \\ 20 \\ 10 \\ 10 \end{array} $	Florida Deer, male Squirrel Quail Turkey Bass, black	Nov. 22-Jan. 5† 3 Nov. 22-Feb. 1† Nov. 22-Feb. 1† Nov. 22-Feb. 1† No closed season No closed season	$ \begin{array}{c} 2 \\ 12 \\ 10 \\ 4 \\ 8 \\ 20 \end{array} $
Arkansas Deer	{Nov. 8-12 † ♂ (Dec. 13-18 † ♂	1	Bream, perch Tarpon Georgia	No closed season No closed season	20
Squirrel Quail Turkey Bass Trout Pike, Jack salmon Bream, perch	Dec. 13-18 † 5 Oct. 1-Dec. 31 Dec. 1-Jan. 15 Closed May 16-Mar. 16 May 16-Oct. 31 No closed season No closed season	8 6 6 20	Deer Bear Squirrel Quall Grouse Turkey Rabbit	Nov. 10-25 3 Nov. 20-Feb. 15 † Nov. 1-Jan. 5 Nov. 25-Feb. 25 Nov. 20-Jan. 15 Nov. 15-Feb. 15 † Nov. 15-Feb. 15 † Nov. 1-Feb. 25 Qct. 1-Feb. 15	$ \begin{array}{c} 1 \\ 10 \\ 15 \\ 3 \\ 2 \\ 8 \end{array} $
California Deer Elk Antelope Bear	Local seasons Dec. 2-11 Aug. 27-Sept. 5 5 Oct. 1-Dec. 31 †	2 1 1	Opossum Bass, striped Bass, black Bass, rock Bass, Ky. or r	No closed seasont No closed seasont No closed seasont	$\begin{array}{c}10\\10\\10\end{array}$
Rabblt Quail Pheasant Trout (exc. gldn) (Sp. wntr seas.) Trout, golden	Nov. 18-Dec. 31 Nov. 18-Dec. 31 Nov. 18-27 7	$\frac{2}{15}$ 16 10 15 15 2#	eye Bream, perch Crappie Pickerel Wall-eyed pike Muskellunge Trout	No closed seasont No closed seasont No closed seasont No closed seasont No closed seasont No closed seasont Apr. 1-Nov. 15t	$ \begin{array}{r} 10 \\ 25 \\ 15 \\ 15 \\ 3 \\ 2 \\ 10 \\ \end{array} $
Salmon Bass, black Bass, striped	July 1-Sept. 30† Apr. 29-Oct. 31 May 20-Oct. 31 † No closed season	511	Idaho Moose		
Bear	Opens Oct. 15 Not set	1 1 1 8	Deer, elk Antelope Quall Pheasant Hun. partridge Sage hen	By permit Oct. 5-31 By permit Oct. 29-Nov. 27 Oct. 29-Nov. 27 Oct. 29-Nov. 27 Sept. 17-18	$ \begin{array}{c} 1 \\ 1 \\ 5 \\ 2 \\ 5 \\ 2 \end{array} $

		_			
Idaho (cont.) Grouse, other	Oct. 7-9 Oct. 29-Nov. 27		Strlped bass	No closed seasou No closed season	$ \begin{array}{c} 15 \\ 15 \\ 15 \end{array} $
Pheasant Rabblt Trout	Oct. 29-Nov. 27 Oct. 1- Jan. 31 June 4-Oct. 31		Crapple Rock bass Muskellunge	No closed season No closed season	15
Black Bass	No closed season No closed season	10	Louisiana		
Sturgeon Bass (l-mouth)	No closed season	10	Deer Bear	Nov. 15-Jan. 10† Closed	2
Crappie, Perch. Sunfish	No closed season	$25 \\ 1$	Rabblt Squirrel	Oct. 15-Feb. 15 Nov. 15-Jan. 15	5 10
Bass (s-mouth) Salmon (steelhd.)	No open season June 4-Oct. 31	2	Quail Turkey	Dec. 1-Feb. 20 Closed	$\frac{15}{1}$
Illinois			Bass, black, yel., white	No closed season No closed season	$\frac{15}{25}$
Rabblt Squirrel	Nov. 11-Jan. 31 July 15-Nov. 15†	$15 \\ 5 \\ 5 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10$	Crapple Sunfish	No closed season No closed season	$\begin{array}{c} 25 \\ 50 \end{array}$
Quail Pheasant	Nov. 11-Dec. 11 Nov. 11-Nov. 25†	$\frac{10}{2}$	Maine		-
Bass, black Bass (rk., wrmth.	May 15-Mar. 31†	50	Dcer Bear	Oct. 21-Nov. 30† No closed season	1
wh., yel.) crappies,	No closed season	(75 in	Rabblt Squirrel	Oct. 1-Feb. 28† Oct. 1-Oct. 31	4
gills		ag- g.)	Pheasant Grouse	Oct. 1-Nov. 15 Oct. 1-Nov. 15	4 2 4
Buffalo, bullhd., catf., carp,	No closed season		Salmon, togue(a) Salmon, togue(b)	Ice out-Sept. 30	$\frac{25}{25}$
shphd. Trout	Apr. 1-Sept. 30 No closed season	8	Salmou, togue(c) Trout(a)	Ice out-Aug. 15 Ice out-Sept. 30	$\frac{25}{25}$
Perch Pickerel	May 1-Feb. 28	10 in	Trout (b) Trout (c)	Ice out-Sept. 15 Ice out-Aug. 15	25 25
Wall-eyed plke		ag- g.	Wh. perch(a) Wh. perch(b)	Ice out-Sept. 15 Ice out-Sept. 30 Ice out-Sept. 30 Ice out-Sept. 15 Ice out-Sept. 30 Ice out-Sept. 30 Ice out-Sept. 15 Ice out-Aug. 15 June 21-Sept. 30	$ \begin{array}{c} 25 \\ 25 \\ 25 \end{array} $
Lake tr., white-	No closed season		Wh. perch(c) Black bass(a)	June 21-Sept. 30	$10 \\ 25$
fish / Indiana	-		Black bass(b) Black bass(c) Black bass (fly)	Ice out-Aug. 15 June 21-Sept. 30 June 21-Sept. 15 June 21-Aug. 15 June 1-20 No closed season	25
Rabblt Squirrel	Nov. 10-Jan. 10 Not set	5	Pickerel a-Lakes & ponds	No closed season	10†
Quall Pheasant	Nov. 10-Dec. 20 Dates not set	10 5	b-Riv. abv. tidewtr.		
Hun. partridge Bluegill, rd	Nov. 10-Dec. 20	25 in	c-Brooks, streams		
eared sunf., crappie, rock	No closed season	ag-	Maryland	Dec 5-10 2t	1
bass Bass, silv. or	1	g, 6 • in	Deer Squirrel	Dec. 5-10 ♂† Sept. 15-Sept. 20 Nov. 15-Dec. 31†	6
yel., bl., Ky., wh. or str.	June 16-Apr. 30	ag-	Quail Grouse Pheasant	Nov. 15-Dec. 31† Nov. 15-Dec. 31†	6666
Pike-perch	June 16-Apr. 30	g. 6 , 6	Turkey	Nov. 15-Dec. 30† Apr. 15-July 15	1 10
Pike or pickerel Yellow perch	June 16-Apr. 30 June 16-Apr. 30 May 1-Aug. 31	15	Bass-non-tdl. Str. (rck.) bass,	July 1-Nov. 30	10
Trout Chan. catfish	No closed season		non-tdl. wtrs. Wall-eyed pike	Mar. 15-Nov. 30 Mar. 15-Nov. 30†	$10 \\ 10 \\ 10$
Iowa Rabblt	Sept. 15-Jan. 31	10	Plke, plckerel Perch	July 1-Nov. 30 July 1-Nov. 30 Feb. 15-Nov. 30†	10 15
Squirrel / Pheasant	Sept. 15-Nov. 15 Nov. 11-30 d	628	Catfish	Feb. 15-Nov. 301	
Quail Hungarlan	Nov. 1-15	8	Massachusetts Deer	Dec. 5-10	1
partrldge Trout	Date not set May 1-Nov. 30	85	Rabbit, hare Squirrel	Dec. 5-10 Oct. 20-Feb. 15† Oct. 20-Nov. 20 Oct. 20-Nov. 20 Oct. 20-Nov. 20	15
Northern plke Bass	May 15-Nov. 30† June 1-Nov. 30†	5	Quail Grouse	Oct. 20-Nov. 20 Oct. 20-Nov. 20	20
Plke, sand or saug., weyed	May 15-Nov. 30t	$\frac{5}{25}$	Pheasant Bass	July 1-Feb. 15	455
Bullheads Yell, pch. and	No closed season		Pike Muskellunge	Oct. 20-Nov. 20 Oct. 20-Nov. 20 Oct. 20-Nov. 20 July 1-Feb. 15 Apr. 15-Feb. 15 Apr. 15-Feb. 15 Apr. 15-Feb. 15 Apr. 15-Feb. 15 Apr. 15-Feb. 15 Apr. 15-Feb. 15	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
bass, yenow str silver	May 15-Nov. 30 [†] No closed season	15	Piekcrel White perch	Apr. 15-Feb. 15 Apr. 15-Feb. 15	15
Crap., cal. bass Catfish	Apr. 15-Nov. 30†	_ 8	Trout	Apr. 15-July 31†	12
Kansas	June 15-Nov. 30	8	Bluegls., cal. bass, crappie, hrnd. pout,		
Squirrel Quall Pheasant	Opens Nov. 17 Nov. 5-7	8		Apr. 15-Feb. 15	20
Rabbit Bass	No closed season May 26-Apr. 24	10			
Kentucky	-	-	Michigan Deer	Nov. 15-30	1 3
Rabblt Squirrel	Nov. 20-Jan. 10 Aug. 20-Nov. 5	86	chicken	{U-Oct. 1-Oct. 20† {L-Oct. 15-Oct. 26† L-Oct. 15-26	- 3
Quail Ruffed Grouse	Nov. 20-Jan. 10 Dec. 1-Dec. 15			L-Oct. 15-26 L-Oct. 15-Jan. 31† Apr. 29-Sept. 10†	15†
Bass, black Trout	No closed season No closed season	10	Bass	Apr. 29-Sept. 10 † June 25-Dec. 31† h. No closed scason	51
Weyed plke, sand pike or	} No closed season	15 10	Muskellunge Lake trout	No closed season Nov. 1-Sept. 30	25
sauger	<u>)</u>	-	In Lake crout		

					-
Michigan (cont.)	1	Nevada		1
White bass	No closed season	10	Antelope , Deer	Aug. 25-Sept. 22	11
Crapple, rk.	1		Rabblt	Not set Not set	1
bass, yel. pch. bluegills, sun-	{June 25-Mar. 31	251	Quall	Dates not set	
fisb	Sulle 25-Mar. 51	201	Pheasant	Dates not set	
Whitefish	No closed season	7	All game fish	Apr. 15-Oct. 1	25
		- [New Hampshire		-
Minnesota				(North-Nov.1-30	
Deer (Bow and Arrow)	Oct. 16-Nov. 1†	1	Deer	(South-Dec.1-31	1
Deer and Arrow)	ATT OF ATT PO T	1 -	Bear	No closed season	1
Bear	Nov. 20-Nov. 28 [†] No closed season	1	Rabbit, hare Squirrel	Oct. 1-Feb. 28	55
Squirrel	Oct 16-Dec 15	7	Quail	Oct. 1-Nov. 1 No open season	5
Quall	Oct. 16-Dec. 15 Oct. 23-Nov. 7 † Oct. 23-Nov. 7 o Oct. 16-Mar. 1	10	Grouse	Oct. 1-Dec. 1	25
Pheasant	Oct. 23-Nov. 7 3	$\frac{3}{15}$	Pheasant	Oct. 15-Nov. 16 -2+	10
Rabbit	Oct. 16-Mar. 1	15	Trout, brook Lake Trout Lake Trout (fly)	May 1-Sept. 30 Jan. 1-Sept. 30† Sept. 1-30	15
Raccoon	Nov. 1-Dec. 1		Lake Trout	Jan. 1-Sept. 30†	2
Weyed pike, saugers, gt.	1		Salmon		2
no. plke,	{May 15-Feb. 15†	8	Trout, golden	Apr. 1-Sept. 30† Apr. 15-Aug. 31	$\begin{array}{c}15\\2\\2\\4\\4\end{array}$
pickerel	D		Bass	July 1-Oct. 31†	5#
Muskellunge	May 13-Feb. 15† June 17-Nov. 30†	2	Muskellunge	May 28-Oct 31	J
Bass	June 17-Nov. 30†	6	Pike-perch	+ May 28-Oct. 31+	
Trout	Apr. 29-Sept. 15†	15	Pickerel	May 28-Jan. 15†	10#
Lake Trout	Apr. 29-Sept. 15† {Dec. 30-Feb. 15† (Apr. 29-Sept. 30†	5	New Jersey		
Crapples, sunfish			Deer	Dec. 12-Dec. 17 of	1
wh. & rk. bass	May 13-Feb. 15† May 13-Feb. 15† May 13-Feb. 15† May 13-Feb. 15† May 13-Feb. 15†	15	Archery	Dec. 7-11	
Catfisb	May 13-Feb. 15†	10	Rabblt, squirrel	Nov. 10-Dec. 10 Nov. 10-Dec. 10†	6
Builbeads	May 13-Feb. 15†	50	Quail Grouse	Nov. 10-Dec. 10+	10
Whitefish Buffalo	May 13-Feb. 15† May 13-Feb. 15†		Pheasant	NOV. 10-Dec. 10	$\frac{3}{30}$
	May 13-Feb. 15		Trout	Nov. 10-Dec. 10 d Apr. 15-July 15†	101
Mississippi			Dille to the	Sept. 1-Sept. 30† May 20-Nov. 30† Jan. 3-25	101
	(Nov. 20-Dec. 1 †	1	Pike, pick'l,	May 20-Nov. 30†	10
Deer	Dec. 20-Jan. 1 †		bike-perch Bass, bl., Os-		
Bear Rabblt	No open season	-	wego, white	June 15-Nov. 30†	10
Squirrel	Not set	55	Calico, rock	1	
Quail	Oct. 15-Dec. 15 Dec. 10-Jan. 31 †	8	bass, crappie	June 15-Nov. 30	20
Turkey	Nov. 23-27 J	81	Bass, striped	Apr. 1-Nov. 30	-
Bass	No closed season	15	Wh., yel. pch catf., sunf.	No closed season	
Crappie White perch	No closed season	15			
White perch Sunfish	No closed season	$\frac{15}{25}$	New Mexico	Mars 10 Mars 014 3	
	,	20	Deer Elk	Nov. 10-Nov. 21† 7	1
Missouri			Bear	Oct. 26-Nov. 2 Sept. 15-Dec. 10†	1+
Deer	Not set (res. only)	1	Antelope	Shooting hy permit of Nov. 10-Nov. 21 Nov. 10-Nov. 21 May 30-Nov. 21	41
Archery	NTet ant (most am lar)	11		permlt† 7	
Squirrel, Rabbits	(May 30-Oct. 31	6	Turkey	Nov. 10-Nov. 21†	1
	(1101.10-00		Squirrel Trout	NOV. 10-NOV. 21	ō
Quail Wall-eyed pike	Nov. 10-Dec. 31	10	Bass, pike pcb.	-May 30-100v. 21	15
Bass, black	May 30-Nov. 30 May 30-Nov. 30	$\frac{4}{6}$	Chan. catf.	-	20
Trout	Mar. 1-Nov. 30	6	Crapple	Apr. 1-15 & May 30-	20
Bass, wh., yel.	Mar. 15-Nov. 30	9	Sunf., ring pch. and hream	Nov. 30 June 1-Nov. 30	20
Bass, warmth.,	Mar. 15-Nov. 30	9	Bullhd., yel. and	June 1-Nov. 30	
rk. Crappie	Mor 15 Nov 20	9	mud catfish	No closed season	20
Channel cat	Mar. 15-Nov. 30 Mar. 15-Nov. 30	6	New York		
Blue gl., hl. pch.	Mar. 15-Nov. 30	12	Deer	Oct. 25-Nov. 25† 3	1
			Bear	Oct. 25-Nov. 25† Oct. 21-Jan. 31 †	1
Montana			Rabblt	Oct. 21-Jan. 31 †	61
Dcer	Oct. 15-Nov. 15† ♂ Apr. 15-Nov. 15†	1	Squirrel Quail	Oct. 21-Nov. 18 †	5
Bear Elk	Apr. 15-Nov. 15† Sept. 15-Dec. 31	1+	Grouse	Not set	
Moose	3 -		Pheasant 7	Not set	Ť
Goat	Local seasons	1+	Black bass	July 1-Nov. 30†	6†
Grouse			Striped bass	No closed season	
Quall, turkey	Dotos not set		Muskellunge Salmon, Idlekd.	July 1-Dec. 1† Apr. 1-Sept. 10	+
Sage hen Hun. partridge	Dates not set		Salmon, chinook	Apr. 1-Sept. 10 Apr. 1-Sept. 10	$\frac{2}{3}$
Pheasant			Pike-perch	May 1-Mar. 1+	10†
All game fish	May 22-Nov. 15	15	Plckerel	May 1-Mar. 1† May 1-Mar. 1† May 1-Mar. 1†	î of
			Gt. no'n. pike	May 1-Mar. 1†	iŏ†
Nebraska			Trout, brk., br., r'bow		10.
Quail	Nov. 17-28	5	Lake trout	Apr. 8-Sept. 10† Apr. 1-Sept. 10 Apr. 8-Sept. 10	10†
Rabblt Squirrel	Oct. 29-Jan. 31 Oct. 29-Dcc. 31	10	Trout	Apr. 8-Sept. 10	$\begin{array}{c} 3 \\ 10 \\ 1 \end{array}$
Pheasant	Oct. 29-Dec. 31 Oct. 29-Nov. 18	53	Bullheads	NO closed seasont	
Raccoon	Oct. 1-Mar. 1	3	Whitefish Porch white	ADD. 1-Sept 10+	+
Trout	Apr. 1-Nov. 1	10	Perch, white Perch, yellow	NO CLOSED Seggon	25†
Bass, black	No closed season [†]	10	Long Island	No closed season†	
Crappie, sunf., rock bass	No closed seasont		Rabblt, squirrel	Nov. 1-Dec. 31	6
Bullheads	No closed seasont	$15\\15$	Grouse	Notset	2
Catfish	No clo ed seasont	10	Pheasant	Nov. 1-Dec. 31	30
Perch	No closed season†		North Carolina		
Plke, weye, saug. no'thn.	No closed seasont	-	Deer	Oct. 15-Jan. 2	1
saus, no tan.	THE CLOSED SEASONT		Bear	Oct. 15-Jan. 2	2

