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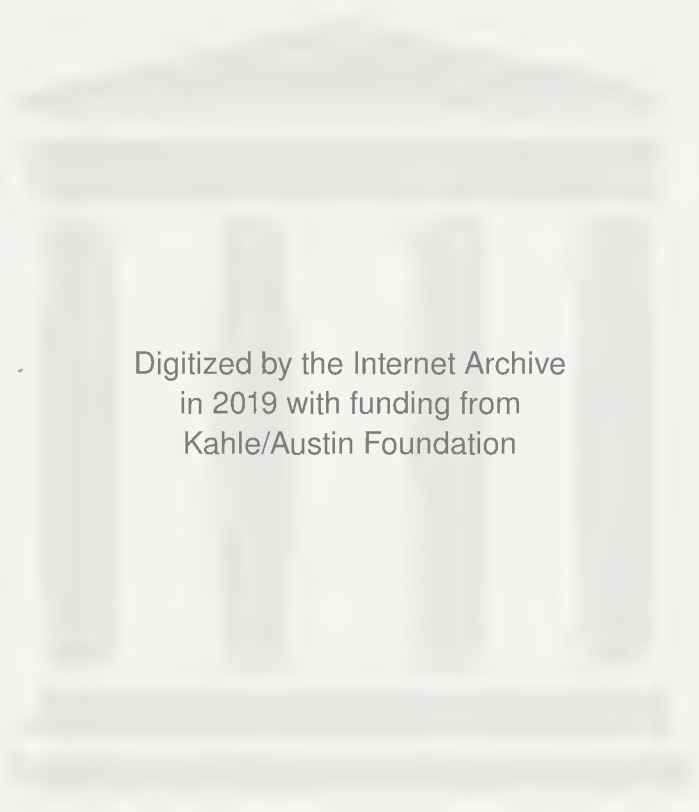
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1954

The 162nd Continuous Year of Publication

No.  
CLXII

THE  
OLD

FARMER'S

1954

ALMANAC

BY  
ROBERT B. THOMAS



SPRING.

SUMMER.

AUTUMN.

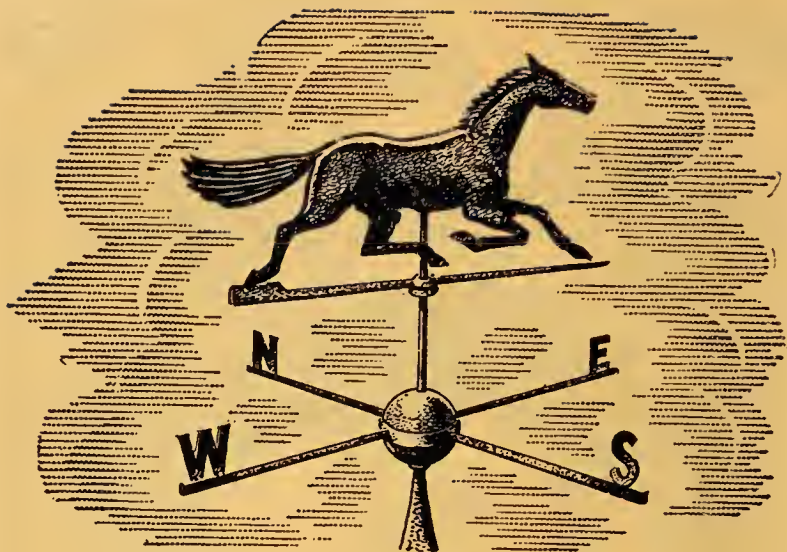
WINTER.

Nichols

Price 25 Cents

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Weather Forecast, Planting Tables.

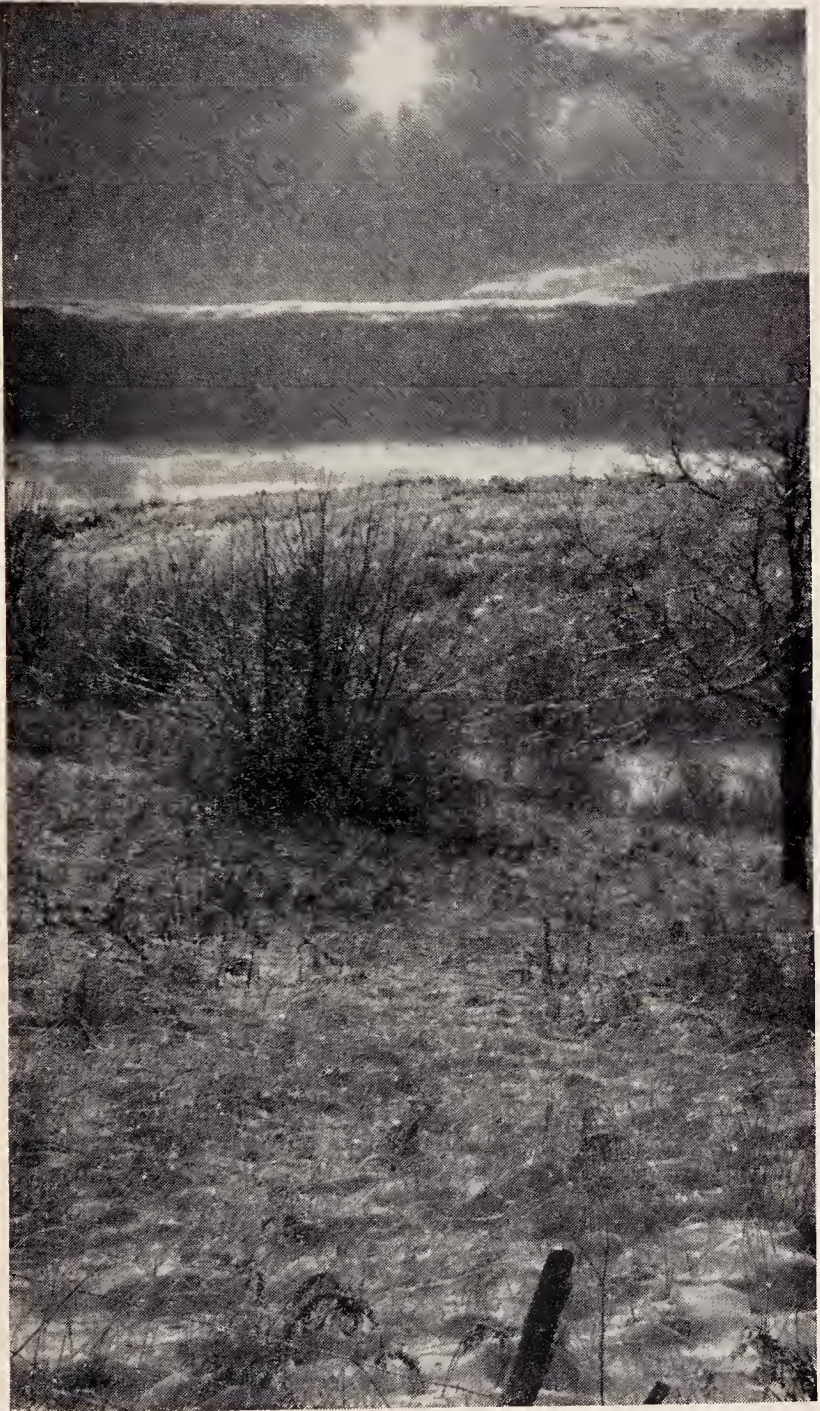


## The long term forecast

The long term forecast is like life. It has its uncertainties. But it also has its certainties. And in no way can those certainties be set aside. One is the eventual advent of the twilight days, and the certainty that the time to provide for them is in the spring and summer of our lives.

Helping people to provide for the twilight days is an important part of our business. Any John Hancock agent will welcome the privilege of discussing this sort of provision with you. It could be to your ultimate and lasting advantage.

*John Hancock*  
MUTUAL LIFE INSURANCE COMPANY  
BOSTON, MASSACHUSETTS



*Photo by R. S.*

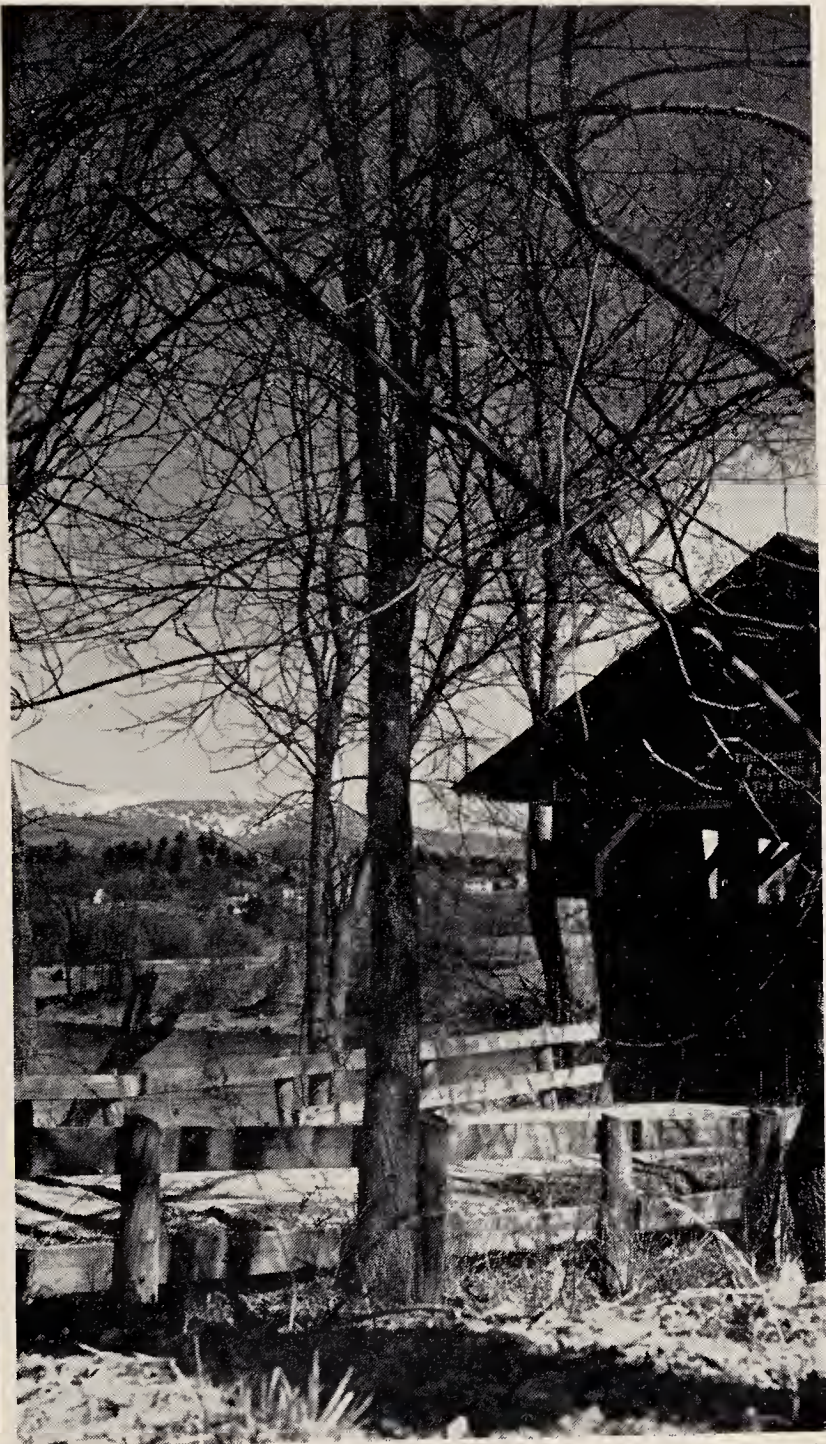
EARLY MORNING AFTER THE ICE STORM, DUBLIN, N. H.  
(To Mark Twain, Nature's greatest spectacle.)



*Photo by Miss D. E. Taylor*

"ROCKABYE, MY BABY . . . . ."





April 24, 1953

NEWBURY, VERMONT.

*Photo by R. S.*



"HAPPY NEW YEAR — YOURSELF!" SAYS HARLAND  
COVEY'S NANNY AT BRADFORD, VT. *Photo by R. S.*

Number One Hundred and Sixty-two.

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

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

**1954**

Being 2nd after BISSEXTILE or LEAP YEAR, and (until July 4)  
178th year of American Independence

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

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

NEW, USEFUL, AND ENTERTAINING MATTER.

ESTABLISHED IN 1792

**BY ROBERT B. THOMAS.**



Who faulteth not, liveth not; who mendeth faults is commended: The Printer hath faulted a little; it may be the author oversighted more. Thy paine (Reader) is the least; then erre not thou most by misconstruing or sharpe censuring; least thou be more uncharitable, than either of them hath been heedlesse: God amend and guide us all.

*Robartes, 1613.*

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## TO PATRONS AND CORRESPONDENTS

This is the 162nd consecutive annual edition of The Old Farmer's Almanac(k). It is for the year 1954, or Atomic Year 10. Last year's edition enjoyed the largest paid almanac news stand sale in the world. For those who were unable to obtain copies, an additional supply is being distributed this year.

During the past year it had become apparent in the minds and hearts of American parents and wives that there is no great victory, moral or otherwise, in the sacrifice of American lives in behalf of a shopworn sentence in Woodrow Wilson's long discarded "14 Points." Agreement to the "Uneasy Truce" of July 29th was realistic recognition of public opinion. Further enlightened self interest is needed for the revivifying of the American tree of state. The day dreams of the will o' the wisps which would carry us to battle fronts we are unprepared to defend, and which propose the championing of the ambitions of others in the guise of American idealism were ever but signs of frustration and weakness. The death of Senator Taft on July 31st has served to dramatise the greatness of the man . . . and to make the things he stood for understood and appreciated.

At home, in various high court decisions and local ordinances, considerable inroads have been made upon the individual rights of American citizens. Investigatory bodies at the national level have pressed this trend further. However, there is no denying the laxity of our laws and public opinion which, in the dangerous times upon us, are protecting our enemies from detection and prosecution. In this, as in other things, we urge, as we did last year, non acceptance of the hallucinations and emotional outbursts of the attention-getters-at-any-price.

As in other years, David Morton has written the Calendar poetry. A collection of his poetry of the past eight years, as you will note elsewhere, is being published by us in November, 1953. Benjamin Rice has written the Farm Calendars, Anecdotes, Pleasantries, and much else; Loring Andrews, the astronomical matter. Many governmental, quasi-public, and private sources have been called upon as well. A careful study of the matter in this issue, especially the historical dates, will test the powers of even the liberally educated. Pages 104 and 105 have been revised to facilitate correction of our astronomical data to fit the Almanac's widened circulation.

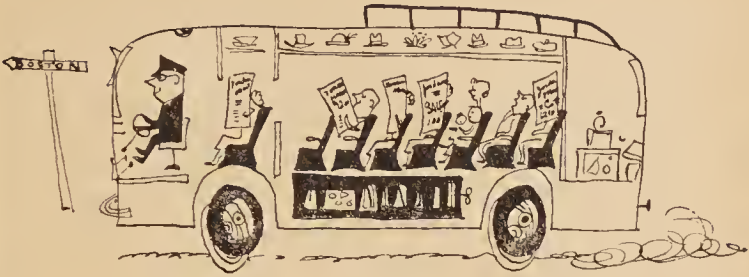
Mrs. M. R. Moosup, Conn.: If you have forgotten the information on the card which you say you failed to mail us, we may be able to recall it for you, but if we did how would you know we were correct? Mrs. A.B.P., Akron, Ohio: Our supply of safety match scratching surface in liquid form was used up on Grandpa's last pair of corduroy trousers. Tell your man to use his belt buckle or buy him a lighter. T. L., Kalamazoo, Mich.: Easter Day for the next 6000 years will fall on Easter Day, and that's as far as we intend to go for you along that line for free and no postage paid return envelope. E. G., Los Angeles: Yes, L. A. smog could be fanned away by building huge brick chimneys up through the clouds, but why don't you try holding up a couple first to see how they work? M. H., New Orleans: If you think you caught goose pimples by getting too near your neighbor's goose, you probably would be wise to keep away from the elephant cages during your next trip to the circus. Elephantitis is far more serious.

In conclusion, it is beyond our capacity to deliver adequately our full thanks to the very many whose interest continues in the welfare of this publication. We trust our efforts in this direction may continue to deserve your past and present confidence. Man, however, in these things can only propose. God is the true disposer. In this then it is by our works and not our words we would be judged. These we hope will sustain us in the humble, though proud, station we have so long held, in the name of

Your ob'd servant,

*John O. Thomas.*

August 1, 1953



## . . . ON TO BOSTON

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Browse through our store . . . you'll find everything for yourself, your family, your home.

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## ECLIPSES FOR THE YEAR 1954

There will be five eclipses during 1954, three of the Sun and two of the Moon. Of these five only the total eclipse of the Moon on the evening of January 18 will be seen by observers throughout the United States. The total eclipse of the Sun on June 30 and the partial eclipse of the Moon on July 15 will be visible only from certain parts of our country.

I. **An Annular Eclipse of the Sun, January 4, 1954.** This eclipse in any of its phases, partial or annular, is primarily an Antarctic affair except for observers in New Zealand and on the islands of the South Pacific, who will be able to see it as a partial eclipse.

II. **A Total Eclipse of the Moon, January 18, 1954.** This lunar eclipse on the evening of January 18th will be visible in its entirety throughout the United States. The Moon will start into the penumbral shadow of the Earth at 6.40 P.M. E.S.T. and into the umbral portion at 7.50 P.M. E.S.T. The Moon will be completely within the Earth's shadow at 9.17 P.M. E.S.T. and start leaving it at 9.47 P.M. E.S.T. It will be completely out of the umbral shadow at 11.14 P.M. E.S.T. and out of the penumbral shadow, marking the end of the eclipse, at 12.24 A.M. E.S.T. on the morning of January 19th.

III. **A Total Eclipse of the Sun, June 30, 1954.** Observers in the United States to the north and east of a line extending from Brownsville, Texas, northwest to Vancouver, B.C., will see the partial phase of this eclipse in one degree or more. For observers along the line described the eclipse will be ending as the sun rises. Between this line and a second running northwestward from Wilmington, N.C., to the northeastern tip of Minnesota, along which the eclipse will begin at sunrise, observers will find the eclipse already partly along as the sun comes above the horizon. Only observers in the northeastern part of the United States will then have the sun above the horizon from the time the eclipse begins, while observers in the southwest and along the Pacific Coast will miss the eclipse, since it will occur during the pre-dawn hours.

Only the privileged few in the United States will see the total phase. These observers will be inside a strip of land about 50 miles wide centered on a line which runs from just southwest of Yankton, N. D., northeastward through Hancock, Michigan, and on into western Ontario. For these observers, too, the eclipse will be a dawn to immediate post-dawn event.

IV. **A Partial Eclipse of the Moon, July 15, 1954.** Visibility of this eclipse from points in the United States is restricted to those in the Eastern Standard and Central Standard time belts, and even for these observers those parts of the eclipse to be seen will be in progress as the moon rises. The Moon will be deepest within the Earth's umbral shadow at 7.20 P.M. E.S.T. and will be completely outside this shadow at 8.31 P.M. E.S.T. It will be outside the penumbral shadow at 9.53 P.M. E.S.T.

The beginning of this eclipse will be visible generally in southern and western Asia, the extreme western part of Australia, the Indian Ocean, Antarctica, Europe, Africa, the Atlantic Ocean and South America. The ending will be visible generally in southwestern Asia, the western part of the Indian Ocean, Europe, Africa, Antarctica, the Atlantic Ocean, South America, the southeastern part of the Pacific Ocean, and, as noted above, eastern and southeastern North America.

V. **An Annular Eclipse of the Sun, December 25, 1954.** The area of visibility of this eclipse centers in the South Indian Ocean. It embraces Australia, Borneo, Malaya, New Guinea, the Philippines, Indo-China and Siam near its easterly edge, southern Africa and Madagascar near its westerly boundary, and a portion of Antarctica near its southern limit. But, in its annular rather than its partial phases, it will be visible only from a narrow strip of the earth's surface which crosses land only near the southern tip of Africa, where the annular phase would be visible shortly after sunrise, to Timor in the Dutch East Indies, where the annular phase will be visible just before sunset.

## EARTH IN PERIHELION AND APHELION, 1954

The Earth will be in Perihelion on January 2, 3 A.M., distant from the Sun 91,348,000 miles. The Earth will be in Aphelion on July 3, 3 P.M., distant from the Sun 94,450,000 miles.

## VENUS, MARS, JUPITER AND SATURN 1954.

Below are given the time 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 page 100.

1954	VENUS			Key	MARS			Key	JUPITER			Key	SATURN			Key	
		h	m			h	m			h	m			h	m		
JANUARY	1st	rises	6 48	A.M.	O	rises	2 07	A.M.	L	sets	5 47	A.M.	O	rises	2 07	A.M.	L
"	11th	"	7 01	A.M.	O	"	1 59	A.M.	L	"	5 03	A.M.	O	"	1 31	A.M.	L
"	21st	rises	7 07	A.M.	N	"	1 49	A.M.	M	"	4 20	A.M.	O	"	12 54	A.M.	L
FEBRUARY	1st	sets	4 57	P.M.	E	rises	1 39	A.M.	M	sets	3 34	A.M.	O	rises	12 13	A.M.	L
"	11th	"	5 23	P.M.	F	"	1 28	A.M.	N	"	2 54	A.M.	O	"	11 30	P.M.	L
"	21st	"	5 48	P.M.	G	"	1 16	A.M.	N	"	2 16	A.M.	O	"	10 51	P.M.	L
MARCH	1st	sets	6 08	P.M.	H	rises	1 06	A.M.	N	sets	1 47	A.M.	O	rises	10 19	P.M.	L
"	11th	"	6 33	P.M.	I	"	12 52	A.M.	N	"	1 11	A.M.	O	"	9 33	P.M.	L
"	21st	"	6 58	P.M.	J	"	12 36	A.M.	O	"	12 37	A.M.	O	"	8 56	P.M.	L
APRIL	1st	sets	7 25	P.M.	K	rises	12 16	A.M.	O	sets	12 00	M.	O	rises	8 10	P.M.	L
"	11th	"	7 51	P.M.	L	"	11 56	P.M.	O	"	11 25	P.M.	O	"	7 27	P.M.	L
"	21st	"	8 16	P.M.	M	"	11 31	P.M.	O	"	10 54	P.M.	O	rises	6 44	P.M.	L
MAY	1st	sets	8 41	P.M.	N	rises	11 05	P.M.	O	sets	10 23	P.M.	O	sets	4 50	A.M.	G
"	11th	"	9 04	P.M.	O	"	10 36	P.M.	O	"	9 52	P.M.	O	"	4 08	A.M.	G
"	21st	"	9 23	P.M.	O	"	10 03	P.M.	O	"	9 22	P.M.	O	"	3 27	A.M.	G
JUNE	1st	sets	9 37	P.M.	O	rises	9 21	P.M.	P	sets	3 49	P.M.	O	sets	2 42	A.M.	G
"	11th	"	9 43	P.M.	O	"	8 38	P.M.	P	"	8 20	P.M.	O	"	2 01	A.M.	G
"	21st	"	9 42	P.M.	N	rises	7 50	P.M.	P	sets	7 50	P.M.	O	"	1 21	A.M.	G
JULY	1st	sets	9 36	P.M.	M	sets	3 20	A.M.	B	rises	4 09	A.M.	C	sets	12 41	A.M.	G
"	11th	"	9 25	P.M.	L	"	2 27	A.M.	A	"	3 41	A.M.	C	"	12 01	A.M.	G
"	21st	"	9 11	P.M.	K	"	1 39	A.M.	A	"	3 12	A.M.	C	"	11 18	P.M.	G
AUGUST	1st	sets	8 53	P.M.	J	sets	12 54	A.M.	A	rises	2 41	A.M.	C	sets	10 36	P.M.	G
"	11th	"	8 34	P.M.	I	"	12 20	A.M.	B	"	2 12	A.M.	C	"	9 58	P.M.	G
"	21st	"	8 14	P.M.	G	"	11 53	P.M.	B	"	1 42	A.M.	D	"	9 20	P.M.	G
SEPTEMBER	1st	sets	7 52	P.M.	F	sets	11 26	P.M.	B	rises	1 09	A.M.	D	sets	8 38	P.M.	F
"	11th	"	7 30	P.M.	E	"	11 09	P.M.	B	"	12 39	A.M.	D	"	8 01	P.M.	F
"	21st	"	7 09	P.M.	D	"	10 55	P.M.	B	"	12 08	A.M.	D	"	7 24	P.M.	F
OCTOBER	1st	sets	6 45	P.M.	C	sets	10 45	P.M.	C	rises	11 32	P.M.	D	sets	6 48	P.M.	F
"	11th	"	6 19	P.M.	C	"	10 38	P.M.	C	"	10 59	P.M.	D	"	6 11	P.M.	F
"	21st	"	5 47	P.M.	B	"	10 32	P.M.	D	"	10 24	P.M.	D	"	5 35	P.M.	F
NOVEMBER	1st	sets	5 03	P.M.	C	sets	10 28	P.M.	D	rises	9 45	P.M.	D	sets	4 55	P.M.	F
"	11th	sets	4 18	P.M.	C	"	10 25	P.M.	E	"	9 07	P.M.	D	rises	5 56	A.M.	L
"	21st	rises	5 59	A.M.	N	"	10 23	P.M.	E	"	8 27	P.M.	D	"	5 23	A.M.	L
DECEMBER	1st	rises	4 53	A.M.	M	sets	10 21	P.M.	F	rises	7 46	P.M.	D	rises	4 49	A.M.	L
"	11th	"	4 10	A.M.	L	"	10 19	P.M.	G	"	7 04	P.M.	D	"	4 15	A.M.	L
"	21st	"	3 47	A.M.	L	"	10 17	P.M.	G	"	6 20	P.M.	D	"	3 41	A.M.	L
"	31st	rises	3 37	A.M.	M	sets	10 15	P.M.	H	rises	5 34	P.M.	D	rises	3 07	A.M.	M

## MORNING AND EVENING STARS, 1954

(Also see Page 76)

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

Mercury will be favorably situated for being seen as an Evening Star when near its greatest eastern elongations about February 13, June 9 and October 6. On these dates it will set 1 h. 34 m., 1 h. 49 m., and 0 h. 45 m., respectively, after sunset. It will be seen as a Morning Star when near its greatest western elongations about March 28, July 27, and November 14, on which dates it will rise 0 h. 54 m., 1 h. 28 m., and 1 h. 43 m., respectively, before sunrise.

Venus is to be found in the eastern sky before sunrise until January 29, when it comes to conjunction with the Sun. It again becomes a Morning Star on November 15, as it passes through conjunction again, and will grace the eastern sky before sunrise thence to the end of the year. From January 29 to November 15 Venus will be an Evening Star seen in the western sky after sunset.

Mars too is a Morning Star until June 24 when it reaches opposition. Thereafter it joins Venus as an Evening Star, but remains an Evening Star until year's end. Mars will be at its greatest brilliance during the month of July.

Jupiter is an Evening Star for the first half of the year, until June 30, when it reaches conjunction. Thereafter it is to be found as a Morning Star in the eastern sky before sunrise for the remainder of the year.

Saturn is a Morning Star along with Venus and Mars at the year's beginning and remains so until April 26. From that date until November 4 it will be an Evening Star, visible after sunset. From November 4 until the end of the year, Saturn returns to the eastern sky to be visible before sunrise as a Morning Star.

1953

JANUARY.							FEBRUARY.							MARCH.							APRIL.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
-	-	-	-	1	2	3	1	2	3	4	5	6	7	1	2	3	4	5	6	7	-	-	1	2	3	4	
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25	26	27	28	29	30	31	-	-	-	-	-	-	-	29	30	31	-	-	-	-	26	27	28	29	30	-	-
MAY.							JUNE.							JULY.							AUGUST.						
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3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
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SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.						
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1954

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

1955

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





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## LAST WINTER'S WEATHER

(Nov. and Dec. 1952—Jan. Feb. and March, 1953)

From the middle of December on, Abe Weatherise's forecast of last year's swiftness and heavy timed winter was well nigh perfect. For the period November 1 through December 15 his expected departures from normal occurred in Northern New England rather than in and around Boston. The "violent storm in March" which he predicted came in the form of rain (2½ to 4 inches of it) on the 30th—with a preamble to this of about 1½ inches within his exact dates. Had these storms been of snow they'd have attracted more notice.