Nor. For ArabbiPenn. (cort.)StabbiOct. 1-Jan. 2QuallOct. 1-Jan. 2GrouseCort. 1-Jan. 2TurkeyApr. 15-Aug. 31Bass, blackNo closed seasonPike, walleyedNov. 27-29 \odot^+ Bass, stripedNov. 27-29 \odot^+ Nort DakotsOct. 8-177DeerOct. 8-177Sage & FulledNov. 27-29 \odot^+ StripptalOct. 8-177BassOct. 8-177BassOct. 8-177StripptalOct. 8-177BassOct. 8-177BassOct. 8-177BassOct. 8-177BassOct. 8-177BassOct. 8-177BassDate not setFrouteDecr. 31BassJune 16-Oct. 31BassJune 16-Oct. 31DeerDecr. 31-18Trout, SalmonJune 16-Oct. 31DeerDecr. 13-18Trout, SalmonNo closed seasonNo closed seasonSouth CarolinaNo. Closed seasonSouth CarolinaNo. Closed seasonSouth CarolinaNo. Closed seasonSouth DakotaSaugerNo closed seasonNo closed seasonSouth DakotaSaugerNo closed seasonNo closed seasonSouth DakotaBassMay 1-5-Dec. 31SuulteredNo closed seasonNo closed seasonSouth DakotaSuulteredNo closed seasonNo closed seasonSouth DakotaBassNo closed season
Rabbit Squirrel Qualf Grouse Trurky Trurky Nov. 24-Jan. 31Yell, pcb., rock bass, str. of earl bass, str. of bass, str. of earl bass, str. of earl bass, str. of bass, str. of bass, str. of earl bass, str. of bass, str. of earl bass, str. of bass, str. of earl bass, str. of bass, str. of care str. offed ere bass, str. offed bass, str. offed, str. offed bass, str. offed bass, str. offed bass, str. offed bass, str. offed bass, str. offed, str. off
Squirrel Quall GrouseOct. 1-Jan. 2State Apr. 15-Aug. 31 Apr. 15-Aug. 31 No closed season No closed season No closed season No closed season No closed season Bass, str. dt earpDass, str. dt carpNo closed season No15North Dakota Deer Pheasant Bass SuprtalNov. 27-29 Oct. 8-17 t Oct. 8-17 t1Nov. 1-Dec. 31 t Suprtal5North Dakota Deer Pheasant Bass SuprtalNov. 27-29 Oct. 8-17 t Oct. 8-17 t1Nov. 1-Dec. 31 t Suprtal5North Dakota Deer Pheasant Bass Bass SuprtalNov. 27-29 Oct. 8-17 t Ott. 8-17 t11Deer Pheasant Bass Bass Suprtal Deer Dece 13-18 Trout, Salmon Nov. 15-25 d' Trout May 16-Oct. 31 Closed season Nov. 15-25 d' Trout, Salmon Nov. 15-25 d' Trout, Apr. 15-Suprtal Nov. 15-25 d' Trout, Apr. 15-Suprtal Deer Nov. 15-25 d' Trout, Apr. 15-Suprtal Suprtal-Suprtal Nov. 15-25 d' Trout, Apr. 15-Sept. 15 Apr. 15-Sept. 15 Apr. 15-Sept. 15 Apr. 15-Sept. 15 Apr. 15-Sept. 15 Apr. 15-Sept. 15 Bass1Orio Deer Trout Apr. 15-Sept. 15 BassNov. 12-20 d' Trout, Trout, Fainbow No closed season No closed season
Grouse Turkey Russian boar Trout Bass, stripedNov. 21-Jan. 31 Ort. 15-Jan. 2 Art. 15-An. 10 Art. 15-An.
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
Russian boar TroutOct. 15-Jan. 2 No closed seasonNo closed seasonNo RabbiNo closed season15Bass, black Pike, walleyed Bass, stripedNo closed season16RabbiNov. 1-Dec. 312Bass, black Bass, stripedNov. 27-29 σ^3 t11Rhode Island Rabbi HareNov. 1-Dec. 312Pir d grouse prouse; part ge protast mother pike morther pike crappie, Sundsh morther pike morther pi
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
Bass, black Pike, walleyed Bass, stripedNo closed season No closed season No closed season No closed season Suttrel Poer Sage & rufed grouse, partige Pheasant Bass erch pike string end pike, suttrel grouse, partige Pheasant Bass erch pike May 16-Oct. 31 Deer Perch station Perch station May 16-Oct. 31 Trout, samon Perch station Perch station May 16-Oct. 31 Perch station Perch station Nov. 15-26 of Nov. 15-28 of No closed season No
Bits, black Bits, black Bass, stripedNo closed season season No closed season No closed season Suprtal Erouse; part/ge Preasant BassNov, 27-29 Ct. 8-177Rabbit Hare Squirrel Unct. 8-177Nov, 1-Dec, 31 Squirrel Bass Deter, sulford Deter, sulford Deter, sulford May 16-Oct. 31Samptal Hare Squirrel Deter, sulford Deter, sulford Squirrel May 16-Oct. 31Samptal Hare Squirrel Dates not set Deter, sulford Squirrel May 16-Oct. 31Samptal Hare Squirrel Deter, sulford Squirrel May 16-Oct. 31Samptal Hare Squirrel Deter, sulford Squirrel Deter, 15-30Nov, 15-Det, 16 A Squirrel Deter, 15-30Rabbit Hare Squirrel Deter, 15-30Nov, 15-Det, 16 A Hare Squirrel Deter, 15-30Nov, 15-Det, 16 A Hare Squirrel Deter, 15-30Nov, 15-Det, 16 A Hare Squirrel Deter, 15-30Nov, 15-Det, 16 A Hare Squirrel Deter, 15-30Nov, 15-Det, 16 A Hare South Dakota BassNov, 1-20 dth Hare <br< td=""></br<>
Saré & rufied grouse; part'ge Pheasant BassDates not set rout.June 16-Oct. 31 Perch, vellowJune 16-Oct. 31 Perch, vellowJ
Saré & rufied grouse; part'ge Pheasant BassDates not set rout.June 16-Oct. 31 Perch, vellowJune 16-Oct. 31 Perch, vellowJ
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Saré & rufied grouse; part'ge Pheasant BassDates not set rout.June 16-Oct. 31 Perch, vellowJune 16-Oct. 31 Perch, vellowJ
Pheasant BassOct. 8-Nov. 20 † June 16-Oct. 314 4 Striped bass Perch, wblite Perch, vallowStriped bass Apr. 15-Feb. 20 Apr. 15-Feb. 20 Apr. 15-Feb. 20 Apr. 15-Feb. 20 30Wall-eyed pike, rrout, salmon PercbMay 16-Oct. 31 June 16-Oct. 3110 15 Super Perch, yellowStriped bass Perch, wblite Perch, yellowNo. 715-Feb. 20 Apr. 15-Feb. 20 Apr. 15-Feb. 20 Apr. 15-Feb. 20 30Ohio PercbDec. 13-18 Rabbit Perch, yellow10 Super Super Closed10 Super Super Closed Nov. 15-25 σ^2 Nov. 15-25 σ^2 10 Nov. 15-25 σ^2 Perch, yellowNov. 15-26 σ^2 BassNov. 15-26 σ^2 Super Closed season Nov. 15-25 σ^2 Nov. 15-26 σ^2 Closed season Perch veloce BassNov. 15-26 σ^2 South Dakota Deer Trout No closed season No closed season Sulurel No closed season No closed season No closed sease
Pheasant BassOct. 8-Nov. 20 † June 16-Oct. 314 4 Striped bass Perch, wblite Perch, vallowStriped bass Apr. 15-Feb. 20 Apr. 15-Feb. 20 Apr. 15-Feb. 20 Apr. 15-Feb. 20 30Wall-eyed pike, rrout, salmon PercbMay 16-Oct. 31 June 16-Oct. 3110 15 Super Perch, yellowStriped bass Perch, wblite Perch, yellowNo. 715-Feb. 20 Apr. 15-Feb. 20 Apr. 15-Feb. 20 Apr. 15-Feb. 20 30Ohio PercbDec. 13-18 Rabbit Perch, yellow10 Super Super Closed10 Super Super Closed Nov. 15-25 σ^2 Nov. 15-25 σ^2 10 Nov. 15-25 σ^2 Perch, yellowNov. 15-26 σ^2 BassNov. 15-26 σ^2 Super Closed season Nov. 15-25 σ^2 Nov. 15-26 σ^2 Closed season Perch veloce BassNov. 15-26 σ^2 South Dakota Deer Trout No closed season No closed season Sulurel No closed season No closed season No closed sease
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Wail-eyed pike, northern pike, Trout, Salmon May 16-Oct. 3110 10 10 June 16-Oct. 3110 10
Crappie, Sunfash Trout, Salmon PerebMay 16-Oct. 31 May 2-Sept. 3010 5 Surf Carolina DeerSouth Carolina Deer Rabbit South Carolina DeerNov. 15-22t σ^2 Nov. 24-teb. 15 Aut. 15-301Ohio Deer Hum, partridge Grouse Wall-eyed pike Sauer Trout BassDee. 13-18 Nov. 15-25 σ^2 Nov. 15-25 σ^2 1Nov. 15-22t σ^2 Trout. salmoov BassNov. 15-22t σ^2 Nov. 15-25 σ^2 1Muskellunze Wall-eyed pike Sauer Trout AuterlangeNo closed season to closed season No closed season to closed
Ohio DeerDec, 13-18 Nov, 15-Dec, 18Turkey Trout, speckled Trout, speckled Trout, rainbow BassNov, 22-Feb, 15 20 Jun, 1-Oct, 1 20 Jun, 1-Oct, 1 20 Jun, 1-Oct, 1 20 Muskellunge Wall-eyed pike Sauger Trout Apr, 15-Sept, 15 BassNov, 15-25 σ^2 Closed South Dakota Deer Trout BassNov, 15-25 σ^2 Closed season Apr, 15-Sept, 15 June 16-Apr, 30 6Nov, 15-26 σ^2 Closed season 6Nov, 15-20 σ^2 LAKE ERIE D1 St. Pheasant Muskellunge Wall-eyed pike No closed season Apr, 15-Sept, 15 Juny 14Nov, 15-20 σ^2 22 Cot, 9-Feb, 22 4Nov, 12-0 σ^2 4 May 1-Sept, 30 May 1-Feb, 28 May 30-Mar, 31 No Cotaed seasont Mov closed seasont Mov closed seasont Mov closed seasont 15 Model seasont Mov closed seasont 15 Crappie No closed seasont No closed seasont 15 Crappie May 30-Mar, 31 No closed seasont 15 May 20-Mar, 31 No closed seasont 15 May 30-Mar, 31 No closed season 15 May 30-Mar, 31 No closed season 15 May 30-Mar, 31 No closed season 15 No closed season 15 No closed season 15 No closed season 15 No closed season 15 No closed season No closed s
Ohio DeerDec, 13-18 Nov, 15-Dec, 18Turkey Trout, speckled Trout, speckled Trout, rainbow BassNov, 22-Feb, 15 20 Jun, 1-Oct, 1 20 Jun, 1-Oct, 1 20 Jun, 1-Oct, 1 20 Muskellunge Wall-eyed pike Sauger Trout Apr, 15-Sept, 15 BassNov, 15-25 σ^2 Closed South Dakota Deer Trout BassNov, 15-25 σ^2 Closed season Apr, 15-Sept, 15 June 16-Apr, 30 6Nov, 15-26 σ^2 Closed season 6Nov, 15-20 σ^2 LAKE ERIE D1 St. Pheasant Muskellunge Wall-eyed pike No closed season Apr, 15-Sept, 15 Juny 14Nov, 15-20 σ^2 22 Cot, 9-Feb, 22 4Nov, 12-0 σ^2 4 May 1-Sept, 30 May 1-Feb, 28 May 30-Mar, 31 No Cotaed seasont Mov closed seasont Mov closed seasont Mov closed seasont 15 Model seasont Mov closed seasont 15 Crappie No closed seasont No closed seasont 15 Crappie May 30-Mar, 31 No closed seasont 15 May 20-Mar, 31 No closed seasont 15 May 30-Mar, 31 No closed season 15 May 30-Mar, 31 No closed season 15 May 30-Mar, 31 No closed season 15 No closed season 15 No closed season 15 No closed season 15 No closed season 15 No closed season No closed s
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Ohio Deer RabbitDec, 13-18 Nov, 15-Dec, 18 Apr. 15-30JunNov. 23-Mar. 1 South Dakota Deer Trout, speckled Taul. 1-Oct. 1 Jan. 1-Oct. 24 No closed seasont Bass 5 South Dakota Deer Grouse, prairle chicken Pheasant BassNov. 12-20 cit t May 1-Sept. 30 5 South Dakota Deer Trout BassNov. 1-20 cit t May 1-Sept. 30 5 South Dakota Deer May 1-Sept. 30 5 South Dakota Deer May 1-Sept. 30 5 South Dakota Deer Nov. 12-20 cit 5 South Dakota Deer Nov. 12-30 cit May 1-Feb. 28 5 South Dakota Deer Nov. 12-30 cit May 1-Feb. 28 5 South Dakota Deer Nov. 12-30 cit May 1-Feb. 28 5 South Dakota Deer Nov. 12-30 cit Nov. 24-Jan. 25 5 South Dakota Deer Nov. 12-30 cit Nov. 24-Jan. 25 5 South Dakota Deer Nov. 24-Jan. 25 5 South Dakota Deer Nov. 24-Jan. 25 7 South Dakota No closed season No closed season South Dakes No closed season No closed season No closed season No closed
Pheasant Hun, partridge GrouseNov. 15-25 ClosedBassNo closed season ClosedSo ClosedNo ClosedSo ClosedNo Clos
Hun, partridge Grouse INLAND DIST. Muskellunge Wall-eyed pike Sauger Trout Muskellunge Wall-eyed pike Sauger Trout Apr. 15-Sept. 15 Bass Sauger Trout Apr. 15-Sept. 15 BassSo closed season to closed season No closed season No closed season No closed season Sauger Trout May 1-Feb. 28Nov. 1-20 c ³⁺ t May 1-Feb. 28Oklahoma Squirrel Deer Crappie Trout Deer Oct. 1-20 c ³⁺ Oct. 1-20 c ³⁺ No closed season No closed season Sent 1-5 Sent 1-5 Sent 1-5 Sent 1-5 Sent 1-5 No closed season No
Grouse INLAND DIST. Muskellunge Wall-eyed pike Sauzer Trout Bass Muskellunge Wall-eyed pike Sauzer Trout Apr. 15-Sept. 15 June 16-Apr. 30 Sauzer Trout Apr. 15-Sept. 15 June 16-Apr. 30 Sauzer Trout Apr. 15-Sept. 15 June 16-Apr. 30 Sauzer Trout Apr. 15-Sept. 15 Bass Sauzer Trout Apr. 15-Sept. 15 Bass Sauzer Trout Apr. 15-Sept. 15 Bass Sauzer Trout Sauzer Trout Apr. 15-Sept. 15 Bass Sauzer Oct. 17-Nov. 30 No closed season No closed season No closed season No closed season No closed season No closed season Apr. 15-Sept. 15 Bass Oct. 17-Nov. 30 No closed season No
INLAND DIST. Muskellunge Wall-eyed pike Sauger Trout BassNo closed season No closed season No closed season Muskellunge Wall-eyed pike Sauger Trout Apr. 15-Sept. 15 June 16-Apr. 30 LAKE ERIE DI Sauger Trout Apr. 15-Sept. 15 BassJune 16-Apr. 30 June 16-Apr. 30 No closed season Apr. 15-Sept. 15 BassJune 16-Apr. 30 Itel ST. No closed season Apr. 15-Sept. 15 No closed season Apr. 15-Sept. 15 No closed season Trout Apr. 15-Sept. 15 July 1-May 24June 16-Apr. 30 BassJune 16-Apr. 30 May 1-Feb. 28Sept. 30 Itel Str. May 1-Feb. 28Oklahoma Squirrel Quall Bass Crappie TroutMay 15-Dec. 31 Inter. (NovJan.) No closed season No closed season No closed season Itel Squirrel Oct. 1-20 7 t Oct. 1-20 7 t Ott. 21-Nov. 9No closed season 15 May 30-Mar. 31 No closed season 15 No closed season 15 No closed season 15 Sept. 1-5 Sept. 1-5 Sept. 1-5 Ott. 22-Nov. 2 Ott. 21-Nov. 9No closed season 15 May 30-Mar. 31 No closed season 15 No closed season 15 No closed season 15 No closed season 15 May 1-Febe. 31 t May 1-Sept. 30Ible Sage Hen Grouse, other Pheasant Hun, partridre Hun, partridre Hun, partridre Hun, partridre Hun, partridre Hun, partridre No closed season No closed seaso
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MIGRATORY BIRD LAWS

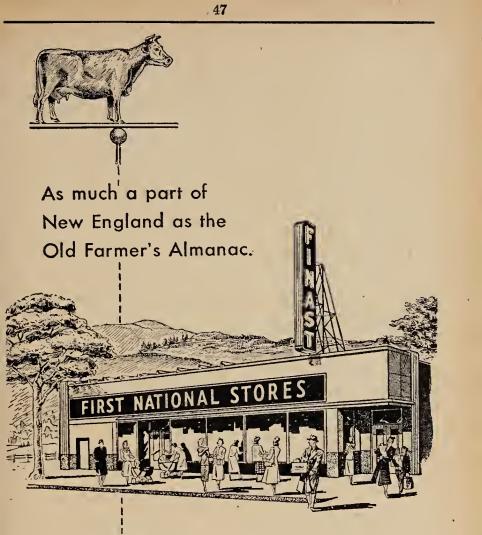
DO NOT HUNT ducks, geese, brant, coot, rails, gallinules, woodcock, or mourning dove until you have studied the laws on these birds issued in September, 1951, by the Fish and Wildlife Service, U. S. Dept. of Interior, Chicago 50, Illinois. The 1949 laws forbade the taking of any jacksnipe, Ross geese, or swan, and in some places, wood ducks, brant, snow geese, mourning dove, woodcock, and Canada geese. Daily bag limits have been running: Geese — East 2, Middle 4, Pacific 6; Ducks — East and near East 4, Midwest and West 5; Wood duck 1; Rails 15; Coot 10 interior, 15 coast, east and west; Woodcock 4; Mergansers 25; Doves and pigeons 10 and Sora, 25. The East has been enjoying special seasons on Scoters and Eider ducks — the West on bandtailed pigeon. Arizona has had a special season on white winged dove. There is no point in trying to list here the very complicated seasons on ducks, geese, etc. They are changed radically every year and as a rule shortened. Opening days in 1949, were:

Ducks, Geese, Brant, Coot: Oct. 7: — Me., Mich., Minn., Mont., N. H., N. D., Wyo. Oct. 14 — Col., Ida., Nev., N. M., Utah, Wise. Oct. 21 — All remaining states except Nov. 4 — Conn., Ill., Ind., Mo., Tex., Wash. Nov. 18 — Ariz., Ark., La., Md., Mass., N. J., Tenn. Nov. 29 — Ala., Fla., Ga., Ky., N. C., R. I., S. C., Va.

Rails, Gallinules: Sept. 1 — Most states. Sept. 16 — Minn. Oct. 1 — Fla., Ga., N. C., S. C. Oct. 7 — Me., Mich., Oct. 14 — Wisc. Oct. 15 — Miss, Oct. 21 — N. Y. Nov. 29 — Ala., R. I.

Mourning Dove: Sept. 1 — Most states. Sept. 10 — Neb. Sept. 16 — Ark., Ga., Miss., N. C., S. C., Tenn., Va. Oct. 1 — Texas. Nov. 1 — Del. Dec. 1 — La. Dec. 17 — Ala., Fla.

Woodcock: Oct. 1 — Me., Minn., N. H., Vt., Wisc. Oct. 8 — Ohio. Oct. 10 — N. Y., Pa. Oct. 15 — Md. Oct. 20 — Conn., Mich., N. J. Nov. 1 — R. I. Nov. 10 — Mo. Nov. 15 — Del., Mass. Nov. 19 — Va. Dec. 1 — Ala., Ark., Miss. Dec. 12 — N. C. Dec. 23 — Ga., La.



First National Stores, now serving more than 500 communities from Maine to New York, are as much a part of the New England scene as the Old Farmer's Almanac itself. For First National Stores are founded on the time-honored New England traditions of thrift and fine food.



ANECDOTES AND PLEASANTRIES

THE THN PEDDLER

Jason White has come ter town Drivin' his tin peddler's cart. Pans a-hangin' up and down

Like they'd tear theirsclves apart;

Kittles rattlin' underneath, Coal-hods scrapin' out a song. Makes a feller grit his teeth When old Jason comes along.

Jason drives a sorrel mare,

Bones and skin at all her j'ints "Blooded stock," says Jase; " says Jase; "I swear

Jest see how she shows her p'ints!"

"Walkin's her best lay," says he, Eyes a-twinklin' full of fun, Named her Keely Motor. See?

Sich hard work to make her run."

Jason's just the slickest scamp. Full of jokes as he can hold: Say's he beats Aladdin's lamp,

Givin' out new stuff for old :

"Buy yer rags fer more than they're worth,

Give yer bran-new shiny tin, I'm the softest man on earth," Says old Jason with a grin,

Jason gits the women's ear

Tellin' news and talkin' dress: Can't be peddlin' forty year And not know 'em more or less:

Children like; sakes alive!

Why. my Jim, the other night Says "When I get big I'll drive Peddler's cart like Jase

Jason White."

From Cape Cod Ballads by Joseph C. Lincoln

HE KNEW HIS FATHER

"Now, Johnuie." said his teacher, "If your father borrowed his \$100 and promises to pay \$10 a week, how much will he owe in seven weeks?"

"One hundred dollars." said Johnnie.

"I'm afraid you don't know your lesson very well," remarked

the teacher. "I may not know my lesson," said Johnnie, "but I know my father."

HT DEPENDS

philosopher beiug asked whether life is worth living, answered, "That depends on the liver.'

THE TRAVELER'S PUZZLE

This is an old story, and it may amuse our readers to exer-

cise their wits over it. A mau was once traveling with a wolf, a goat, and a cabbage. He was obliged to cross a river in a boat so small that he could only take one thing at a time, either the cabbage, the goat, or the wolf, but not two of them together. He was somewhat puzzled how to manage. If he took the wolf, the goat would eat the cabbage while he was gone: if he should take he was gone; if he should take the cabbage, the wolf would kill the goat; if, finally, he should take the goat first, the wolf left behind would not eat the cab-bage, it is true, but what could he take over on the second passage? Not the wolf, because he could not leave him with the goat while he went back for the cabbage; not the cabbage for he could not leave that with the goat while he was gone to get the wolf. Finally he hit upon a way to do it and did it successfully. How did he do it?

SPEAKING OF PUNS

Some years ago Harvard had on its football team two famous players in the backfield - Charlie Deveus and Eddie Mays. During the progress of one game the following conversation between two drunks was overheard. "Whuzzat carried the ball?"

- "Devens,"
- "Wrong that was Mays." "Oh what Devens does

it Mays?

YOU THREE

If your nose is close To the grindstone rough, And you hold it down There long euough, In time you'll say There's no such thing As brooks that babble Aud birds that sing. Those three will all Your world compose; Just you, the stone. And your darned old nose.

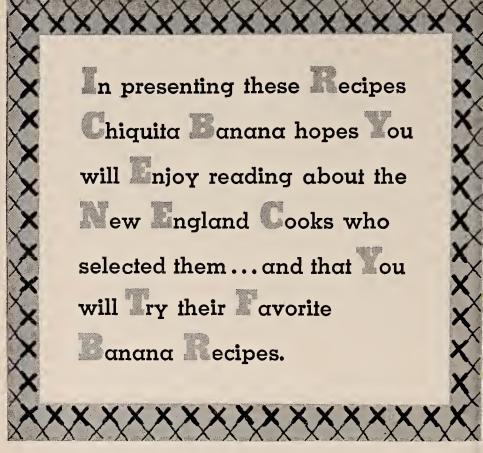
HOW LONG, OH LORD?

A young business man, a dea-con iu his local church, was go-ing to New York on business. and while there was to purchase a new sign to be hung in front of the church.

He copied the motto and dimensions, but, when he got to New York, discovered he had left the paper behind, Whereupon Continued on page 65

FAVORITE BANANA BANANA RECIPES FROM PRIZE WINNING NEW ENGLAND COOKS presented by Chimita Banana

> New England has long been famous for its fine food...its good cooks. Now some of those cooks have selected their favorite banana recipes for you.



These cooks were selected by a staff member of Yankee Magazine who traveled more than 1200 miles in search of New England's fine cooks. He found them by asking local people such as the postmaster, garage man or the local storekeeper for the name of the town's best cook. After obtaining the name of the cook, he set out to interview her. Some lived as far as ten miles from the center of town. Nothing daunted, he found and photographed these prize winning cooks.



NEW BANANA COOKBOOK FREE. For copies of a beautifully illustrated cookbook (one of the few in which all pictures are in full color) try any one of the recipes on the following pages. Tell us on a post-card or in letter how you liked the recipe, and we will send you your free copy of this wonderful new cookbook.

UNITED FRUIT COMPANY PIER 3, NORTH RIVER, NEW YORK 6, N. Y.



MRS. MARTIN ROZEN, Newport, Rhode Island, is one of the city's wellknown cooks. She serves as general chairman of many of the Masonic and Eastern Star suppers and banquets.



MRS. ROZEN'S FAVORITE BANANA RECIPE IS

Banana Bran Nut Bread

1 egg, well-beaten 11/2 cups mashed ripe bananas* (4 to 5 bananas) 1/4 cup melted shortening l cup bran, shredded or flaked

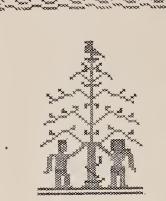
- 11/2 cups sifted flour 21/2 teaspoons baking pawder 1/2 teaspoan baking sada 1/2 teaspaan salt
 - 1/2 cup sugar

 $\frac{1}{2}$ cup chapped nuts

*Use fully ripe or all-yellow bananas

Combine egg, bananas, shortening and bran in mixing bowl. Sift together flour, baking powder, soda, salt and sugar. Add nuts and mix well. Add to banana mixture, mixing only enough to dampen all flour. Turn into a well-greased bread pan $(8\frac{1}{2} \times 4\frac{1}{2} \times 3 \text{ inches})$ and bake in moderate oven (350°F.) about 1 hour 10 minutes, or until bread is done. Makes 1 loaf.





MRS. ADAMS' FAVORITE BANANA RECIPE IS

Banana Drop Cookies

2 ¹ / ₄ cups sifted flour
l cup sugar
2 teaspoons baking powder
⅓ teaspoon baking soda
³ ⁄4 teaspoon salt
⅔ cup shortening
2 eggs, unbeaten
l cup mashed ripe bananas*
(2 to 3 bananas)
1 teaspoon vanilla
1⁄4 teaspoon cinnamon
1 tablespoon sugar



MRS. RALPH ADAMS, Chester, Vermont, worked her way through Green Mountain Junior College by helping in the kitchen. Her cooking ability has many calls made on it now, since she is the mother of five children and the cook at the Hilton House, Chester, Vermont.

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

Sift together flour, sugar, baking powder, soda and salt into mixing bowl. Cut in shortening. Add eggs, bananas and vanilla and beat until thoroughly blended. Drop by teaspoonfuls, about $1\frac{1}{2}$ inches apart, onto ungreased cookie pans. Sprinkle with a mixture of cinnamon and 1 tablespoon sugar. Bake in a moderately hot oven (400°F.) about 12 minutes, or until cookies are done. Remove baked cookies from pan immediately.

Makes about 3 dozen medium-sized cookies.



MRS. SARAH F. TOLMAN, Chesham, N. H., has managed her own boarding house for almost fifty years. During that period a great many fortunate guests have enjoyed her good old-fashioned cooking.

MRS. TOLMAN'S FAVORITE BANANA RECIPE IS



Banana Meat Loaf

pound ground raw beef
 tablespoon chopped onion
 teaspoons salt
 teaspoon pepper

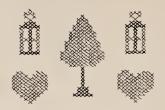
1 cup soft bread crumbs 3⁄4 cup mashed firm bananas* (1 to 2 bananas) 1⁄2 teaspoon dry mustard

*Use all-yellow or slightly green-tipped bananas

Mix together meat, onion, salt, pepper and crumbs in mixing bowl. Combine bananas and mustard. Add to meat mixture and mix well. Form mixture into a loaf and place into a well-greased baking dish $(8\frac{1}{2} \times 4\frac{1}{2} \times 3)$ inches). Bake in a moderate oven (350°F.) about 1 hour, or until loaf is done. Four to six servings.



MRS. HARLEY PARKER, Rockport, Mass., was born in Norway and came to this country in 1912. One of her specialties is Norwegian Coffee Bread.



MRS. PARKER'S FAVORITE BANANA RECIPE IS

Banana Spice Layer Cake

(1-Bowl Method)

Before Mixing: Have shortening at room temperature. Grease pans. Set oven at correct temperature $(375^{\circ}F.)$.

- 21/4 cups sifted cake flour
- 1¼ cups sugar
- 21/2 teaspoons baking powder
 - 1/2 teaspoon baking soda
 - 1/2 teaspoon salt
 - 1/8 teaspoon ground cloves
- 11/4 teaspoons cinnamon
 - 1/2 teaspoon nutmeg
 - 1/2 cup shortening
- 1½ cups mashed ripe bananas* (4 to 5 bananas)
 - 2 eggs, unbeaten
 - 1 teaspoon vanilla

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

Sift together flour, sugar, baking powder, soda, salt and spices into large mixing bowl. Add shortening, $\frac{1}{2}$ cup of the bananas and eggs. Beat 2 minutes at slow to medium speed with electric mixer or 2 minutes by hand. Scrape down bowl and beater or spoon frequently during mixing. Add remaining 1 cup bananas and vanilla. Beat 1 minute longer. Turn into 2 well-greased, 8-inch layer cake pans. Bake in a moderate oven (375°F.) about 25 minutes, or until layers are done. Frost with your favorite frosting. Makes 1 cake.



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

Combine sugar, flour and salt in top of double boiler. Add milk slowly, mixing thoroughly. Cook over rapidly boiling water until well-thickened, stirring constantly. Cook 10 minutes longer, stirring occasionally. Stir small amount of hot mixture into egg yolks; then pour back into remaining hot mixture while beating vigorously. Cook 1 minute longer. Remove from heat and add butter or margarine and vanilla. Cool thoroughly. Cover bottom of pie shell with small amount of cooled filling. Peel bananas and slice into pie shell. Cover immediately with remaining filling. Top with meringue or sweetened whipped cream, if desired. Makes 1 pie.



MRS. MADELINE LONG, Caribou, Maine, is well known as a professional cook. For years she operated a restaurant. Now she serves delicious dinners to private parties and to large groups.





MRS. ASH'S FAVORITE BANANA RECIPE IS

Banana

Grapefruit Whirl Salad

 ripe banana*
 Salad greens
 grapefruit segments (about 1 grapefruit)

ing's Shanty' in Wickford, Rhode Island. Not only is she an excellent cook, but she enjoys cooking. She often prepares suppers for large church groups. *Use f

*Use fully ripe banana ... yellow peel flecked with brown

Peel banana and cut lengthwise into halves. Place one half, cut side up, in center of each of 2 salad plates. Arrange grapefruit segments in fan shape in front and back of banana halves. Garnish with crisp salad greens. Serve with French dressing. Two servings.





MRS. PETER CRAWFORD, Marlboro, Conn., is the local 4-H leader. Her daughter, Helen Abigail, is a senior in high school and last year won the state 4-H foods preparation contest.

THE CRAWFORDS' FAVORITE BANANA RECIPE IS

Banana Tea Muffins



1³/₄ cups sifted cake flour

2 teospoons boking powder

- 1/4 teospoon baking sodo
- ³/₄ teaspoon solt

1/3 cup sugar

1 egg, well-beaten

- 1/3 cup melted shortening or salad oil
 - 1 cup mashed ripe bananos* (2 to 3 bananas)

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

Sift together flour, baking powder, soda, salt and sugar into mixing bowl. Mix together egg, shortening and bananas. Add to dry ingredients, mixing only enough to dampen all flour. Turn into well-greased small muffin pans and bake in a moderately hot oven (400° F.) about 20 minutes, or until muffins are done. Serve hot or cold. Makes 16 small muffins.



MRS. CALDER'S FAVORITE BANANA RECIPE IS

Banana Gritters

Melted fat or salad oil 2 to 3 firm bananas^{*} ¼ cup flour Fritter Batter

MRS. IDA M. CALDER, Marblehead, Mass., has been cooking for more than fifty-five years. For years she has cooked for boarders. At one time her boarders numbered twenty-two.

*Use all-yellow bananas

To deep-fry, have deep kettle $\frac{1}{2}$ to $\frac{2}{3}$ full of melted fat or oil. To shallow-fry, have $\frac{1}{2}$ to 2 inches of melted fat or oil in frying pan. Heat fat to 375° F., or until a 1-inch cube of bread will brown in about 40 seconds. Peel bananas and cut each crosswise into 3 or 4 diagonal pieces. Roll in flour. Dip into Fritter Batter, completely coating the banana pieces with the batter. Deep-fry or shallow-fry in the hot fat about 6 minutes, or until well browned. Turn fritters frequently to brown evenly. Drain on a rack. Serve hot with the main course . . . or serve as a dessert with a hot fruit sauce, syrup or sweetened whipped cream. Makes 6 to 12 fritters.

Fritter Batter

1 cup sifted flour1/4 cup sugar2 teaspoons baking powder1 egg, well-beaten11/4 teaspoons salt1/3 cup milk2 teaspoons melted shortening

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

Important: Have fat at correct temperature (375°F.) before frying. This is a stiff batter, and it makes a crisp fritter which will stay crisp for 15 to 20 minutes. This batter should not be "thinned down."



MRS. JOHN HUNTER, Newington, Conn., teaches English in the Hartford Branch of the University of Conn., while her husband teaches English in Teachers' College, New Britain, Conn. Mrs. Hunter is well known for the many southern dishes that she cooks.