Few forecasters, if any, foresaw, the way Abe did, the rains of April and May and none at all called the turn as closely as he did on the Worcester Tornado with his forecast of a "Bad Squall and that's not all"—June 1st through 7th. In brief, last winter, Old Farmer's Almanac in hand, you'd have had all the experts out-guessed a mile.

## NEXT WINTER'S WEATHER

(Nov. and Dec. 1953—Jan., Feb. and March, 1954)

"TURBULENT, ERRATIC, MANY STORMS OF RAIN, SNOW, and SLEET." N.B. The considered opinion of many authorities that winters are growing milder will not be exemplified in next winter's weather.

**NOVEMBER:** At least one spanking northeast storm along the Eastern seaboard during the first two weeks. Mild and fine then for one week. Cold and some snow rest of the month.

**DECEMBER:** Raw and dull all month with nothing very exciting or harmful.

**JANUARY:** First ten days will bring cold storms. Then it will be windy and boisterous until the January Thaw about the 23rd. Last week will be bitter cold.

**FEBRUARY:** Cold continues for one week. Heavy snowstorm expected between the 11th and the 17th. Last two weeks milder but no three good days in a row.

**MARCH:** First two weeks really bad, blowy and cold, and wet. False signs of Spring for a week after that—then a frigid spell from the 27th to 31st.

During the first ten days of April watch out for the storm of the year in rain or snow or both all over the United States.

## HOLIDAY WEEKENDS

New Year's Day (on a Friday) will be cold but clear. Lincoln's Birthday Feb. 12th, falls on a Friday and Washington's, the 22nd, on a Monday. Both offer fine snow conditions in the north country. April 19th (Monday) mild, Decoration Day (May 30, Sunday) rainy; June 17, Thursday, Bunker Hill Day, windy and clear; July 4, Sunday, rain; Labor Day, Monday, Sept. 6, cool and nice all weekend; Columbus Day, Oct. 12, clear; Nov. 11, Thursday, Armistice Day, unsettled; Thanksgiving Day, Thursday, November 25th, dull with rain or snow threatening; Christmas, Saturday, clear and white in the snow country.

It will be noted that in these holiday weekends in 1954, only four offer the three day vacation weekend.



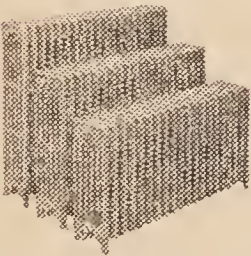
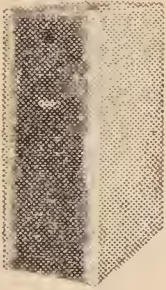
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## HOW TO USE THIS ALMANAC

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 1954: 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 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 the Moon Sign Man represented on page 37. In the last column of the Planting Table which follows these Calendar Pages on page 38 you will find the dates which moon addicts use as most favorable for planting.

For the adjustment of the times given, to those of your locality turn to page 100. Move this weather forecast back one day for each time zone West of Eastern Time Zone.

### 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 in groups of three to give you what is happening in the heavens. See Abbreviations and Definitions on page 108. Example:  $\delta \odot \ominus$  on page 23 opposite June 24 means Mars and the Sun are on that day in opposition.

#### 1. Names and Characters of the Principal Planets.

$\odot$ The Sun.	$\venus$ Venus.	$\jupiter$ Jupiter.	$\neptune$ Neptune.
$\moon$ The Moon.	$\earth$ The Earth.	$\saturn$ Saturn.	$\pluto$ Pluto.
$\mercury$ Mercury.	$\mars$ Mars.	$\uranus$ Uranus.	

#### 2. Names and Characters of the Aspects.

$\odot \odot$ Conjunction, or in the same degree.	$\odot \cap \odot$ Dragon's Head, or Ascending Node.
$\square$ Quadrature, 90 degrees.	$\odot \cap \odot$ Dragon's Tail, or Descending Node.
$\delta$ Opposition, or 180 degrees.	

#### 3. Names, Abbreviations and Characters of the Signs of the Zodiac.

1. $\aries$ Aries, head. ARI	5. $\leo$ Leo, heart. LEO	9. $\sagittarius$ Sagittarius, thighs. SGR
2. $\taurus$ Taurus, neck. TAU	6. $\virgo$ Virgo, belly. VIR	10. $\capricornus$ Capricornus, knees. CAP
3. $\gemini$ Gemini, arms. G'M	7. $\libra$ Libra, reins. LIB	11. $\aquarius$ Aquarius, legs. AQR
4. $\cancer$ Cancer, breast. CNC	8. $\scorpio$ Scorpio, secrets. SCO	12. $\pisces$ Pisces, feet. PSC

Consult page 37 for Zodiacal Superstitions

#### 4. Chronological Cycles for 1954.

Golden Number . . . . . 17	Solar Cycle . . . . . 3	Roman Indiction . . . . . 7
Epact . . . . . 26 (25)	Dominical Letter . . . . . C	Year of Julian Period 6667

#### Movable Feasts and Fasts for 1954.

Septuagesima Sun. Feb. 14	Good Friday Apr. 16	Whitsunday June 6
Shrove Sunday Feb. 28	Easter Sunday Apr. 18	Trinity Sunday June 13
Ash Wednesday Mar. 3	Low Sunday Apr. 25	Corpus Christi June 17
1st Sun. in Lent Mar. 7	Rogation Sun. May 23	1st Sunday in Advent Nov. 28
Palm Sunday Apr. 11	Ascension Day May 27	

## THE SEASONS, 1954

*Eastern Standard Time*

Winter Solstice (Winter, 1953), December 21, 10.32 P.M.—Sun enters Capricornus, $\cap$
Vernal Equinox (Spring, 1954), March 20, 10.54 P.M. — “ “ Aries, $\gamma$
Summer Solstice (Summer), June 21, 5.55 P.M. — “ “ Cancer, $\cancer$
Autumnal Equinox (Autumn), September 22, 8.56 A.M.— “ “ Libra, $\libra$
Winter Solstice (Winter), December 22, 4.25 A.M.— “ “ Capricornus, $\cap$

STANDARD TIME IS USED THROUGHOUT THIS ALMANAC

Add 1 hr April 25, (deduct it Sept. 26) for Daylight Saving Time

1954]

## JANUARY, FIRST MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days. 0 /			Days. 0 /			Days. 0 /			Days. 0 /					
	1	23	s.	01	7	22	23	13	21	29	19	20	21	25	18
2	22	55		8	22	15	14	21	19	20	20	08	26	18	43
3	22	50		9	22	07	15	21	08	21	19	55	27	18	28
4	22	44		10	21	58	16	20	57	22	19	41	28	18	12
5	22	37		11	21	49	17	20	45	23	19	27	29	17	57
6	22	30		12	21	39	18	20	33	24	19	12	30	17	40

● New Moon, 4th day, 9 h. 21 m., evening, W.

☽ First Quarter, 11th day, 7 h. 22 m., evening, W.

○ Full Moon, 18th day, 9 h. 37 m., evening, E.

☾ Last Quarter, 26th day, 10 h. 28 m., evening; E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	Rises. h. m.	Key	Sets. h. m.	Key	Length of Days. h. m.	Sun. East. m.	Full Sea. Boston. Morn. Even. h. h.	☽ Rises. h. m.	Key	Souths. h. m.	☽'s Place	Moon's Age
1	1	Fr.	7 14	o	4 23	c	9 09	12	8	8 <sup>3</sup> / <sub>4</sub>	4 <sup>A</sup> <sub>M</sub> 07	o	8 <sup>A</sup> <sub>M</sub> 42	SCO 26
2	2	Sa.	7 14	o	4 24	c	9 10	12	8 <sup>3</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>2</sub>	5 09	o	9 35	SGR 27
3	3	S.	7 14	o	4 25	c	9 11	11	9 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>4</sub>	6 <sup>A</sup> <sub>M</sub> 07	p	10 31	SGR 28
4	4	M.	7 14	o	4 26	c	9 12	11	10 <sup>1</sup> / <sub>4</sub>	11	sets	-	11 <sup>A</sup> <sub>M</sub> 27	CAP 29
5	5	Tu.	7 13	o	4 26	d	9 13	10	11	11 <sup>1</sup> / <sub>2</sub>	5 <sup>P</sup> <sub>M</sub> 12	d	12 <sup>P</sup> <sub>M</sub> 23	CAP 1
6	6	W.	7 13	N	4 27	d	9 14	10	11 <sup>3</sup> / <sub>4</sub>	—	6 26	e	1 17	AQR 2
7	7	Th.	7 13	N	4 28	d	9 16	9	0 <sup>1</sup> / <sub>2</sub>	0 <sup>1</sup> / <sub>2</sub>	7 40	g	2 09	AQR 3
8	8	Fr.	7 13	N	4 29	d	9 17	9	1	1 <sup>1</sup> / <sub>4</sub>	8 54	h	2 59	PSC 4
9	9	Sa.	7 13	N	4 31	d	9 18	9	1 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	10 07	i	3 48	PSC 5
10	10	S.	7 12	N	4 32	d	9 19	8	2 <sup>3</sup> / <sub>4</sub>	3	11 <sup>P</sup> <sub>M</sub> 21	k	4 37	ARI 6
11	11	M.	7 12	N	4 33	d	9 21	8	3 <sup>1</sup> / <sub>2</sub>	4	—	—	5 27	ARI 7
12	12	Tu.	7 12	N	4 34	d	9 22	7	4 <sup>1</sup> / <sub>2</sub>	5	12 <sup>A</sup> <sub>M</sub> 35	l	6 19	TAU 8
13	13	W.	7 11	N	4 35	d	9 23	7	5 <sup>1</sup> / <sub>2</sub>	6	1 50	n	7 15	TAU 9
14	14	Th.	7 11	N	4 36	d	9 25	7	6 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	3 04	o	8 12	G'M 10
15	15	Fr.	7 11	N	5 37	d	9 27	6	7 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>4</sub>	4 14	p	9 12	G'M 11
16	16	Sa.	7 10	N	4 38	d	9 28	6	8 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>4</sub>	5 16	p	10 10	CNC 12
17	17	S.	7 10	N	4 39	d	9 30	6	9 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>4</sub>	6 <sup>A</sup> <sub>M</sub> 08	o	11 06	CNC 13
18	18	M.	7 09	N	4 41	d	9 32	5	10 <sup>1</sup> / <sub>4</sub>	11	rises	—	11 <sup>P</sup> <sub>M</sub> 59	CNC 14
19	19	Tu.	7 09	N	4 42	d	9 33	5	11 <sup>1</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>4</sub>	5 <sup>P</sup> <sub>M</sub> 31	e	—	—
20	20	W.	7 08	N	4 43	d	9 35	5	—	0	6 38	f	12 <sup>A</sup> <sub>M</sub> 47	LEO 15
21	21	Th.	7 07	N	4 44	d	9 37	4	0 <sup>1</sup> / <sub>2</sub>	0 <sup>1</sup> / <sub>2</sub>	7 42	h	1 33	LEO 16
22	22	Fr.	7 07	N	4 46	d	9 39	4	1	1 <sup>1</sup> / <sub>4</sub>	8 44	i	2 15	VIR 17
23	23	Sa.	7 06	N	4 47	d	9 41	4	1 <sup>3</sup> / <sub>4</sub>	2	9 45	j	2 56	VIR 18
24	24	S.	7 05	N	4 48	d	9 43	4	2 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	10 45	k	3 37	LIB 19
25	25	M.	7 04	N	4 49	e	9 45	3	3 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	11 <sup>P</sup> <sub>M</sub> 46	l	4 17	LIB 20
26	26	Tu.	7 03	M	4 51	e	9 47	3	4	4 <sup>1</sup> / <sub>4</sub>	—	—	5 00	LIB 21
27	27	W.	7 03	M	4 52	e	9 49	3	4 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	12 <sup>A</sup> <sub>M</sub> 48	m	5 44	SCO 22
28	28	Th.	7 02	M	4 53	e	9 52	3	5 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	1 51	n	6 32	SCO 23
29	29	Fr.	7 01	M	4 55	e	9 54	3	6 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	2 53	o	7 23	SGR 24
30	30	Sa.	7 00	M	4 56	e	9 56	2	7 <sup>1</sup> / <sub>2</sub>	8	3 53	p	8 16	SGR 25
31	31	S.	6 59	M	4 57	e	9 58	2	8 <sup>1</sup> / <sub>4</sub>	9	4 <sup>A</sup> <sub>M</sub> 46	o	9 <sup>A</sup> <sub>M</sub> 12	CAP 26



The silent land is listening for more,  
 And more, and more, and never will have done  
 With listening — this grave and ancient one  
 That now, at evening, gathers round my door,  
 In that large mind whose amplitude has grace  
 For all the suffering story of our race.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Fr.	Circumcision. ♀ Aph. $\begin{cases} 9.0 \\ 7.8 \end{cases}$	<i>Cold and</i>
2	Sa.	Days have lengthened $\oplus$ in $\begin{cases} 9.4 \\ 8.0 \end{cases}$ <i>bold.</i> one cock's stride	
3	C	2da. Ch. $\begin{cases} \text{rides } 9.7 \\ \text{low } 8.3 \end{cases}$ [2nd $\delta\delta h$ ]	
4	M.	$\delta\delta\delta$ $\delta\delta\delta$ $\delta\delta\delta$ $\delta\delta\delta$ Ann. $\begin{cases} 10.1 \\ 8.6 \end{cases}$ Ecl.	
5	Tu.	Twelfth Take down $\begin{cases} 10.4 \\ 9.0 \end{cases}$ <i>Storms of</i> Night Xmas greens	
6	W.	Epiph. "Cruel, cold winter, 1857" $\begin{cases} 10.6 \\ - \end{cases}$ <i>snow</i>	
7	Th.	Fifty Ft. Me. Cattle need salt $\begin{cases} 9.3 \\ 10.7 \end{cases}$ <i>then</i>	
8	Fr.	Tide 1770 1st Photograph Hol. Tides $\begin{cases} 9.6 \\ 10.6 \end{cases}$ <i>icy</i> 9th — 1839 La.	
9	Sa.	1st shot fired Civil War 1861 $\begin{cases} 9.3 \\ 10.4 \end{cases}$ <i>going,</i>	
10	C	1st S. a. Ep. $\begin{cases} 10.0 \\ 10.0 \end{cases}$ <i>drive</i>	
11	M.	Plough Monday $\delta\delta\delta$ $\begin{cases} 10.0 \\ 9.6 \end{cases}$ <i>slow!</i>	
12	Tu.	Newport, R. I. Tea Party — 1774 $\begin{cases} 10.0 \\ 9.1 \end{cases}$ <i>Milder,</i>	
13	W.	Spiders Predicted Great Freeze 1795 Tides $\begin{cases} 10.0 \\ 8.7 \end{cases}$ <i>but</i>	
14	Th.	St. Hillary coldest of year $\begin{cases} 10.0 \\ 8.5 \end{cases}$ <i>windy</i>	
15	Fr.	"There lies my (1827) $\delta\delta\delta$ Tides $\begin{cases} 10.2 \\ 8.5 \end{cases}$ <i>and</i>	
16	Sa.	poor father" $\square\psi\delta$ runs high. $\begin{cases} 10.3 \\ 8.7 \end{cases}$ <i>wilder.</i>	
17	C	2nd S. a. Ep. Brink hold-up 1950 $\begin{cases} 10.5 \\ 8.9 \end{cases}$	
18	M.	Total Eclipse $\delta\delta\delta$ Tides $\begin{cases} 10.6 \\ 9.1 \end{cases}$ <i>Blow</i>	
19	Tu.	Robt. L. Lee Birthday So. Tides $\begin{cases} 10.6 \\ 9.2 \end{cases}$ <i>and</i>	
20	W.	The Russian Flu, 1837 Tides $\begin{cases} - \\ 10.4 \end{cases}$ <i>snowy.</i>	
21	Th.	Kai-Shek Res. 1949 $\delta$ Gr. Hel. Lat. S. Tides $\begin{cases} 9.3 \\ 10.1 \end{cases}$	
22	Fr.	If clear, good all year. Tides $\begin{cases} 9.4 \\ 9.8 \end{cases}$ <i>January</i>	
23	Sa.	V. Mary married $\delta$ on Eq. Tides $\begin{cases} 9.3 \\ 9.3 \end{cases}$ <i>thaw</i>	
24	C	3rd S. a. Ep. Tides $\begin{cases} 9.2 \\ 9.0 \end{cases}$ <i>and</i>	
25	M.	Conversion St. Paul $\delta$ in Apo. Tides $\begin{cases} 9.0 \\ 8.4 \end{cases}$ <i>raw.</i>	
26	Tu.	$\delta\psi\delta$ Tides $\begin{cases} 8.9 \\ 8.0 \end{cases}$ Hol. Ark. <i>Storm</i>	
27	W.	Cold all over 1939 $\delta h$ $\begin{cases} 8.7 \\ 7.6 \end{cases}$ <i>on tap,</i>	
28	Th.	$\psi$ Stat. in R. A. $\delta\delta\delta$ Tides $\begin{cases} 8.8 \\ 7.4 \end{cases}$ <i>brings</i>	
29	Fr.	$\square h\delta$ $\delta\delta\delta$ Sup. Tides $\begin{cases} 8.7 \\ 7.4 \end{cases}$ <i>cold</i>	
30	Sa.	$\delta$ rides low. $\delta$ Aph. in F. D. R.'s Day Ky. $\begin{cases} 8.9 \\ 7.6 \end{cases}$	
31	C	4th S. a. Ep. Terr. storms Europe 1953 $\begin{cases} 9.3 \\ 8.0 \end{cases}$ <i>snap.</i>	

As a boy I always looked forward to January as the "sharp" winter month, for which December had been just a mild dress rehearsal. And it usually turned out that way. We measured the sharpness of the month by the amount of ice and the condition of the roads. I can see now the cutting of the black, thick ice—usually uncontaminated by frozen snow as a top layer. Just as in the Currier and Ives print, we used our oxen to get the ice up from the pond to the ice-house, where we packed it into the dry sawdust. How wonderfully that old ice-house smelled of the sawdust, and, I fancied, of the ice itself. But the bitter January wind shrieking in over the bowed heads of the oxen made it the coldest place in the world.

Perhaps memories of my boyhood Januaries have magnified the sharpness of the cold, but I don't think so. Forgetting statistics, if I had any to refer to, I would say the amount of skating a boy can get on good January ice nowadays, and the skating we had in the old Januaries just speak for themselves. We didn't have to have outside rinks filled with artificial ice when I was a youngster. And the January thaw came right on time and didn't slip over into February or get slipped back into December.

So be it. Here's to a good sharp, old-fashioned January. Make your resolutions and have a Happy New Year!

1954]

## FEBRUARY, SECOND MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		/	Days.		/	Days.		/	Days.		/	Days.		/
	1	17s.		07	7		15	19		13	13		22	19	
	2	16	49	8	15	00	14	13	02	20	10	56	26	8	44
	3	16	32	9	14	41	15	12	41	21	10	34	27	8	22
	4	16	14	10	14	23	16	12	21	22	10	13	28	7	59
	5	15	56	11	14	02	17	12	00	23	9	51			
	6	15	38	12	13	42	18	11	39	24	9	29			

- New Moon, 3rd day, 10 h. 55 m., morning, E.
- ☽ First Quarter, 10th day, 3 h. 29 m., morning, W.
- Full Moon, 17th day, 2 h. 17 m., evening, E.
- ☾ Last Quarter, 25th day, 6 h. 29 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

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





I pray this wind is bearing on its back  
 The seed of many flowers to be sown  
 In many barren place, for their lack;  
 In stricken acres where no flower has flared  
 Its tiny splendor since the rocks were young;  
 And inner acres where the breast is bared  
 Unto this wind, with a small human sound,  
 Like "Here . . . here, on this stony ground."

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	M.	Gales 1876, 1953 37° below 1851	Tides { 9.8 8.4 } <i>Bring</i>
2	Tu.	Purification Groundhog Day	{ 10.2 9.0 } <i>out</i>
3	W.	Four Immortal Chaplains 1943	♂♀♂ Tides { 10.6 9.6 } <i>your</i>
4	Th.	Boston Harbor	♂♀♂ Tides { — } <i>mittens</i>
5	Fr.	Frozen 1844	⊕ on Eq. Tides { 10.1 11.0 } <i>even</i>
6	Sa.	25 ft. Snow Drifts 1717	⊕ in Peri. { 10.4 10.9 } <i>for the</i>
7	C	5th S. a. Ep.	Tides { 10.6 10.6 } <i>kittens.</i>
8	M.	Am. Boy Scouts Founded 1910	Tides { 10.6 10.0 } <i>A shame</i>
9	Tu.	♀ in ♂	Tides { 10.5 9.4 } <i>this</i>
10	W.	Canada is Britain's 1763	♂ Stat. in R.A. { 10.2 8.8 } <i>rain.</i>
11	Th.	V. Mary seen at Lourdes, 1858	{ 9.9 8.8 } <i>Everyone</i>
12	Fr.	Lincoln's Birthday	♂♀♂♂♂♂♂♂ runs { 9.7 8.1 } <i>high</i>
13	Sa.	Valentines Tomorrow	♀ Gr. El. E. Tides { 9.8 8.2 } <i>shovels</i>
14	C	Sept. S.	♀ in Peri. ♂♂♂ { 9.7 8.4 } <i>out</i>
15	M.	Calif. Sugar Pines Saved 1953	Tides { 9.9 8.7 } <i>their</i>
16	Tu.	Silver Dollar Legal. 1878	Tides { 10.0 9.0 } <i>hovels.</i>
17	W.	Bath, Me. Inc. 1781	h Stat. in R.A. { 10.0 9.3 } <i>Milder</i>
18	Th.	Auld Deer worst in year	Tides { 10.0 } <i>Milder</i>
19	Fr.	♀ Stat. in R.A.	⊕ on Eq. Tides { 9.5 9.8 } <i>but</i>
20	Sa.	Nancy washed up at Nantasket 1927	Tides { 9.6 9.6 } <i>watch</i>
21	C	Serag. S.	♀ Gr. Hel. Lat. S. { 9.6 9.2 } <i>out,</i>
22	M.	Wash. B'dy.	♂♀♂♂ in A.D. { 9.6 8.9 } <i>storms</i>
23	Tu.	Record Snow 1948 Record Tide 1723	♂♂♂ Tides { 9.8 8.5 } <i>still</i>
24	W.	♀ Gr. Hel. Lat. N.	♂♀♀ Tides { 9.1 8.0 } <i>about.</i>
25	Th.	Hudson Tubes 1908	♂♂♀ Tides { 8.9 7.7 } <i>Rain</i>
26	Fr.	Spectacles Invented 1825	♂ Tides { 8.7 7.5 } <i>for</i>
27	Sa.	Spears in N. E. Heavens 1667	Tides { 8.7 7.5 } <i>sure,</i>
28	C	Quin. S. Shrove Sunday	Tides { 8.9 7.8 } <i>then</i>

Misfortune has the strange power of creating strength and activity through the very things it has destroyed. Afflictions can find their counterparts in new abilities, ingenuity to adapt to new situations and a steadfast perseverance to pursue to the full all that life still offers.

Sermons on adversity or its rewards are wasted words, if they are not telling of true things. Adversity has no rewards for the crippled, the terribly wounded and maimed and blind except as these rewards are won through their agony and struggle. But the world of industry—business—the professions—has its thousands of gallant souls who are stronger for adversity, if not more able.

Helen Keller, of course, remains the bright beacon of hope for all afflicted. Despite Milton's blindness—or because of it—we have immortal verse. And we think of a blind farmer, Miss Alice Haines, who, after years of editorial work—and sight—turned to farming when she couldn't see. She does everything for herself on her farm—even to her own plowing—is the consultant of agricultural experts—and makes an excellent living.

Loss of limb and paralysis is a terrible handicap, but we know of a dozen farmers who are either partially paralyzed or have lost limbs, and yet they go about their work, successful men in a business that needs not just arms and legs but brains and will. And those they have.

Witchcraft prevailed Salem, Mass. now through September, 1692, victimizing twenty humans and two dogs.

1954]

## MARCH, THIRD MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /																																												
	1	7s. 35	7	5 17	13	2 56	19	0 34	25	1 48	2	7 12	8	4 53	14	2 32	20	0s. 10	26	2 12	3	6 49	9	4 30	15	2 08	21	0N. 14	27	2 35	4	6 26	10	4 06	16	1 45	22	0 37	28	3 59	5	6 03	11	3 43	17	1 21	23	1 01	29	3 22	6	5 40	12	3 19	18	0 57	24	1 25	30

● New Moon, 4th day, 10 h. 11 m., evening, W.

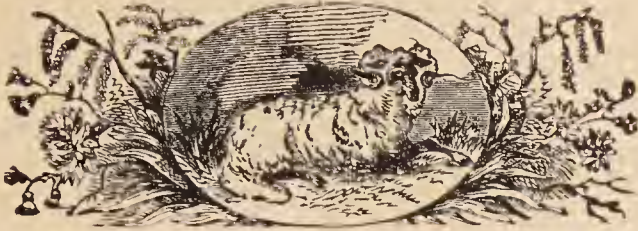
☽ First Quarter, 11th day, 12 h. 51 m., evening, E.

○ Full Moon, 19th day, 7 h. 42 m., morning, W.

☾ Last Quarter, 27th day, 11 h. 14 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

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



... And birches are a ghost-white shining, now,  
 Among the other trees, leafless and black;  
 One walks in woods, aimless, and slow, and slack,  
 For whom all aims are not worth thinking of;  
 And next rough bole and the next swelling bough  
 Are aim enough,  
 And he has lost his thought of turning back.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	M.	David C. Swan D. 1935 ♂♀☉ Inf. □♂☉ {9.8 / 8.3	Barnum said, "There's a sucker born every minute."
2	Tu.	Shrove Tues. Hol. Ala., Fla., La., Tex. {9.8	And it is true that this interesting world is full of swindlers waiting for suckers. But it is also true that more individuals and businesses fail from lack of foresight than from swindlers (unless we call time and change the swindlers—and we might well do that).
3	W.	Mardi Gras Iceberg Pat'l starts out {10.3	
4	Th.	Ash W. USS Cyclops Mystery 1918 ♂♀☾ Tides {10.7 / 10.8	Wind
5	Fr.	Idea on begin ♀♀☾ Tides {11.0 / 10.8	born
6	Sa.	Norwalk Chapel to Sea 1823 ☾ in Peri. {11.1	mush
7	C	1st S. L. Hol. Cal. Tides {11.1 / 10.9	makes
8	M.	Maple Sap starts □♀☉ Tides {11.2 / 10.5	gobs
9	Tu.	1st Rec. Moon Eclipse Babylon 721 B.C. Tides {11.0 / 9.9	of
10	W.	Ember Days 10, 12, 13. Tides {10.7 / 9.2	slush.
11	Th.	Blizzard of 1888 ☾ runs high ♂♀☉ Tides {10.2 / 8.6	
12	Fr.	St. Gregory Tides {9.7 / 8.1	Cold
13	Sa.	♀ Stat. in R.A. ♂♂☾ Tides {9.8 / 8.0	and
14	C	2nd S. L. Tides {9.2 / 8.1	wet,
15	M.	Taxes due. Hol. Tenn. Tides {9.2 / 8.5	that's
16	Tu.	14 Knights hanged, drawn and quartered 1323 {9.3 / 8.8	the
17	W.	St. Patrick Day equals night Tides {9.4 / 9.1	bet.
18	Th.	W. Sinsbury, Ct. on Down River 1801 ☾ Eq. {9.5 / 9.4	Mild
19	Fr.	St. Jos. Swallows San Juan Capistrano Purim {9.5 / 9.6	for
20	Sa.	Spring! ♀ in ♂☉ en-⊙ in {9.4	the sea-
21	C	3rd S. L. ☾ in ♂♀☾ Tides {9.7 / 9.2	son.
22	M.	Alger Hiss Prision 1951 ♂♀☾ Tides {9.7 / 9.0	Spring
23	Tu.	Polygamy Oysters are Abol. 1882 spawning Tides {9.6 / 8.7	is
24	W.	247 Lb. Tarpon caught Mexico, 1938 Tides {9.5 / 8.4	the
25	Th.	Lady Day Tides {9.8 / 8.1	
26	Fr.	☾ rides low ♂♂☾ Tides {9.1 / 7.3	reason.
27	Sa.	Terr. storm 1830 ☉ in Stat. in R.A. Tides {8.9 / 7.3	
28	C	4th S. L. ♀ Gr. El. W. Tides {8.9 / 7.9	Only
29	M.	Scott perished 1912 Tides {9.1 / 8.3	foolies
30	Tu.	Hallelujah Victory 1430 ♀ in Aph. Tides {9.4 / 8.9	have
31	W.	The Black Thorn Winds blow Tides {9.9 / 9.7	removed

Not so many years ago the Annapolis Valley in Nova Scotia was the envy of all fruit men. It could annually have sold its crop a half dozen times over. They just packed their barrels, rolled them out and took in the cash from their foreign customers. They didn't have any others—and didn't need them then.