MRS. HUNTER'S FAVORITE BANANA RECIPE IS

Banana Pineapple Salad

 ripe banana*
 slices canned pineapple Salad greens Berries or cherries



*Use fully ripe banana . . . yellow peel flecked with brown

Peel banana and arrange a ring of pineapple around each end. Place in the center of the salad plate. Garnish with crisp salad greens, and berries or cherries, if desired. Serve with a sweet or tart dressing. One large salad.



GEORGE WOOL and his son, Martin, of Exeter, New Hampshire, enjoy out-of-door cooking as a hobby. Together they have prepared many a supper over their open-air fireplace.

THE WOOLS' FAVORITE BANANA RECIPE IS

Ham Banana Rolls with Cheese Sauce





4 thin slices boiled ham Prepared mustard 4 firm bananas^{*}

1½ tablespoons melted butter or margarine Cheese Sauce

*Use all-yellow or slightly green-tipped bananas

Spread each slice of ham lightly with mustard. Peel bananas. Wrap a slice of the prepared ham around each banana. Brush tips of bananas with butter or margarine. Place Ham Banana Rolls into a greased shallow baking dish, and pour Cheese Sauce over them. Bake in a moderate oven (350°F.) 30 minutes, or until bananas are tender ... easily pierced with a fork. Serve hot with the Cheese Sauce from the baking dish. Four servings.

Cheese Sauce

 1½ tablespoons butter or margarine
 ¾ cup milk

 1½ tablespoons flour
 1½ cups grated sharp American cheese

Melt butter or margarine in saucepan; add flour and stir until smooth. Stir in milk slowly. Add cheese and cook, stirring constantly until sauce is smooth and thickened. Makes about 1 cup sauce.



MRS. JAMES C. ROBERTSON, Belfast, Maine, has earned her enviable reputation as an excellent cook by serving on many committees for church suppers.

MRS. ROBERTSON'S FAVORITE BANANA RECIPE IS

Banana Pear Star Salad

1 ripe banana^{*} 4 pear halves, fresh or canned Pimiento Cottage cheese Parsley

*Use fully ripe banana ... yellow peel flecked with brown

Peel banana and divide into quarters by cutting once lengthwise and once crosswise. Arrange banana quarters, points out and cut sides down, on a salad plate so that they radiate from the center and divide the plate into four equal sections. Place a pear half in each section between banana quarters, alternating cut side up and cut side down, stem ends toward the center of the plate. Place cottage cheese in center of salad plate. Surround cottage cheese with a ring of parsley and garnish with pimiento. Serve with a tart or sweet salad dressing. One serving.



MRS. CARR'S FAVORITE **BANANA RECIPE IS**

Banana Apple Betty

2 tart apples, pared and cored 3 firm bananas*, peeled 3/4 cup sugar 1/2 teaspoon cinnamon 1/4 teaspoon salt 2 cups soft bread crumbs **3 tablespoons melted** butter or margarine



MRS. CHARLES CARR lives in Jamestown. Rhode Island, during the summer months, and during the winter in Sarasota, Florida, where her husband operates a hotel. In raising a family of five children, Mrs. Carr has had a great deal of experience as a cook.

*Use all-yellow bananas

Slice apples and cut bananas crosswise into $\frac{1}{2}$ -inch pieces. Combine fruit, sugar, cinnamon and salt. Mix bread crumbs with butter or margarine. Place alternate layers of crumbs and fruit into a well-buttered baking dish, using crumbs for top and bottom layers. Cover baking dish and bake in a moderate oven (375°F.) about 40 minutes, or until apples are tender. Uncover. Continue baking 5 minutes longer or until crumbs are browned. Serve hot with cream or fruit sauce. Four to six servings.



HERBERT WHITNEY, Rockport, Mass., is a Navy veteran. During the winter months he cooks in a Boston hotel. In the photograph above, he is shown at his summer job, broiling over The Forge at the Blacksmith Shop Restaurant, Rockport.

MR. WHITNEY'S FAVORITE BANANA RECIPE IS

Glazed Bananas

4 firm bananas* Lemon juice Sugar Butter or margarine

*Use all-yellow or slightly green-tipped bananas

Peel bananas. Brush well with lemon juice. Roll in sugar. Fry bananas slowly in butter until brown and tender . . . easily pierced with a fork . . . turning them to brown evenly. Serve hot as a vegetable. Four servings.



MISS EDITH J. HODGDON, Northfield, Vermont, has been actively engaged in the food field since 1926. Among famous eating places where she has worked is Salmagundi's in Boston. At present she operates the Little House and Pantry in Northfield.

MISS HODGDON'S FAVORITE BANANA RECIPE IS

Banana Tea Bread



1¾ cups sifted flour
2 teaspoons baking powder
¼ teaspoon baking soda
½ teaspoon salt

¹/₃ cup shortening
²/₃ cup sugar
² eggs, well-beaten
1 cup mashed, ripe bananas^{*}
(2 to 3 bananas)

*Use either fully ripe or all-yellow bananas

Sift together flour, baking powder, soda and salt. Beat shortening until creamy in mixing bowl. Add sugar gradually and continue beating until light and fluffy. Add eggs and beat well. Add flour mixture alternately with bananas, a small amount at a time, beating after each addition until smooth. Turn into a well-greased bread pan $(8\frac{1}{2} \times 4\frac{1}{2} \times 3$ inches) and bake in a moderate oven (350°F.) about 1 hour 10 minutes, or until bread is done. Makes 1 loaf.

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Continued from page 48

he wired his wife: "Send motto and dimensions.

An hour later a message came over the wire and the new lady clerk, who just came from lunch and who knew nothing of the previous message, read it and fainted.

The message said: "Unto us a child is born. 6 ft. long and 2 ft. wide."

PROBABLY THE ONLY PLACE

In the world where mail is delivered regularly on Sundays is on Manchester Street, up in Manchester, Vt. Here's the story be-hind it. Abraham Lincoln for some summers stayed in Man-chester at the Equinox Hotel, and when he was there his mail was delivered to him on Sundays, just as on week days.

Manchester Streeters continue the custom as a tribute to him,

Dr. Chauncey Depew's recipe for happiness is to keep in touch with the young: "Join in their games, be a partner in their dance, romp the fastest and turn the quickest in the Vlrginia reel or country dance; go up to the old college, and sit down, and light your pipe, and sing college songs: take the children to the theatre, and howl with them at the roaring farce, and laugh with them at the comedy, and cry with them at the tragedy: be a confidant in their love affairs, and if they are not equal to it, write their love letters, and never stop writing some for yourself."

Ralph Waldo Emerson once said that he hesitated before throwing away the smallest scrap of a newspaper before looking at both sides of it, "lest it should contain some thought or fact or verse worthy of preserva-tion."

A correspondent of the Springfield Republican tells the following story of Hannibal Hamlin when a young man: He called a caucus to choose delegates to the Maine conventions, State, county, and congressional. Two persons came, Hannibal himself and John Hannibal himself and John Smith. They elected a full list of delegates, but when it came their credentials a difficulty to arose. Hamlin was chairman of the caucus, and Smith secretary; but how was the gathering to be Hamlin "Mr. said. described?

Smith, write, 'At a large and respectable caucus, so-and-so were chosendelegates to the State convention,' and then put the names," "But, Squire Hamlin, can we call this caucus large and respectable, — only you and me?" — "Why not, Mr. Smith? You are large, and I am respectable; what's the difficulty?" And the credentials were so made out.

The New Pastor: Good morning, my dear child. your Is

mamma at home?" Willie: "Yes, sir, she's at home; but I'm afraid the consolations of religion will be thrown away on her to-day, sir." — "Dear me! And why so?" — "She's having trouble with her jell, sir."— Cleveland Plain Dealer.

A DELICATE FLUID

Housekeeper: "That milk you left yesterday was perfectly hor-rid. It tasted of garlic." Milkman: "Milk is easily

easily spoiled, Mum. Had you been cookin' garlic?" cookin' garlic?" "No, we haven't."

milkpans, may be?" th'

"We never use it."

"Queer. May be some o' th' neighbors has been cookin' gar-

lic." "No, they haven't." "Any visitors at your house yesterday?"

"Not even a caller, except my

daughter's French teacher." "H'm! Better drop French, Mum." — New York Weckly.

IN PASSING

The Excellence of Intentions is a distressingly poor cement for the Fragments of Failure.

If you are not too large for the place, you are too small for it. A pound of pluck is worth a ton of luck.

FATHER'S ESSAY WRITING

Teacher-I am sorry to say it, Henry, but your composition is not worthy of you. The rheto-ric is faulty, the logic weak, the statements are based upon misthe style is information, and

lamentably crude. Henry — My! Won't my dad be mad when I tell hlm that?

Teacher — But you can tell him

you did your very best. Henry — Did my best nothing. Dad wrote the whole of it himself.

SCIENTISTS AT WORK

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

1. "Feeding through the Leaves." We had learned in our student days that leaves breathed and were a kind of manufacturing plant for the food sent up to them by the roots. But we didn't know that leaves ate. They do, as the use of soluble nitrates fed directly onto the leaves of any tree or shrub (though especially apple trees) by the customary spray machines has proved. The particular product we have in mind is "Nugreen," put out by DuPont, and consisting of highly soluble nitrogen pellets. Used as it may be with other spray materials, it apparently obviates the need of hand-spread or machine broadcast fertilizers. The time and money saved by combining the spraying and fortilizer

The time and money saved by combining the spraying and fertiliza-tion operations is obvious. Best time for applications ou apple trees would be just at the early pink, late pink, petal fall, and first cover stage — about ten days after the petal fall. Any variation of this schedule should probably not be put off later than the petal fall nor see a last application later than mid June.

Whether the use of so much concentrated nitrogen is what is needed solely year after year for orchardists is a debatable question. Cer-tainly the use of "Nugreen" or any other high nitrate product would not preclude the use of mulch every year or the use of balanced fertilizers as well - or in odd years.

2. "Seeding by Airplane on Ranges." After forest and brush fires it is desirable to assure growth of a quick cover as soon as possible. In California, for example, the Forest Service has used planes to sow mustard over burned areas almost as soon as the ashes have cooled.

An experimental device that has given favorable results is the planting of "Pelleted" seeds. Seed is mixed with soil and the soil formed into small balls—like marbles or large shot. Each pellet is roughly a quarter of an inch in diameter and contains about half a dozen grass seeds. This method is so new that foresters have not yet had time to test it thoroughly or to make counts of the grasses that result from such seedings. But the pellets can be scattered fairly evenly by plane, and the small balls of earth break down to provide some covering for the seeds.

The use of seeding by plane is not efficient, or sufficient, unless the fire has left enough ash, as in heavy timber or brush fires, to assure some coverage of the seeds. Grass fires practically denude the soil of cover, and in these cases the familiar ground methods of seeding still are the more successful.

3. "The Orange Situation." Up to 20 years ago orange crops had ranged below 1,200,000 tons a year. Recent crops have been about than doubled in the two decades, and now the consumption of the processed orange products has increased from a triffing supply to a quantity greater than the total crop of 20 years ago.

4. "Topcrop - The Commercial Stringbean." Topcrop is the winner of the 1950 Gold Mcdal among the All-America selections — and has proved its high quality for eating fresh, for canning, and for freez-ing — with a higher yield (nearly double) than the common varieties. From the commercial grower's point of view it is wonderful, because he will get the full yield of this great crop in two pickings. As Top-crop comes into bearing in 7 weeks, repeated plantings every ten days or two weeks arc desirable.

'5. "Re-Use of City Water." Wherever man has tapped natural reserves of water extensively, the water tables of our land have fallen. This is as true in the West as in the East. As true, in principle, for irrigation, as for the providing of great cities like New York or Los Angeles with their water. The subject is one for sermons — or volumes - or simple paragraphs. Or a sentence, We can exhaust our natural water supplies.

We can do these things to halt or offset overuse of water: dis-tribute run-off water from mountain areas in the West to the plain areas where waters rush through — fan the waters out, or hold them back, to the end that they shall sink into the naturally thirsty soil

and so provide again the kind of water deposits that California has fast been draining dry with its artesian wells; return all water used (everywhere possible) to the ground water supply; hold within watershed potentials at all times the use of water for city and industrial purposes; spread the gospel that our land is the sponge from which we wring out water, be it by rivers, dams, artesian wells, or surface wells . . . and we can exhaust these.

6. "The Old Chestnut Again." The old New England Chestnut and the Old Farmer have faith in each other. The Old Farmer doesn't believe the chestnut trees of New England and the East are things of the past—the pure strain. The chestnut trees of our youth despite years of blight are not all dead yet (the stumps at least) — and there are new young shoots unblighted — some of them bearing chestnuts. These reports are from many anthenticated sources in New England. Chinese chestnuts may be introduced in the southeast, and perhaps as far north as the New England States, and these, sweet and good-keepers, are apparently blight resistant. Speculatively, may they not be coming in just when our chestnuts are on their way back?

Chestnuts of the "old strain" may or may not be able to shake off the blight. Logically they should be able to — after all these years of dying — and now to spring anew and produce seedlings!

7. "More Artificial Insemination." At the beginning of the year more than 2,400,000 cows in more than 300,000 herds are enrolled for artificial insemination. The Bureau of Industry estimates that about 10 percent of all dairy cows in the United States will have been bred artificially in the past year.

The primary advantage of artificial insemination is, of course, from the much wider use of the very best sires. The artificial breeding association can afford to select sires of highest quality, such as the individual owner of a producing herd could not expect to use because there are not enough sires of superior quality to go around.

8. "Pill For Lobsters." Hitherto lobsters caught in Maine or anywhere else along the eastern seaboard might be transported to western markets only in barrels with ice and seaweed — with an average loss of 10 to 30 per cent of the lobster weight depending on the heat during shipment. Now Joseph R. MacDonald, executive of the Live Pak Foods Company of Boston, has devised a pill which will produce artificial salt water of just the kind that will keep eastern lobsters alive and full-weighted till they reach their furthest destination. Lobsters cannot live in Pacific water, polluted water or fresh water, and so Mr. MacDonald's pill—or "gunk" as he calls it—eombines the particular saltiness of North Atlantie waters with other chemicals required for healthy lobsters—and a certain small amount of this added to any fresh water will turn it into a proper carrier medium for lobsters anywhere. Eventually tanks of water so treated placed strategically all over the country will allow eastern seaboard lobsters to "swim" across the continent.

9. "Seeds from Canada." The United States Department of Agriculture report on importations of agricultural seeds emphasizes the close relation of farming north and south of the Canadian border. For the fiscal year ending June 30, 1949, the three crops for which imports of seed were greatest were sweet clover, alfalfa and oats. Of the more than 20 million pounds of alfalfa seed, Canada supplied more than 19 million pounds with the greater part of the remaining coming from the Union of South Africa. Canada also supplied nearly all of the more than 13 million pounds of imported oat seeds.

10. "More Drying, More Rot of Sugar Beets." Though moisture and decay generally are thought to be a team of cause and result, it isn't so in the case of sugar beets according to John O. Gaskill, sugar beet specialist. He finds that the more the beets are dried before storing, the more they are subject to rot. Excessive drying eracks the cells of the beets makes them vulnerable to the attacks of various organisms.

11. "Niacin, Thiamine, Riboflavin and Iron." These, say the United States Department of Agriculture, are what have provided the "enrichment" of cercal foods in late years. About 65 percent of all the white flour sold as flour, bread and other cereal products in 1948 was enriched. At least 25 states now require enrichment of white bread, rolls, and flour.

12. "Creeping Tractors." To slow down a tractor to 1 mile in 8 hours was just what the market needed — for particular purposes: the transplanting to nursery rows the tree and shrub seedlings grown in seed beds to supply planting stocks for windbreaks and for planting in woodlands and forest farms. Such "creeping" was prop-erly the care of a Nursery Manager (pun intended) — Tom Bradley of the Soil Conservation Service — in charge of the tree nursery near Zanesville, Ohio. He altered a tractor into a creeper by setting the engine of his tractor just enough ahead on its frame so that he could introduce an automobile transmission into the power line. Then by operating both the regular tractor and the newly added transmission unit in low gear the machine could move steadily forward at 10 feet a minute. This is as fast as skilled workers can feed the tiny trees into the transplanting machines. The tractor hauls 5 of these units and permits a driver and 5 plaut handlers to get young trees into the nursery transplanting bed at the rate of about 10,000 an hour.

13. "Metal Ladders and Electricity." Because of their strength and light weight, ladders made of aluminum or similar metals have become increasingly popular among fruit growers. However, unlike older types, metal ladders are excellent conductors of electricity.

The Farm Service Division of the Detroit (Mich.) Edison Company suggests, therefore, that special caution be taken to prevent contact with electric lines running through or alongside orchards, for such contact may result in serious, even fatal, accidents.

14. "Organic Gardening." Ray Koon, in the May 1950 issue of Horticulture, states: "The organic champions claim that chemical fertilizers are ruining our soils and undermining the health of man and animals and are responsible for nervousness, heart trouble, gall stones, ulcers, arthritis, rheumatism and cancer. This is not proven!

"Another indictment against chemical fertilizers is that they are "Another indictment against chemical fertilizers is that they are killing off our earthworms, those faithful underground toilers, so beneficial to the soil. The falsity of this claim has been proved again and again. The most recent report on this comes from the U.S.D.A. Research Station at Beltsville, Md., as a result of carefully controlled experiments: 'Earthworms thrive and do a better job of soil building on well-fertilized land. More benefit is obtained from fertilizer where comburgers are present.' So it works both ways fertilizer when earthworms are present.' So it works both ways.

"The defenders of the organic theory say that bugs and blights are not so likely to attack plants grown without fertilizer. Pests just don't like the taste of unfertilized plants, it seems. This is not true. It is true that healthy plants are better able to resist pest attacks than are unhealthy plants, but we grow such plants in soil well-balanced as to both organic matter and chemical plant food.

"And right there is the secret of successful farming and good gar-deniug—the maintenance of a proper balance between organic materials and chemical fertilizer.

"Louis Bromfield, well-known author and the proprietor of Malabar farm in Ohio, recognizes the importance of a humus-packed soil, and has improved his impoverished acres by turning under tons of vege-table matter. But he says: 'Do not think for a second that I belong to what is called the organic farming group. It is impossible for this country to do without chemical fertilizer and in great quantities.'"

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Pres.	V .P.		Dowfur	Inaug.	Served
No.	No.	Name	Party		
1		George Washington	Fed.	1789	$1789 - 93 \\ 1793 - 97$
•		acorge transfer at		3144 -	1793-97
	1	John Adams		ditto	ditto
2	-	John Adams	Fed.	1797	1797-1801
2	2	Thomas Jefferson		ditto	ditto
3	2	Thomas Jefferson. Thomas Jefferson**	Dem. Rep.	1801	1801-05
ð	3	Aaron Burr**.		ditto	ditto
	Ð		Dem. Rep.	1805	1805 - 09
	4	Coorge Clinton		ditto	ditto
4	4	George Clinton James Madison George Clinton	Dem. Rep.	1809	1809-13
		Coorga Clinton		dltto	ditto
		James Madison	Dem. Rep.	1813	1813-17
	5	Fibridge Corry	Dominatop.	ditto	ditto
=	5	Eibridge Gerry	Dem. Rep.	1817	1817-21
5		James Montoe	Dom. Rop.		1821 - 25
	c	Danlel D. Tompkins		ditto	ditto
•	6		Rep.	1825	1825 - 29
6	~	John Quincy Adams John C. Calhoun	nop.	ditto	ditto
-	7	John C. Calhoun	Dem.	1829	1829-33
7		Andrew Jackson John C. Calhoun	Dem.	dltto	dltto
		John C. Calhoun	Dom	1833	1833-37
		Andrew Jackson	Dem.		dltto
_	8	Martin Van Buren	70	ditto	1837-41
8		Martin Van Buren	$\mathbf{Dem.}$	1837	ditto
	9	Richard M. Johnson	7347 1	ditto	
9		William H. Harrison*	Whig	1841	1841-
	10	John Tyler		ditto	dltto
10		John Tyler**	Whig		$1841 - 45 \\ 1845 - 49$
11		James K. Polk	Dem.	1845	
	11			ditto	ditto
12		Zachary Taylor* Millard Fillmore Millard Fillmore** Franklin Pierce.	Whig	1849	1849-
	12	Millard Fillmore.		ditto	ditto
13		Millard Fillmore**	Whig		1850-53 1853-57
14		Franklin Pierce	Dem.	1853	1853-57
	13	William R. King		ditto	ditto
15	10	James Buchanan	Dem.	1857	$1857 \ 61$
10	14	I C Brookinridge		ditto	ditto
16	1 *	Abraham Lincoln. Hanibal Hamlin Abraham Lincoln*.	Rep.	1861	1861 - 65
10	15	Hennibel Hemlin		ditto	ditto
	10	Abrehem Lincoln*	Rep.	1865	1865 -
	16	Androw Johnson	p-	ditto	ditto
17	10	Andrew Johnson	Dem.	1865	1865-69
$17 \\ 18$		Huranos & Crapt	Rep.	1869	$1865-69 \\ 1869-73$
18	1 17	Collar Colfor	nop.	ditto	ditto
	17	Schuyler Colfax Ulysses S. Grant	Rep.	1873	1873-77
	10	Ulysses 5. Grant	nop.	ditto	ditto
	18	Detherford D. Howe	Rep.	1877	1877-81
19	*0	Henry Wilson Rutherford B. Hayes William A. Wheeler	nop.	ditto	ditto
20	19	William A. Wileeler	Dop	1881	1881-
20		James A. Garfield*	Rep.		ditto
	20	Chester A. Arthur Chester A. Arthur**	Den	ditto	1881-85
21		Chester A. Arthur**	Rep.	1885	1885-89
22	~ ~	Grover Cleveland. Thomas A. Hendricks	Dem.		ditto
	21	Thomas A. Hendricks	Tion	ditto	1889-93
23		Benjamin Harrison	Rep.	1889	ditto
	22	Levi P. Morton	Dam	ditto	1893-97
	~~	Grover Cleveland	Dem.	1893	
	23	Adiai E. Stevenson	D	ditto	ditto
24		Levi P. Morton. Grover Cleveland Adlai E. Stevenson. William McKinley.	Rep.	1897	1897-1901
	24	Garrett A. Hobart	T	ditto	ditto
		William McKinley*	Rep.	1901	1901-
	25	Theodore Roosevelt		ditto	ditto
25		Theodore Roosevelt**	Rep.	1005	1901 - 05
		Theodore Roosevelt	Rep.	1905	1905-09
	26	Charles W. Fairbanks	-	ditto	ditto
26		Wiillam H. Taft	Rep.	1909	1909 - 13
	27	William McKinley Garrett A. Hobart. William McKinley* Theodore Roosevelt. Theodore Roosevelt. Charles W. Fairbanks. William H. Taft. James S. Sherman. Woodrow Wilson		ditto	ditto
27		Woodrow Wilson	Dem.	1913	$\substack{1913-17\\1917-21}$
	28	Thomas R. Marshall		ditto	ditto
28		Warren G. Hardlng*	Rep.	1921	1921 - 23
20	29	Calvin Coolldge		ditto	ditto
29		Calvin Coolldge** Calvin Coolldge	Rep.		1923 - 25
20		Calvin Coolidge.	Rep.	1925	1925 - 29
	30	Charles G. Dawes		ditto	ditto
30	00	Charles G. Dawes. Herbert C. Hoover.	Rep.	1929	1929-33
00	31	Charles Curtis		ditto	ditto
31	0.	Franklin D. Roosevelt	Dem.	1933	1933-37
01		A contract 27, ACCORDINGTORD,	200m.	1000	1933 - 37 1937 - 41
	32	John N. Garner		ditto	dltto
	32	John N. Garner. Franklin D. Roosevelt.	Dem.	1941	1941-45
	33	Henry A Wallace	1.0111.	dltto	ditto
	00	Henry A. Wallace Franklin D. Roosevelt*	Dem.	1945	1945-
		Horry S Trumon	Dem.	ditto	dltto
90		Horry S. Trumon**		1045	1945-49
32		Horry & Trumon		$\begin{array}{c}1945\\1949\end{array}$	1940-49
	0.1	Harry S. Truman Harry S. Truman Harry S. Truman** Harry S. Truman Alben W. Barkley		ditto	dltto
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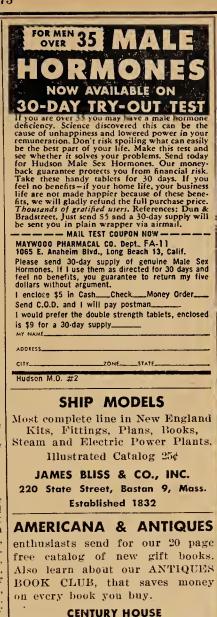
Some years ago some idle wit collected figures giving the distances to which sound is conveyed under favorable atmospheric conditions. He reported that J. J. Stranahan of Erie, N. Y. heard the noise of the train and its whistle on the trestle at Erie, nineteen miles distant. W. J. M. of San Pablo, Calif. could hear clearly on calm Fall days the rumble of cars and the train whistle from a trestle eighteen miles distant. J. H. S. said he could hear frequently the railroad shop whistle at Grand Island from his home in Orville, 28 miles distant. C. V. Swarthout, Cape Vincent, N. Y. frequently heard the whistle at Kingston, Ontario, twenty miles away. Carpenters working on the roof of a Jaffrey. New Hampshire church are said to have heard the cannon at Bunker Hill —sixty-five miles away.

PALACE OF ICE

Built by the direction of Anne, Empress of Russia, in 1730 to honour the nuptials of Prince Galatzin with a peasant girl was The Palace of Ice. The bride and bridegroom had to pass their wedding night in a room the walls of which, all the furniture, and even the bed itself were wholly of ice.

LUCKY FRIDAY

Friday is a lucky day for the U.S. Christopher Columbus sailed for America on Friday, August 21. He discovered America on Friday, October 12. On Friday, Jan, 4, 1493, he returned to Spain. and arrived safely on Friday, March 13. On Friday, Nov. 22, he arrived safely again on our shores, and on Friday, Nov. 22, he arrived safely again on our shores, and on Friday, June 13, 1494 he discovered this continent. On Friday, March 5, 1496, Henry VIII gave John Cabot his commission. On Friday, Sept. 7, 1565. Melendez founded St. Augustine. On Friday, Nov. 10, 1620, the Mayflower reached Provincetown . and Plymouth on Friday, the 22nd. Saratoga surrendered Friday, Oct. 17, 1777, Yorktown surrendered Friday, Sept. 19, 1791. John Adams moved for U.S. Independence on Friday, July 7, 1776. The Newfoundland cable was laid safely by Friday, July 27, 1866.



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The Voiage and Travaile of Sir John Maundeville, Knight.

In 1356 A.D. John Maundeville, an Englishman, penned by hand in four different languages an account of travels he had made over a period of 34 years. Excerpts from this book taken from a 1725 English edition, now out of print, follow. The spelling in these excerpts has been modernised, the construction remains like the original. The woodcuts reprinted here are identical with the origi-nals. The original runs some 316 pages in type and is much songht by scholars everywhere. Owners of this edition of the Alumana should by scholars everywhere. Owners of this edition of the Almanac should realise that these excerpts constitute the only available American or English "Maundeville," as well as a first edition in the modernised spelling.

Much of Maundeville is incredible and fantastic but the border land of this strange, "real." world of the present day — a world of changing frontiers, discovery, and invention — is certainly no less

changing frontiers, discovery, and invention — is certainly no less incredible than that of Sir John. "John Maundeville departed from his country (England) in the year of Christ 1322: and as another Ulysses, returned home, after a space of 34 years. . . In the time of his travaile he was in Scythla, the greater and less Armenia. Egypt, both Lybyas, Arahia, Syria, Media, Mesopatamia. Persia, Chaidaea, Greece, Illyrium, Tartary, and divers others kingdoms of the world."

Sir John speaks:

Of the Land Of Tartary and the Great Khan

Now I have told you of some of the ways, by land and water that men go to Jerusalem: yet there is one way entirely by land unto Jerusalem — and that is by France. But the way is full long and perilous. And whoso goeth that way, he must through Alamayn (Germany) and Prnssia; and so unto Tartary. This Tartary belongs to the great Khan.

This is a poor land and beareth bnt little frnit. For there groweth little of corn or grain or beans or peas; but beasts be there enough. And there the people eat nought but flesh without bread; and they drink the broth thereof, and also they drink the milk. And all manwild beasts they eat — wild dogs, cats, raccoons, and all other wild beasts. And they have no wood or else little. And therefore they warm themselves and cook there over horse dung and cow dung, and of other beasts, dried against the sun, and princes and others eat but once in the day; and that but little, and they be right foul folk and of evil kind.

And in summer falleth many tempests and many hideous thunders and lightnings that slay much people and beasts. It is a country not worthy for hounds to dwell in. It is a country to sow to this tes and briers and broom and thorns — for no other thing is it good.



Of the Beliefs of Saracens

Of the Saracens I shall tell of a book Mahomet wrote that is called the Alkaron. In which book is written, among other things, that the Good shall go to Paradise and the Evil to Hell. And if a man is asked what Paradise means, he says Paradise is a place of delights where man shall find all manner of fruits in all seasons and rivers running of milk and honey and of wine and of sweet water: and they shall have fair houses and noble made of precions stones and of gold and of silver; and that every mau shall have 80 wives, all maidens; and he shall have ado with them every day, and he shall find them always maidens. . . Mahomet loved well a good hermit, and so often went Mahomet to this hermit that all his men were wroth; for he would gladly hear this hermit preach and keep his men awake all night. Therefore his men thought to put this hermit to death; and so it befell upon a night that Mahomet was drunken of good wine, that he fell asleep; and his men took his sword out of its sheath while he slept, and therewith they slew this hermit and put the sword all bloody in the sheath again. And at morrow when he found the hermit dead, he was full sorry and wroth and would have done his men to death; but they all with one accord said that he himself had slain him while he was drunken and showed him his sword all bloody. And he trowed they had spoken truly. And then he cursed the wine and all those that drink it. And therefore Saracens that be devout drink no wine — but some drink it privily.



At the hill of Garasoun, in Deluze, Egypt, where Abraham would have sacrificed his son Isaac

Of the Land of Job

The land of Job is a full fair country, plenteous of all good things. There be hills where men get great plenty of Manna, in greater abundance than in any other country. This Manna is called Bread of Angels; and it is a white thing that is full sweet and right delicious, and more sweet than honey_or sugar; and it cometh of the dew of Heaven that falleth upon the grass in that country; and it congeleth and becometh all white and swete; and men putteth it in medecines for rich men to make the stomach relax, and to purge evil blood, for it cleanseth the blood and putteth out melaneholy.

Of the Land of the Amazons

Beside the land of Caldea is the land of the Amazons. And in the realm is all women. For some time there was a king in that country and men married. But it so befell that the king had war; the which king was slain and all the good blood of his realm. And when the queen and all the other noble ladies saw that they were widows,

queen and all the other noble ladies saw that they were widows, and that all the royal blood was lost, they armed themselves, and, as witless creatures, they slaved all the men of the country that were left. For they would that all the women were widows as the queen and they were. From that time forwards they never would suffer man to dwell among them longer than 7 days and 7 nights; nor that any child that were male should dwell among them longer than he were weaned. If the child be a female they do away with one of its breasts with a hot iron: and if it be of a woman of great lineage they do away with the left breast that it may better bear a shield: and if it be of a wounan of simple blood, they do away with the right breast so that a woman of simple blood, they do away with the right breast so that it may shoot a bow.



In Ethiopia

In that country is a well that in the day is so cold that no man may drink therefrom: and in the night it is so hot that no man may suffer his hand therein. In Ethiopia be many kinds of folk. In that country be folk that have but one foot; and they go so fast it is a marvel; and the foot is so large that it shadoweth all the body against the sun when they would lie and rest them. In Ethiopia when the children be young and little, they all be yellow; and they wax of age, that yellowness turneth to be all black.

In India — of the Mell that changes its odor every hour of the day

Above the city of Polombe is a great mountain, and at the foot of the mount is a fair well and great that hath the odor and taste of all the spices; and at every hour the odor changeth and so also the taste. And whoso drinketh 3 times, without eating, of that water, he is free of all manner of siekness and will always be young. I have drunken 3 or 4 times, and methinketh, I am the better for it. Some men call it the Well of Youth, and say that the well cometh out of Paradise, and therefore it is of such virtue.



Where the father eateth the son, or the son the father, the husband the wife, or the wife the husband

In this isle it so befalleth, that if the father or the mother or father of any of their friends be sick, anon the son goeth to the priest and asks the idol if his father, mother, or friend is like to die of that sickness or not. And if the devil that is within the idol answer the sick one shall live, they keep him well; and if he say that he shall die, then the priest goeth with the son and with the wife of him that is sick and they put their hands upon his mouth, and stop his breath and so slay him. And after that they chop the body all in small pieces, and pray all their friends to come eat of him that is dead: and they send for all the minstrels of their countryside and make a solemn feast. And all that be of his kin, or claim to be his friends, and they come not to that feast, then are they shamed and outcast forever.

Here in this land they eat man's flesh to deliver the man of pain. For if the worms of the earth eat him, then shall the soul suffer great pain. When the flesh is thin, then say the friends they have done great sin to have let him linger so long and to suffer so much pain. And when they find the flesh fat, they say it is a good thing to have sent him so soon to Paradise; and that they have not long suffered him to endure in pain.

Of Folk Marvelously Distigured

In one isle are folk whose stature is of a cursed kind, that have no heads; and their eyes be in their shoulders. And in another isle be folk that hath lips so great that when they sleep in the sun, they can cover all their faces with their lips. And in another isle be folk with great cars and long that hangeth down to their knees. And when one entereth again into the land of the great Khan there be folk of little stature but three span long. They marry when they be one half year of age and beget children. And they live only but 6 or 7 years at the most. And he that lives 8 years men hold him right passing old.



Of the Great Khan of Cathay

In the city of Caydon in Cathay is the seat of the great Khan in a marvelous great palace, the walls of which are two miles around; and within the walls it is full of other palaces. And in the garden of the great palace is a great hill, upon which there is another palace. And all about the palace and the hill be many trees bearing many different fruits. And all about the hill be dykes both great and deep: and beside them be great vineyards, and in these vineyards so many wild geese and ducks and swans and herons, that they be without number. And all about these dykes and vineyards is the great gardeu, full of wild beasts; so that when the great Khan will have sport to take any of the beasts or the fowls, he will not chase them but shoot them from his windows without leaving his room.



The Isle of Strange Beasts

There be an isle that hath many beasts. There be in that country many cancels that is a beast as little as a goat, and liveth by the air alone and eateth nought nor drinketh nought at any time. And he changeth his color many times, all manner of colors that he list, save only red and white. There be also in that country passing great serpents, some 120 feet long, and they also of diverse colors. And there be others that have creats upon their heads and they go upright upon their feet, and they 'keep their jaws open from which always they drop venom. And there be wild swine as big as oxen in our country and unicorns as great as wild swine here. And there be Hons all white, and a beast that is greater than a horse that men call Odenthos; and they have a black head and 3 long horns trenchant in the front and sharp as a sword; and the body is slender. And he is a full felonous beast, and he chaseth and slayeth the elephant.