Most of the Annapolis Valley Orchards have been bulldozed down now. The last war cut their foreign trade off as with a knife—and that trade never returned. They didn't have the variety of apples that could find an American outlet. They just hadn't had the foresight to prepare for a change of market.

And then there were the days when all up through Maine and Canada folks were raising silver foxes and getting rich quick. Time moved on and styles changed. A fox pelt that brought \$250.00 brought \$10.00. To-day the north country is littered with the ruined pens of that luxury business. Nobody—except time and change—swindled anyone.

1954]

APRIL, FOURTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
	1	4N.	32	7	6	49	13	9	02	19	11	10	25	13	11
	2	4	55	8	7	12	14	9	24	20	11	30	26	13	30
	3	5	18	9	7	34	15	9	45	21	11	51	27	13	49
	4	5	41	10	7	56	16	10	07	22	12	11	28	14	08
	5	6	04	11	8	18	17	10	28	23	12	31	29	14	27
	6	6	27	12	8	40	18	10	49	24	12	51	30	14	46

- New Moon, 3rd day, 7 h. 25 m., morning, E.
- ☽ First Quarter, 10th day, 12 h. 5 m., morning, W.
- ☾ Full Moon, 18th day, 12 h. 48 m., morning, W.
- ☾ Last Quarter, 25th day, 11 h. 57 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☉		Key	☽		Key	Length of Days.	Sun Dist.	Full Sea. Boston.		D	Key	D	D's	Moon's Age			
			Rises.	h. m.		h. m.	h. m.				Morn.	Even.						Rises.	h. m.	Souths.
91	1	Th.	5	27	H	6	10	J	12	43	12	9	9 <sup>1</sup> / <sub>2</sub>	4 <sup>A</sup> <sub>M</sub> 06	J	10 <sup>A</sup> <sub>M</sub> 03	PSC	27		
92	2	Fr.	5	25	H	6	11	J	12	46	12	10	10 <sup>1</sup> / <sub>4</sub>	4 <sup>A</sup> <sub>M</sub> 34	H	10	55	ARI	29	
93	3	Sa.	5	24	H	6	12	J	12	49	12	10 <sup>3</sup> / <sub>4</sub>	11	sets	—	11 <sup>A</sup> <sub>M</sub> 49	ARI	0		
94	4	S	5	22	H	6	14	J	12	52	13	11 <sup>1</sup> / <sub>2</sub>	—	8 <sup>F</sup> <sub>M</sub> 13	M	12 <sup>P</sup> <sub>M</sub> 46	TAU	1		
95	5	M.	5	20	H	6	15	J	12	54	13	0	0 <sup>1</sup> / <sub>2</sub>	9	33	O	1	46	TAU	2
96	6	Tu.	5	18	H	6	16	J	12	57	13	0 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	10	47	P	2	47	G'M	3
97	7	W.	5	17	H	6	17	J	13	00	14	1 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>4</sub>	11 <sup>P</sup> <sub>M</sub> 51	P	3	49	G'M	4	
98	8	Th.	5	15	G	6	18	K	13	03	14	2 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>4</sub>	—	—	4	48	CNC	5	
99	9	Fr.	5	13	G	6	19	K	13	06	14	3 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	12 <sup>A</sup> <sub>M</sub> 44	O	5	44	CNC	6	
100	10	Sa.	5	12	G	6	20	K	13	09	14	4 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>4</sub>	1	26	N	6	36	CNC	7
101	11	S	5	10	G	6	21	K	13	11	15	5 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	2	00	M	7	24	LEO	8
102	12	M.	5	08	G	6	23	K	13	14	15	6 <sup>3</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	2	28	L	8	08	LEO	10
103	13	Tu.	5	07	G	6	24	K	13	17	15	7 <sup>3</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	2	52	K	8	50	VIR	11
104	14	W.	5	05	G	6	25	K	13	20	15	8 <sup>1</sup> / <sub>2</sub>	9	3	14	J	9	31	VIR	12
105	15	Th.	5	04	G	6	26	K	13	22	16	9 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>4</sub>	3	35	I	10	11	LIB	13
106	16	Fr.	5	02	G	6	27	K	13	25	16	10	10 <sup>1</sup> / <sub>4</sub>	3	56	G	10	52	LIB	14
107	17	Sa.	5	00	G	6	28	K	13	28	16	10 <sup>3</sup> / <sub>4</sub>	11	4 <sup>A</sup> <sub>M</sub> 18	F	11 <sup>P</sup> <sub>M</sub> 34	LIB	15		
108	18	S	4	59	G	6	29	K	13	31	16	11 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>2</sub>	rises	—	—	—	—		
109	19	M.	4	57	G	6	30	K	13	33	17	—	0	8 <sup>P</sup> <sub>M</sub> 21	N	12 <sup>A</sup> <sub>M</sub> 18	SCO	16		
110	20	Tu.	4	56	G	6	32	K	13	36	17	0	0 <sup>1</sup> / <sub>2</sub>	9	21	O	1	06	SCO	17
111	21	W.	4	54	F	6	33	L	13	39	17	0 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	10	18	O	1	54	SGR	18
112	22	Th.	4	52	F	6	34	L	13	41	17	1 <sup>1</sup> / <sub>2</sub>	2	11	10	O	2	45	SGR	19
113	23	Fr.	4	51	F	6	35	L	13	44	17	2	2 <sup>3</sup> / <sub>4</sub>	11 <sup>P</sup> <sub>M</sub> 55	O	3	37	SGR	20	
114	24	Sa.	4	49	F	6	36	L	13	47	18	2 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	—	—	—	4	29	CAP	21
115	25	S	4	48	F	6	37	L	13	49	18	3 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	12 <sup>A</sup> <sub>M</sub> 34	N	5	21	CAP	22	
116	26	M.	4	47	F	6	38	L	13	52	18	4 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	1	07	M	6	11	AQR	23
117	27	Tu.	4	45	F	6	39	L	13	54	18	5 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	1	37	L	7	01	AQR	24
118	28	W.	4	44	F	6	41	L	13	57	18	6 <sup>3</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	2	04	K	7	51	PSC	25
119	29	Th.	4	42	F	6	42	L	13	59	18	7 <sup>3</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	2	31	I	8	40	PSC	26
120	30	Fr.	4	41	F	6	43	L	14	02	19	8 <sup>1</sup> / <sub>2</sub>	9	2 <sup>A</sup> <sub>M</sub> 58	H	9 <sup>A</sup> <sub>M</sub> 33	ARI	27		



For all that winter stood,  
Immaculate, austere  
Destroyer, here,  
See how the green and grave  
Have what they had to save,  
What in themselves was good.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, Etc.	Farmer's Calendar.
1	Th.	April Fool ♀♂ ☾ ☾ on Eq. {10.8 10.4	<i>their</i>
2	Fr.	Samson & Goliath toted 109 tons of cotton 1831 {10.7 11.0	<i>woolies.</i>
3	Sa.	Hay worth \$180 ton — N.H. 1817 ☾ Apo. {10.9 11.4	<i>Storm</i>
4	C	Passion S. ♀♀ ☾ {—	<i>of the</i>
5	M.	Cain born Abel slain ♂ in ☾ low tide A.M. {11.6 10.7	<i>Year's lowest</i>
6	Tu.	Fish Hawks at Greenport, N. Y. Tides {11.6 10.2	<i>year, far</i>
7	W.	Jesus Cruc. A. D. 30 ♂ ♀ ☾ ☾ runs high {11.2 9.6	<i>and</i>
8	Th.	Petrarch crowned with Laurel 1341 Tides {10.7 9.0	<i>near.</i>
9	Fr.	March into Egypt ☐ ♂ ☉ ♂ ♂ ☾ ☾ {10.1 8.5	
10	Sa.	Underground Moon Tides {9.5 8.2	<i>Spring</i>
11	C	Palm S. Tides {9.1 8.2	<i>really here,</i>
12	M.	U. S. Snowstorm Hol. 1841 N. C. Tides {8.8 8.4	<i>have</i>
13	Tu.	Jefferson Day Hol. Ala., Mo., Neh., Okla., Va. {8.8 8.7	<i>no</i>
14	W.	Geese coming north ☾ on Eq. Tides {8.8 9.0	<i>fear.</i>
15	Th.	Maundy Thursday ♂ ♀ ☉ Tides {8.9 9.3	<i>Rains</i>
16	Fr.	Good Fri. Luther saw Worms 1521 Tides {8.9 9.5	
17	Sa.	♂ ♀ ☾ ♂ in Apo. Tides {9.0 9.7	<i>these</i>
18	C	Easter Passover Underground Moon {8.9 9.8	
19	M.	Patriots' D. Me., Mass., N. C. Hol. {—	<i>days.</i>
20	Tu.	[19th ♂ ♀ ☾ ♀ in ☉ ♀ Gr. Hel. Lat. S.] {8.8 9.3	
21	W.	Tanana R. Ice out May 5, 1954 Hol. Tex. {9.8 8.5	<i>Mist</i>
22	Th.	Scioto Massacre 1822 ☾ rides low Okla. Hol. Tides {9.7 8.4	
23	Fr.	Gluck played Harmonica 1746 ♂ ♂ ☾ {9.5 8.2	<i>light</i>
24	Sa.	133 lb. Wahoo caught 1943 Tides {9.4 8.2	<i>as a</i>
25	C	Low S. Daylight Saving Time begins St. Mark {8.3 8.3	
26	M.	Fast Day N. H. Mem. Day South U. S. Flag over Tripoli 1804 ♂ ☉ Tides {9.2 8.5	
27	Tu.	Aphrodisius carried his' own cut off head to its grave A. D. 69 ☾ on Eq. {9.9 10.8	<i>feather,</i> <i>good</i>
28	W.	Arbor Day Tides {10.2 10.9	<i>planting</i> <i>weather.</i>
29	Th.		
30	Fr.		

The countryman hears more than he realizes—and the good country sounds come to him year after year, pretty much in the same places and at the same times, made by his beasts or his machinery, or the wind in his old elms, or the birds and the wildlife that surround him. They are with him all ways. I think he could walk his acres at black midnight—and surely his barnyard—just by ear. His cattle moving in their stanchions—the whinny of his horses—the sleepy shifting of the fowls on their roosts:—these are his barnyard at night, the very knobs of his darkness, and he needs no light to reach out to them.

He is weatherwise through his ears, or through his feel of weather, as well as through his eyes. If the wind rises he can tell you by the special creakings of the barn door—or if it is from the east or the west or is the insistent strong roaring from the north—he can tell you by the known things around him that are the harps of these winds.

In the spring he is the first to hear from his quiet hill the gabbling wedges of geese and read in their coming the calendar for his seed time and growing. The caw of the crow, the first robin's song, the first burst of cheepers in the marsh are awaited sounds. Winter must pass with these, or spring be a strange and portentous time. But he hears, too, along his road his neighbors. He draws a heap of comfort from them.

Daylight Saving Time begins the 25th.

1954]

MAY, FIFTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	15 <sup>N</sup> .04	7	16 48	13	18 23	19	19 46	25	20 57										
	2	15 22	8	17 05	14	18 37	20	19 58	26	21 07										
	3	15 40	9	17 21	15	18 52	21	20 11	27	21 18										
	4	15 57	10	17 37	16	19 06	22	20 23	28	21 27										
	5	16 15	11	17 52	17	19 19	23	20 34	29	21 37										
	6	16 32	12	18 08	18	19 33	24	20 46	30	21 46										

- New Moon, 2nd day, 3 h. 22 m., evening, E.
- ☽ First Quarter, 9th day, 1 hr. 17 m., evening, E.
- Full Moon, 17th day, 4 h. 47 m., evening, E.
- ☾ Last Quarter, 25th day, 8 h. 49 m., morning, W.
- New Moon, 31st day, 11 h. 03 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

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



Tired of saying good-bye  
To the vast, wheeling sky,  
And being over-fond,  
The field has spread a pond  
To hold the intimate sky  
Nearer and always by.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Sa.	Philip & Kentucky James Derby Tides {10.4 11.4	May
2	C	2nda. E. in Perl. ♂♀ C {10.5 11.7	
3	M.	Jacksonville Highest tide of spring {10.5 11.8	showers
4	Tu.	Moses on Mt. Sinal 1491 B.C. ♂♀ C Hol. R. I. {— 10.3	
5	W.	C runs high ♂♀ C Tides {11.6 9.9	bring
6	Th.	Adhesive Postage Stamps invented 1840 Tides {11.2 9.5	
7	Fr.	Abe Lincoln conceived 1808 ♂♂ C {10.6 9.1	June
8	Sa.	♀ in ♂ ♂♀ C Sup. Tides {10.0 8.7	
9	C	3rdaf. E. Mother's Day {9.4 8.5	flowers.
10	M.	Maine lakes about open Hol. N.C.-S.C. Tides {8.9 8.5	Relax
11	Tu.	St. Pankratus } The Tides {8.6 8.4	in
12	W.	St. Liberatus } Three C on Eq. {8.4 8.3	the
13	Th.	♀ in Perl. Chilly Saints Tides {8.4 9.1	sun
14	Fr.	Goswold Disc in Cape Cod 1602 C Apo. Tides {8.4 9.3	and
15	Sa.	Armed Forces Day ♂♀ C {8.5 9.5	really
16	C	4th S. a. E. ♂ h C {8.5 9.7	have
17	M.	Lake Erie Flower Blow 1893 Moon Tides {8.5 9.8	fun.
18	Tu.	Apple Trees Blossom Tides {8.5 9.9	Sultry
19	W.	1st Trip Fall River Line 1847 C low Rides {— 8.5	and
20	Th.	Lindbergh's Hop 1927 Hol. N. C. Tides {9.9 8.5	hot
21	Fr.	Tornado N. H. 1814 ♂♂ C Tides {9.9 8.5	all
22	Sa.	Nat'l Marine Day ♀ in Perl. Tides {9.8 8.6	over
23	C	Rog. S. ♂♀ ♀ Gr. Hel. Lat. N. {9.7 8.7	
24	M.	[23rd ♂ in R.A.] Minor Rogation Days 24, 25, 26. {9.6 8.9	
25	Tu.	1st Atomic Shell 1953 Tides {9.6 9.2	the lot.
26	W.	St. Louis Tornado 1896 C on Eq. Tides {9.5 9.7	Rain
27	Th.	Ascension Day Tides {9.6 10.2	
28	Fr.	Mt. Everest Conq. 1953 Tides {9.7 10.7	raises
29	Sa.	Empress of Ireland Sank 1914 Tides {9.8 11.2	
30	C	1st S. a. A. Memorial Day in Perl. C {9.9 11.5	
31	M.	Dr. Kane Lost 1855 ♂♀ Tides {10.0 11.7	Cain.

How could man live without water? Without it he would die. It is his food, or the maker of his food. Water he lives by—and fire, which is killed by water.

As I write this the thermometer stands in the high nineties. Even the birds have their mouths wide open and are crowding the overflow from the eow trough. And my collicie has had his mud bath.

This old farm of ours is surrounded by water from the certain, everlasting springs that have been here for generations.

We still have the old well that the hand pump in the kitchen dragged water up from. Out behind the barn there is another hand-pumped well that has always filled the mossy trough. And by the ice house over yonder you can find the sweetest water in the world in the fourteen by fourteen open well, lined for all time with the great, grey stones from our New Hampshire pastures.

These old wells still serve. for they stand between us and our enemy, fire. In the barn is a wonderful machine for shooting water right over the top of the barn—and over our ehimney tops. We have only to drop down the great hose and start the simple motor that throws water on any fire that may sweep our tinder-dry barns and wipe out our home in mindless conflagration.

We live by the thoughtful, cool being of water. God bless it.

1954]

JUNE, SIXTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	22	N.	03	7	22	45	13	23	13	19	23	26	25	23	24
	2	22		11	8	22	51	14	25	16	20	23	26	26	23	22
	3	22		19	9	22	56	15	23	19	21	23	27	27	23	20
	4	22		26	10	23	01	16	23	21	22	23	27	28	23	17
	5	22		33	11	23	05	17	23	23	23	23	26	29	23	14
	6	22		39	12	23	09	18	23	25	24	23	25	30	23	11

☾ First Quarter, 8th day, 4 h. 13 m., morning, W.

☉ Full Moon, 16th day, 7 h. 06 m., morning, W.

☾ Last Quarter, 23rd day, 2 h. 46 m., evening, W.

● New Moon, 30th day, 7 h. 26 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☉		Key	☾		Key	Length of Days.		Sun Fast.	Full Sea, Boston.		☾	Key	☾		☾'s	Moon's Age	
			Rises.	h. m.		Sets.	h. m.		h. m.	h. m.		Morn.	Even.			Sets.	h. m.			Souths.
152	1	Tu.	4	09	D	7	15	N	15	05	18	11	11 $\frac{1}{4}$	8 $\frac{P}{M}$ 15	P	12 $\frac{P}{M}$ 13	G'M	1		
153	2	W.	4	09	D	7	16	N	15	07	18	11 $\frac{3}{4}$	—	9	10	O	1	16	CNC	2
154	3	Th.	4	08	C	7	16	O	15	08	18	0 $\frac{1}{4}$	0 $\frac{3}{4}$	9	53	N	2	14	CNC	3
155	4	Fr.	4	08	C	7	17	O	15	09	18	1	1 $\frac{3}{4}$	10	28	M	3	08	LEO	4
156	5	Sa.	4	08	C	7	18	O	15	10	17	1 $\frac{3}{4}$	2 $\frac{1}{4}$	10	57	L	3	58	LEO	5
157	6	S.	4	07	C	7	18	O	15	11	17	2 $\frac{3}{4}$	3 $\frac{1}{2}$	11	21	K	4	43	LEO	6
158	7	M.	4	07	C	7	19	O	15	12	17	3 $\frac{3}{4}$	4 $\frac{1}{4}$	11 $\frac{P}{M}$ 44	I	5	26	VIR	7	
159	8	Tu.	4	07	C	7	20	O	15	13	17	4 $\frac{1}{2}$	5 $\frac{1}{4}$	—	—	—	6	07	VIR	8
160	9	W.	4	07	C	7	20	O	15	14	17	5 $\frac{1}{2}$	6	12 $\frac{M}{M}$ 05	H	6	48	LIB	9	
161	10	Th.	4	06	C	7	21	O	15	14	17	6 $\frac{1}{2}$	7	12	26	G	7	29	LIB	10
162	11	Fr.	4	06	C	7	21	O	15	15	16	7 $\frac{1}{4}$	7 $\frac{3}{4}$	12	49	F	8	12	SCO	11
163	12	Sa.	4	06	C	7	22	O	15	16	16	8 $\frac{1}{4}$	8 $\frac{1}{2}$	1	15	E	8	58	SCO	12
164	13	S.	4	06	C	7	22	O	15	16	16	9	9 $\frac{1}{4}$	1	45	D	9	46	SCO	13
165	14	M.	4	06	C	7	23	O	15	17	16	9 $\frac{3}{4}$	9 $\frac{3}{4}$	2	21	C	10	36	SGR	14
166	15	Tu.	4	06	C	7	23	O	15	17	15	10 $\frac{1}{2}$	10 $\frac{1}{2}$	3 $\frac{M}{M}$ 04	C	11 $\frac{P}{M}$ 28	SGR	15		
167	16	W.	4	06	C	7	24	O	15	18	15	11	11 $\frac{1}{4}$	rises	—	—	—	—	—	—
168	17	Th.	4	06	C	7	24	O	15	18	15	11 $\frac{3}{4}$	—	8 $\frac{P}{M}$ 34	O	12 $\frac{M}{M}$ 21	CAP	16		
169	18	Fr.	4	06	C	7	24	O	15	18	15	0	0 $\frac{1}{2}$	9	11	N	1	14	CAP	17
170	19	Sa.	4	06	C	7	25	O	15	19	15	0 $\frac{1}{2}$	1 $\frac{1}{4}$	9	42	M	2	05	AQR	18
171	20	S.	4	06	C	7	25	O	15	19	14	1 $\frac{1}{4}$	2	10	10	K	2	55	AQR	19
172	21	M.	4	06	C	7	25	O	15	19	14	2	2 $\frac{3}{4}$	10	36	J	3	43	AQR	20
173	22	Tu.	4	07	C	7	25	O	15	19	14	3	3 $\frac{1}{2}$	11	01	I	4	30	PSC	21
174	23	W.	4	07	C	7	26	O	15	19	14	3 $\frac{3}{4}$	4 $\frac{1}{4}$	11	27	G	5	18	PSC	22
175	24	Th.	4	07	C	7	26	O	15	18	14	4 $\frac{3}{4}$	5 $\frac{1}{4}$	11 $\frac{P}{M}$ 55	F	6	07	ARI	23	
176	25	Fr.	4	08	C	7	26	O	15	18	13	5 $\frac{3}{4}$	6 $\frac{1}{4}$	—	—	—	6	59	ARI	24
177	26	Sa.	4	08	C	7	26	O	15	18	13	6 $\frac{3}{4}$	7 $\frac{1}{4}$	12 $\frac{M}{M}$ 29	E	7	55	TAU	25	
178	27	S.	4	08	C	7	26	O	15	18	13	7 $\frac{3}{4}$	8 $\frac{1}{4}$	1	09	D	8	54	TAU	26
179	28	M.	4	09	C	7	26	O	15	17	13	8 $\frac{3}{4}$	9 $\frac{1}{4}$	1	58	C	9	55	G'M	27
180	29	Tu.	4	09	C	7	26	O	15	17	13	9 $\frac{3}{4}$	10	2 $\frac{M}{M}$ 57	B	10	58	G'M	28	
181	30	W.	4	10	C	7	26	O	15	16	12	10 $\frac{3}{4}$	11	sets	—	11 $\frac{M}{M}$ 58	CNC	0		





Breath's momentary profile, the quick word,  
That praised the flower, went back to general air;  
On the bright field, the shadow of the bird  
Was swift and gone, and there was nothing there,  
But something happened here, something like love:  
A bird's love for the field the bird flew over,  
A man's love for the flower spoken of . . .  
These make no sign, but they have had a lover.

D. M.	D. W.	Aspects, Holldays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Tu.	NICOMEDE Mary Dyer runs {10.0 Hanged 1660 high {11.7	
2	W.	♂ ♀ ☾ Tides {9.9 Set	
3	Th.	♂ ♀ ☾ ☽ ☾ ☽ Hol. {11.5 So. {9.7 aside	
4	Fr.	Dunkirk Tides {11.0 Evac. 1940 {9.5 one	
5	Sa.	World's First Funeral Tides {10.5 Oration 1382 {9.2 day	
6	C	Whit Sunday Inv. Tides {9.9 to get Pentecost 1944 {9.0	
7	M.	SHAVUOTH Rained in Tides {9.4 Kansas 1844 {8.9 in	
8	Tu.	Red Sox 29 ☾ on Tides {8.8 hay. Browns 4 1950 ☾ Eq. {8.8	
9	W.	♀ Gr. El. ☽ ♀ ☽ Tides {8.4 You'll E. {8.8	
10	Th.	[9th Ember Days] "Worcester" {8.2 9, 11, 12. Tornado 1953 {8.9	
11	Fr.	♂ ♀ ☾ ☽ in Tides {8.0 wish you Apo. {9.1	
12	Sa.	Drought ends ☽ ☾ Tides {8.0 had, 1950 {9.2	
13	C	Trinity ☽. ♀ Gr. Hel. {8.0 this Lat. N. {9.4	
14	M.	Flag Day Hol. Tides {8.1 week Mo., Pa. {9.6	
15	Tu.	St. Bernard ☾rides Hol. Tides {8.2 is low Id. {9.8	
16	W.	Sacred Invasion ♀ in ☽ {8.4 bad. Heart Moon {10.0	
17	Th.	Corpus Bunker Hol. Suff. {8.5 Christi Hill Cty. Mass. ♂ ♂ ☾ {8.5	
18	Fr.	War of Tides {10.1 Winds aborn- 1812 {8.7	
19	Sa.	Rosenbergs N. Y.-Conn. {10.2 exec. 1953 Tornado 1794 {8.9 ing	
20	C	2a. ♀. Father's Hol. {10.2 sailors Day W. Va. {9.1	
21	M.	Summer begins Tides {10.1 take 5.55 P.M. {9.3	
22	Tu.	Cape Cod Canal on ☽ Stat In {10.0 opened 1909 ☾ Eq. R.A. {9.6	
23	W.	Ohio, W. Va., Pa. {9.8 warning. Tornado 1944 {9.9	
24	Th.	John the Baptist ☽ ☽ ☽ {9.6 Rains was born {10.1	
25	Fr.	"Blood is thicker Tides {9.4 before than Water" 1859 {10.4	
26	Sa.	Now Bathe at ♀ In {9.3 seven, Old Orchard, Me. ☽ Aph. {10.8	
27	C	2nda. ☽. Korea ☾ in {9.3 clears 1950 ☾ Pert {11.0	
28	M.	Molly Pitcher ☾ runs {9.4 by 11. 1778 high {11.3	
29	Tu.	Sts. Peter & Paul ☾ Marry today {9.5 Good luck always. {11.4	
30	W.	☽ Total ☽ ♀ ☾ ☽ ♀ ☾ {9.6 Eclipse {11.4	

A countryman's way of life is more than plowing and sowing and mowing or any of the daily work on the farm. His way of life is made up of things around him that he has grown up with—the old homestead, the little trout brook, and, most of all, the great trees he has always known. These trees are to him sound and shade and motion and blessed coolness in hot summers. The friendly rough feel of their bark he knows and loves. He has a hundred unconscious pictures of them in his mind;—their great limbs groaning and bending in the hurricane, green leaves swirling into every corner of the barnyard, and the air filled with the crushed grape-like smell of them; or his trees silver and still in the moonlight with a little breath of night wind dying in them; or bold and black against the lightning stroke—and sometimes riven; or bleak and brittle against the white drifts of winter. Around the old home and barnyard they are an oasis of welcome, and when he is at the far corners of his fields they reach out to him.

New England, particularly rural New England, loves its elms. But hundreds have already been lost to the Dutch Elm disease—yet all need not be lost. Destruction of diseased trees and a stepped up spraying program costs a lot. But many Connecticut towns have gladly done this—and they have saved their elms. With some state or government aid every town could do the same.

15% of all U. S. tornadoes come this month.