Return Home

I John Maundeville Knight above (although I be unworthy), departed from our countries and passed over the sea the year of grace 1322, have passed through many lands and many isles and many countries, and searched full many strange places and been in many a right good honourable company, and at many a fair deed of arms (albeit I did none myself from mine insufficiency) now am I come home (in spite of myself) to rest: for gont and arthritis distract me. Thus taking solace in my wretched rest, recording the time passed, I have put these things in this book, the year of grace 1356 in the 34th year that I departed from our countries.

WORD CHARADES

(For answers turn to page 96)

- My second wakes when by my first
- The Birds are set a-singing, And with the echo of their joy The forest deep is ringing.

My whole, a dainty fragile thing, Braved wind and wave and tide, And now enshrined in history's page It lives, a nation's pride.

St. Nicholas Magazine

(The following Charades are all taken from At the Slgn of the Sphinx by Carolyn Wells)

2

On either side the river lie Long fields of barley and of rye; My first blows free beneath the sky

And through the field the road runs by

To many-towered Camelot.

- There she weaves by night and day
- magic web of colors gay;
- She dare not from my second stray,

The Lady of Shalott.

The gemmy briddle glittered free, Like to some branch to stars we see;

Perhaps is was my whole to thee, O bold Sir Lancelot!

3

Demure, modest, and meek, In my whole she rode by, With my first on her cheek, And a smile in her eye. And when she had passed, I said, "She's a dear, And her critic my last To say she is queer."

- Beneath the sharp axe Queen Mary knelt,
- And often its blows my first has dealt
 - To kings and queens and chickens.
- The hour for my whole to each must come,
- My first of my second is thought by some
 - The finest work of Dickens.

- Though hardly a path of glory. My first leads to the grave; Unless by giving my second Both life and health we save.

My third is of very small value, The favorite haunt of a mouse:

My whole you will find in the kitchen

Of every well-ordered house,

6

Sweet Priscilla at my side Gayly o'er the waves we ride. As we banter on the yacht, She is happy, I am not; For beneath my first, her eyes Frown and smile and tantalize. Though she rules my very soul, She is governed by my whole. If she'd only marry me, How contented I would be: If I heard our wedding-bell, If my second on us fell, Gayly then away I'd ride Sweet Priscilla at my side.

7

- My first's a sum of money that I have never seen
- Though I have earned it often and spent it too, I ween.
- When money is my second 'tis often hard to get;
- My second is a pretty sight, although it's rather wet.
- whole's a sad misfortune Μv caused by a summer rain;
- caused by a summer the my makes much trouble in my first and goes against the Tt. grain.

- To win my first men struggle all their lives,
- Yet willingly present it to their wives.
- The wise man no great fortune has amassed.
- But lives his life contented with my last.
- An infant is my whole at early age
- And Lot's wife was my whole on Scripture's page.

80

Query

I read in one of your numbers an article on the amount of hard drink consumed at the installation of a pastor in the early days. Now I can not find it although I have looked back many years. Can you help me? Warner M. Van Norden 7 West 57 St. New York City.

Note: We Ed. have searched this Almanac's files for such a story as Mr. Van Norden suggests but we are unable to find anything at all like it. If any reader knows about such a shocking proceed-ing, please write him.



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OLD FASHIONED PUZZLES

From St. Nicholas Magazine

(Answers to appear on page 96)

1. Double Acrostic

- 1. The subject of your thoughts I tell.
- 2. A word that speaks a long farewell.
- 3. A native of a distant land.
- 4. I mean to seize with sudden hand.
- 5. And I to take with trust the true.
- 6. In Italy, my home, I grew.
- 7. Me, before all, should men pursue.

Initials

Never found on land or sea; But in mid-air look for me.

Finals

Piercing darkness, golden bright, Giving life and shedding light.

2. Enigma

I am composed of thirty-eight letters: My 30, 4, 21, 5, 24, 38 is a city in the United States. My 1, 22, 9 is a domestic animal. My 6, 34, 19, 13 is the name of a month. My 14, 17, 31 is an insect. My 6, 7, 28, 33, 35, 21 are employed in court. My 29, 18, 20, 12, 5 is one of the five senses. My 23, 36, 28, 25, 32, 27, 18, 20, 12, 11 is a number. My 26, 33, 35, 29, 10 is a useful animal. My 30, 2, 37 is a weapon used by the Indians. My 15, 3, 8, 34, 16 is to endow. My whole is an old saying.

3. Riddle

Take the name of a useful animal, insert a consonant, and find the name of a celebrated mountain; then insert a vowel, and find a confection.

4. Geographical Acrostic

1. A famous watering-place. 2. A fresh water lake in Central Africa that Livingstone investigated. 3. One of the oldest cities in Asia. 4. A large island in the Northern Ocean, famous for its boiling springs and subterranean fires, 5. An empire that has four hundred millions of inhabitants and the Oldest government now in existence. 6. A range of mountains whose tops are covered with perpetual snow, and the country all around covered with perpetual verdure. 7. A river and gulf of Siberia. 8. A frozen northern country. 9. A land you and I love. 10. The country where Scott and Burns were born. The initials of the above will give you the name of one whom we hope you are glad to see.

Beheaded Rhymes

Fill the first blank with a certain word; the second, by the same word minus its first letter; the third, by original word minus first two letters; and in like manner the lines of the second stanza:

Ι

- The princess who once tried to....
- Her fair hand wounded with the....

A magic sleep, she then fell.... And thus for years she lay;

II

Until, to break the slumber.... Ere her sweet soul by it were.... A noble knight, by true love.... Kissed all the spell away.

Cross-Word

- My first is in crow, but not in hawk;
- My second is in landing, but not in dock;
- My third is in horse, and also in mule;
- My fourth is in govern, but not in rule;
- My fifth is in patch, but not in mend;
- My sixth is in tear but not in rend;
- My seventh is in trouble, but not in grief;
- My eighth is in robber, but not in thief;
- My ninth is in saw, but not in seen;
- My whole is the name of a wicked queen.

All Named Smith? Every man has two parents, four grand-parents, eight great grandparents, sixteen great-great grandpar-ents, etc. If we call one generation years and carry -30 one out the above calculation to the Norman Conquest each person in England must have had 32 million ancestors. Carry the calculation farther back will and soon you will pass beyond any population which ever existed on the globe. A thousand years from now brings the number up to 1,024,000,000.

Here's to You!

The drinking of originated healths during the Danish occupation of Britian. The Danes frequently stabbed Englishmen while in the act of drinking. It finally became necessary for the English, in view of the constant repe-tition of this dastardly mode of assasination to enter into compact by these mutual pledges of secur-ity for each other's health and preserva-tion. Hence the cushealth tion. Hence the each tom of pledging each other's health. Next time you toast a friend, remind him then it is just a promise you won't him until later! stab

CHAIR CANE

Long selected Superfine, \$3.15; Finefine, \$3.25; Fine, \$3.50; Medium, \$4.00; Com-mon, \$4.50 per hank. Fine woven cane webbing, \$1.50 square foot.

Flat and oval reeds, \$1.75 per pound. All postpaid.

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IF YOU **GET UP NIGHTS Check These Symptoms For KIDNEY TROUBLE**

If you get up many times during the night to go to the bathroom, you may have non-organic Kidney Trouble. Some of the sympbladder weakness, burning up nights are, bladder weakness, burning passage, leg pains, circles under eyes, loss of pep, nerv-ousness, headaches, dizziness. You may need a reliable, stimulantdiuretic like KED-NEX PILLS to help Nature remove irritating overess eaids poisonous westes and cortain excess acids, poisonous wastes and certain germs. This cleansing flushing action helps alleviate many pains, aches, soreness, stiffness—helps reduce night and day calls— allows you to enjoy and benefit by restful sleep. So order KED-NEX PILLS today, but send no money. Pay postman \$2 plus postage and C.O.D. charges. If you send cash with order we pay all postal charges. MONEY BACK IF NOT HELPED. YOU can order KED-NEX PILLS with confidence for if you are not belond by the your first for if you are not helped by the very first box we'll give you back your moncy. Rush name and address NOW.



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ANY LUCK? SURE! MY WIFE PUT UP UNDERWOOD DEVILED HAM SANDWICHES!

84

THE ORIGINAL! ALL FINE HAM ESTFULLY SEASONED

UNDER WOOD DEVILED HAM

Guaranteed by Good Housekeeping

> Quick trick!! Spread UNDERWOOD'S on toast under poached or scrambled eggs



FARM FARE FOR CITY LIVING

MAINE CLAM CHOWDER

1/4 pound salt pork 2 medium sized oni medium sized onions 1½ quarts fresh clam broth 2 medium size potatoes 1 pint fresh clams

1/2 pint milk 1/2 pint cream 6 ounces butter salt and pepper

Dice and saute the salt pork. Chop the onions and add to the salt pork and continue cooking for about five more minutes. Add the clam broth . . then the cubed potatoes and cook for about 20 minutes longer. Add the chopped clams and cook for five more minutes . . then add milk and cream and bring to a boil. Lastly add butter and salt and pepper to taste.

PECAN MUFFINS

2 cups flour 3 teaspoons baking powder 1/2 teas, nutmeg ¹²/₂ teas, cinnamon ¹⁴/₄ teas, ground clove 1/4 cup sugar

1/2 teas, salt 1/2 cup pecans, chopped 1 cup milk 1 beaten egg 1/4 cup melted shortening

Sift all the dry ingredients together. Stir in the nuts. Combine the milk and egg and stir into the dry mixture. Add the melted shortening and pour into greased muffin tins and bake in a 425° F. oven for about 25 minutes.

BOSTON COOKIES

8 teaspoons butter S teaspoons lard 1 cup sugar 1 egg, well beaten ¼ cup milk

2 cups flour 2 teaspoons baking powder ¼ teas. salt 2 teaspoons vanilla

Cream the butter and the lard together. Add the sugar, egg and milk to creamed mixture. Sift and add the dry ingredients. Add vanilla. Roll thin and cut with large round cutter. Bake in a 375° F. oven for about six minutes.

DURGIN PARK BLUEBERRY CAKE

3/4 cup sugar 2 beaten eggs 3 cups flour 3 teas. baking powder 3/4 teas. salt

1¼ cups blueberries that have been washed and drained I T. melted butter 1½ cups milk

Mix the sugar with the beaten eggs. Sift the flour, the baking powder and salt and add. Stir in the blueberries, melted butter and milk. Beat just enough to mix. Bake in a 400° F. oven for about thirty minutes.

PARKER HOUSE TRIPE

Cut fresh tripe in four inch squares. Season to taste with salt and pepper and sprinkle with flour, then dip into pure olive oil and sprinkle with bread crumbs. Broil slowly for two or three minutes on each side or until the crumbs are brown. Serve with

A FEAST

FOR FOLKS WHO KNOW

86

Ment Brick Oven

KED BEAN

HAVE YOU KNOWN the savory aroma that filled the air of an olden-time New England kitchen when a pot of day-long-baked beans came sizzling from the oven?

Then it's for you that B & M Beans are baked-really baked in down-east ovens all day long, from the traditional New England pork-and-molasses recipe.

The only difference-you need merely re-heat B & M Baked Beans and serve them.

MUSTARD SAUCE

Saute 1 T. minced onion in 3 T. butter. Add 2 T. cider vinegar and simmer for five minutes. Moisten 2 Teaspoons dry mnstard with 1 T. water and blend. Then add 1 cup brown gravy. Allow to simmer for a few minutes and serve very hot.

NANTUCKET CORN PUDDING

1 egg 1 eup milk 1/2 teaspoon salt 1 teaspoon sugar

1/2 T. melted butter Few grains of cayenne 1 enp cooked corn

Beat the eggs; add the milk, seasonings, butter and corn. Turn the mixture into a buttered baking dish. Bake in a moderate or 350° F. oven for about 40 minutes or until the mixture will not adhere to a silver knife when inserted in the center. Serve as a main course dish.

HOUSEHOLD HINTS

Stain Removal: Always start with an ample supply of cleaning pads made of absorbent cotton materials and cleaning cloths (when possible) made of the same material as the garment to be cleansed. Treat all stains as soon as possible . . . this prevents setting! Always test the cleaning agent on a small piece of the material found on inside seams or if necessary, at the hemline.

Chewing Gum: Scrape off as much as possible. Dampen cleaning cloth with carbon tetrachloride and apply with a circular rubbing motion.

Coffee: Soak the stain immediately in cold water, wash in mild soapsuds and rinse thoronghly. If the fabric is not washable sponge with cold water, allow to dry . . . if stain still remains use noninflammable cleaning fluid.

Egg: Use soap and cold water. Hot water has a tendency to harden the egg hence may set the stain.

Fruit Stains: Act immediately. Use cold water. If the garment is washable soak in cold water and then sponge with bleach water. If the garment is not washable sponge with cold water, or soak stained portion in cool water and then apply a few drops of white vinegar. Grass: Rnb with heavy suds, using a soft brush if fabric is wash-

able. If not, sponge with alcohol if fabric will stand the test.

Greasy Food: Scrape off excess with spatula; sponge with carbon tetrachloride and launder.

Grease: (Antomobile, Road Oil, etc.) Remove excess with dull knife. Rub lard into the spot nntil no more grease is picked np. Scrape off and launder. If fabric is not washable sponge with carbon tetra-

chloride or take as quickly as possible to an expert cleanser. Indelible Pencil: If fabric is washable and will pass the test then soak in alcohol. If stain remains then stretch the fabric over a bowl filled with hot water and apply bleach water.

Iodine: If washable fabric is to be treated sponge with a dilute solution of ammonia. (Six drops of ammonium hydroxide in ¹/₂ measnring cup of water.) If on heavier fabric apply a paste of raw starch and warm water. Allow to dry and brush off. Repeat if necessary.

Iron Rust: Stretch the fabric over a bowl of steaming hot water. Moisten the stains with clear water and apply lemon juice with a medicine dropper. Rinse and repeat if necessary. Or sprinkle stain with salt, moisten with lemon juice and expose to bright snulight. If fabric is not washable take to expert cleaner.

Lipstick or Rouge: Sponge with carbon tetrachloride.

Mercurochrome: Wash out as quickly as possible with clear water. If this does not work take to a professional cleaner as this is one of the most difficult stains to remove.

Mildew: Soak in a solution of bleach water. Sometimes stains of this nature can be removed by washing and then allowed to dry in

the sun. Mud: Allow to dry thoroughly. If stain remains sponge with alcohol and launder.

Nail Polish: If the stain is on polish a regular polish remover may be applied. Do not use this method on rayon or sllk.

Perspiration: Lannder promptly. If the color has changed hold the stain over a bottle of ammoninm hydroxide. If the color has goue nothing can be done.







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Save the box tops. Write for our list of available merchandise premiums.

WHITE HOUSE COFFEEBox 1871BOSTON, (5) MASS.

Salad Dressing: Sponge with cold water and dry. Remove remaining grease with carbon tetrachloride. If a rayon material sponge with carbon tetrachloride.

Scorch: Moisten stain with clear water and place in the direct sun light. Repeat if necessary. If fabric is not washable a good cleanser

is your best bet. Water Spots: With such fabrics as velveteens, velvets or corduroys water spots can be removed by steaming garment in a closed bath-room with a tub filled with steaming hot water. (A wonderful way of banishing wrinkles from clothes when traveling.)

HOUSEHOLD HELPS

To Read Electric Light Meters: The pointer on the extreme right measures the units in kilowatt hours: the one to the left of it measures units in tens of kilowatt hours . . . the next measures in hundreds and the pointer on the far left, thousands. Read your meter from left to right. (If any pointer lies between two figures use the smaller number.)

To Keep Clothes from Freezing in the Winter: Simply add a large

handful of table salt to the rinse water. To Clean Neckties: Place in a glass jar filled with cleaning fluid. Put on jar rubber, screw cap on tightly and shake jar until dirt is loosened.

Clotheslines: Before using new one boil for thirty minutes. This minimizes stretching and tangling. To clean boil again in a strong salt solution or wrap the line around a washboard and scrub with brush and soap.

To Water Plants while away: Use a special wick made for this purpose or a home made one that you have made from cheesecloth or burlap. Place this wick in the hole in the bottom of the container. The rest of the watering wick rests in water in a partially covered container that supports the pot. The wick works like a lamp wick that carries oil to the flame.

Fly Catcher: Flies like string for a roost. Dip the string in a strong solution of insecticide that is strong with DDT. Just hang this string or several from the ceiling or from a light cord. Remember ... it takes a little time for the insecticide to take effect but you'll notice that there are fewer flies around.

WEDDING ANNIVERSARIES

1. Paper	13. Lace
2. Cotton	14. Ivory
3. Leather	15. Crystal
4. Books or Flowers	25. Silver
5. Wood	30. Pearl
6. Iron	35. Coral
7. Copper and Brass	40., Ruby
S. Bronze and Electrical gadgets	45. Sapphire
9. Pottery	50. Gold
10. Tin and Aluminum	55. Emerald
11. Steel	60. Platinum
12. Silk and linen	75. Diamond

POMANDER BALL

Make from apples, oranges or lemons. Select firm fruit and stick with whole cloves covering the entire surface. Hang in a clothes closet or place in a dresser drawer.

POTPOURRI

10 cups dried rose petals 3 ounces orris root

1/2 ounce each: { Ground cloves Cinnamon Allspice

Mix the ingredients thoroughly and allow them to mellow in an earthenware crock for several weeks before transferring to smaller earthenware crock for several weeks before transferring to smaller jars. This is the potpourri base and you may add herbs, spices or dried blossoms of your own preference. (The rose petals should be picked just after the dew has dried off them. Spread them on a window screen. Dry these petals in a cool airy room, never in the direct sunlight. When dried, rub them into a powder and then blend with the other incredients.) with the other ingredients.)