1954]

JULY, SEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
1	23	N.	07	7	22	36	13	21	50	19	20	52	25	19	40
2	23		03	8	22	29	14	21	41	20	20	40	26	19	27
3	22		58	9	22	22	15	21	32	21	20	29	27	19	14
4	22		53	10	22	15	16	21	23	22	20	17	28	19	00
5	22		48	11	22	07	17	21	13	23	20	05	29	18	46
6	22		42	12	21	59	18	21	02	24	19	51	30	18	31

- ☽ First Quarter, 7th day, 8 h. 33 m., evening, W.
- ☾ Full Moon, 15th day, 7 h. 29 m., evening, E.
- ☾ Last Quarter, 22nd day, 7 h. 14 m., evening, E.
- New Moon, 29th day, 5 h. 20 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week.	☉ Rises.		Key	☉ Sets.		Key	Length of Days.	Sun. Past.	Full Sea, Boston.		☽ Sets.	Key	☽ Souths.		☽'s Place	Moon's Age
			h.	m.		h.	m.				h.	m.			h.	m.		
182	1	Th.	4	10	C	7	26	O	15 16 12	11 1/2	11 3/4	8 <sup>P</sup> <sub>M</sub> 24	M	12 <sup>P</sup> <sub>M</sub> 55	CNC	1		
183	2	Fr.	4	11	C	7	25	O	15 15 12	—	0 1/2	8 56	L	1 47	LEO	2		
184	3	Sa.	4	11	C	7	25	O	15 14 12	0 3/4	1 1/4	9 22	K	2 35	LEO	3		
185	4	S	4	12	C	7	25	O	15 13 12	1 1/2	2	9 46	J	3 20	VIR	4		
186	5	M.	4	12	C	7	25	O	15 12 11	2 1/4	2 3/4	10 08	I	4 02	VIR	5		
187	6	Tu.	4	13	C	7	24	O	15 12 11	3	3 1/2	10 30	G	4 44	LIB	6		
188	7	W.	4	14	C	7	24	O	15 11 11	4	4 1/2	10 52	F	5 25	LIB	7		
189	8	Th.	4	14	C	7	24	O	15 10 11	4 3/4	5 1/4	11 17	E	6 08	LIB	8		
190	9	Fr.	4	15	C	7	23	O	15 08 11	5 3/4	6	11 <sup>P</sup> <sub>M</sub> 45	D	6 52	SCO	9		
191	10	Sa.	4	16	C	7	23	N	15 07 11	6 1/2	7	—	—	7 38	SCO	11		
192	11	S	4	16	D	7	22	N	15 06 10	7 1/2	7 3/4	12 <sup>A</sup> <sub>M</sub> 18	D	8 28	SGR	12		
193	12	M.	4	17	D	7	22	N	15 05 10	8 1/4	8 1/2	12 59	C	9 19	SGR	13		
194	13	Tu.	4	18	D	7	21	N	15 03 10	9 1/4	9 1/4	1 47	C	10 12	SGR	14		
195	14	W.	4	19	D	7	21	N	15 02 10	10	10	2 <sup>A</sup> <sub>M</sub> 43	C	11 06	CAP	15		
196	15	Th.	4	20	D	7	20	N	15 01 10	10 3/4	10 3/4	rises	—	11 <sup>P</sup> <sub>M</sub> 59	CAP	16		
197	16	Fr.	4	20	D	7	20	N	14 59 10	11 1/4	11 1/2	7 <sup>P</sup> <sub>M</sub> 44	M	—	—	—		
198	17	Sa.	4	21	D	7	19	N	14 58 10	—	0	8 14	L	12 <sup>A</sup> <sub>M</sub> 50	AQR	17		
199	18	S	4	22	D	7	18	N	14 56 10	0 1/4	0 3/4	8 41	J	1 40	AQR	18		
200	19	M.	4	23	D	7	17	N	14 54 10	1	1 1/2	9 06	I	2 28	PSC	19		
201	20	Tu.	4	24	D	7	17	N	14 53 10	1 3/4	2 1/4	9 32	H	3 16	PSC	20		
202	21	W.	4	25	D	7	16	N	14 51 9	2 1/2	3	9 59	F	4 05	ARI	21		
203	22	Th.	4	26	D	7	15	N	14 49 9	3 1/2	4	10 30	E	4 56	ARI	22		
204	23	Fr.	4	27	D	7	14	N	14 47 9	4 1/2	5	11 07	D	5 49	TAU	23		
205	24	Sa.	4	28	D	7	13	N	14 46 9	5 1/2	6	11 <sup>P</sup> <sub>M</sub> 51	C	6 46	TAU	24		
206	25	S	4	29	D	7	12	N	14 44 9	6 1/2	7	—	—	7 45	G'M	25		
207	26	M.	4	29	D	7	11	N	14 42 9	7 1/2	8	12 <sup>A</sup> <sub>M</sub> 45	B	8 45	G'M	26		
208	27	Tu.	4	30	D	7	10	N	14 40 9	8 3/4	9	1 48	C	9 45	CNC	27		
209	28	W.	4	31	E	7	09	M	14 38 9	9 1/2	10	2 <sup>A</sup> <sub>M</sub> 57	C	10 43	CNC	28		
210	29	Th.	4	32	E	7	08	M	14 36 9	10 1/2	10 3/4	sets	—	11 <sup>A</sup> <sub>M</sub> 36	LEO	29		
211	30	Fr.	4	33	E	7	07	M	14 34 9	11 1/4	11 1/2	7 <sup>P</sup> <sub>M</sub> 23	L	12 <sup>P</sup> <sub>M</sub> 26	LEO	1		
212	31	Sa.	4	34	E	7	06	M	14 31 9	—	0	7 <sup>P</sup> <sub>M</sub> 48	J	1 <sup>P</sup> <sub>M</sub> 12	VIR	2		



The woods stand close around,  
And the sound the leaves make  
Is small and near, a green sound —  
This, for joy's sake,  
Since joy is surely here

High up there is a clear  
Way that the trees make  
To show how blue and near  
Is heaven — for love's sake;  
And love is surely here.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Th.	Earhart Dis. 1937 $\delta \hat{\odot} \text{C}$ Tides { 9.7 11.2	Crops
2	Fr.	Visitation W. Elizabeth $\delta$ Nearest $\oplus$ { 9.7	are
3	Sa.	$\delta \Psi \text{C}$ $\oplus$ in Aph. Tides { 10.8 9.6	thriving
4	C	4th S. a. $\Psi$ . Ind. Day { 10.4 9.5	despite
5	M.	$\text{C}$ on Eq. $\Psi$ Stat. in R.A. Tides { 9.8 9.3	rain's
6	Tu.	Beecher Exon. 1875 $\delta \Psi \odot$ Inf. Tides { 9.2	
7	W.	St. Frances Cabrini $h$ in R.A. Stat. { 8.7 9.0	driving.
8	Th.	Eph. Howe ART. Salem 1677 $\delta \Psi \text{C}$ Tides { 8.3 8.9	Hot,
9	Fr.	in Apo. $\delta h \text{C}$ Tides { 7.9 8.9	sultry,
10	Sa.	Ford had \$223.65—1903 $\delta \Psi \text{C}$ Tides { 7.7 9.0	bit
11	C	4tha. $\text{C}$ . Tides { 7.7 9.1	of a
12	M.	Kansas-Okla. Floods 1951. Tides { 7.8 9.3	drought,
13	Tu.	$\text{C}$ rides low. $\delta \delta \text{C}$ Hol. Tenn. Tides { 7.9 9.8	
14	W.	Campanile Bastille Day 1902 Tides { 8.2 9.9	but
15	Th.	St. Swithin Buck Moon Par. Eclipse Tides { 8.5 9.1	let's
16	Fr.	$\square \Psi \odot$ $\delta \hat{\odot} \odot$ $\Psi$ Gr. Hel. Lat. S. Stat. { 8.8 10.4	
17	Sa.	Tornado Kansas City 1880 [16th $\Psi$ in R.A.] Stat. { 9.2	
18	C	5tha. $\text{C}$ . Behring Disc. Am. 1741 Tides { 10.5 9.5	not
19	M.	$\text{C}$ on Eq. $\Psi$ in $\delta \delta$ Tides { 10.8 9.8	pout
20	Tu.	Peregrine White D. 1704 Tides { 10.4 10.1	or
21	W.	Daniel Pittsburg Riots 1877 Tides { 10.2 10.2	shout.
22	Th.	M. Magdalene Tides { 9.8 10.8	
23	Fr.	1st English Newspaper 1588 $\text{C}$ in Pcri { 9.4 10.8	Sharp
24	Sa.	[25th DOG DAYS] BEGIN James Christopher Gr. El. W. Hol. Utah { 9.1 10.4	blasts,
25	C	7tha. $\Psi$ . Tides { 8.9 10.5	
26	M.	$\text{C}$ runs high $\square h \odot$ $\Psi$ Gr. El. W. Tides { 8.8 10.6	
27	Tu.	Seven Sleepers $\delta \Psi \text{C}$ $\delta \Psi \text{C}$ { 9.0 10.8	soon
28	W.	$\delta \Psi \text{C}$ $\delta \hat{\odot} \text{C}$ Tides { 9.2 10.9	
29	Th.	Ponles penned at Assateague, Va. $\delta$ in R.A. Stat. { 9.5 10.9	
30	Fr.	Over 100 deg. Providence 1949 Tides { 9.7 10.3	past.
31	Sa.	Sixt Day Drought 1949 Tides { 9.7 9.3	

It was early of a Fourth of July morning in the pretty little Vermont town, but all along Main Street from the High School, Tukey, the highway agent, and his crew had been busy sweeping and cleaning up the route of the parade, for the town still had its complement of horse drawn traffic and there was a substantial accumulation to sweep. It was Tukey's plan to put a rope across both ends of the street to prevent any equine passing before parade time, and he was about to do so when he saw at the top of the street old Grimes driving his wagon and leading a cow behind.

He rushed up, demanding that Grimes get off the thoroughfare and clean up behind him. Bill refused to do either. Tukey was highway agent wasn't he? It was his job to clean the streets. And he passed serenely on, Tukey hopping blasphemously beside him.

Before you knew it crowds were gathering, and the story of the great Main Street controversy was all over town. Sides were taken—husband against wife, brother against brother. Though a civic duty was involved, neither Tukey nor Grimes would give in.

At last the parade was held, but it couldn't walk in a straight line, for Bill's old horses had been in no hurry and had wandered some. A sorry affair—the "Tukey" half of the band bleating and blowing against the "Grimes" half, and nobody in step.

After a public hearing the next week, Tukey was fired.

1954]

## AUGUST, EIGHTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	18	N.02	7	16 26	13	14 41	19	12 47	25	10 46					
2	17	47	8	16 09	14	14 23	20	12 28	26	10 26						
3	17	31	9	15 52	15	14 04	21	12 08	27	10 05						
4	17	15	10	15 35	16	13 45	22	11 48	28	9 44						
5	16	59	11	15 17	17	13 26	23	11 27	29	9 22						
6	16	43	12	14 59	18	13 03	24	11 07	30	9 01						

☽ First Quarter, 6th day, 1 h. 50 m., evening, E.

☉ Full Moon, 14th day, 6 h. 03 m., morning, W.

☾ Last Quarter, 20th day, 11 h. 51 m., evening, E.

● New Moon, 28th day, 5 h. 21 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☉ Rises.		Key	☉ Sets.		Key	Length of Days.		Sun Fast.	Full Sea, Boston.		☽ Sets.	Key	☽ Souths.		☽'s Place	Moon's Age
			h.	m.		h.	m.		h.	m.		h.	m.			h.	m.		
213	1	S.	4	35	E	7	05	M	14	29	10	0 $\frac{1}{4}$	0 $\frac{3}{4}$	8 <sup>P</sup> 11	I	1 <sup>P</sup> 56	VIR	3	
214	2	M.	4	36	E	7	04	M	14	27	10	1	1 $\frac{1}{2}$	8 33	H	2 38	VIR	4	
215	3	Tu.	4	37	E	7	03	M	14	25	10	1 $\frac{3}{4}$	2 $\frac{1}{4}$	8 55	G	3 20	LIB	5	
216	4	W.	4	39	E	7	01	M	14	23	10	2 $\frac{1}{2}$	3	9 19	F	4 02	LIB	6	
217	5	Th.	4	40	E	7	00	M	14	21	10	3 $\frac{1}{4}$	3 $\frac{3}{4}$	9 46	E	4 46	SCG	7	
218	6	Fr.	4	41	E	6	59	M	14	18	10	4	4 $\frac{1}{2}$	10 17	D	5 31	SCO	8	
219	7	Sa.	4	42	E	6	58	M	14	16	10	5	5 $\frac{1}{4}$	10 53	C	6 19	SCO	9	
220	8	S.	4	43	E	6	56	M	14	14	10	6	6 $\frac{1}{4}$	11 <sup>P</sup> 38	C	7 09	SGR	10	
221	9	M.	4	44	E	6	55	M	14	11	10	6 $\frac{3}{4}$	7 $\frac{1}{4}$	—	—	8 02	SGR	11	
222	10	Tu.	4	45	E	6	54	M	14	09	10	7 $\frac{3}{4}$	8	12 <sup>A</sup> 30	C	8 55	CAP	12	
223	11	W.	4	46	F	6	52	L	14	06	11	8 $\frac{3}{4}$	8 $\frac{3}{4}$	1 30	C	9 48	CAP	13	
224	12	Th.	4	47	F	6	51	L	14	04	11	9 $\frac{1}{2}$	9 $\frac{3}{4}$	2 36	D	10 40	AQR	14	
225	13	Fr.	4	48	F	6	49	L	14	02	11	10 $\frac{1}{4}$	10 $\frac{1}{2}$	3 <sup>M</sup> 46	E	11 <sup>P</sup> 31	AQR	15	
226	14	Sa.	4	49	F	6	48	L	13	59	11	10 $\frac{3}{4}$	11 $\frac{1}{4}$	rises	—	—	—	—	
227	15	S.	4	50	F	6	47	L	13	56	11	11 $\frac{1}{2}$	11 $\frac{3}{4}$	7 <sup>P</sup> 09	J	12 <sup>A</sup> 21	PSC	16	
228	16	M.	4	51	F	6	45	L	13	54	11	—	0 $\frac{1}{4}$	7 35	H	1 11	PSC	17	
229	17	Tu.	4	52	F	6	44	L	13	51	12	0 $\frac{3}{4}$	1	8 04	G	2 01	ARI	18	
230	18	W.	4	53	F	6	42	L	13	49	12	1 $\frac{1}{2}$	1 $\frac{3}{4}$	8 33	F	2 52	ARI	19	
231	19	Th.	4	54	F	6	41	L	13	46	12	2 $\frac{1}{4}$	2 $\frac{3}{4}$	9 08	D	3 45	TAU	20	
232	20	Fr.	4	55	F	6	39	L	13	44	12	3 $\frac{1}{4}$	3 $\frac{1}{2}$	9 50	C	4 41	TAU	21	
233	21	Sa.	4	56	F	6	38	L	13	41	13	4 $\frac{1}{4}$	4 $\frac{1}{2}$	10 41	C	5 39	G'M	23	
234	22	S.	4	58	F	6	36	L	13	38	13	5 $\frac{1}{4}$	5 $\frac{1}{2}$	11 <sup>P</sup> 40	B	6 39	G'M	24	
235	23	M.	4	59	F	6	34	L	13	36	13	6 $\frac{1}{4}$	6 $\frac{3}{4}$	—	—	7 38	G'M	25	
236	24	Tu.	5	00	G	6	33	K	13	33	13	7 $\frac{1}{2}$	7 $\frac{3}{4}$	12 <sup>A</sup> 45	C	8 35	CNC	26	
237	25	W.	5	01	G	6	31	K	13	30	13	8 $\frac{1}{2}$	8 $\frac{3}{4}$	1 54	D	9 29	CNC	27	
238	26	Th.	5	02	G	6	30	K	13	28	14	9 $\frac{1}{2}$	9 $\frac{3}{4}$	3 04	E	10 19	LEO	28	
239	27	Fr.	5	03	G	6	28	K	13	25	14	10 $\frac{1}{4}$	10 $\frac{1}{2}$	4 <sup>M</sup> 11	F	11 06	LEO	29	
240	28	Sa.	5	04	G	6	26	K	13	22	14	11	11 $\frac{1}{4}$	sets	—	11 <sup>A</sup> 51	VIR	0	
241	29	S.	5	05	G	6	25	K	13	20	15	11 $\frac{1}{2}$	—	6 <sup>P</sup> 37	I	12 <sup>P</sup> 34	VIR	1	
242	30	M.	5	06	G	6	23	K	13	17	15	0	0 $\frac{1}{4}$	6 59	G	1 16	LIB	2	
243	31	Tu.	5	07	G	6	21	K	13	14	15	0 $\frac{1}{2}$	1	7 <sup>P</sup> 22	F	1 <sup>P</sup> 58	LIB	3	



Light on this land is different — not to pass,  
 Not for the transient brightening of a shield,  
 Then gone — but something that bides deeper in;  
 It knows the grass roots, and where dark had been  
 Is something less than darkness, and the field  
 Shines upward from the roots and out through grass —  
 Some virtue in herself, when everywhere  
 Were darkness, else . . . her way of being there.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	C	Lammas Day Hol. Tides {10.5 Col. 9.3	Cool
2	M.	♂♀☾ ☾ on Eq. Tides {10.1 9.7	breezes
3	Tu.	"Don't Slay Me, Soldier I am the King" 1265 Tides {9.7 9.6	but
4	W.	♂☽♁ ♀ in ☽ Tides {9.2 9.4	
5	Th.	♂☽☾ ☽☾☾ ☾ in Apo. {8.7 9.2	no
6	Fr.	TRANSFIGURATION {8.2 9.0	freezes.
7	Sa.	Name of Jesus ThermoPllae B.C. 480 {7.8 8.8	Rain
8	C	9th a. ♀. ♀ in ☽ Tides {7.6 8.8	from
9	M.	☾rides low. ♀ in Perl. Tides {7.5 9.0	the
10	Tu.	St. Laurence ♂♂☾ Tides {7.7 9.2	East,
11	W.	Hay Fever "Nearer my Season God, 1872" {8.0 9.6	one
12	Th.	"All is Lost—Save the Royal Family", 1759 Tides {8.4 10.0	day
13	Fr.	East Coast Storm, 1873 Tides {8.9 10.4	at least.
14	Sa.	Sturgeon Ark. Moon R. I. Tides {9.5 10.7	Glass
15	C	10th a. ♀. Assumption Virgin Mary on Eq. Tides {9.9 10.9	is
16	M.	Battle of Bennington, Vt. Dakota Clouds Burst 1876 ♂♂☾ Tides {10.3 10.8	low, look out
17	Tu.	Virginia Dare B. 1587 ☾ in Perl. Tides {10.6 10.7	for a
18	W.	Storms & Gales 1738, 1879 ♀ Gr. Hel. Lat. N. Tides {10.2 10.7	blow.
19	Th.	W. Va. proposes Kanawha 1761 22 deg. Morgan, Vermont, 1949. ♂♀☾ Sup. Tides {9.7 10.5	
20	Fr.		No
21	Sa.		Sup. {9.2 10.3
22	C	10th a. ☾. ☾ runs high Tides {8.8 10.1	weather
23	M.	Sacco-Vanzetti Exec. 1927 Tides {8.5 10.0	is
24	Tu.	Bartholomew ♂♂☾ Tides {8.6 10.1	ill,
25	W.	Chatterton Sulclde 1770 Grand Banks Storm 1883 Tides {8.8 10.8	when
26	Th.		wind
27	Fr.	U.S.T. Chathan. Torp. 1942 Tides {9.6 10.4	is
28	Sa.	Great S. Atlantic Storm Razing 1893 Tides {9.7 10.3	still.
29	C	11th a. ☾. ♂♀☾ ☾ on Eq. Tides {9.9 10.1	
30	M.	St. Flaccius Hol. La. Tides {10.1 10.0	Rain.
31	Tu.	Heavy Rain Kingston, R.I. 1939 Tides {9.8 9.9	

There are probably a lot more ways than I can think for getting yourself into trouble on a farm, and I guess I could list a hundred. Just a few of them follow.

Don't take your bull for granted. He's the most dangerous animal in the world, and a ring in his nose doesn't make him a safe bet. And there is no such thing as a safe bull in 'pasture. Then, old machines, like old rope, have got to be sound to be good risks. And that goes for electrical wiring. As for smoking in any farm building, don't do it yourself and don't let anyone else. About smoking, the man with a pipe with dottle ready to drop anytime is worse than a man with a cigarette. Cigarette ash is just ash—pipe dottle makes fire. A pipe smoker is always careless with his matches.

Watch how you swing that axe—particularly on frozen wood. It can bite you. And a dull axe will do it faster than a sharp one. Know which way your tree is going to fall before you fell it. Don't cut timber in a high wind.

A tired man behind the wheel of his tractor is a dangerous man to himself. Machines that are half controlled can throw you too easily—and the wheels keep moving.

But the easiest way to really get yourself hurt is to stomp in all muddy on Ma's wet, clean floors when Ma is still pushing the mop. What happens to you then Ma wouldn't call an accident.

1954]

## SEPTEMBER, NINTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	'	"/	0	'	"/	0	'	"/	0	'	"/	0	'	"/
1	8N.	18		7	6	05	13	3	49	19	1	31	25	0	50
2	7	56		8	5	43	14	3	26	20	1	07	26	1	14
3	7	34		9	5	20	15	3	03	21	0	43	27	1	37
4	7	12		10	4	57	16	2	39	22	0N.	20	28	2	00
5	6	50		11	4	34	17	2	16	23	0s.	04	29	2	24
6	6	27		12	4	12	18	1	54	24	0	27	30	2	47

☽ First Quarter, 5th day, 7 h. 28 m., morning, E.

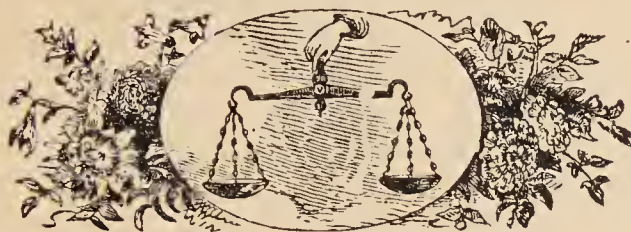
☾ Full Moon, 12th day, 3 h. 19 m., evening, E.

☾ Last Quarter, 19th day, 6 h. 11 m., morning, W.

● New Moon, 26th day, 7 h. 50 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☉ Rises		Key	☉ Sets		Key	Length of Days		Sun Fast.	Full Sea, Boston.		☽ Sets	Key	☽ Souths.	☽'s Place	Moon's Age
			h.	m.		h.	m.		h.	m.		h.	m.					
244	1	W.	5	08	G	6	20	K	13	11	16	1 $\frac{1}{4}$	1 $\frac{1}{2}$	7 $\frac{P}{M}$ 48	E	2 $\frac{P}{M}$ 41	LIB	4
245	2	Th.	5	09	G	6	18	K	13	09	16	2	2 $\frac{1}{4}$	8 17	D	3 25	SCO	5
246	3	Fr.	5	10	G	6	16	K	13	06	16	2 $\frac{3}{4}$	3	8 51	C	4 12	SCO	6
247	4	Sa.	5	11	G	6	15	K	13	03	17	3 $\frac{1}{2}$	3 $\frac{3}{4}$	9 32	C	5 01	SGR	7
248	5	S.	5	12	H	6	13	J	13	00	17	4 $\frac{1}{4}$	4 $\frac{3}{4}$	10 20	C	5 51	SGR	9
249	6	M.	5	13	H	6	11	J	12	58	17	5 $\frac{1}{4}$	5 $\frac{1}{2}$	11 $\frac{P}{M}$ 15	C	6 43	SGR	10
250	7	Tu.	5	15	H	6	09	J	12	55	18	6 $\frac{1}{4}$	6 $\frac{1}{2}$	—	—	7 35	CAP	11
251	8	W.	5	16	H	6	08	J	12	52	18	7 $\frac{1}{4}$	7 $\frac{1}{2}$	12 $\frac{A}{M}$ 18	D	8 27	CAP	12
252	9	Th.	5	17	H	6	06	J	12	49	18	8	8 $\frac{1}{4}$	1 25	E	9 19	AQR	13
253	10	Fr.	5	18	H	6	04	J	12	46	19	9	9 $\frac{1}{4}$	2 36	F	10 09	AQR	14
254	11	Sa.	5	19	H	6	02	J	12	44	19	9 $\frac{3}{4}$	10	3 $\frac{A}{M}$ 48	G	11 00	PSC	15
255	12	S.	5	20	H	6	01	J	12	41	19	10 $\frac{1}{4}$	10 $\frac{3}{4}$	rises	—	11 $\frac{P}{M}$ 51	PSC	16
256	13	M.	5	21	H	5	59	J	12	38	20	11	11 $\frac{1}{2}$	6 $\frac{P}{M}$ 04	H	—	—	—
257	14	Tu.	5	22	H	5	57	J	12	35	20	11 $\frac{3}{4}$	—	6 34	F	12 $\frac{A}{M}$ 43	ARI	17
258	15	W.	5	23	H	5	55	J	12	32	20	0 $\frac{1}{4}$	0 $\frac{1}{2}$	7 09	E	1 37	ARI	18
259	16	Th.	5	24	H	5	54	J	12	29	21	1	1 $\frac{1}{2}$	7 50	D	2 34	TAU	19
260	17	Fr.	5	25	H	5	52	I	12	27	21	2	2 $\frac{1}{4}$	8 38	C	3 33	TAU	20
261	18	Sa.	5	26	I	5	50	I	12	24	22	3	3 $\frac{1}{4}$	9 35	B	4 33	G'M	21
262	19	S.	5	27	I	5	48	I	12	21	22	4	4 $\frac{1}{4}$	10 39	C	5 33	G'M	22
263	20	M.	5	28	I	5	46	I	12	18	22	5	5 $\frac{1}{4}$	11 $\frac{P}{M}$ 46	D	6 31	CNC	23
264	21	Tu.	5	29	I	5	45	I	12	15	23	6 $\frac{1}{4}$	6 $\frac{1}{2}$	—	—	7 26	CNC	24
265	22	W.	5	30	I	5	43	I	12	12	23	7 $\frac{1}{4}$	7 $\frac{1}{2}$	12 $\frac{A}{M}$ 55	E	8 16	LEO	25
266	23	Th.	5	32	I	5	41	I	12	10	23	8 $\frac{1}{4}$	8 $\frac{1}{2}$	2 02	F	9 03	LEO	26
267	24	Fr.	5	33	I	5	39	I	12	07	24	9	9 $\frac{1}{2}$	3 08	G	9 48	VIR	27
268	25	Sa.	5	34	I	5	38	I	12	04	24	9 $\frac{3}{4}$	10 $\frac{1}{4}$	4 $\frac{A}{M}$ 11	H	10 31	VIR	28
269	26	S.	5	35	I	5	36	I	12	01	24	10 $\frac{1}{2}$	10 $\frac{3}{4}$	sets	—	11 $\frac{A}{M}$ 13	VIR	29
270	27	M.	5	36	I	5	34	I	11	58	25	11	11 $\frac{1}{2}$	5 $\frac{P}{M}$ 26	G	11 $\frac{A}{M}$ 55	LIB	1
271	28	Tu.	5	37	I	5	32	H	11	55	25	11 $\frac{3}{4}$	—	5 51	F	12 37	LIB	2
272	29	W.	5	38	J	5	31	H	11	53	25	0	0 $\frac{1}{4}$	6 19	E	1 $\frac{P}{M}$ 21	SCO	3
273	30	Th.	5	39	J	5	29	H	11	50	26	0 $\frac{3}{4}$	1	6 $\frac{P}{M}$ 52	D	2 $\frac{P}{M}$ 07	SCO	4



This will not burn the field away, not quite,  
 Not while I stand and look . . . but if I turned,  
 And took a roadway leading left or right,  
 And came to any town,  
 I could persuade them how the mustard burned  
 And raged in wind, and how, in my full sight,  
 A city had gone down.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	W.	♁♀♃♄♅♆ Tides { <sup>9.4</sup> / <sub>9.7</sub> Winds	<p>You don't know earth till you feel the coolness of it—the wet coolness of it about this time when the days are hot, when the wet, cool nights make the land most welcome after the hot summer. Your land takes the coming of the fall before the leaves turn.</p> <p>We know our land for what it will grow. We know our land for the promise of what it may grow. But we know our lands, really, for the story of the good crops our fathers knew here.</p> <p>Land is not a property passed from hand to hand. It is not sold or bought—but truly its own. It knows no owner. It is not supported but supports and is faithful servant and stern master.</p> <p>I think of those who have worked these fields of ours—and I would be humble—but lovely land is prouder and richer than any man who has worked them.</p> <p>These fields are life—deeper, richer, prouder than any man who has plowed or sowed them. For men pass, but I know that these good acres of ours—and yours tomorrow, perhaps—will endure.</p> <p>There will be those who walk better lands than they know—or ever will. Good land will find its good master—and tolerate no other. And that is true, for land will not grow for the clumsy thumb or the idle one.</p> <p>Good earth, your richness and your promise will enrich me if I be your good servant. Serve me well in the best ways that I can use you.</p>
2	Th.	♁♀♃♄♅♆ in Apo Tides { <sup>9.0</sup> / <sub>9.5</sub> back	
3	Fr.	Antony-Cleopatra (2nd) Double Suicide B.C. 31 { <sup>8.6</sup> / <sub>9.2</sub> against	
4	Sa.	MOSES Mich. Forest Fires Kill 300—1881 { <sup>8.2</sup> / <sub>9.0</sub> the	
5	C	13th a. ♀. Dog Days end Tides { <sup>7.8</sup> / <sub>8.8</sub>	
6	M.	Labor Day Hay Fever worst now ♀ Gr. EL E. { <sup>7.6</sup> / <sub>8.7</sub> sun	
7	Tu.	1st U.S. Theatre Newport 1761 ♂♂♃♄ { <sup>7.6</sup> / <sub>8.9</sub> bringing	
8	W.	Nativity "There She Schoons," 1714 Tides { <sup>7.9</sup> / <sub>8.2</sub>	
9	Th.	♁ Gr. Hel. Lat. S. Calif. Hol. Tides { <sup>8.3</sup> / <sub>9.6</sub> rain	
10	Fr.	"Don't Give Up the Ship" 1813 Tides { <sup>8.9</sup> / <sub>10.1</sub> on the	
11	Sa.	The Cabinet Resigned 1841 Tides { <sup>9.6</sup> / <sub>10.8</sub> run.	
12	C	14th a. ♀. Harvest Moon ♂ on Eq. { <sup>10.2</sup> / <sub>10.8</sub>	
13	M.	Elections [12th ♀ in ♂ ♀ Aph.] Maine N.H. in { <sup>10.7</sup> / <sub>11.0</sub>	
14	Tu.	Holy Cross Day Primaries ♂ Peri. { <sup>11.1</sup> / <sub>—</sub>	
15	W.	Ember Days 15, 17, 18 ♂♀♃♄ Tides { <sup>10.9</sup> / <sub>11.3</sub> After	
16	Th.	[17th Citizenship Day] Hurricanes Raging 1938, 1944, 1947 { <sup>10.1</sup> / <sub>10.9</sub> stormy	
17	Fr.	1926, 1945, 1863, 1843 ♂runs high Tides { <sup>10.6</sup> / <sub>11.2</sub> a low,	
18	Sa.	1843 ♂runs high Tides { <sup>9.5</sup> / <sub>10.5</sub>	
19	C	14th a. ♂. Robsart Murd. 1560 { <sup>8.9</sup> / <sub>10.0</sub> blow.	
20	M.	"Oh Solitude, where are thy Charms?" 1676 { <sup>8.5</sup> / <sub>9.7</sub> Winds	
21	Tu.	St. Matthew ♂♃♄♅♆♇ Tides { <sup>8.4</sup> / <sub>9.5</sub>	
22	W.	Fall Begins ♂en. ♀ in Aph. { <sup>8.5</sup> / <sub>9.5</sub> at	
23	Th.	Treason of Arnold 1780 Conception Am. Indian Day Tides { <sup>8.8</sup> / <sub>9.6</sub>	
24	Fr.	John the Baptist Dan'l Boone went West 1773 ♂ on Eq. Tides { <sup>9.2</sup> / <sub>9.7</sub>	
25	Sa.	♁ on Eq. Tides { <sup>9.5</sup> / <sub>9.8</sub> night	
26	C	15th a. ♂. D.S.T. Ends. ♂♀♃♄ Tides { <sup>9.8</sup> / <sub>9.7</sub> make	
27	M.	Night now Equals Day Rosh Hashanah Jewish New Year ♂♀♃♄ Tides { <sup>9.9</sup> / <sub>9.6</sub> these	
28	Tu.	St. Michael ♂♀♃♄♅♆ Tides { <sup>9.4</sup> / <sub>9.9</sub> days	
29	W.	1st Cinerama N.Y.C. 1952 ♂ in Apo. ♂♀♃♄ Tides { <sup>9.1</sup> / <sub>9.8</sub> bright.	
30	Th.		

1954]

## OCTOBER, TENTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			
	0	/		0	/		0	/		0	/		
1	3s.	10	7	5	29	13	7	46	19	9	58	25	12 05
2	3	34	8	5	52	14	8	08	20	10	20	26	12 26
3	3	57	9	6	15	15	8	30	21	10	41	27	12 46
4	4	20	10	6	38	16	8	52	22	11	03	28	13 07
5	4	43	11	7	01	17	9	14	23	11	24	29	13 27
6	5	06	12	7	23	18	9	36	24	11	45	30	13 47

☾ First Quarter, 5th day, 12 h. 31 m., morning, W.

☉ Full Moon, 12th day, 12 h. 10 m., morning, W.

☾ Last Quarter, 18th day, 3 h. 30 m., evening, W.

● New Moon, 26th day, 12 h. 47 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☉ Rises.		Key	☉ Sets.		Key	Length of Days.		Sun East.	Full Sea, Boston.		☾ Sets.	Key	☾ Souths.		☾'s Place	Moon's Age
			h.	m.		h.	m.		h.	m.		h.	m.			h.	m.		
274	1	Fr.	5	40	J	5	27	H	11	47	26	1 $\frac{1}{2}$	1 $\frac{1}{2}$	7 <sup>P</sup> <sub>M</sub> 29	C	2 <sup>P</sup> <sub>M</sub> 55	SGR	5	
275	2	Sa.	5	41	J	5	25	H	11	44	26	2	2 $\frac{1}{4}$	8 14	C	3 44	SGR	6	
276	3	<b>S</b>	5	42	J	5	24	H	11	41	27	3	3	9 06	C	4 35	SGR	7	
277	4	M.	5	44	J	5	22	H	11	38	27	3 $\frac{3}{4}$	4	10 04	C	5 26	CAP	8	
278	5	Tu.	5	45	J	5	20	H	11	36	27	4 $\frac{3}{4}$	5	11 <sup>P</sup> <sub>M</sub> 07	D	6 17	CAP	9	
279	6	W.	5	46	J	5	18	H	11	33	28	5 $\frac{1}{2}$	6	—	—	7 07	AQR	10	
280	7	Th.	5	47	J	5	17	H	11	30	28	6 $\frac{1}{2}$	6 $\frac{3}{4}$	12 <sup>M</sup> 15	E	7 56	AQR	11	
281	8	Fr.	5	48	J	5	15	H	11	27	28	7 $\frac{1}{2}$	7 $\frac{3}{4}$	1 25	F	8 46	PSC	12	
282	9	Sa.	5	49	J	5	13	G	11	24	28	8 $\frac{1}{4}$	8 $\frac{3}{4}$	2 37	H	9 36	PSC	13	
283	10	<b>S</b>	5	50	K	5	12	G	11	22	29	9	9 $\frac{1}{2}$	3 51	I	10 27	ARI	14	
284	11	M.	5	51	K	5	10	G	11	19	29	9 $\frac{3}{4}$	10 $\frac{1}{4}$	5 <sup>M</sup> 07	K	11 <sup>P</sup> <sub>M</sub> 21	ARI	15	
285	12	Tu.	5	53	K	5	08	G	11	16	29	10 $\frac{3}{4}$	11 $\frac{1}{4}$	rises	—	—	—	—	
286	13	W.	5	54	K	5	07	G	11	13	29	11 $\frac{1}{2}$	—	5 <sup>P</sup> 13	D	12 <sup>M</sup> 19	TAU	16	
287	14	Th.	5	55	K	5	05	G	11	10	30	0	0 $\frac{1}{4}$	6 30	C	1 19	TAU	17	
288	15	Fr.	5	56	K	5	04	G	11	08	30	0 $\frac{3}{4}$	1	7 26	C	2 21	G'M	18	
289	16	Sa.	5	57	K	5	02	G	11	05	30	1 $\frac{3}{4}$	2	8 30	C	3 24	G'M	19	
290	17	<b>S</b>	5	58	K	5	00	G	11	02	30	2 $\frac{3}{4}$	3	9 37	D	4 24	CNC	20	
291	18	M.	6	00	K	4	59	G	10	59	30	3 $\frac{3}{4}$	4	10 47	E	5 21	CNC	21	
292	19	Tu.	6	01	K	4	57	G	10	57	31	4 $\frac{3}{4}$	5	11 <sup>P</sup> <sub>M</sub> 55	F	6 14	LEO	22	
293	20	W.	6	02	K	4	56	G	10	54	31	5 $\frac{3}{4}$	6 $\frac{1}{4}$	—	—	7 02	LEO	23	
294	21	Th.	6	03	K	4	54	G	10	51	31	7	7 $\frac{1}{4}$	1 <sup>M</sup> 01	G	7 47	LEO	24	
295	22	Fr.	6	04	L	4	53	F	10	48	31	7 $\frac{3}{4}$	8 $\frac{1}{4}$	2 04	H	8 30	VIR	26	
296	23	Sa.	6	05	L	4	51	F	10	46	31	8 $\frac{3}{4}$	9	3 06	I	9 12	VIR	27	
297	24	<b>S</b>	6	07	L	4	50	F	10	43	31	9 $\frac{1}{4}$	9 $\frac{3}{4}$	4 08	J	9 53	LIB	28	
298	25	M.	6	08	L	4	48	F	10	40	32	10	10 $\frac{1}{2}$	5 <sup>M</sup> 08	L	10 36	LIB	29	
299	26	Tu.	6	09	L	4	47	F	10	38	32	10 $\frac{1}{2}$	11	sets	—	11 <sup>A</sup> <sub>M</sub> 19	SCO	30	
300	27	W.	6	10	L	4	45	F	10	35	32	11 $\frac{1}{4}$	11 $\frac{3}{4}$	4 <sup>P</sup> <sub>M</sub> 52	D	12 <sup>P</sup> <sub>M</sub> 04	SCO	31	
301	28	Th.	6	12	L	4	44	F	10	33	32	11 $\frac{3}{4}$	—	5 29	C	12 51	SCO	2	
302	29	Fr.	6	13	L	4	43	F	10	30	32	0 $\frac{1}{4}$	0 $\frac{1}{2}$	6 12	C	1 40	SGR	3	
303	30	Sa.	6	14	L	4	41	F	10	27	32	1	1	7 01	C	2 30	SGR	4	
304	31	<b>S</b>	6	15	L	4	40	F	10	25	32	1 $\frac{3}{4}$	1 $\frac{3}{4}$	7 <sup>P</sup> <sub>M</sub> 56	C	3 <sup>P</sup> <sub>M</sub> 20	CAP	5	





The image prospers on the innocent eye,  
That takes the image for its innocent pleasure,  
A keepsake from the moment hurrying by.

This, for the innocent eye had been enough. —  
The longer look, behind the child's delight,  
Strips down what eye was so enamored of,

And sees, then, with a stricter sense than sight,  
The essential shape of joy, the shape of love.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Fr.	Scallop Season opens	Tides {8.8 / 9.6} <i>Best</i>
2	Sa.	Derby Hats invented 1840	Tides {8.4 / 9.8} <i>fort-</i>
3	C	17 <sup>th</sup> a. ♀. Crises low	Tides {8.1 / 9.1} <i>night</i>
4	M.	St. Francis Assissi ♂ in Gr. Hel.	Hol. {7.8 / 8.9}
5	Tu.	♂♂ ♀ Gr. El. E. Moon	Underground {7.7 / 8.8} <i>of</i>
6	W.	First Horse Car! Roxbury, Mass. 1840	Tides {7.9 / 8.9} <i>the</i>
7	Th.	Yom Kippur ♂♂	Tides {8.2 / 9.2} <i>year</i>
8	Fr.	Hurricane 1882	Tides {8.8 / 9.6} <i>with every</i>
9	Sa.	St. Denis Chicago Abraham Fire 1871	♂♂ ♀ {9.5 / 10.1} <i>day</i>
10	C	18 <sup>th</sup> a. ♀. Crises on Eq. Okla.	Hol. {10.2 / 10.5} <i>clear.</i>
11	M.	Trees Dress in Full Color	♀ Greatest Brilliancy Neb. {10.9 / 10.7}
12	Tu.	Col. Suc- Hunter's Moon	in {11.4 / 10.8}
13	W.	Day coth (Underground) Cranberries Harvested	♂♂ ♀ Gr. Hel. [12 <sup>th</sup> ♀ Gr. Hel.] {11.7 / 11.7}
14	Th.	Eisenhower Born 1890	Tides {10.7 / 11.7} <i>Glass</i>
15	Fr.	Ten fine days completely vanished	Tides {10.4 / 11.5} <i>high,</i>
16	Sa.	Ether first dem. 1846	♂ runs high. {9.9 / 11.0} <i>let your</i>
17	C	13 <sup>th</sup> a. ♂. Prediction 1733	♂♂ ♀ {9.8 / 10.4} <i>kites</i>
18	M.	St. Luke E. in R.A.	♂♂ ♀♂ {8.8 / 9.8} <i>fly.</i>
19	Tu.	World War III Ended 1951	♂♂ ♀ Tides {8.5 / 9.4} <i>No</i>
20	W.	Simchath Torah Violent Storm 1770	Tides {8.5 / 9.1} <i>kick</i>
21	Th.	First N. E. Dark Day 1716	♂♂ ♀ {8.6 / 9.0} <i>at all,</i>
22	Fr.	Sea Claimed Pilgrims' Bones 1786	♂ on Eq. {8.9 / 9.0}
23	Sa.	Maine Forest Fires 1949	Tides {9.2 / 9.0} <i>is not even</i>
24	C	19 <sup>th</sup> a. ♂. United Nations	Day {9.5 / 9.1}
25	M.	Battle 1315 of Morgarten	♀ in R.A. Stat. Tides {9.7 / 9.0} <i>Fall.</i>
26	Tu.	McClure Disc. N.W. Passage 1850	♂♂ ♀ Tides {9.9 / 9.0}
27	W.	♂♂ ♀ ♂♂ ♀ in Apo.	Tides {10.8 / 8.8} <i>Say</i>
28	Th.	Simon & Jude	♂♂ ♀♀ {9.9 / 9.9} <i>"Hello</i>
29	Fr.	"A Night Never to be Forgotten," 1727	♂♂ ♀ Inf. {8.7 / 9.8}
30	Sa.	[31 <sup>st</sup> Mission] Sunday	♂♂ ♀ rides low. {8.5 / 8.5} <i>snow."</i>
31	C	21 <sup>st</sup> a. ♀. In ♂	Hallow- e'en Tides {8.8 / 9.5}

The farmer versus the hunter is an unfortunate situation which the hunter is not tending to improve. It seems to us that the hunter assumes the right to shoot anywhere unless he is persuaded not to by "legal" posting of lands or by such moral persuasion as he cares to consider. Granted that a man who buys a hunting license has a right to hunt, if it has to be on some other fellow's land (and it probably will be) it should be with the permission of the owner whether that land be posted or not. A man's land belongs to him and anyone entering without permission should be considered trespassing. The fact that the game on the land "belongs" to the state and the federal government cannot offset that primary fact. Why should the farmer or any other landowner be forced to the very considerable expense of "legally" posting (signs every few feet around all posted areas)?

We believe that no farmer really wants his land hunted on by outsiders. Why should he? It's a plain nuisance. But the state and federal governments who are the sellers of hunting licenses, the game wardens, the Sportsmen's clubs, and almost every hunter are lined up against him.

Let the hunter have his hunting rights (and we certainly want ours) but let him have them with all courtesy and consideration for the landowner, for hunter's rights are secondary to his.

1954]

NOVEMBER, ELEVENTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	14s.	25	7	16	16	13	17	58	19	19	27	25	20	45	
2	14	45	8	16	34	14	18	13	20	19	41	26	20	56		
3	15	03	9	16	51	15	18	29	21	19	55	27	21	08		
4	15	22	10	17	08	16	18	44	22	20	08	28	21	18		
5	15	40	11	17	25	17	18	59	23	20	20	29	21	29		
6	15	59	12	17	41	18	19	13	24	20	33	30	21	39		

- ☽ First Quarter, 3rd day, 3 h. 55 m., evening, E.  
 ☾ Full Moon, 10th day, 9 h. 29 m., morning, W.  
 ☾ Last Quarter, 17th day, 4 h. 32 m., morning, E.  
 ● New Moon, 25th day, 7 h. 30 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☀		Key	☾		Key	Length of Days.		Sun. East.	Full Sea. Boston.		☽	Key	☽		Key	☽'s Place	Moon's Age
			Rises.	Sets.		h.	m.		h.	m.		Morn.	Even.			h.	m.			
305	1	M.	6 16	L 4 39	F	10 22	32	2 1/4	2 1/2	2 1/4	2 1/2	8 <sup>P</sup> <sub>M</sub> 57	D	4 <sup>P</sup> <sub>M</sub> 10	CAP	6				
306	2	Tu.	6 18	L 4 37	F	10 20	32	3 1/4	3 1/2	3 1/4	3 1/2	10 01	E	4 59	CAP	7				
307	3	W.	6 19	L 4 36	E	10 17	32	4	4 1/4	4 1/4	4 1/4	11 <sup>P</sup> <sub>M</sub> 08	F	5 47	AQR	8				
308	4	Th.	6 20	M 4 35	E	10 15	32	5	5 1/4	5 1/4	5 1/4	—	—	6 35	AQR	9				
309	5	Fr.	6 21	M 4 34	E	10 12	32	6	6 1/4	6 1/4	6 1/4	12 <sup>A</sup> <sub>M</sub> 16	G	7 23	PSC	10				
310	6	Sa.	6 23	M 4 33	E	10 10	32	6 3/4	7 1/4	7 1/4	7 1/4	1 26	H	8 12	PSC	11				
311	7	S_	6 24	M 4 31	E	10 07	32	7 3/4	8 1/4	8 1/4	8 1/4	2 39	J	9 04	ARI	12				
312	8	M.	6 25	M 4 30	E	10 05	32	8 1/2	9	9	9	3 55	K	9 59	ARI	13				
313	9	Tu.	6 26	M 4 29	E	10 03	32	9 1/2	10	10	10	5 <sup>A</sup> <sub>M</sub> 14	M	10 <sup>P</sup> <sub>M</sub> 58	TAU	14				
314	10	W.	6 28	M 4 28	E	10 00	32	10 1/4	10 3/4	10 3/4	10 3/4	rises	—	—	—	—				
315	11	Th.	6 29	M 4 27	E	9 58	32	11	11 3/4	11 3/4	11 3/4	5 <sup>P</sup> <sub>M</sub> 09	C	12 <sup>A</sup> <sub>M</sub> 00	TAU	15				
316	12	Fr.	6 30	M 4 26	E	9 56	32	—	0	0	0	6 12	C	1 05	G'M	17				
317	13	Sa.	6 31	M 4 25	E	9 54	31	0 1/2	0 3/4	0 3/4	0 3/4	7 31	C	2 09	G'M	18				
318	14	S_	6 33	M 4 24	E	9 51	31	1 1/2	1 4/4	1 4/4	1 4/4	8 33	D	3 09	CNC	19				
319	15	M.	6 34	M 4 23	E	9 49	31	2 1/4	2 3/4	2 3/4	2 3/4	9 44	E	4 06	CNC	20				
320	16	Tu.	6 35	M 4 22	E	9 47	31	3 1/4	3 3/4	3 3/4	3 3/4	10 52	G	4 57	LEO	21				
321	17	W.	6 36	M 4 22	D	9 45	31	4 1/4	4 3/4	4 3/4	4 3/4	11 <sup>P</sup> <sub>M</sub> 57	H	5 44	LEO	22				
322	18	Th.	6 38	N 4 21	D	9 43	31	5 1/4	5 3/4	5 3/4	5 3/4	—	—	6 29	VIR	23				
323	19	Fr.	6 39	N 4 20	D	9 41	30	6 1/4	6 3/4	6 3/4	6 3/4	1 <sup>A</sup> <sub>M</sub> 00	I	7 11	VIR	24				
324	20	Sa.	6 40	N 4 19	D	9 39	30	7 1/4	7 3/4	7 3/4	7 3/4	2 01	J	7 52	LIB	25				
325	21	S_	6 41	N 4 19	D	9 37	30	8	8 1/2	8 1/2	8 1/2	3 02	K	8 34	LIB	26				
326	22	M.	6 43	N 4 18	D	9 35	30	8 3/4	9 1/4	9 1/4	9 1/4	4 02	L	9 17	LIB	27				
327	23	Tu.	6 44	N 4 17	D	9 33	29	9 1/2	10	10	10	5 03	M	10 02	SCO	28				
328	24	W.	6 45	N 4 17	D	9 32	29	10 1/4	10 3/4	10 3/4	10 3/4	6 <sup>A</sup> <sub>M</sub> 03	N	10 48	SCO	29				
329	25	Th.	6 46	N 4 16	D	9 30	29	10 3/4	11 1/4	11 1/4	11 1/4	sets	—	11 <sup>A</sup> <sub>M</sub> 37	SGR	0				
330	26	Fr.	6 47	N 4 16	D	9 28	28	11 1/4	—	—	—	4 <sup>P</sup> <sub>M</sub> 59	C	12 26	SGR	1				
331	27	Sa.	6 48	N 4 15	D	9 27	28	0	0	0	0	5 51	C	1 <sup>P</sup> <sub>M</sub> 17	SGR	2				
332	28	S_	6 49	N 4 15	D	9 25	28	0 1/2	0 3/4	0 3/4	0 3/4	6 51	D	2 07	CAP	3				
333	29	M.	6 51	N 4 14	D	9 24	27	1 1/4	1 1/4	1 1/4	1 1/4	7 53	E	2 56	CAP	4				
334	30	Tu.	6 52	N 4 14	D	9 22	27	2	2	2	2	8 <sup>P</sup> <sub>M</sub> 58	F	3 <sup>P</sup> <sub>M</sub> 44	AQR	5				



Now, having been too much at ease,  
Too much enamored of delight,  
Fare forth to earn a stricter grace:

There break you down to hands and knees  
On a stern hill of drouth and blight  
That rises in a stony place,

Toward light that shines for him, alone,  
Whose signature is blood on stone.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	M.	All Saints' Day Hol. La. Tides {8.1 9.2	<i>Cold</i>
2	Tu.	All Souls General Elections Tides {8.0 9.1	<i>rain</i>
3	W.	Stat. in R.A. ♂♂ ☾ Tides {8.1 9.0	<i>and</i>
4	Th.	♂h☉ ♀ in Peri. Hol. Okla. {8.3 9.0	<i>snow.</i>
5	Fr.	Gunpowder Plot Tides {8.7 9.2	<i>Summer</i>
6	Sa.	1952 Drought Relieved ☾ on Eq. Tides {9.3 9.5	
7	C	21sta. ☽ Stat. in R.A. Hol. Del. {10.0 9.8	<i>a</i>
8	M.	"Great Dreadful Comet 1664 Tides {11.7 10.1	<i>while,</i>
9	Tu.	The C. I. O. Boston Org. 1938 Fire 1872 Tides {11.3 10.4	<i>Indian</i>
10	W.	Beaver (in Moon Peri) Tides {11.7 10.4	<i>style.</i>
11	Th.	Armistice St. Day Martin Highest Tide of Year {11.9 10.3	
12	Fr.	S. S. Vestris Disaster 1928 ☾ runs high {11.8 —	<i>Sleet fore-</i>
13	Sa.	Indian Summer begins Tides {10.8 11.5	<i>cast,</i>
14	C	22nda. ☽. ☽ Gr. El. W. ☽♀☾ Int. {9.7 11.0	
15	M.	[14th ♂♂☾ ♂♀☾ Gr. Hel. Lat. N.] {9.8 10.3	
16	Tu.	[18th Byron's Dog Died] {9.8 10.3	<i>forget the</i>
17	W.	Stat. in R.A. Tides {8.8 9.1	<i>past.</i>
18	Th.	"N. E.'s Most Terrible Night" 1755 Tides {8.7 8.7	<i>Clouds</i>
19	Fr.	Boss Tweed Convicted 1873 ☾ on Eq. Tides {8.7 8.5	<i>are</i>
20	Sa.	Salem, Mass.-1786 Harbor Frozen Tides {8.9 8.4	<i>low,</i>
21	C	24tha. ☽. Mayflower Compact Tides {9.1 8.3	
22	M.	Prune Grapevines ♂ψ☾ Tides {9.8 8.4	<i>they</i>
23	Tu.	☾ in Apo ♂♀h ♂h☾ ♂♀☾ {9.5 8.4	
24	W.	Storm of 1950 Catastrophic ♂♀☾ Tides {9.7 8.4	<i>mean</i>
25	Th.	Thank. St. Catherine ♂♀♀ {9.8 8.4	<i>snow.</i>
26	Fr.	Total Storms 1703, 1898 ☾ low Tides {8.8 —	<i>Bad</i>
27	Sa.	Biel's Comet Struck Earth 1872 Tides {8.4 9.8	<i>storm</i>
28	C	1st S. Advent ♂♀h {8.4 9.8	<i>from</i>
29	M.	The Portland Lost 1898 Tides {8.4 9.7	<i>the</i>
30	Tu.	St. Andrew Gale of 1944 Tides {8.4 9.5	<i>East.</i>

There are many ways to make money on a farm—and more ways to lose it. But a good Yankee farm is sure to make money.

I went over one like that the other day—in Vermont not far from the Canadian border it was—and it was about everything a sound, conservative New England farm should be. They've never lost money up there after four of five generations of farming on 400 acres of rich hilltop land.

Leonard has a herd of about twenty milking Guernseys and Jerseys, most of them registered, but all of them dropping milk like manna from heaven. He's got a few hundred chickens (a few thousand during the war), a couple of brood sows, a team of work horses as well as a tractor with all equipment. His acres are deep, rich-loamed ones that he has been expanding with a bulldozer. His pastures are rock, hardhack and thistle free, and this goes for his mowings. The yield on the latter are so heavy that he needs only one acre to make hay for each cow.

The barns are the old barns—but sound of sills and timbers and roof. He has all modern milking equipment with individual watering for each cow, and his silo stands as firmly as if it were built yesterday.

Len, except for his present hired bulldozer and hay-ers, works the farm alone. He's got one good arm. Most of the use of the other he lost from infantile paralysis.

Indian Summer is early this year.

1954]

## DECEMBER, TWELFTH MONTH.

## ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.					
	0	'	"	0	'	"	0	'	"	0	'	"			
1	21s.	48		7	22	37	13	23	09	19	23	25	25	23	24
2	21	57		8	22	43	14	23	13	20	23	26	26	23	22
3	22	06		9	22	49	15	23	16	21	23	27	27	23	20
4	22	14		10	22	55	16	23	19	22	23	27	28	23	17
5	22	22		11	23	00	17	23	22	23	23	26	29	23	14
6	22	30		12	23	05	18	23	24	24	23	25	30	23	10

☽ First Quarter, 3rd day, 4 h. 56 m., morning, W.

☾ Full Moon, 9th day, 7 h. 56 m., evening, E.

☾ Last Quarter, 16th day, 9 h. 21 m., evening, E.