Tables of Measures

90

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=1/2 oz. 4 teaspoons baking powder=
- 1/2 OZ.
- 2 cups granulated sugar=1 lb.
- 2½ cups confectioners' sugar= 1 lb.
- 2½ cups wheat flour=1 lb. $3\frac{1}{2}$ cups whole wheat flour=
- 1 lb.
- 2¹/₂ cups buckwheat flour=1 lb. 5¹/₃ cups coffee=1 lb. 6¹/₂ 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 nautical mile=6080 feet
- 1 knot=1 nautical mile per hour 1 furlong=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=30¼ sq. yards= 272¼ sq. feet 1 square=160 sq. rod=272% 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

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 inch=2.54 centimeters
- 1 meter=39.37 inches
- 1 yard=0.914 meters
- 1 mile = 1609 meters =
 - 1.61 kilometers

0.45 kilograms

- 1 1
- sq. inch=6.45 sq. cm. sq. yard=0.84 sq. m. sq. mile=2.59 sq. km. acre=0.40 hektars 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=

1 kilogram=2.20 pounds

1 pound avoirdupois=

Rat Control

The total food consumed by rats costs us \$400,000,000 each year. In addition, rats cause damage to houses of another \$600,000,000. It is no disgrace to

have rats—it is to keep them. The female rat thas from 18 to 98 off-spring each year. Best time for a poison cam-paign is Fall. To catch a rat, appeal to its thirst, hunger, sex, or curiosity. Remember it can reach up to 18 can reach up to 18 inches, jump up 3 feet, and out-over 15. They'll burrrow down 5 ft., or climb a vertical or rusty 3 inch To do away wall pipe. with them, keep all garbage containers metal with close fitting tops. Abolish nests & hiding places. Ratproof your

buildings with screen doors—also screen all windows, vents, transoms, exhaust openings, basement drains, any openings in foundations or roofs, chimneys, ventilators.

Red squill baits or traps are best for rid-ding the house of the rat. Use traps of course when there are pets or children around or you don't want unseemly odors.

'Did Moses Write Pentateuch?' 10c; 'Case For Creation,' 85c'Were Fossils Contemporary?' 25¢; 'Was Creation 4004 B.C.?' 40¢; 'Universe-Plan Or Accident?' \$1.50.

Catalog Free

Christian Evidence League Box 277-F, Malverne, N. Y.





solid brass. \$1.25 postpaid.

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.P. HOOD & SONS

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CALF STARTER

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If you suffer from paroxysms of bronchial asthma, send post card for free information and free sample of tested Parasma Tablets or send \$1.00 for liberal supply. Money back if not helped. Write Charles Raymond & Co., Inc., 381 4th Ave., Dept. OF, New York 16. N. Y.

SQUARE DANCE BOOKS

by Rad LaFarge: Garden State Square by Idd Farger, Standard Calls 50c; How ta Square Dance 25c; Kissin' Games and Smoatch Dances 25c; Quadrilles \$1. ROSIN THE BOW (Square dance magazine) 6 issues \$1 ROD LAFARGE

115a Cliff St., (Hal), Paterson 2, N.J.

Home-Grown Knitting Yarn We have it in natural brown-from black sheep-and natural white. Spun from the wool of our own flock. Quarter pound skein \$1.25. Postage free any-where in U.S.

LYDIA FOOTE Paradise Avenue, Newport, R. I



GESTATION AND REPRODUCTION TABLE

P	Proper age for	Period of power of	No. of females		od of gesta d incubatio	
	first mating	repro- duction in years	for one male	Shortest days	Mean days	Longest days
Mare Stallion	3 yrs.	10 to 12 12 to 15	20 to 30	325	336	352
Cow	18-24 mos. 12-18	10 to 14	30 to 40	235	282	300
Bull Ewe	18 "	10 to 12 6		145	147	152
Ram	12-14 " 9 " 9 "	7 6 6	35 to 45 8 to 12	110	114	120
Boar` She Goat	18 "	6		147	151	155
He Goat	18 3 yrs.	5 10 to 12	20 to 30	356	367	378
Jack She Buffalo Bitch	4 " 18-24 mos. 16-18 "	12 to 15 8 8	20 to 30	309 58	315 63	325 67
Dog She Cat	12-16 " 12 mos.	8 6		58	60	64
He Cat Doe Rabbit Buck Rabbit Cock	$ \begin{array}{c} 12 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 7 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	6 to 8 30 12 to 18	25	30 '	35
Hen. Turkey. Duck. Goose. Pigeon.		5 to 6		19 24 28 27 16	$21 \\ 26 \\ 30 \\ 30 \\ 18$	24 30 32 33 20
Pea Hen Guinea Hen Swan Hen or Duck's				25 20 40	1 28 23 42	30 25 45
Eggs				22	30	34

REPRODUCTIVE CYCLE IN FARM ANIMALS

Courtesy F. N. Andrews - Purdue University

	Reoccurs if not Bred	incl. He	al Cycle eat Period Days)	In Heat for		In Heat for		Usual Time of Ovulation
	(Days)	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	1	•		

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ROUTE 20 . SO. SUDBURY, MASS.

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Open Everyday Till 9:00 P.M.

TRAW, an amazing liquid, quickly—easily removes ugly embarrassing warts—leaves skin smooth and beautiful. No pain—horny growths dry up. Results guaranteed or money back. Only \$1.00. We mail promptly. Write today. TRAW, Dept. OR2, Martin Ave., Clifton, N. J.

Some View

95

Chuck Harrington, states the Mount Washington Observatory Bulletin of Feb. 1950, a co-worker on Mount Washington, accompanied an icing technician from Boston to Great Falls, Montana. From there the pair angled across British Columbia—thence to Fairbanks and Juneau.

"Shortly after passing Mt. McKinley"—the icing technician reports "we had the uncanny experience of a simultaneous view—a sunset in the west and a sunrise in the east."

Origin of Prayer

Mrs. Harry E. Felton of Worcester, Mass. informs us that the prayer which was used on page 97 of last year's edition of the Almanac was written by Dr. Reinhold Niebuhr, Union Theological Seminary, New York City, He wrote it in 1932 as the ending to a longer prayer. In 1934 his friend, Dr. Howard Robbins asked permission to use that part of the prayer in a compilation he was making at the time and which appeared later as a book of prayers.

Aurora Borealis

H. P. Rowell of So. Lancaster, Mass. writes us that he does not believe the Aurora Borealis was seen in this world before 1564. He believes this fact places the Aurora among the other signs which the Lord said would be in the heavens as a sign of His second coming.

"There shall be signs in the heavens" (Dark Day of May 19, 1780, moon turned to blood the same night,— Falling of stars Nov. 13, 1833) "and on earth distress of nation—men's hearts failing them for fear, for looking after those things that are coming on earth."

Mr. Rowell suggests the reading of Joel and Nahum —as well as the November 1947 issue of the American Geographic Magazine.

Mr. Rowell wants to know why Henry Hudson and his men, in their efforts to locate a passage to India in the sections of our planet where we now see the Aurora, did not see the Aurora.





ANSWERS TO OLD FASHIONED PUZZLES

- (See page 82) ow, Sunbeam.—Riddles, Acrostic-Rainbow, 1. Double Adieu, Indian. Double Acrostic—Rambow, Subbeam.—Rudies, Added, Andra, Nab. Believe, Opera, Wisdom.
 Enigma.—Do not judge the feelings of others by your own.
 Riddle.—Camel, Carmel, Caramel.
 Geographical Acrostic.—St. Nocholas.—Saratoga, Tanganika, Nanking, Iceland, China, Himalaya, Obi, Lapland, America, Scotland.
 Deheaded Rhymes.—Spin, pin, in. Charmed, harmed, armed.
 Cross. Word.—Clopatra

- 6. Cross-Word.-Cleopatra.

1950 CYPHER CONTEST

1950 CYPHER CONTEST None of the many solutions submitted to us came anywhere near solving the cypher in the 1950 Old Farmer's Almanac. The number was 1--1,1314. 1 stands for page one of the title page. The dash is a minus sign: hence, the cypher referred to Page onc minus 1 or the inside front cover or the advertisement of The John Hancock Mutual Life Insurance Company—lines 13 and 14. Because this puzzle cypher was not solved, no prize was awarded. Instead, we offer double last year's prizes; namely, first prize, fifty dollars, second prize, thirty dollars, third prize, ten dollars. The contest this year has No. 112-34. This number refers to two lines of type on a certain ad page of this edition. You are to submit the best two line rhyme you can think of in not over 13 words to go with these two lines. Yankee Magazine staff is the sole judge. Entries remain the property of Yankee, Inc. and none will be returned. Winners will be announced in the 1952 Old Farmer's Almanac.

RHEUMATIC PAINS MAKE THIS TEST FREE

If you'll just send me your name and ad-dress, I'll mail you ABSOLUTELY FREE a generous trial test supply of the NEW IMPROVED CASE COMBINATION METHOD with full instructions for the transient and palliative solid of theore an transient and palliative relief of those an-noying aches and pains commonly associated with and symptomatic of RHEUMA-TISM, SCIATICA, ARTHRITIS and NEURALGIA conditions. No matter how long you have had those pains and aches you owe it to yourself and your dear ones to try my new Improved Case Combination Method. IT DOESN'T COST YOU ONE PENNY TO TRY IT, SO SEND YOUR NAME AND ADDRESS TODAY TO

Paul Case, Dept. OFC, Brockton 64, Mass.



GIFT SUGGESTION!

For that new born baby of Uncle Jim or Aunt Sue—or even for Gramp —or Ma—a Life subscription to this Almanac would be much appreciated. Send Five Dollars. Yankee, Inc., Dublin, N.H.

ANSWERS TO **CHARADES**

- (See page S0)
- 1. May-flower
- 2. Heirloom.
- 3. Bloomers.
- 4. Deathknell.
- 5. Coffeemill.
- 6. Caprice.
- 7. Mildew.
- 8. Nameless.

Easy to use Viscose Home Method heals many old leg sores caused by leg conges-tion, varicose veins, swollen legs and injuries or no cost for trial if it fails to show results in 10 days. Describe the cause of your trouble and get a FREE BOOK O.F. VISCOSE COMPANY N 140 N. Dearborn St., Chicago, 111.

POSTAL RATES. - DOMESTIC

June 15, 1950

New legislation is again being proposed as we go to press, which may affect these rates.

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

LETTERS AND POSTAL CARDS. - FIRST CLASS.

Letters and Written and Sealed Matter, 3 cents for each ounce, local and nonlocal, except that drop letters are subject to 1 cent for each ounce when deposited for local delivery at offices not having letter-carrier service, provided they are not collected or delivered hy rural or star-route carriers.

Business Reply Cards or Letters, consuit Post Office.

NEWSPAPERS AND PERIODICALS .- SECOND CLASS.

MERCHANDISE AND MISCELLANEOUS. -- THIRD CLASS. (Limit of weight 8 ounces.)

Merchandise, incomplete copies of newspapers, printed and other mailable matter, 2 cents for first two ounces, 1 cent each additional.

Identical pleces of third-class matter may be mailed under permit in bulk lots of not less than either 20 pounds or 200 pleces, at the rate of 14 cents a pound, or fraction thereof, in case of circulars, miscellaneous printed matter, and merchandlse, and 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 1 cent a plece in either case. Apply to postmaster for permit. The bulk mailing fee is \$10 per calendar year. Minimum charge for pleces of odd size or form, 3 cents.

Catalogs and Similar Printed Advertising Matter, in bound form having 24 or more pages, weighing over 8 ounces but not exceeding 10 pounds.

			ZOI	NES				
	Local	1st and 2nd	3rd	4th	5th	6th	7th	8th cents
Pounds	cents	cents	cents	cents	cents	cents	cents 14	15
1	7 1/2	8 Lelobs	9	10	12	13	19	$\frac{15}{21}$
$\overline{2}$	81/2	91/2 202863	11	$12\frac{1}{2}$	15	11	24	27
3	912	11 9550000	13	15	18	21	29	33
ă ă	$10\frac{1}{2}$	121/2	15	171/2	21	25		
5	1115	14 9.5340	_17	20	24	29	34	39
ě	1212	15½ 9d+214	19	$22\frac{1}{2}$	27	33	39	40
7	131%	17 238202	21	25	30	37	44	51
ģ	141%	181/ 9 2-80	$\frac{\overline{23}}{25}$	$27\frac{1}{2}$	33	41	49	57
ŏ	1512	20 20 20 20 20 20 20 20 20 20 20 20 20 2	25	30	36	45	24	63
10	161%	21% 852888	27	$32\frac{1}{2}$	39	49	59	69

Books: 8c for the first pound or fraction thereof and 4c for each additional pound or fraction thereof—24 or more pages permanently hound, not to exceed 70 pounds in weight.
 Library Books: 4c for the first pound or fraction thereof and 1c for each additional pound or fraction thereof—limit of weight 70 pounds—when sent by public libraries, organizations, or associations not organized for profit for delivery in 1st three zones or within state where mailed.

PARCEL POST. -- FOURTH CLASS. (For Zone consult Post Office)

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

uie pui					ZONES	, ,		
Weight in Lbs.	Local	1-2 Up to 150 Miles	3 150 to 300 Miles	4 300 to 600 Miles	5 600 to 1,000 Miles	6 1,000 to 1,400 Miles	7 1,400 to 1,800 Miles	8 Over 1,800 Miles
$1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6$		\$0.12 .15 .17 .19 .21 .23 .25 .27	\$0.13 .16	\$0.14 .19 .23 .28 .32 .37			\$0.17 .27 .36 .46 .55 .65]	0.18 .30 .41 .53 .64 .76 .87 .99 1.10 1.22 1.33
$ \begin{array}{r} 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \end{array} $.16 .17 .18 .19 .20	.23 .25 .27 .29 .31 .33 .35 .37	$\begin{array}{r} .19\\ .22\\ .25\\ .28\\ .31\\ .34\\ .37\\ .40\\ .43\\ .46\end{array}$,41 ,46 ,50 ,55 ,59 ,63	.51 .57 .63 .69 .75 .80	$\begin{array}{c} .24\\ .31\\ .39\\ .46\\ .54\\ .61\\ .69\\ .76\\ .84\\ .91\\ .98\end{array}$.74 .84 .93 1.03 1.12 1.21	$\begin{array}{r} .87\\ .99\\ 1.10\\ 1.22\\ 1.33\\ 1.44\end{array}$
$12 \\ 13 \\ 14 \\ 15$.21 .22 .22 .23	.35 .37 .39 .41	.46 .49 .52 .54	.68 .72 .76	.86 .91 .97	$1.06 \\ 1.13 \\ 1.20$	$1.31 \\ 1.40 \\ 1.49$	$ 1.44 \\ 1.56 \\ 1.67 \\ 1.78 $

Permissible Additions to and Enclosures with Parcel Post: Marks, numbers, names or letters for description purposes may be placed on fourth-class matter. Books may bear a simple manuscript dedication or inscription not in the nature of personal corre-spondence. A written or printed involce or descriptive inscriptions indicating price, style, stock number, size, date of order, etc., may be enclosed. Inscriptions such as "Merry Christmas," or the like may be written on the parcel or acrd enclosed therein. A letter addressed to correspond with the address on the parcel may be tied to or other-wise securely attached to the parcel so as not to interfere with the address thereon. Stamps to cover upstage on the parcel must be affived to the wrapper and postage for the letter

to cover postage on the parcel must be affixed to the wrapper and postage for the letter must be affixed to the envelope.

Sealing: Fourth-class matter may be sealed provided it bears a printed label "Mer-chandise—Fourth-class mall," together with the inscription "Postmaster: This parcel may be opened for postal inspection if necessary."

SPECIAL CLASSES-DOMESTIC MAIL

Special Handling.—Fourth-class matter only. Parcels of fourth-class matter endorsed "Special Handling" will be given the most ex-peditious handling, transportation, and delivery practicable (but not special delivery) upon payment, in addition to the regular postage, of the following charge:

	Cents
Up to 2 pounds.	15
Over 2 pounds up to 10 pounds	20
Over 10 pounds	25

The special handling charge applies to all parcels containing day-old fowl, package bees carried outside mail bags, or baby alligators, and to any other parcels which it is desired to have so treated.

Special-Delivery Fees (all classes of mail including air mail):

	First class	Second, third, or fourth class
•	(cents)	(cents)
Up to 2 pounds	15	25
Over 2 pounds up to 10 pounds	25	35
Over 10 pounds	. 35	45

The prepayment of the foregoing fee on second-, third-, or fourth-class mail entitles it to the most expeditious handling and transportation practicable, and also entitles it to special delivery at the office of address. Particularly recommended for perishable matter and other parcels, especially air parcels, likely to reach offices of address too late for regular delivery.

Registered Mail .-- Fees for indemnity limited to:

\$5\$0.25	\$200\$0.60	\$700\$1.20
\$25	\$300	\$800 1.30
\$50	\$400	\$900
\$75	\$500 1.00	\$1,000 1.50
\$100	\$600 1.10	

Domestic registered mail is subject to surcharges in addition to regular registry fees when declared value exceeds maximum indemnity.

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

	Cents		Cents
\$5.*	5	\$50	20
\$10		\$100.	25
\$25		\$200	
	·		00

C. O. D. Mail—Unregistered (third and fourth classes and sealed matter of any class bearing postage at the first-class rate).—Fees for collections and indemnity limited to: Cents Cents

> 55 60

65

Cents 2535

.

\$100.
\$150
\$200.

Money Orders (limit \$100 each) .- Fees for orders from-

(Cents		
\$0.01 to \$5		\$10.01 to	\$50
\$5.01 to \$10		\$50.01 to	\$100

Postal Notes (limit \$10 each) .- Fee 8 cents each. Postal notes are valid for two calendar months from last day of month of issue and are payable thereafter only by means of a duplicate note, application for which may be filed at any post] office. Applications must be filed within 1 year from the last day of the month of issue.

POSTAL RATES (Continued)

AIRMAIL ON UNITED STATES CONTINENT:

Letters: .06 per oz. Postals: .04 each.

Parcel Post-up to 70 lbs.

ZONES	1&2	3	4	5	6	7	8
Weight in lbs, over	Up to 150	150 to 300	300 to 600	600 to 1000	1000 to 1400	1400 to 1800	Over 1800
8 ozs. to	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	\$0.55	\$0.60	\$0.65				\$0.80 6.65
$10 \\ 25$.91 1.51	A.32 2.52	$1.91 \\ 4.01$	6.46	8.67	11.55	16.40
50 70	2.51	4.52	7.51	$12.46 \\ 17.26$	$ \begin{array}{c c} 16.92 \\ 23.52 \end{array} $	$\begin{array}{c} 22.80\\ 31.80 \end{array}$	$32.65 \\ 45.65$
70	3.31	6.12	10.31	1 17.20	40.02	01.00	10.00

POSTAL RATES. --- FOREIGN

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

Post Cards.—Single post cards for places enumerated above 2 cents. Single post card for all other foreign destinations 3 cents. Maximum size $6x4\frac{1}{4}$ inches, minimum size $4x2\frac{3}{4}$ inches.

Printed Matter .- 11/2 cents for each two ounces or fraction thereof.

- **Eight-ounce Merchandise Packages.**—Packages of merchandise weighing 8 ounces or less, for the countries named in the table above, except the Philippines, 2 cents for each 2 ounces. Do not seal. Mark—"May be Opened for Inspection."
- Small Packets.—Three cents for each 2 ounces, with a minimum charge of 15 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.)

AIR MAIL: U.S. (Outside Continent) AND FOREIGN

A. 6 cents: (Per ounce) Canada, Mexico; Armed Forces or Civilian personnel with Army or Navy Postoffice addresses Continental United States, Alaska, Canal Zone. Canton Island, Guam, Hawaii, Puerto Rico, and U. S. Virgin Islands.

Aa. Postals and Post Cards:-4 cents each.

B. 8 cents: Cuba .08--1/2 oz.

C. 10 cents: Central and South America. West Indies, British and French Gulana, British Honduras, Surinam and Bermuda $.10--\frac{1}{2}$ oz.

D. 15 cents: Great Britaln, 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 $.25 - \frac{1}{2}$ oz. Weight limit is 4 lbs., 6 oz. except: Canada, 60 lbs.

F. Air-letter sheets, 10 cents each to any foreign country, on sale at all postoffices.

INTERNATIONAL PARCEL POST BY AIR

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

1. Commercial Samples (Uns	papers, Printe sealed)	d Matter, etc.,	2. Packages	
From U. S. to: England France Belgium Italy Sweden Egypt	First 2 oz. \$0.41 .42 .45 .45 .52	Ea. Add'l 2 oz. \$0.20 .21 .24 .24 .31	First 4 oz. \$1.00 1.22 .98 1.08 .85 1.35	Ea. Add'l 4 oz. \$0.41 .43 .50 .49 .64

100

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ABBREVIATIONS

Abbreviations used on calendar pages 12-35
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.
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.
Peri. — Perigee Moon reaches point in its orbit closet to Earth.
Peri. — Perihelion Planet revolving about the Sun reaches point in its orbit
closest to Sun.
Stat stationary when the apparent movement of a Planet against the
background of Stars stops — just before same comes to opposition.
Sup. — Superior Superior Conjunction is when the Sun is between the Planet
and the Earth.

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

The times given on the left hand calendar pages (12 to 34) 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 75 th 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 104 through 109.¹

Opposite the times given on the left hand calendar pages (12-34) 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 108 and 109 you will find columns for each of these letters as well as 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 12-34. If your city is not listed, enter the corrections table on pages 108 and 109 in that section, the longitude of which is nearest your town's and, using your town's latitude, interpolate between the corrections shown for various latitudes for figures to insert in Columns A to Q for your town in the space below.

Nodify these figures by four minutes for each degree of difference of longitude between the longitude of your town and the longitude of the table chosen as nearest it. Add this modification if your town's longitude is greater than the table's longitude, subtract it if it is lesser.

The net figures resulting from this modification will be those to use in correcting the Almanac figures for Boston to give the standard times for your town. The figure for insertion in the Moon column (\mathfrak{P}) is derived by interpolating between longitudes to fit the longitude of your town.

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

Do You Suffer Distress From 'PERIODIC' FEMALE WEAK has such a long record of success. and feel so nervous Pinkham's Compound not only relieves this monthly pain but also pre-period nervous tension and several days before? cross, irritable emotions-of this Do female functional monthly ailnature. It has such a comforting ments make you suffer painful distress, make you feel so nervous, antispasmodic action on one of woman's most important organs. so strangely restless, tired and weak—at such times (or a few days just before your period)? Regular use helps build up resist-ance against such female distress. Truly the woman's friend! Then start taking Lydia E. Pink-

Then start taking Lydia E. Pinkham's Vegetable Compound to relieve such symptoms. No other medicine of this type for women

NOTE: Or you may prefer Lydia E. Pinkham's TABLETS with added iron.

LYDIA E. PINKHAM'S Vegetable Compound

EXAMPLES OF HOW TIMES GIVEN PAGES 12-34 ARE TO BE CORRECTED FOR YOUR HOME TOWN

Sunrise and Sunset. The times of sunrise and sunset at Boston on April 11 are read directly from columns 4 and 6 on page 18. The key letters adjacent to these times, in columns 5 and 7, are indices to the table on page 108 whereby the times of sunrise and sunset at Boston are converted into those for other key cities, to wit:—

	BOSTON		HOUSTON	I, TEXAS
Sunrise Key Letter	5.11	A.M.E.S.T. G	Sunrise (Boston) Correction (Column	5.11 A.M.E.S.T.
				+:49
			Sunrise (Houston)	6:00 A.M.C.S.T.
Sunset Key letter	6:21	P.M.E.S.T.	Sunset (Boston) Correction (Column	6:21 P.M.E.S.T.
Rey letter		IX .		+:24
			Sunset (Houston)	6.45 P.M.C.S.T.

Sun Fast. The column headed "Sun Fast" is of primary use to sundial enthusiasts. The figures therein tell how fast on each day the time indicated by a *properly adjusted and graduated* sundial will be of the time indicated by a clock. On April 11 sun time in Boston will be 15 minutes Fast of Eastern Standard Time. The time indicated by a sundial located elsewhere than in Boston is converted to clock time by applying two corrections, the "Sun Fast" correction for Boston and that for the locality given in Column I of the table on page 108 or 109.

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. See pages 108, 109 to interpolate your latitude.

BUS.		NORFOLK, VA.				
(Latitude 4	2°22′N.)	(Latitude 3	6° 51' N.)			
Sunrise Subtract length of twilight (Column	5:11 A.M.	Sunrise Subtract length of twilight (Column	6:02 A.M.			
4 of table)	1:39	4 of table)	1:28			
Dawn breaks Sunset Add length of twi-	3:32 A.M.E.S.T. 6:21 P.M.	Dawn breaks Sunset Add length of twi-	4:34 A.M.C.S.T. 6:56 P.M.			
light	1:39	light	1:28			
Dark descends	8:00 P.M.E.S.T.	Dark descends	8:24 P.M.C.S.T.			

LENGTH OF TWILIGHT

Subtract from time of sunrise for dawn. Add to time of sunset for dark.

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

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).

BO	STON	HOUSTON, TEXAS				
Length of day From calendar	13h 11m	Sunset Sunrise	6:45 P.M. 6:00 A.M.			
pages)		Length of Day	12h 45m			

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 3 on pages 108, 109 must be applied.

I	BOSTON	HOUSTON
Moonrise Key letter	11:10 P.M., E.S.T. Q	Moonrise (Boston) 11:10 P.M. Correction (Col- umn Q, page 109) —:10 Correction (Col- umn 3 , page 109) +:04
		Moonrise (Houston) 11:04 P.M.,C.S.T.

Moon Souths. The time the moon souths in Boston is converted to the time it is due south in a locality other than Boston by applying the appropriate corrections from Columns I and 3 on page 48.

Moon souths 3:51 P.M.E.S.T. Moon souths (Boston) 3:51 P.M. Correction (Col- umn I, page 109) +:37 Correction (Col- umn 3 , page 109) +:04	В	OSTON	HOUSTON			
	Moon souths	3:51 P.M.E.S.T.	(Boston) Correction (Col- umn I, page 1 Correction (Col-	09) +:37		

Moon souths (Houston) 4:32 P.M.,C.S.T.

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

Risings and Settings of the Planets. The times of the rising and setting of the naked eye Planets with the exception of Mercury are given for Boston in the table on page 4. The procedure for converting these times to those of other localities follows that for converting the times of sunrise and sunset given on page 104.

AVERAGE DATES FIRST AND LAST KILLING FROSTS

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 forecasts as given on the right hand pages of the Farm Calendars on pages 13 through 35 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, 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 13-35, you may subtract one day for each time zone West of the Hudson to com-pensate 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

Мооп	Time of Change	In Summer	In Winter
	From Midnight to 2 A.M.	Fair	Hard frost, unless wind be S. or W.
ull ns.	From 2 A.M. to 4 A.M.	Cold, with frequent showers	Snow and stormy
trter, full happens.	From 4 A.M. to 6 A.M.	Rain	Rain
hal	From 6 A.M. to 8 A.M.	Wind and Rain	Stormy
1, 1st quarter, full quarter happens.	From 8 A.M. to 10 A.M.	Changeable	Cold Rain if wind be W.; Snow if E.
n, ls qua	From 10 A.M. to Noon	Frequent Showers	Cold & high wind.
moon, last qu	From Noon to 2 P.M.	Very rainy	Snow or rain.
ew n or l	From 2 P.M. to 4 P.M.	Changeable	Fair & mild.
A	From 4 P.M. to 6 P.M.	Fair	Fair.
If the moon,	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.

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.

the main, the above observations will apply to those periods also. 7. To prognosticate correctly, especially in those cases where the *wind* is con-cerned, the observer should be within sight of a good *vane*, where the four cardinal

The above table was originally formed by Dr. 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.

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	Height	Time	Height
Time Differ-	Differ-	Differ-	Differ-
		D = D = D = D ence $h, m,$	
ence h.m.	ence rt.	PENNSYLVANIA	critic 1 to
MAINE	40.4		*0.5
Augusta +3 50	*0.4	Philadelphia $+2$ 29	-0.0
Bangor0 05	+3.6	DELAWARE	
Bar Harbor0 33	+1.1	Rehoboth3 37	*0.4
Boothbay Harbor0 20	-0.8	MARYLAND	
Eastport0 28	*1.9	Baltimore \ldots -4 25	*0.1
Uld Orchard0 10	-0.7	Ocean City \ldots -357	*0.4
Portland \dots -0.10	-0.6		0.1
Stonington'0 30	+0.2	DISTRICT OF COLUMBIA	the e
NEW HAMPSHIRE		Washington3 08	*0.3
Hampton +0 15	-1.2	VIRGINIA	1
MASSACHUSETTS		Norfolk1 54	*0.3
Fall River3 16	*0.5	Virginia Beach3 14	*0.3
Falmouth -0.40	*1.1	NORTH CAROLINA	
Hyannisport $ +0.45$	*0.3	Beaufort2 59	*0.3
Lynn -0.05	-0.2	Carolina Beach -3 30	*0.4
Lynn $+0.05$ Marblehead -0.05	-0.3	Curonna Douon + + = = =	£,0
Marion \ldots -3 16	*0.4	SOUTH CAROLINA	***
Monument Beach3 06	*0.4	Myrtle Beach3 45	*0.5
Nantasket \dots $+0$ 10	+0.1	Charleston	*0.5
Nantucket $\cdot \cdot \cdot +0.50$	*0.3	GEORGIA	`
New Bedford3 21	*0.4	St. Simon's Island -2 51	*0.7
Oak Bluffs \dots +0 05	*0.2	Savannah \ldots -2 40	*0.8
	*0.5	Tybee Beach \ldots -3 26	*0.8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	+0.1		
Prominantown 10 15	-0.3	FLORIDA	*0.4
Provincetown +0 15	-0.5	Daytona \ldots -3 20	*0.4
Scituate $\dots \dots \dots$	+0.6	Fort Lauderdale2 15	*0.3 *0.1
Wellfleet $\dots +0$ 20	*0.2	Jacksonville -0 40	*0.1
Woods Hole \ldots -3 01	.0.2	$Miami \dots -3 00$	*0.3
RHODE ISLAND	*0.3	Palm Beach \ldots -3 20	*0.3
Block Island3 21		Port Everglades2 15	*0.3
Narragansett Pier -3 31	*0.4 *0.4	St. Augustine -2 20	*0.5
Newport \ldots -3 31		St. Petersburg +3 58.	~0.2
Providence \ldots -3 11	*0.5	WASHINGTON	
Watch Hill2 06	*0.3	Ilwaco +1 44	-3.5
CONNECTICUT		Port Townsend +5.04	*0.5
Long Island Sound -0 02	*0.7	Seattle $\cdot \cdot \cdot \cdot +5$ 37	-2.0
New London1 47	*0.3	OREGON	
NEW YORK			-3.3
Coney Island3 00	*0.5		-4.8
Long Beach -3.57	*0.5	Cape Arago $\dots +1$ 19 Yaquina Head $\dots +1$ 12	-3.7
Long Island Sound +0 08	*0.7	1 -	- 0.1
New York City2 50	*0.5	CALIFORNIA	
Ocean Beach \ldots -3 57	*0.4	Catalina Island1 33	-5.9
Southampton -322	*0.3	Crescent City +0 56	-5.0
NEW JERSEY		Eureka $+120$	-5.0
Atlantic City3 57	*0.5	Long Beach \ldots -1 37	-5.5
Bayside $\dots \dots \dots$	*0.6	Monterey $\ldots -0.03$	*0.4
Cape May \ldots -3 37	*0.5	Point Mendocino . +0 24	*0.4
Ocean City \ldots -3 17	*0.4	San Diego1 35	-5.9
Soobright		San Francisco +0 59	*0.4
to -3 44	*0.5	Santa Barbara1 19	-6.0
Seaside Park	0.0	Santa Cruz +0 08	*0.4
Deaside Faik			

Example: The figures for Full Sea in Columns 11 and 12 of the left hand Almanac pages 12-34 are the times of high tide at Commonwealth Pler in Boston Harbor. The heights of these tides are given on the right hand pages 13-35. The heights are reckoned from Mean Low Water: each day has a set of figures—upper for the morning—and lower for the evening. Since Gulf ports are not beset with the tidal problems of ports on the open ocean, the conversion of the times of the tides at Boston to those of Miami is given by way of illustration.

	Bee page 10,		
	BOSTON	MIA	MI
	7.30 P.M.E.S.T.	High tide (Boston)	7.30 P.M.
ligh Tide	1.00 F.M.E.B.T.	Correction above	-3.00
pril 1			4.30 P.M.E.S.T.
		High tide (Miami)	
Height	8.6 feet	Height (Miami)	2.6 feet
TOIPING		(8.6 x 0.3)	

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-		_		-
	A	Moon	100000000000000000000000000000000000000	00 00
	Q E		$\begin{array}{c} - & - & - & - & - & - & - & - & - & - $	46 23
ĐNI	Р Е		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{41}{22}$
ETT	о н		$\begin{array}{c c} - & - & - & - & - & - & - & - & - & - $	37 21
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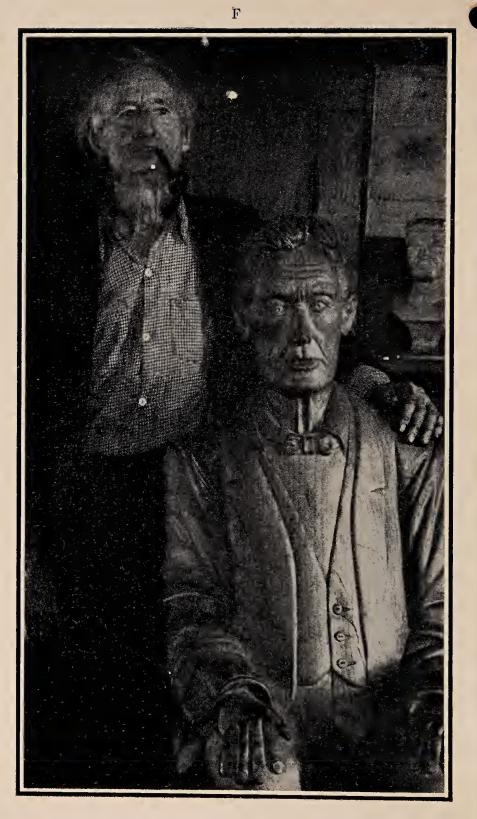
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July	Hot! Make tall drinks with Clicquot Club Tom Collins Mixer
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September	Still warm! Cool off with Clicquot Club Orange
October	Glorious! Drink Clicquot Club Root Beer
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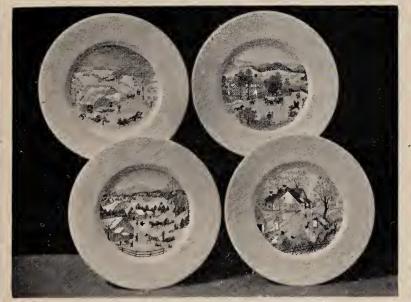
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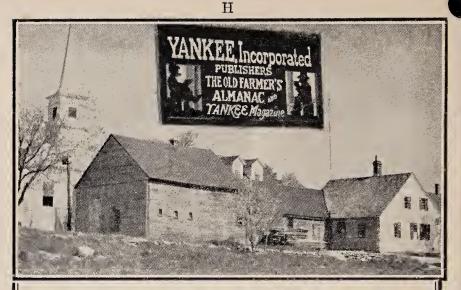


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