● New Moon, 25th day, 2 h. 33 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☉		Key	☽		Key	Length of Days	Sun Fast	Full Sea, Boston.		☽	Key	☽		☽'s Place	Moon's Age		
			Rises.	h. m.		Sets.	h. m.				h.	m.			h.	m.			h.	m.
335	1	W.	6	53	N	4	13	D	9	21	27	2 $\frac{3}{4}$	3	10 $\frac{P}{M}$ 04	G	4 $\frac{P}{M}$ 31	AQR	6		
336	2	Th.	6	54	N	4	13	D	9	20	26	3 $\frac{1}{2}$	3 $\frac{3}{4}$	11 $\frac{P}{M}$ 12	H	5	17	PSC	7	
337	3	Fr.	6	55	N	4	13	D	9	18	26	4 $\frac{1}{2}$	4 $\frac{3}{4}$	—	—	6	04	PSC	8	
338	4	Sa.	6	56	N	4	13	D	9	17	26	5 $\frac{1}{4}$	5 $\frac{3}{4}$	12 $\frac{A}{M}$ 21	I	6	52	ARI	9	
339	5	S.	6	57	N	4	13	D	9	16	25	6 $\frac{1}{4}$	6 $\frac{3}{4}$	1	32	K	7	43	ARI	11
340	6	M.	6	58	N	4	12	D	9	15	25	7 $\frac{1}{4}$	7 $\frac{3}{4}$	2	47	L	8	38	TAU	12
341	7	Tu.	6	59	N	4	12	C	9	13	24	8	8 $\frac{3}{4}$	4	04	M	9	37	TAU	13
342	8	W.	7	00	O	4	12	C	9	12	24	9	9 $\frac{3}{4}$	5 $\frac{A}{M}$ 23	N	10	41	G'M	14	
343	9	Th.	7	01	O	4	12	C	9	11	23	10	10 $\frac{1}{2}$	rises	—	11 $\frac{P}{M}$ 46	G'M	15		
344	10	Fr.	7	02	O	4	12	C	9	11	23	10 $\frac{3}{4}$	11 $\frac{1}{2}$	4 $\frac{P}{M}$ 55	C	—	—	—	—	
345	11	Sa.	7	03	O	4	12	C	9	10	23	11 $\frac{3}{4}$	—	6	09	D	12 $\frac{A}{M}$ 50	CNC	16	
346	12	S.	7	03	O	4	12	C	9	09	22	0 $\frac{1}{4}$	0 $\frac{1}{2}$	7	23	E	1	50	CNC	17
347	13	M.	7	04	O	4	13	C	9	08	22	1 $\frac{1}{4}$	1 $\frac{1}{2}$	8	35	F	2	45	LEO	18
348	14	Tu.	7	05	O	4	13	C	9	08	21	2	2 $\frac{1}{4}$	9	43	G	3	36	LEO	19
349	15	W.	7	06	O	4	13	C	9	07	21	3	3 $\frac{1}{4}$	10	49	I	4	23	VIR	20
350	16	Th.	7	06	O	4	13	C	9	07	20	3 $\frac{3}{4}$	4 $\frac{1}{4}$	11 $\frac{P}{M}$ 51	J	5	07	VIR	21	
351	17	Fr.	7	07	O	4	14	C	9	07	20	4 $\frac{3}{4}$	5	—	—	5	50	VIR	22	
352	18	Sa.	7	08	O	4	14	C	9	06	19	5 $\frac{3}{4}$	6	12 $\frac{A}{M}$ 53	K	6	32	LIB	23	
353	19	S.	7	08	O	4	14	C	9	06	19	6 $\frac{1}{2}$	7	1	54	L	7	14	LIB	24
354	20	M.	7	09	O	4	15	C	9	06	18	7 $\frac{1}{2}$	8	2	55	M	7	58	SCO	25
355	21	Tu.	7	09	O	4	15	C	9	06	18	8 $\frac{1}{4}$	8 $\frac{3}{4}$	3	55	N	8	44	SCO	26
356	22	W.	7	10	O	4	16	C	9	06	17	9	9 $\frac{1}{2}$	4	54	O	9	32	SGR	27
357	23	Th.	7	10	O	4	16	C	9	06	17	9 $\frac{3}{4}$	10 $\frac{1}{4}$	5	50	O	10	22	SGR	28
358	24	Fr.	7	11	O	4	17	C	9	06	16	10 $\frac{1}{4}$	11	6 $\frac{A}{M}$ 41	O	11 $\frac{A}{M}$ 12	SGR	29		
359	25	Sa.	7	11	O	4	17	C	9	06	16	11	11 $\frac{1}{2}$	sets	—	12	03	CAP	0	
360	26	S.	7	12	O	4	18	C	9	06	15	11 $\frac{3}{4}$	—	5 $\frac{P}{M}$ 46	D	12 $\frac{P}{M}$ 53	CAP	1		
361	27	M.	7	12	O	4	19	C	9	07	15	0 $\frac{1}{4}$	0 $\frac{1}{4}$	6	51	E	1	42	AQR	2
362	28	Tu.	7	12	O	4	19	C	9	07	14	0 $\frac{3}{4}$	1	7	57	F	2	29	AQR	3
363	29	W.	7	12	O	4	20	C	9	08	14	1 $\frac{1}{2}$	1 $\frac{3}{4}$	9	04	H	3	15	PSC	5
364	30	Th.	7	13	O	4	21	C	9	08	13	2 $\frac{1}{4}$	2 $\frac{1}{2}$	10	11	I	4	01	PSC	6
365	31	Fr.	7	13	O	4	22	C	9	09	13	3	3 $\frac{1}{4}$	11 $\frac{P}{M}$ 18	J	4 $\frac{P}{M}$ 48	PSC	7		

DECEMBER hath 31 days.

[1954



Sire, it is well with me, is well, indeed,  
 Here where Thy mantle of the shining air  
 Stirs with Thy presence, where the flower and weed  
 Brush at the boot, reminding Who is there:  
 Most near, most high, around me everywhere.  
 Thy mercies, Thy strong love, for my great need.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.	
1	W.	Paula Weldon Disappeared 1946	Tides { 8.5 9.4	Wind
2	Th.	Atomic Age (with a Began 1942 R. I. Gale)	♂♂♂ { 8.6 9.2	
3	Fr.	Erie Canal Frozen 1859	♂ on Tides { 8.9 ♀ on Eq. { 9.2	rain
4	Sa.	"Oh Fleet that" Silent Tarries" 1768	♀ Stat. in R. A. { 9.3 { 9.2	snow
5	C	2d S. A. Pulsifer's Hay- stack Ride 1786	{ 9.7 { 9.3	and
6	M.	♂ on Eq.	Tides { 10.3 9.4	how
7	Tu.	Pearl Harbor	Tides { 10.9 9.6	it
8	W.	Immaculate Conception Virgin	Tides { 11.3 9.8	doth
9	Th.	♀ in ♂♂ ♂ in ♀♀ ♂ in Perl ♂ runs high	{ 11.6 9.9	blow.
10	Fr.	Conan Doyle's Dolphin 1950	Tides { 11.8 10.0	Winter
11	Sa.	4 Day London Fog, 1952	Tides { 11.7 ---	hurries
12	C	3d S. A. ♂ ♂ ♂ ♂ ♀♀	{ 9.9 { 11.4	with
13	M.	St. Lucy	Tides { 9.7 10.9	
14	Tu.	Ember Days 14, 16, 17th.	Tides { 9.5 10.3	snow
15	W.	"Corpses Lay on Shining Sand," 1839	♂ ♀ ♀ Tides { 9.2 9.6	
16	Th.	Cold Storms 1835, 1847	♂ on Eq. Tides { 9.0 9.0	flurries.
17	Fr.	Lazarus Died (2nd time) 63 A.D.	Tides { 8.8 8.4	A cold
18	Sa.	Shortest Days & Longest Nights	Tides { 8.8 8.0	sun
19	C	4th S. A. ♀ in Aph.	♂♀♂ { 8.8 7.8	
20	M.	First Day Chanukah	Tides { 8.9 7.7	just isn't
21	Tu.	St. Thomas ♀ Gr. bril.	♂♂ ♂ ♀♀ ♂♂ in Apo { 9.0 7.7	
22	W.	Winter 4.25 A.M.	♂ en. ♀ Tides { 9.2 7.8	
23	Th.	Connie Mack born 1862	♂ rides low. Tides { 9.4 8.0	any
24	Fr.	[25th Annular Eclipse]	Tides { 9.6 8.2	fun.
25	Sa.	Ch. D. ♂ ♀ ♂ Snp.	♂ ♀♂ { 9.8 8.3	
26	C	1sta. Ch. St. Stephen	{ 9.9	Fields
27	M.	St. John Judas born	Tides { 8.5 8.9	are
28	Tu.	Marry today Bad Luck always	Tides { 8.7 9.9	white,
29	W.	Storms 1839, 1946	Tides { 8.9 9.9	quite
30	Th.	50 below 1933	Tides { 9.1 9.7	a
31	Fr.	E. Boston Ferry Disc. 1952	♂♂♂ { 9.3 9.5	sight.

The long December evenings when we are snug at our hearth make me hours for quiet reminiscences and random talk. We remember the year's small and pleasant things we thought we had forgotten.

I discuss as always of a December evening the virtues of keeping a regular diary—not just jottings on farm matters such as my record of sprayings, cost of materials, etc.—but a living account of our comings and goings, grandson's first tooth, and other such. I point out that a regular diary could make clear our whereabouts on the evening of August seventh or any old time in case we get haled into court (heaven forbid). And then the grandson's first tooth and the day and hour of the coming of the first robin will be pleasant things to look back to. I shall keep a regular diary next year. My wife goes on knitting.

Then I look as I often do through the stack of ancient *Old Farmer's Almanacs* piled on the bottom shelf and turn to the month of December, year 1818. It begins "Dread winter comes at last and shuts the scene!" I presume you have plenty of dry fuel for the convenience of your family. God help thee, traveler, on thy journey far; the wind is bitter keen." And ends: "I hope you have hired a good schoolmaster, for a poor one is a nuisance to the neighborhood."

Our sentiments exactly—and a Merry Christmas to you.



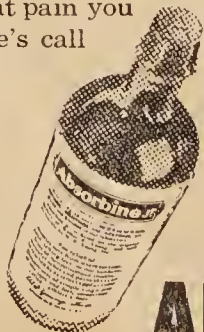
## Relieve the **PRESSURE PAIN** of **Sore, Aching Muscles!**

● When muscles get stiff and lame from overexertion, don't let them "lay you up." For there's a wonderful way to relieve that ache and soreness quickly, easily!

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for help. For wonderful relief—*fast*—rub Absorbine Jr. on those aching spots. It helps to *counteract* the pressure which may be causing your pain. At the same time, it warms and soothes. The speed with which Absorbine Jr. works will amaze you.

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

# ABSORBINE JR.

# THE TWELVE SIGNS OF THE ZODIAC

## THE "FAMOUS" MAN OF THE SIGNS

RAM. Aries, THE HEAD.  
(ARI) MAR. 20-APRIL 20

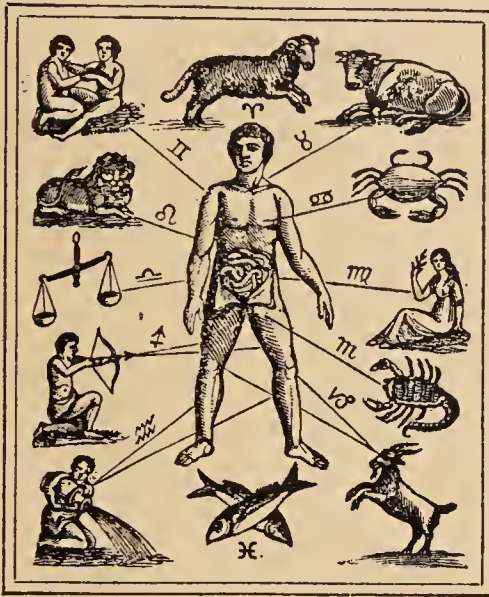
TWINS.  
**Gemini,**  
ARMS.  
(G'M)

LION,  
**Leo.**  
HEART.  
(LEO)

BALANCE,  
**Libra,**  
REINS.  
(LIB)  
SEPT. 22  
OCT. 22.

ARCHER,  
**Sagittarius,**  
THIGHS.  
(SGR)

WATERM'N  
**Aquarius,**  
LEGS.  
(AQR)



BULL,  
**Taurus,**  
NECK.  
(TAU)

CRAB,  
**Cancer,**  
BREAST.  
(CNC)  
JUNE 21  
JULY 21.

VIRGIN,  
**Virgo,**  
BOWELS.  
(VIR)

SCORPION,  
**Scorpio,**  
LOINS.  
(SCO)

GOAT,  
**Capricornus,**  
KNEES.  
(CAP)  
DEC. 21  
JAN. 21.

FISHES. Pisces, THE FEET.  
(PSC)

The Man of the Signs first began appearing in almanacs in the 15th century. He is regarded highly only by astrologers and the foolish. However, these two categories include millions of otherwise sensible people. We give him to you at their request that you may laugh at, rather than believe in, his antics. As the earth spins its way around the sun, we have noted the sun (since about 3000 B.C.) "passes through" 12 divisions of the sky, marked off roughly by 30 day periods, and distinguished respectively by 12 different constellations said to resemble for any mundane star gazer, by the formation or pattern of the stars, the animals whose names appear above. At certain times of the year, for example, we say, "It is Spring, the Sun enters Aries." (See bottom page 11.) By studying the next to last column of pages 12 to 34, you will note the moon's place in the zodiac for everyday in the year. Abbreviations (ARI for Aries, etc.) correspond with those in parentheses above.

## PLANTING BY THE ZODIAC

The moon's place in the Zodiac forms the basis of the superstitions, along with its phase, about planting — the favorable signs being Cancer, Libra, and Scorpio (Cnc., Lib., Sco.). The planting table on the next page does not take into account these Zodiac sign values but gives you only the times most favorable (superstition) for planting crops according to the moon's phase. That is, supposedly, crops or flowers which bear crops above ground do better when planted by the "light of the moon" — viz., in the new or first quarter. Those which have root crops like potatoes or iris prefer being planted during the full or last quarter.

## 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.  $41^{\circ}09'35''$ ) this would mean the latitude was about halfway between Boston-Phila. So your planting times would also be halfway between. N.B. Plant one week later for every 500 ft. elevation above sea level.

The "Moon Most Favorable" columns give the superstitious times when the phase of moon is "Right" for planting the crop indicated during 1954.

CROP	42°21'44" Boston Latitude		39°56'58" Phila. Latitude		33°45'10" Atlanta Latitude	
	Plant Anytime Between Dates Below	Moon Most Favorable Between	Plant Anytime Between Dates Below	Moon Most Favorable Between	Plant Anytime Between Dates Below	Moon Most Favorable Between
	Barley	May 15-Jun 21	May 10-17	Mar 15-Apr 7	Mar 4-11	Feb 15-Mar 7
Beans (Early) (Late)	May 7-Jun 21 Jun 15-Jul 15	May 2-9 Jun 9-16	Apr 15-30 Jun 1-21	Apr 11-18 Jun 1-8	Mar 15-Apr 7 Aug 7-30	Mar 12-19 Aug 7-14
Beets (Early) (Late)	May 1-15 Jul 15-Aug 15	May 1 Jul 16-22	Mar 15-Apr 30 Jul 15-30	Mar 19-27 Jul 16-22	Feb 7-29 Aug 7-30	Feb 17-25 Aug 15-20
Broccoli (E) (Late)	May 15-30 Jun 15-Jul 7	May 10-17 Jun 9-16	Mar 7-30 Aug 1-20	Mar 4-11 Aug 1-6	Feb 15-Mar 15 Sept 7-30	Feb 10-17 Sept 6-12
Brussels Spr.	May 15-30	May 10-17	Mar 7-Apr 15	Mar 4-11	Feb 11-Mar 20	Feb 10-17
Cabbage (E) (L)	May 15-30 Jun 7-Aug 7	May 10-17 Jun 9-16	Mar 7-Apr 15 Jun 1-Jul 7	Mar 4-11 Jun 1-8	Feb 7-Mar 20 Jul 15-30	Feb 3-10 Jul 8-15
Carrots (E) (Late)	May 15-30 Jun 15-Jul 21	May 18-25 Jun 17-22	Mar 7-31 Apr 7-May 30	Mar 19-27 Apr 19-25	Feb 15-Mar 7 Aug 1-Sept 7	Feb 17-25 Aug 15-20
Cauliflower (E) (Late)	May 15-30 June 15-Jul 21	May 10-17 Jun 9-16	Mar 15-Apr 7 Jun 1-Jul 7	Mar 12-19 Jun 1-8	Feb 15-Mar 7 Aug 7-30	Feb 10-17 Aug 7-14
Celery (Early) (Late)	May 15-Jun 30 Jul 15-Aug 15	May 18-25 Jul 16-22	May 7-30 Jun 15-Jul 7	May 1 Jun 17-22	Apr 15-30	Apr 2
Corn, Sweet (E) (Late)	May 15-Jun 15 Jun 15-30	May 10-17 Jun 9-16	Mar 15-30 May 7-Jun 21	Mar 12-19 May 2-9	Feb 15-29 Aug 7-30	Feb 10-17 Aug 7-14
Cucumber	May 7-Jun 20	May 2-9	Apr 7-May 15	Apr 3-10	Mar 7-Apr 15	Mar 4-11
Egg Plant	Jun 1-30	Jun 1-8	Apr 7-May 15	Apr 3-10	Mar 7-Apr 15	Mar 4-11
Endive (Early) (Late)	May 15-30 Jun 7-30	May 10-17 Jun 1-8	Apr 7-May 15 Jul 15-Aug 15	Apr 3-10 Jul 29	Feb 15-Mar 20 Aug 15-Sept 7	Feb 10-17 Aug 28
Kale (Early) (Late)	May 15-30 Jul 1-Aug 7	May 10-17 Jul 1-7	Mar 15-Apr 7 Jul 15-31	Mar 10-17 Jul 15	Feb 15-Mar 7 Sept 7-30	Feb 10-17 Sept 6-12
Leek	May 15-30	May 18-25	Mar 7-Apr 7	Mar 19-27	Feb 15-Apr 15	Feb 17-25
Lettuce	May 15-Jun 30	May 10-17	Mar 1-31	Mar 4-11	Feb 15-Mar 7	Feb 10-17
Melon (Musk)	May 15-Jun 30	May 10-17	Apr 15-May 7	Apr 11-18	Mar 15-Apr 7	Mar 12-19
Onion	May 15-Jun 7	May 18-25	Mar 1-31	Mar 3	Feb 1-28	Feb 2
Parsley	May 15-30	May 10-17	Mar 1-31	Mar 4-11	Feb 20-Mar 15	Feb 17
Parsnip	Apr 1-30	Apr 2	Mar 7-31	Mar 3	Jan 15-Feb 7	Jan 18-26
Peas (Early) (Late)	Apr 15-May 7 Aug 15-30	Apr 11-18 Aug 14	Mar 7-31 Jul 7-31	Mar 4-11 Jul 8-15	Jan 15-Feb 7 Aug 15-30	Jan 11-18 Aug 14
Pepper	May 15-Jun 30	May 10-17	May 1-31	May 31	Apr 1-20	Apr 3-10
Pumpkin	May 15-30	May 10-17	Apr 23-May 15	May 2	Apr 7-20	Apr 3-10
Potatoes	May 15-30	May 18-25	Apr 7-May 30	Apr 19	Jan 1-Mar 7	Jan 5
Radish (Early) (Late)	Apr 15-30 Aug 15-30	Apr 19-25 Aug 15-20	Mar 7-31 Aug 7-31	Mar 19-27 Aug 15	Jan 21-Mar 1 Sept 1-21	Jan 18-26 Sept 13
Spinach (E) (Late)	May 15-30 Jul 15-Sept 7	May 10-17 Jul 29	Mar 15-Apr 20 Aug 1-Sept 15	Mar 12-19 Aug 1-6	Feb 7-Mar 15 Sept 1-21	Feb 10-17 Sept 1-7
Swiss Chard	May 1-30	May 2-9	Mar 15-Apr 15	Mar 12-19	Feb 7-Mar 15	Feb 10-17
Summer Squ	May 15-Jun 15	May 10-17	Apr 15-May 15	Apr 11-18	Mar 15-Apr 15	Mar 12-19
Tomato	May 15-30	May 10-17	Apr 7-30	Apr 3-10	Mar 7-20	Mar 4-11
Turnip (Early) (Late)	Apr 7-30 Jul 1-Aug 15	Apr 19 Jul 16	Mar 15-30 Aug 1-20	Mar 19 Aug 15	Jan 20-Feb 15 Sept 1-Oct 15	Jan 18-26 Sept 13
Wheat (Fall) (Spring)	Oct 7-30 Apr 7-30	Oct 6-12 Apr 11-18	Sept 15-Oct 20 Apr 1-20	Sept 26 Apr 3-10	Oct 15-Dec 7 Mar 15-31	Oct 12-18 Mar 19



**PLANTING DATES FOR FLOWERS . . . (Also see page 37)**

On the preceding page you will find approximate planting dates for vegetables and for crops, with a "moon column" adjoining each geographical division which tells you what some people consider the best moon planting time. In considering this "moon planting time" one should remember it is superstition only and has never been proven of value by scientific methods. The way these moon times are arrived at are: that crops or flowers which win their way by results above ground (like beans or pansies) do better when planted in the "light" of the moon—which is the same thing as saying during the new or first quarter of the moon. Those with root crops do better when planted during the full or last quarter of the moon. For flowers then use the opposite page taking the "Beans" head for everything except those largely dependent on bulbs—like lilies, tulips, iris, etc. for which the moon and other planting dates would correspond with those given for beets or potatoes.

**AVERAGE DATES FIRST AND LAST KILLING FROSTS**

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



Iroquois Melon is resistant to fusarium wilt

for the Northeast. In addition to its superior quality, it is resistant to fusarium wilt.

Other Harris specialties you will want to plant this year are Rhode Island Red Watermelon, North Star Corn, Green Thumb Pickles, Black Magic Egg Plants, Cover Girl and Gypsy Petunias, Multiflora Sweet Peas, Extra Choice Double Portulaca.

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Three generations of commercial and home gardeners have been producing outstanding crops from the *special stocks* of vegetable and flower seeds produced by three generations of the Harris family.

Pictured is Iroquois Muskmelon, the leading variety for the Northeast. In addition to its superior quality, it is resistant to fusarium wilt.


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DOWNSTAIRS?

DON'T WORRY, DEAR,  
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**DEVILED HAM** SANDWICH

**TIP:**

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RECIPES — KITCHEN HINTS —



# FOOD

by  
Nancy Dixon

Out of farm kitchens have come truly fine original recipes that have been handed with tested pride from mother to daughter . . . from neighbor to another and then in turn traveling from town to city, from city to state and when deemed worthy from country to country . . . making food a language.

### PORK CAKE

1 pound fat salt pork	2 teaspoons allspice
2 cups boiling water	2 teaspoons nutmeg
8 cups flour, sifted	2 cups chopped raisins
2 teaspoons soda	4 eggs
$\frac{1}{4}$ teaspoon salt	2 cups sugar
2 teaspoons cinnamon	2 cups molasses
2 teaspoons cloves	

Put pork through a food chopper using the finest knife; pour boiling water over the pork and let stand for fifteen minutes. Mix and sift flour, soda, salt and spices and mix with raisins. Combine eggs, sugar and molasses and add the pork mixture; gradually stir in flour-fruit mixture and mix thoroughly. Turn into 4 greased deep loaf pans lined with waxed paper and again greased. Bake in slow oven 300°F for 1 $\frac{1}{4}$  hours. Makes 4 loaves.

### NEVER-FORGET-PORK-CHOPS

1 dozen pork chops	2 cloves garlic
1 cup vinegar	2 teaspoons salt
1 cup water	3 T. pickling spices

Rub garlic cloves on bottom of a roasting pan and then rub salt into the garlic juice, add chops, vinegar, water and spices. Allow to stand for at least ten hours turning occasionally. Drain and bake in a slow oven for one and a half hours.

### GRIDDLE MUFFINS

1 package compressed yeast	3 tbs. shortening, melted or cooled
$\frac{1}{4}$ cup lukewarm water	$\frac{1}{4}$ tsp. salt
$\frac{1}{2}$ cup milk	1 tsp. sugar
$\frac{1}{2}$ cup water	$3\frac{1}{2}$ cups (approx.) all purpose flour

Soften the yeast in lukewarm water. Combine milk and the remaining water and scald. Add shortening, salt and sugar. Cook milk to lukewarm and add yeast and 2 cups flour. Stir to blend well, then knead in the remaining flour until firm and elastic. Let rise until double. Punch down and roll out  $\frac{1}{4}$  inch thick on board sprinkled with corn meal. Cover and let rise until double again. When light bake slowly on an ungreased heavy griddle or frying pan. Have griddle hot first, then reduce heat so that muffins will brown slowly. Bake 7 to 8 minutes on each side. (Yield 12 muffins)

### CENTURY GINGER SNAPS

BOIL 1 cup molasses and add to	1 tsp. ginger
shortening, size of egg	Pinch of salt
$\frac{3}{8}$ tsp. soda	

When cool add flour enough to roll very thin and bake in a 400°F oven.

**NEW ENGLAND EATING  
AT ITS BEST!**



**B&M**

**Down-East**

**QUALITY FOODS**

**MADE IN THE TRADITIONAL  
NEW ENGLAND WAY**



**BURNHAM & MORRILL CO., PORTLAND, MAINE**

**CARROT MARMALADE**

2½ cups cooked chopped carrots  
 4 cups sugar  
 Juice and rind of 1 lemon, chopped  
 Juice and rind of 1 orange, chopped

Cook carrots, lemon and orange until tender. Add sugar and cook until thick.

**SCALLOPS AND MUSHROOMS**

1 pint small bay scallops	3 T. butter
1 pound fresh mushrooms	1 T. flour
⅓ cup light cream	Salt
⅓ cup dry sherry	Pepper

Wash the mushrooms well and without peeling slice them lengthwise. Sauté them in butter in a heavy covered pot over a slow fire, seasoning with salt and pepper. When soft and almost ready to serve add the cream and the scallops. Turn up the flame and cook briskly for two minutes. Now add the flour, previously stirred to a smooth paste with a little water and sherry. Cook for a few minutes longer stirring gently and serve immediately over toast or in patty shells.

**SPANISH LAMB NECK SLICES**

6 neck slices lamb	6 rings green pepper
2 T. lard	¼ cup rice
6 slices onions	Salt and pepper
6 slices tomato	

Brown lamb neck slices on both sides in hot lard. Cook rice in boiling salted water until done. Drain. Place browned neck slices in an oiled casserole dish. On each slice place a slice of onion, one tomato and a green pepper ring. Fill this with cooked rice. Add ½ cup water, cover and cook in a moderate 350°F oven for about one hour.

**DOWN EAST SIZZLERS**

(Yankee Cookbook)

1 cup flour, sifted	2 T. butter
1 T. sugar	½ cup milk
1 teas. baking powder	1 egg, beaten
½ teas. salt	Canned blueberries, drained

Sift the flour, baking powder and salt. Cut in the butter until the mixture is consistency of coarse cornmeal. Combine the egg and milk and stir into dry ingredients. Roll thin on a floured board and cut about the size of a saucer. Place 1 tablespoon blueberries on each pastry and seal edges with water. Fry in deep hot fat (370°F) until golden brown. Serve hot. Makes 20 sizzlers.

**HOREHOUND CANDY**

1 ounce dried horehound herb	1 teas. cream of tartar
leaf, stem and flowers	1 teas. butter
2½ quarts boiling water	1 teas. lemon juice
3 cups granulated sugar	

Steep the herb in boiling water for two minutes. Strain and squeeze through cheesecloth. Allow tea to settle then decant. Add sugar and cream of tartar. Boil to 240°F, add butter and continue boiling without stirring until the temperature reaches 312°F. Remove from the fire and add lemon juice. Pour into a buttered pan. When cool block in squares, roll in confectioner's sugar and pack in airtight jars.

**CAPE COD CLAM PIE**

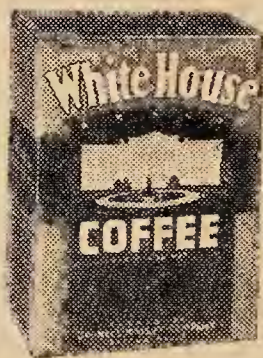
¼ pound salt pork cut in slices	½ cup water
1 T. butter	4 large sea clams
2 T. flour	Pepper
1 cup clam broth	Pastry crust

Try out the salt pork and add the butter; blend in the flour, add the clam broth and water and cook until the broth is thickened. Grind the meaty portion of the clams (discarding the tough portions) and add the broth. Season with pepper. Line a deep dish with a rich pastry crust. Pour in the clam mixture and cover top with a crust. Cut a hole in the center and surround hole with a twist of crust. Bake in a 450°F oven for fifteen minutes and then reduce heat to moderate and bake for 20 minutes longer.

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and priced to save you money.*

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**WHITE HOUSE COFFEE**

Box 1871

BOSTON, (5) MASS.

## GRAHAM CRACKER DATE CANDY

1½ dozen large graham crackers    ½ cup undiluted evaporated  
 ½ cup chopped dates                milk or cream  
 ½ cup chopped nutmeats            Pinch salt  
 15 marshmallows, cut

Roll the crackers fine or put them through a food mill. Measure ½ cup of them and press into a shallow buttered pan. Mix the remainder of crumbs with other ingredients and press on top of cracker crumbs. Mark in squares.

## PEANUT PIE

1 cup parched peanuts                1 teas. vanilla  
 2 eggs, beaten                        1 cup sugar  
 1 cup Karo syrup                    2 T. melted butter or margarine  
 ¼ teas. salt                         1 pie shell, unbaked

Mix the ingredients together adding the peanuts last. Pour into a 9 inch pan lined with an unbaked crust. Bake in a hot oven, 400° F, for forty minutes or until filling fails to adhere to silver knife inserted in the center of the pie. Tarts may also be made with this recipe.

## FOR THE HOUSEWIFE'S NOTE BOOK

## QUANTITIES WHEN BUYING

Chicken .....	3 to 4 pounds	.....serves	2 to 4 persons
Turkey .....	8 to 18 pounds	.....serves	6 to 10 persons
Duck .....	4 pounds	.....serves	2 to 4 persons
Fish .....	1 pound	.....serves	2 persons
Scallops .....	1 pound	.....serves	3 persons
Shrimps .....	1 pound	.....serves	3 persons
12 ounce can .....	1¾ cups	.....	2½ cups
#300 .....	1¾ cups	.....	4 cups
#1 tall .....	2 cups	.....	7½ cups
	#10 .....	.....	13 cups

## EQUIVALENTS

1 pound all purpose flour.....	4 cups sifted
1 pound cake flour.....	5 cups sifted
11 graham crackers.....	1 cup crumbs
¼ pound marshmallows.....	16 whole
1 pound pecans (shells).....	2¼ cups meat
1 pound almonds (shells).....	1¾ cups meat
1 pound walnuts (shells).....	1¾ cups chopped
½ pound sliced bacon.....	9 to 10 slices
1 pound frankfurters.....	9 frankfurters
1 medium lemon.....	3 T. juice
1 medium orange.....	¾ cup juice
1 pound peaches.....	4 medium
12 to 14 egg yolks.....	1 cup
½ pint whipping cream.....	2 cups whipped
1 pound butter.....	2 cups
1 pound American Cheese.....	4 cups grated
1 pound cottage cheese.....	2 cups
3 ounce package cream cheese.....	.6 T.
½ lb. package unsweetened chocolate.....	8.1 ounce squares
1 pound coffee.....	80 T.
1 pound granulated sugar.....	2 cups
1 pound brown sugar.....	2¼ cups, firmly packed
1 pound confectioner's sugar.....	3½ cups sifted
1 pound powdered sugar.....	2½ cups

## SHORT-ORDER-SHORTS

Meat is even tastier if it is cooked with the marrow so you might ask the butcher for the shinbones of the next cut of meat you buy. He can prepare the marrow for you in his grinder. It takes a quarter of a pound for six servings.

Want a quick and meaty sauce that tastes good with all kinds of vegetables? Make a regular medium-thick cream sauce recipe and stir in contents I can Underwood Deviled Ham. Serve with mealy baked potatoes as a suggestion.

A favorite in New England  
since 1887—

# LOG CABIN SYRUP!



It's 67 years since  
New Englanders first bought  
Log Cabin, and they still  
enjoy that wonderful  
maple flavor. The Log Cabin  
packed for New England is a  
*special blend* of sugar and  
*Vermont* maple sugar! It's  
rich in that "Sugarbush"  
flavor New Englanders  
naturally love!

*A Product of General Foods*

Folks buy far more **LOG CABIN**  
than any other maple-blended syrup!



# FIRST

IN THE LAND  
OF GOOD EATING



Old New England recipes and New England foods are famed throughout the world. That's why we are proud that more New Englanders shop at First National Stores than at any other food stores.

**FIRST NATIONAL**  
**STORES**

## ANECDOTES & PLEASANTRIES

### ALWAYS A QUESTION

The new Commissioner of Agriculture of Pennsylvania, some twenty years ago, addressed his fruit growers:

"I am not good at growing things. But my wife is famous for her dahlias. A stylish city matron asked my wife, 'How do you grow such wonderful dahlias?' My wife replied, 'I use old cow manure.' The lady was puzzled for a moment, then asked, 'How old must the cow be?'"

E. Stuart Hubbard,  
*New England Homestead*

### WHAT PRICE BABY CARRIAGES?

Is Leominster, Massachusetts, short of babies or baby carriages? Old-time baby carriages (a collection of them) from the F. A. Whitney Carriage Co. recently sold for \$2,000 at auction—just to keep them in town.

### TOO LATE

A man boarded the train in New York late one evening and said to the Pullman porter, as he prepared to retire, "I have an important engagement in Syracuse in the morning and must get off there. I am a very hard man to awaken but I am going to give you this \$5.00 bill. You see that I get off the train in Syracuse."

Some time later the man awakened and discovered that the sun was shining. He called the porter and asked "Where are we now?"

The porter replied, "We'll be getting into Buffalo in a short time."

The Traveller burst out in an angry protest to the porter, using words that do not ordinarily appear in print.

The Pullman conductor overheard the conversation and called the porter. He said, "You are expected to be courteous to people on the train but you don't have to stand for conversation of that kind."

The porter replied, "If you think that is bad, you should have heard the man I put off in Syracuse."

### EVERYTHING BUT TALK

The smartest animal I have ever known was my yellow cat, "Patsy Sunshine." I never heard him mew. If I was in the kitchen when he wished to go

outside he rattled the door knob. If I was in another room he came to me and with his paw touched my skirt and then ran quickly to the door. He jumped in the bath tub, touched the cold water faucet just enough to drip and then he caught the drops in his mouth.

I own a parrot, "Padetta." I burn wood in the parlor stove. During cold nights in the winter toward morning the fire burns low. Patsy came to my room and patted my face with the ball of his foot until I got up and then he would quickly run into the parlor and look up at the stove. I asked Padetta, "Did you ask Patsy to come and get me?" and she replied, "Yes, I am cold."

Nellie Weeks in  
*American Agriculturist*

### SURE LAZY

Si and Hiram were talking shop. "I have without doubt the laziest rooster in the world," boasted Si.

"Just how lazy is he, Si?"

"Well, he ain't never crowed in his life. He just waits for another rooster to crow—and then he nods his head."

### HUNTER

Some years ago, a friend of mine . . . had a red fox hitched in his yard. Among other things, he fed him bread and milk and supposed he ate it.

At the same time he kept losing hens, but as the fox was hitched he didn't suspect him. One day his wife happened to see the fox chew his bread and milk, and then spread the bread around. When a hen came up to get the bread, the fox caught her.

Arthur Brown in  
*American Agriculturist*

### TODAY'S CHUCKLES

Teacher commenting on little boy's poem: "Since your poem is about flowers, Wilbur, I think the word 'smell' would be more appropriate. You can still have it rhyme by substituting 'bluebell' for 'mountain pink.'"

\* \* \*

Daughter: "Father, why was Adam made first?"

Father: "To give him a chance to say a few words."

—*Boston Herald*



*banana  
town*

**MIDDLE AMERICA**

*banana town*



## MIDDLE AMERICA



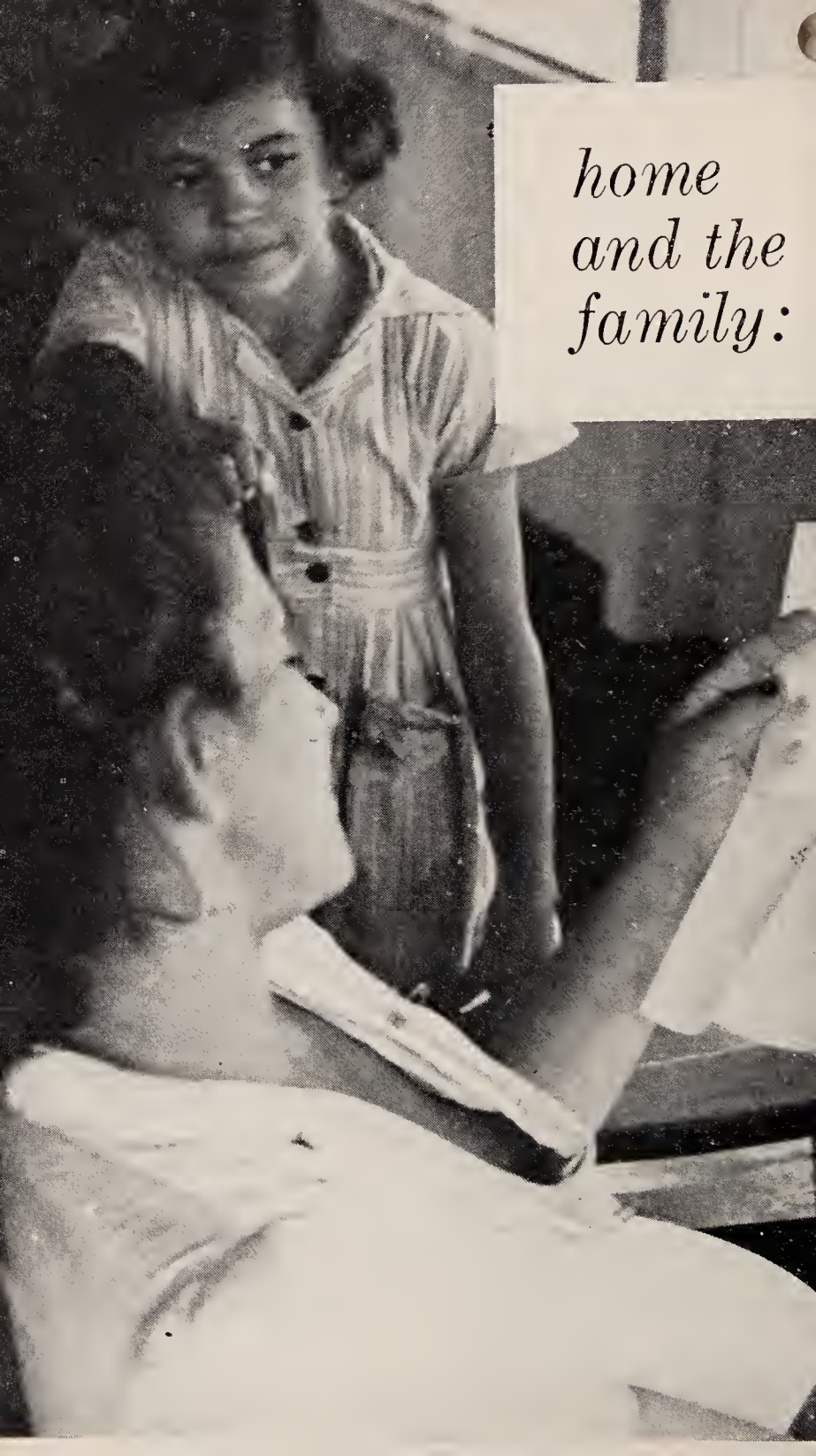
People are people everywhere. Take Banana Town, for example; see for yourself how the pattern of life in Middle America resembles that of New England.

Just as New England needs outside markets, so does Middle America. New England can't use all the textiles it manufactures, nor can Middle America consume all its bananas!

Banana Town symbolizes the sort of relations which make the Western Hemisphere strong. The tropical jungles are miraculously converted into orderly acres which produce a fruit for millions of northern neighbors. The good earth of Middle America and the good market of North America make an unbeatable combination.

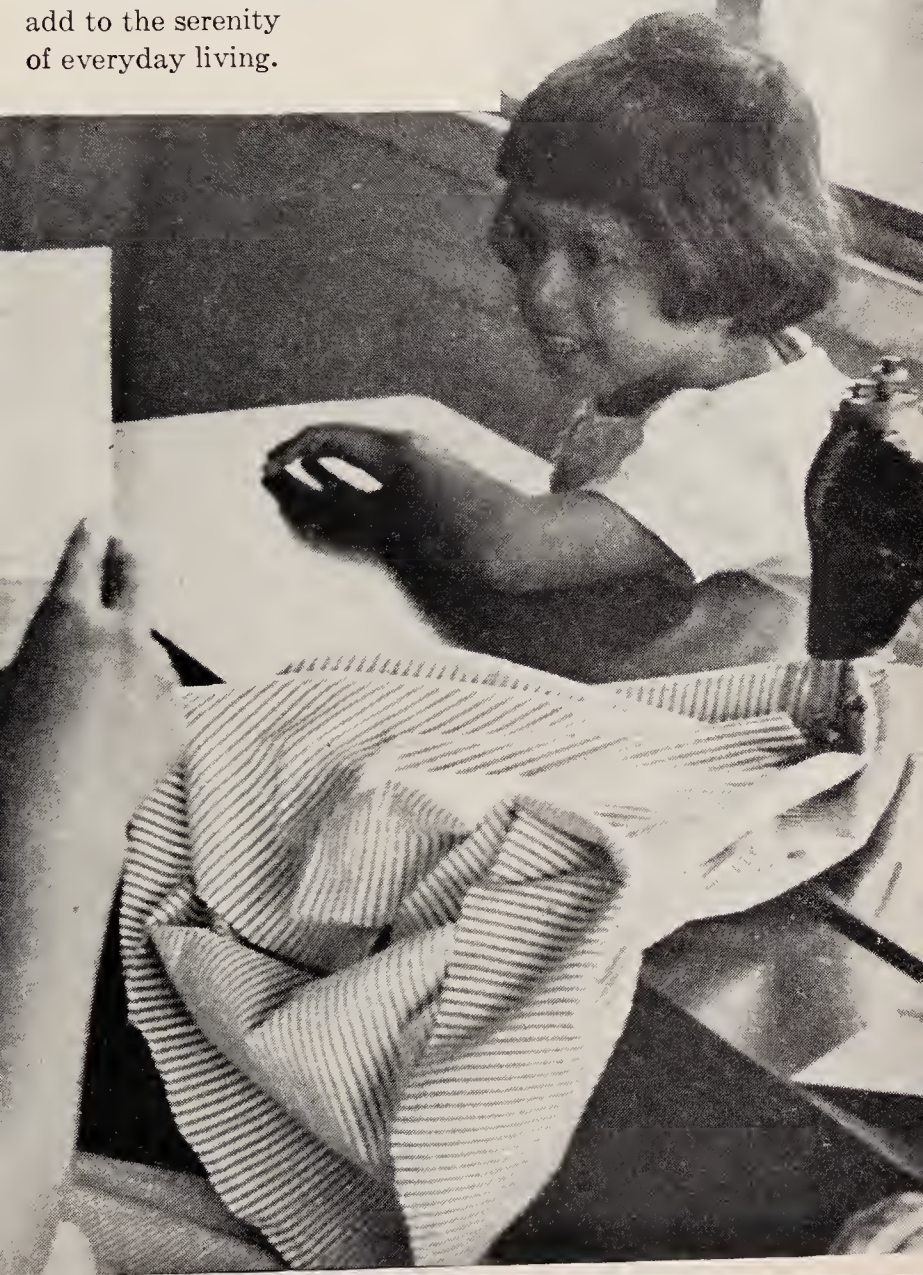
These photographs of United Fruit personnel in Middle America show people who live with dignity and who have pride in their jobs. Many have learned trades and professions since joining the Company. These job opportunities, plus modern hospitals and schools, all represent efforts to improve living standards and to be useful on the part of

**UNITED FRUIT COMPANY**



*home  
and the  
family:*

Children are special in the tropics. They are treated with dignity, loved dearly. And in Banana Town, airy, well-screened, well-appointed homes add to the serenity of everyday living.





*the land:*





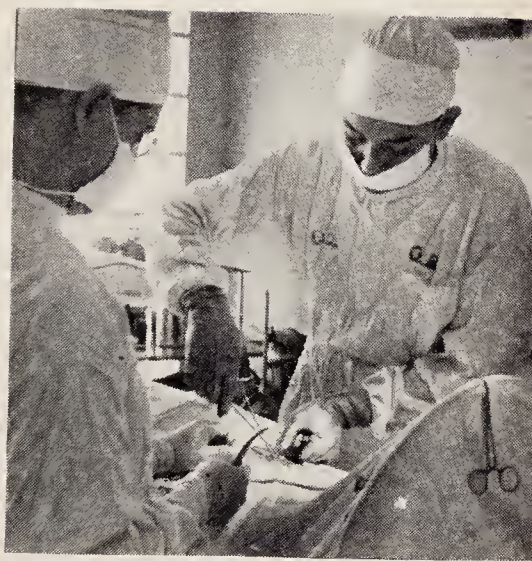


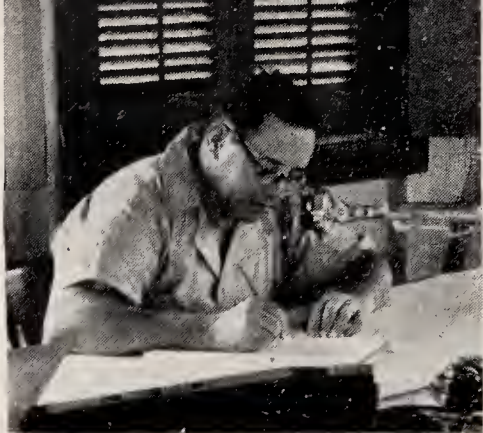
Yesterday — trackless wilds;  
today — broken to the plough;  
tomorrow — a carpet of green banana  
plants stretching to the hills. It's a  
combination of *Yanqui* ingenuity,  
skilled tropical workers and  
a bountiful earth.

*sound minds,  
healthy bodies:*

They pledge allegiance to their flag, just as we do . . . and with the same passionate pride in flag and country. About the only difference is that Spanish is their basic language. And skilled Spanish hands and minds are at work in Banana Town's fine hospital. It all adds up to sound minds and sound bodies.







*getting  
together:*

There's an airport at  
Banana Town, and a railroad  
station. And there are  
the phone and radio, too.  
These kids know what happened  
to the Red Sox just  
as soon as you do—and  
they're just as interested.





*the  
builders:*



The railroad's coming through! Swamp is being drained away; the *medicos* have already knocked out the mosquitoes; the agronomists have checked the soil. This is truly 20th Century pioneering.



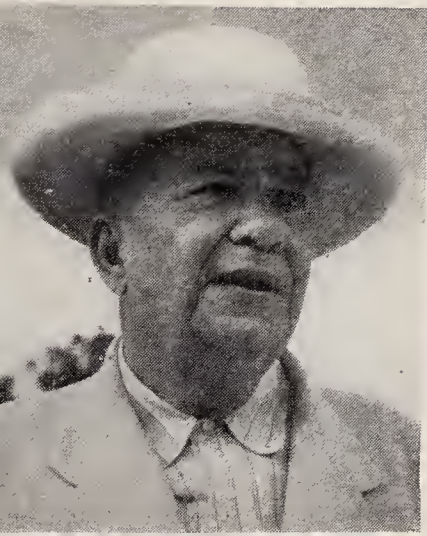
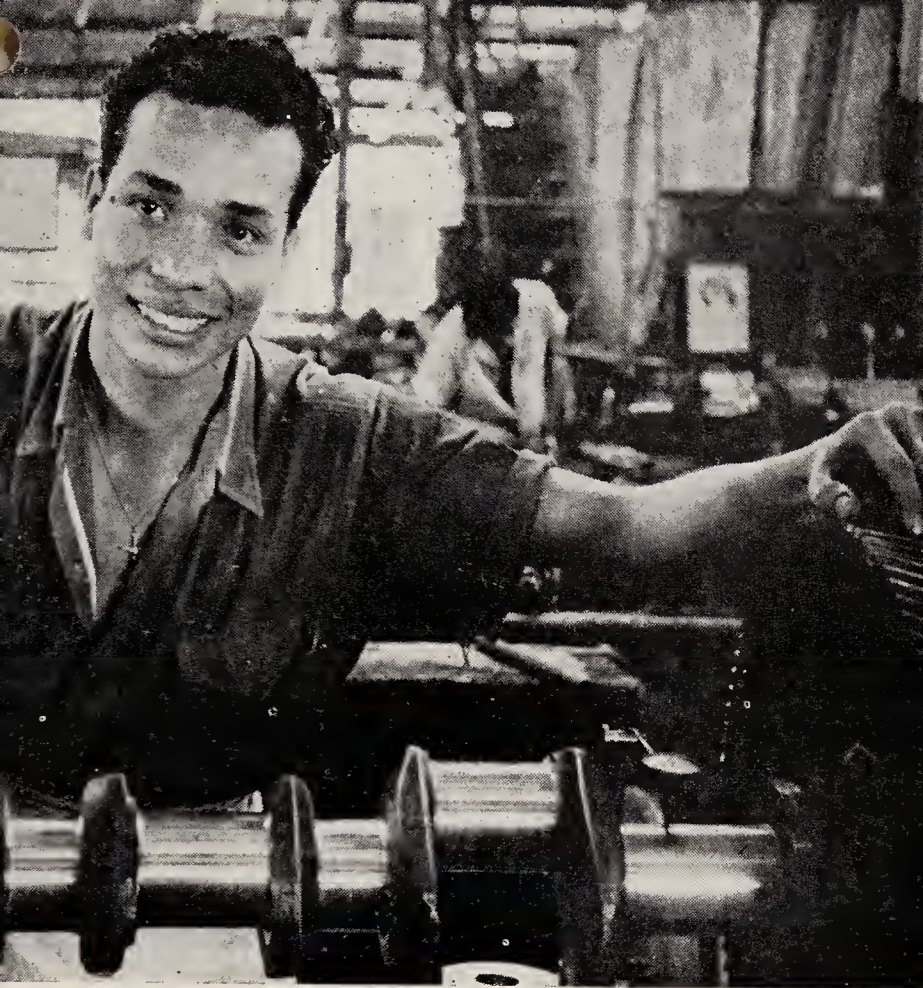


*the people:*

Like New Englanders, the people of Middle America's Banana Towns (some 90 thousand strong, plus families) are inventive, ingenious and industrious. You name the trade—they've mastered it! Mechanics, preachers, farmers, doctors, bakers, teachers, stenographers, nurses, engineers...







In Middle America,  
as in New England,  
it's the things  
of the spirit that unite  
a people —  
at prayer, at home,  
or in the field.

**UNITED FRUIT COMPANY**



From Oliver Wendell Holmes'  
"Autocrat of the Breakfast Table"

"You never need think that you can turn over any old falsehood without a terrible squirming and scattering of the horrid little population that dwells under it.

"Every real thought on every real subject knocks the wind out of somebody or other. As soon as his breath comes back, he very probably begins to expend it in hard words. These are the best evidence a man can have that he has said something it was time to say.

"Dr. Johnson was disappointed in the effect of one of his pamphlets. "I think I have not been attacked enough for it," he said; "attack is the reaction; I never think I hit hard unless it rebounds."

#### CYNIC'S WISDOM

Knowledge is power—if you know it about the right person.

Opposition is the surest persuasion.

He who knows nothing fears nothing.

Wild oats make a bad autumn crop.

The number of a man's widows will be in proportion to the size of his estate.

Don't take the will for the Deed—get the Deed.

The doors of Opportunity are marked "Push" and "Pull."

Charity is the sterilized milk of human kindness.

The gossip is not always of the swift nor the tattle of the wrong.

Only the young die good.

What can't be cured must be insured.

The danger lies not in the big ears of little pitchers, but in the large mouths.

Kind hearts are more than coronets—few girls can afford to have either.

Never too old to yearn.

The pension is mightier than the sword.

A fool's paradise is nevertheless a paradise.

Shut your mouth and open your eyes—

And you'll need nothing to make you wise.

from *Cynic's Calendar of Revised Wisdom for 1905*

*The Lady in the Muddy Street—*  
1876

Take care! Do not drag your dress through that mud puddle! Worse and worse! If you take hold of your dress on both sides that way and drag it up so high, you will be set down as a raw country girl. So. Raise it just above the boot, all around, easily, letting it fall again in the old folds. Don't shake it down; it will fall back of itself.

Stop! Don't you see there is a carriage coming? Do you want to be thrown down by the horses? You can run across? Very lady-like indeed! Surely nothing can be more ungraceful than to see a lady shuffle and run across a street. Wait until the way is clear and then walk slowly across.

Do not raise your skirts. It is better to soil them. (You were very foolish to wear white skirts this muddy day.) They are easily washed and you cannot raise all. You will surely be awkward in making the attempt, and probably fail, in spite of all your efforts. True, they will be badly soiled, and you expose this when you raise the dress, but the state of the streets must be seen by all who see your share of the dirt, and they will apologize for your untidy appearance in a language distinctly understood.

*Etiquette For Ladies*

#### ISLAND BALL

by Charles G. Wilson

The sea was dressed in azure,

The sunset was in red,

The island was a duchess

With a lighthouse on her head.

The pale stars danced a polka

To the wind's soft roundelay,

And the fisherfleet like mackerel

Skipped across the bay.

The sunset curtsied, rested,

The sea slipped off to bed,

But the duchess sat till morning

With a lighthouse on her head.

*Of Men and Mountains*

## RECENT DEVELOPMENTS IN AGRICULTURAL SCIENCE

### FORESTRY AND AGRICULTURE

Figures don't tell any story completely, of course, but we read from a good reliable source, *The Northeastern Logger*, that the forest area in Connecticut has increased about 100 per cent since the Civil War, that at that time forests covered about 30 per cent of the land area in that state, while at the present they cover twice that much. We haven't figures for all the east or for the country state by state, but what these figures show for Connecticut would be largely true of all our central and northeastern states.

What has happened in Connecticut is that much of the farm population moved west to greener pastures or simply to neighboring industrial centres—to shorter hours of labor and more profitable returns (or so it seemed). Whatever the exact figures of forest and agricultural acres, now and previously, we are seeing a growing forest-agricultural policy—national as well as communal and private—that is all to the good. Many states have seen the rapid spread of so-called tree farm plans followed by farmers and other landowners—these plans meaning practices approved by state or county foresters.

The harvesting of timber by great lumber companies, such as the Weyerhaeusers in the West and the Brown Co. of New Hampshire, is carried out under long range plans for forest perpetuation, and this is widely true for farmers and other timber owners.

Forestry management goes hand in hand with agriculture. A plan for forests means a plan for fields. Submarginal, farmed-out, badly eroded land will be returned to the gentle mantle of forests, for example, and fertile areas be reclaimed from forests for agriculture.

### PUBLICATIONS—FREE

Your state will have its own publications for the farmer, forester, orchardist, housewife, etc., which may usually be had free of charge. (Ask your county Extension Agent.) Such publications can be supplemented by a vast list of farmers' and homemakers' publications from the United States Department of Agriculture. Write to the Division of Publications, Office of Information, USDA, Washington 25, D.C., or your State Extension Agent—see page 69.

### ORCHARDS AND CHEMICAL CONTROLS

The last blossoming season in the apple orchards of New England, at least, was drowned—and preceded and followed by as much rainfall as is often seen in these parts. The result of this was immediate and continued development of bad scab conditions. If there is anything really new that the orchardist has learned it is that the conditions causing scab should be offset, or controlled, before they start. Or if conditions cannot be controlled, then he should set about controlling and eliminating the scab itself before it is really ruinous. We know now from daily radio information from entomologists and agriculturists what the temperature is, is likely to be (and moisture conditions) and therefore how the danger of scab will develop. And we meet it with the almost immediate applications of our fungicides before scab explodes like thousands of fountains from the bottom leaves to the top of all our trees.

A generation ago we were meeting the scab onsets with liquid-lime sulphur, then milder forms of sulphur (in paste form or dry wettable or micronized) or with other materials known variously as Phenyl Mercury, Phygon, Fermate (Ferbaun) and others.

As recommended for the state of New Hampshire by the entomologists and state and extension horticulturists still other materials are suggested as worth a trial this year and these are Capatan (Sr 406), Crag Fruit Fungicide 341 and Phygon dust. And so it goes on the apple scab picture.

As for insecticides: after the petals have fallen and the bees stopped working, the use of lead arsenate with DDT is still respected for everything from *Curculio* to Codling moth, but, for the ever-increasing mite family, Tepp and Parathion (and they both must be used with masks and gloves), and for aphids—Tepp, Parathion, or Nicotine. Comparatively new materials that are coming into use are Aramite (especially for red mites), Ovotran for use against the

egg and nymphal stages of mites, and Melathon, also a miticide, especially effective against the adults. There is much else new in the apple world that cannot be covered in two paragraphs, including further experiments with the chemical thinning of the apple crop, and the production of constantly improved sprayers and dusters of the concentrate types.

We are looking for someone who will produce a really workable mechanical apple picker. Not as yet—if ever.

### THE SOIL ABOUT US

Dr. A. A. Nitikin is director of Agricultural research of the Tennessee Corporation, Atlanta, Georgia, an authority on trace elements in our soils. What he wrote in 1950 in the Southern Seedsman is as important, and to most of us as little known now, as it was then.

Our three major elements (nitrogen—phosphorous—potash), usually the only ingredients of most of our commercial fertilizers, are not usually sufficient to replace in the soil elements that have been lost by erosion, the overuse of the big three element fertilizers, loss of trace elements by crops, acidity, amount of colloidal material in the soil, or organic material (humus).

The table below gives this story and more.

#### TRACE ELEMENT FUNCTIONS IN PLANT LIFE

Element	Function in Plants	Deficiency Symptoms	Important Deficiency Diseases	Causes of Deficiency in Soil
Copper	<ol style="list-style-type: none"> <li>1. Seed production.</li> <li>2. Chlorophyll formation.</li> <li>3. Oxidative enzyme production.</li> </ol>	Dark color followed by possible chlorosis. Wilting. Stunting.	"Yellow tip" of onions. "Dieback" of citrus.	Peat. Organic Sandy leachable Ports-mouth.
Manganese	<ol style="list-style-type: none"> <li>1. Seed production.</li> <li>2. Carbohydrate metabolism.</li> <li>3. Enzymatic action.</li> <li>4. N.&amp;C. assimilation.</li> </ol>	Chlorosis. Green veins. Necrosis. Retarded growth.	"Grey speck" of oats. "Marsh spot" of peas.	High pH. Sandy leachable Over-liming.
Zinc	<ol style="list-style-type: none"> <li>1. Seed production.</li> <li>2. Chlorophyll formation.</li> <li>3. Promotes growth.</li> </ol>	Necrosis. Chlorosis. Small mottled leaves. Reduced fruit.	"Frenching" of citrus. "White bud" of corn. "Little leaf" of peach. "Rosette" of pecans. "Bronzing" of tung foliage.	High pH. Over-liming. Sandy leachable.
Iron	Chlorophyll formation.	Chlorosis. Tips and margin remain green.	Chlorosis of gardenias, and other plants.	Calcareous. Peat. Sandy
Molybdenum	Increases N. fixation.	Mottling followed by necrosis of leaf edges. No fruit produced.		Acid

As shown in the above table it can be seen that most of the trace elements help in the formation of chlorophyll—and if the foliage turns pale, it is due to lack of these elements.

Seeds are natural storage vaults—high in copper and zinc, and so for plants grown for seed the insurance of these elements is highly important. Some plants are especially high in manganese. To provide plants with trace elements, they can either be given soluble salts in the soil around them or their foliage sprayed or dusted with neutral salts. Such applications at the proper time and in the proper dosage will help control diseases—copper, for instance, controls blight and zinc certain bacterial diseases such as Bacterial Spot on peaches.

A typical formula for spraying fruit and ornamental trees with neutral trace elements should contain:

- 1 lb. basic copper sulphate
- 2 lbs. neutral manganese compound
- 1 lb. neutral zinc compound
- per 100 gallons spray

A suitable dust should contain:

- 5 lbs. basic copper sulphate
- 10 lbs. neutral zinc compound
- per 100 lbs. dust mixture

The above may be used in one treatment with fungicides and insecticides.

Soluble salts may be recommended for use in combination with regular fertilizers at the following concentrations per ton:

- 20 lbs. copper sulphate
- 40 lbs. Manganese sulphate
- 20 lbs. zinc sulphate

“The blood of the flower is an expression of what is in the seed.”

### WEEDS AND WISDOM

Lots of things kill weeds nowadays—not the least of which is still mechanical cultivation and the old-fashioned hoe. But if you are considering the treatment of weeds in your potato fields one expert has this to suggest:

Where annual grasses are not troublesome, 2-4-D applied pre or post emergence will do an excellent job of broad leaf weed control, though it does cause a serious distortion of the foliage. Where only broad-leaved weeds are a problem, Dow Selective Weed Killer or Sinox W at rate of one gallon per acre is satisfactory. Where barn grass or other annual grasses are a problem, Premerge or Sinox PE is more satisfactory, killing barn grasses up to height of two inches.

These are dinitros and should be used, unlike the hormone types, before the potatoes merge.

To kill the tops of the potatoes and thus prevent late blight, the use of a rotobeaer set high is favored with the additional use of some killer chemical—such as Sodium Arsenite—two gallons to a 40% Sodium Arsenite liquid.

### HELPFUL INSECTS

Horticulture summarizes some of the latest in the discovery and use of bugs, etc., that man can use to fight other insect pests:

“From the field of horticultural research comes the report that entomologists are using helpful insects to control destructive pests. Among them are foliage-feeding beetles from Australia that were used to destroy 100,000 acres of the Klamath weed in California.

“Likewise an insect parasite of the citrus blackfly, introduced from India into citrus-growing areas in Mexico, shows promise of controlling this pest and reducing its threat against the citrus areas of the United States.

“At the Connecticut Agricultural Experiment Station, Dr. Raimon L. Beard has been working with a tiny wasp that poisons insects a thousand times its own size with the venom of its sting. The venom kills its victim by rendering the muscles unresponsive to nerve stimulation.”

## STATE EXTENSION DIRECTORS

Consult these men about your garden and farm problems. They know the answers. *Courtesy Lester A. Schlup, Chief, Division of Extension Information, U.S. Dept. Agr., Wash. 25, D. C.*

- Alabama: P. O. Davis, Alabama Polytechnic Institute, Auburn.
- Arizona: C. U. Pickrell, University of Arizona, Tucson.
- Arkansas: (Lippert S. Ellis, College of Agriculture, University of Arkansas, Fayetteville)  
\*(C. A. Vines, Associate Director, 421 W. Capitol Ave., Little Rock).
- California: Wayne F. Weeks, Acting Dir., College of Agriculture, University of California, Berkeley 4.
- Colorado: James E. Morrison, Colorado Agricultural and Mechanical College, Fort Collins.
- Connecticut: R. G. Hepburn, Associate Director, University of Connecticut, Storrs.
- Delaware: G. M. Worrilow, Director, University of Delaware, Newark.
- Florida: H. G. Clayton, Agricultural Extension Service, Experiment Station, Gainesville.
- Georgia: Dr. C. C. Murray, Georgia State College, Athens  
\*Walter S. Brown, Georgia State College of Agriculture, Athens, Associate Director.
- Idaho: D. R. Theophilus, College of Agriculture, University of Idaho, Moscow.  
\*(C. O. Youngstrom, Assistant Director, State House, Boise)
- Illinois: R. R. Hendelson, Dir., College of Agriculture, University of Illinois, Urbana.  
\*W. G. Kammlade, Associate Director, College of Agriculture, University of Illinois, Urbana.
- Indiana: H. J. Reed, Purdue University, LaFayette.  
\*L. E. Hoffman, Associate Director, Purdue Univ., Lafayette.
- Iowa: Floyd Andre, Iowa State College of Agriculture and Mechanic Arts, Ames.
- Kansas: L. C. Williams, Kansas State College of Agriculture and Applied Science, Manhattan.
- Kentucky: Frank J. Welch, College of Agriculture, University of Kentucky, Lexington 29.  
T. R. Bryant, Assoc. Dir.,
- Louisiana: H. C. Sanders, Louisiana State University and Agricultural and Mechanical College, University Station, Baton Rouge 3.
- Maine: A. L. Deering, College of Agriculture, University of Maine, Orono.
- Maryland: Dr. James Gwin, Univ. of Maryland, College Park.
- Massachusetts: James W. Dayton, Associate Dean and Director of Extension Service, Massachusetts State College, Amherst.
- Michigan: D. B. Varner, Michigan State College of Agriculture and Applied Science, East Lansing.
- Minnesota: Paul W. Miller, Department of Agriculture of the University of Minnesota, University Farm, St. Paul 8.
- Mississippi: Clay Lyle, Mississippi State College, State College  
\*M. S. Shaw, Ass't. Dir. Mississippi State College, State College.
- Missouri: J. W. Burch, College of Agriculture, University of Missouri, Columbia.
- Montana: N. E. Beers, Acting Dir., Montana State College of Agriculture and Mechanic Arts, Bozeman.
- Nebraska: W. V. Lambert, Director, College of Agriculture, University of Nebraska. Lincoln 1.  
\*E. W. Janike, Acting Associate.
- Nevada: C. B. Hutchison, Agricultural Extension Division, University of Nevada, Reno.
- New Hampshire: L. A. Bevan, University of New Hampshire, Durham.
- New Jersey: (W. H. Martin, State College of Agriculture and Mechanic Arts of Rutgers University, New Brunswick)  
\*(L. G. Cook, Associate Director, College of Agriculture, New Brunswick)

New Mexico:	Robert A. Nichols, New Mexico College of Agriculture and Mechanic Arts, State College.
New York:	L. R. Simons, New York State College of Agriculture, Ithaca.
North Carolina:	David Weaver, State College Station, Raleigh.
North Dakota:	E. J. Haslerud, North Dakota Agricultural College, State College Station, Fargo.
Ohio:	W. B. Wood, Actg. Dir., College of Agriculture, Ohio State University, Columbus 10.
Oklahoma:	Shawnee Brown, Oklahoma Agricultural and Mechanical College, Stillwater.
Oregon:	F. Earl Price, Oregon State Agricultural College, Corvallis. *F. L. Ballard, Associate Director.
Pennsylvania:	H. R. Albrecht, Pennsylvania State College, State College.
Rhode Island:	H. O. Smart, Rhode Island State College, Kingston.
South Carolina:	D. W. Watkins, Clemson Agricultural College of South Carolina, Clemson.
South Dakota:	George I. Gilbertson, Director, South Dakota State College of Agriculture and Mechanic Arts, Brookings.
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Texas:	G. G. Gibson, Director, Agricultural and Mechanical College of Texas, College Station.
Utah:	Dr. Carl Frischknecht, Utah State Agricultural College, Logan.
Vermont:	J. E. Carrigan, College of Agriculture, University of Vermont, Burlington.
Virginia:	L. B. Dietrick, Virginia Polytechnic Institute, Blacksburg.
Washington:	R. B. Tootell, Box 328, Pullman.
West Virginia:	J. O. Knapp, College of Agriculture, West Virginia University, Morgantown.
Wisconsin:	H. L. Ahlgren, Associate Director, College of Agriculture, University of Wisconsin, Madison 6.
Wyoming:	George H. Starr, College of Agriculture, University of Wyoming, Laramie.

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

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If You Can Do This Step — You Can Dance In 3 Days!

Here's how this exciting book can help you become a smooth dancer. It's full of easy-to-follow diagrams and instructions.



## Eighty Years Ago

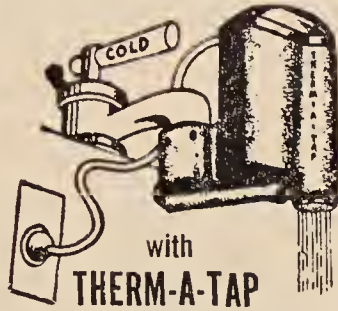
Eighty years ago there were:

- No sewing machines.
- No steam machinery.
- No motor cars.
- No lucifer matches.
- No pneumatic cycles.
- No pneumatic tired vehicles.
- No phonograph.
- No typewriting machines.
- No electric light.
- No electric motors.
- No Pullman cars.
- No dining cars.
- No 60 miles an hour.
- No 22-knot steamers.
- No 30-knot torpedo boats.
- No free education.
- No breech loading guns.
- No Maxim guns.
- No Suez Canal.
- No lady cyclists.
- No lady doctors.
- No lady clerks.
- No lady barbers.
- No lady golfers.
- No steel steamers.
- No refrigerators.
- No free libraries.
- No telephones.
- No telegraph.

What, one wonders, will the next 50 years produce?

*From an 1880 Scrapbook.*

## Hot Running Water in a Jiffy



with  
**THERM-A-TAP**

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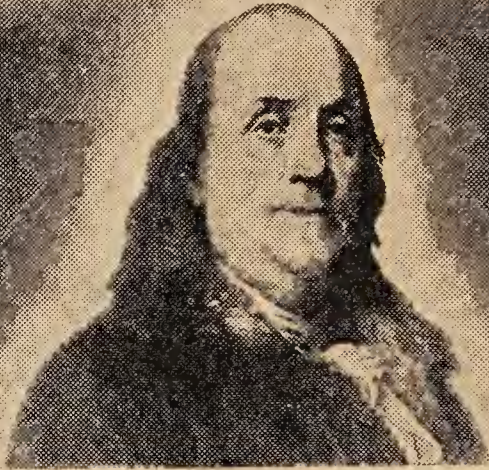
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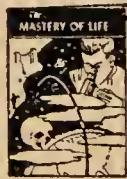


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Very truly yours,  
Dr. H. Field Smith,  
St. Petersburg, Fla.

From these tables you will note the significant possible earthquake dates in 1954 are as follows:

January 10, 11, 16-20.  
February 9, 10, 15-19.  
March 10, 11, 17.  
April 9, 10.  
May 1-4, 8, 9, 31.  
June 9, 10, 22-25, 30.  
July 20-24, 29, 30.  
August 18-22, 28.  
September 17-21.  
October 11, 12, 16-20.  
November 9, 10, 15-19.  
December 3-5, 14-16.

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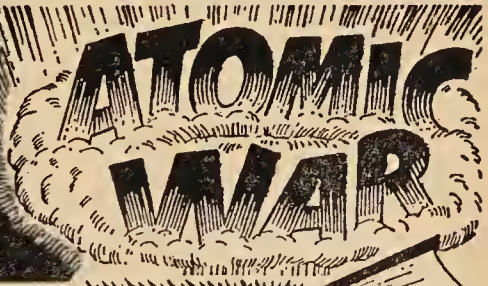
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olution, London  
Fire, American  
Revolution,  
Abraham Lin-  
coln, F.D.A.



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## PRINCIPAL HOLIDAYS, ETC. IN 1954

America has no nationwide holidays. Each state determines its own. In the table that follows (\*) indicates those 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 (13-35) in abbreviated form.

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

## MONKEY, CELESTIAL FORE-RUNNER FOR MAN?

The monkey, for those who hold with Darwin at least, made the way for man on earth. Missing link or not, there are those who see us first as geatonic globules, yearning, growing, reaching, finally screeching into our present form. But the monkey got there first. His cocoanut fun in jungle trees, somewhat abstrusely perhaps, may be the first beginnings of modern baseball. But those days are not these.

Man is now concerned with outer space, and according to an Air Force disclosure in the *American Rocket Society News* of January, 1953, the monkeys also have been there first . . . leastwise into 200,000 feet of it. Man still groping and earthbound considers something like 70,000 as his best effort.

Unfortunately, although the monkeys survived this initial experience out there, they could not chatter about it afterwards. It seems that the protection of instrumentation necessary to record their physiological reactions during the trip in an Aerobee Rocket required anesthetization of the beasts. But a couple of mice went along too. One of them, floating free in a smooth drum, is reported to have completely lost its sense of direction and orientation. The other, in a drum containing a small shelf, was able to cling to it, orient himself, command his body at will, and did not float in space. No unusual effects were experienced however by either monkeys or mice from their brief initial acceleration of 15 g, and a longer force of 3 to 4 g which lasted for 15 seconds. (Whether 15 g is the equivalent of one zombie, and 3 to 4 g the same as 3 or four double martinis the Air Force does not choose to disclose.) We take it there is some similitude in view of the official caution at the end of the Air Force report: "Physiological results obtained with monkeys and mice can only be applied with caution to men."

As a result of these things no doubt one of these days we will see monkeys dressed in chef's outfits riding along Dr. Vincent J. Schaefer's newly discovered "mysterious wind tunnel in the sky" some 20,000 to 50,000 feet in the air at speeds from 80 to 200 miles per hour. Perhaps as "Good Humor" boys they will be serving ice cream discs in flying saucers to visitors from stardom along route.

That monkeys by and large, however, are not taking to these experiments nearly as much as man expects them to is seen in the following Associated Press Despatch which appeared last January in *The Boston Post*:

NEW YORK, Jan. 31 (AP)—"A cargo plane landed at Idlewild Airport from London today with 53 cases of Rhesus monkeys consigned to various hospitals for research purposes.

The door was opened and out stepped one, two, three—11 little monkeys before somebody slammed the door shut. The 11 monkeys took off in 11 different directions.

Three climbed the airport's 10-story control tower. Others hid under parked cars. Men chased them, but all the monkeys eventually got away. Most were last seen heading for the suburbs.

Several hours later, however, police reported a monkey loose many miles away on the Bowery—Manhattan's Skid Row. They were uncertain whether it came from Idlewild, doubting that any monkey could go so far so fast."

There is still talk of course about rocket trips to the moon. Doctors of Space Medicine, like Dr. Hubertus Strughold at the Randolph Airbase in San Antonio, Texas, assures us that he can get passengers there alive if rocket makers can get the ships there. And J. P. Colbert of the University of Nebraska is confident that before this century is up the trip will take but a mere nine hours out, with two hours at the moon for sight-seeing, and thirteen hours in which to coast back. It could be of course that these monkeys, like ourselves, want no part of any such trip.—Skid Row being far more fun.

The final report of the Ad Hoc Space Flight Committee of the American Rocket Society in these matters, without any consultation with the monkeys or the mice, may be summarised as follows:

- a. Space flight is a basic challenge to the progress of mankind and will ultimately prove to be worth the cost and effort required . . .
- b. Successful flight from the earth and return of satellite, lunar, and interplanetary space ships will some day be technically feasible.
- c. The successful development of a rocket-propelled space ship requires the successful solution of many basic problems in the development of long-range guided missiles.
- d. For the purpose of building up experience and knowledge in an orderly fashion, the following projects should be emphasized and supported in the sequence indicated: High altitude sounding rockets, ground to ground unmanned guided vehicles; orbital (satellite) unmanned vehicles; manned, returnable, lunar, or interplanetary vehicles.

## SUPERSTITION, INTERPLANETARY AND OTHERWISE!

According to the British Publication "Prediction," superstition is a major American industry. "More than 10,000,000 people," says a report, "are carrying rabbits' feet in their pockets, and 3,300,000 are sold each year. Four years ago an enterprising business man found a way to grow four leaf clover in the Panama Canal Zone. Today it is said 30,000,000 people buy them every year. But the rabbits' feet devotees are wasting their money, and their faith. If the legend is true that 'the lucky rabbit's foot must actually be the left hind leg of a wild hare shot with a silver bullet in a graveyard in the dark of the moon on Friday the 13th by a red-haired, cross-eyed, bowlegged man riding a white horse.'"

Which, with our knowledge of how the British tongue is often found in the cheek, seems to us somewhat more amusing than the "stimulating conception" of Major Joseph Schaffler in *Weltall-Elektrizität und Wetter* that the sun and each of the planets is an electro-magnet and that their mutual influence on each other accounts for cyclones, and deep depressions which cause our weather. Just how "stimulating" such ideas can be is revealed in studying this whole school of "Planetary Precessional Trend Lines." One member of it was so stimulated by it during our study he purported to forecast months, years ahead, all the troublesome, turbulent spots on the earth's immediate surface which aeroplanes should avoid. He was perfectly sincere in stating that, had his system been consulted, practically every major air disaster in years gone by could have been avoided. The last we saw of him he was headed for the White House.

More appalling than this, however, if an article in *TIME* Magazine is being quoted correctly for us, is the construction of "85% accurate weather forecasts by the Radio Corporation of America with the aid of Astrology . . . by studying the planetary aspects to foresee when exceptionally strong magnetic storms are likely to disturb wireless communication." It seems amazing to us that RCA, an American institution which owes so very much to hard headed practical science should allow itself any sustained beliefs, in the fantastic and the fanciful.

But then we can not argue that some precedent is not to be found for this sort of reasoning in an authority of far greater stature than is ours. For none other than Benjamin Franklin in the Preface to his *Poor Richard's Almanac* for 1739 put himself on record as perhaps the founder of this school.

"Ignorant men wonder how," he wrote, "we astrologers foretell the weather so exactly unless we deal with the old black devil. Alas! 'tis as easy as—. For instance, the stargazer peeps at the heavens through a long glass. He sees perhaps Taurus or the Great Bull in a mighty chase, stamping on the floor of his house, swinging his tail about, stretching out his neck, and opening wide his mouth. 'Tis natural from the appearances to judge that this furious bull is puffing, blowing, and roaring. Distance being considered and time allowed for all this to come down—there you have wind and thunder.

"He spies Virgo . . . judges rightly what she's about . . . finds that next Spring we shall have a fine April shower."

Would that the modern substitution of prudery for the straight unvarnished English of a few centuries ago did not prevent us from reprinting the preceding paragraph of Franklin's in full!

## MARS NEARS NEAREST APPROACH TO THE EARTH

When Mars comes to opposition this year on June 24th, it will be about 40,000,000 miles away. This is a prelude to the next opposition which will occur late in August, 1956, when the earth and Mars will be closest together, even nearer one another than they will be in 1954.

These unusually close approaches of Mars and the earth are awaited by astronomers, since they are particularly opportune times to study the planet. Oppositions of Mars are always the best times for such study, but Mars can be as far away as almost 63,000,000 miles at one opposition and as close as 35,000,000 miles at another. Its opposition in 1956 will be one of the latter.

These particularly close approaches occur at intervals of 15 or 17 years. Between one such and the next, major developments in scientific equipment often occur. The new equipment developed since Mars' last near approach to the earth may well reveal important new information not only at this year's opposition, but especially at that two years hence.

For those who are not astronomers, these near approaches of Mars are visually exciting, since Mars reaches great brilliance at such times.

# HISTORICAL NARRATIVES

OF THE MOST NOTED CALAMITIES, ON THE OCEAN, 1588-1833

Ye lost companions of distress, adieu!  
Your toils and pains, and dangers are no more,  
The tempest now shall howl unheard by you,  
While ocean smites in vain the trembling shore.

FALCONER

BY CHARLES ELLMS, & A. & C. B. EDWARDS, 1836.



LADY HOBART ON ICE, 1803  
(Grand Banks)



THE PHOENIX'S HURRICANE, 1780  
(Cuba)



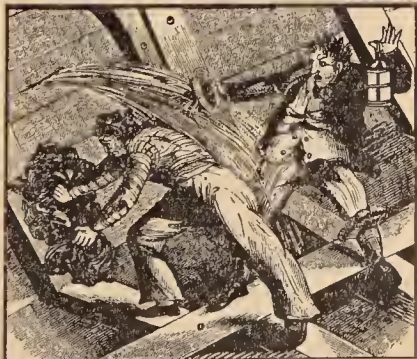
MEDUSA STRANDED, 1817 (Africa)



THE KENT AFIRE, 1827 (Bay of Biscay)



HALSEWELL'S ROUND HOUSE, 1786  
(Seacombe)



LE JACQUES' LEAKS, 1553 (Off Brazil)



MAN OVERBOARD, 1816 (Finisterre)



HEN COOP RAFT, 1817 (Arguin Bank)



THE ALBION WRECK, 1822 (Ireland)



HOTTENTOT PRIZE, 1782 (Cafiraria)



THE PRINCE AFIRE, 1752 (France)



MR. MERITON, 1786 (Purbeck)

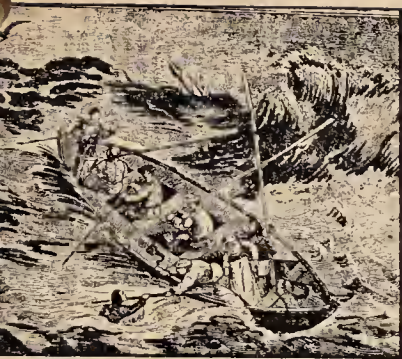


LIFEBOAT, 1790 (Tynemouth)

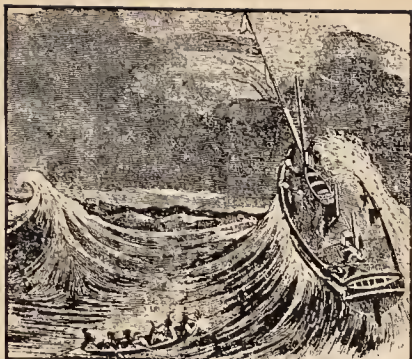


NEWFOUNDLAND RESCUER, 1830





ISABELLA'S CREW, 1833 (Hastings)



MARGARET WRECK, 1810 (Salem)



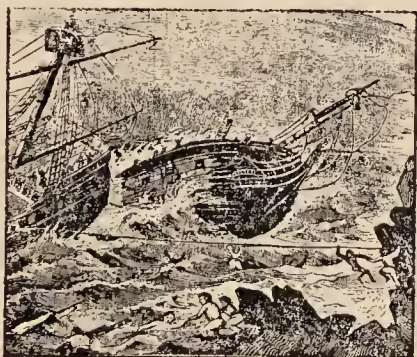
GOD SAVES CAP'N RILEY, 1816 (Africa)



PEROUSE'S SHALLOPS, 1786 (Patagonia)



THE CENTAUR, 1782 (Atlantic)



THE GROSVENOR, 1782 (Good Hope)



McGREGOR, (Memphis) 1830



BRIG POLLY, (Cape Cod) 1811

## WORD CHARADES

(Answers on page 109)

1

My first to do with funds we  
have to spare,  
My next is one we cherish with  
much care;  
My last will shut us in or set us  
free,  
Just as we use it as you soon  
will see.  
My whole all men of science  
love to do,  
And find it ever well repays  
them to.

2

In my first we sometimes ride,  
In my second oft confide;  
And in my whole we take a pride  
If it is a beauty.  
In my first we move with speed,  
About my second fret indeed;  
But keep my whole from dust  
well freed  
For it is a duty.

3

From toils of life and from the  
noonday heat  
My first and second yield a calm  
retreat,  
Inviting each to stillness and to  
sleep,  
At once the brows to cool, the  
sense to steep.  
But he would combine the two  
in haste,  
Venturing the sweets of both at  
once to taste,  
May rest so long as never more  
to rise,  
May sleep till death forever close  
his eyes.

4

My first obstructs the river's  
rapid course,  
And harnesses for man its  
mighty force;  
My next steals o'er each mortal  
day by day,  
And fast his useful moments  
glide away.  
From failure of my first my  
whole ensues,  
Sweeps desolation o'er the dis-  
tant views.

5

My first divides with rest and  
motion;  
Conveys to please a great pro-  
portion.  
My last a word of trifling sound  
May be a horse, a cat, or hound.  
My whole, of blue, green, brown  
or red,  
Becomes worn out by constant  
tread.

*Edith Finney*

6

My lovely first a general glad-  
ness spreads

When o'er the lawn the blithe-  
some step she treads.  
Cheered by her smile the flowers  
around her spring,  
In grateful strains the feathered  
warblers sing.  
My next with danger threatens  
the approach  
Of those who would upon its  
bounds encroach,  
Not so my so my whole 'round  
which at close of day  
The youthful peasants join in  
gambols gay.

7

My first a friend, companion,  
guide,  
Is loving staunch and cheery  
My second has a cleansing side;  
My third denotes a theory;  
My whole I hope is held by few,  
To bore and make us weary.

8

I stood beside the time worn mill  
And gazed upon my first  
While 'gainst its side the waters  
still  
In maddened fury burst.  
Upon the mill I turned my eyes  
And viewed its crumbling wall,  
My second I saw without sur-  
prise  
Ere long would cause its fall.  
For storm and flood, time and  
decay  
Had vexed the miller's soul,  
His trembling lips could scarce  
portray  
The greatness of my whole.

9

My first and my second are  
yellow as gold;  
My last is swift and airy.  
My whole darts over the verdant  
fields  
As daintily as a fairy.

*Edith Finney*

10

My first my second and my  
whole,  
Mean the same thing repeated  
o'er;  
And yet, although it seems  
absurd,  
Each of them too means some-  
thing more.

11

My first is neither bad nor good,  
May please or may offend you;  
My second is a thirsty mood  
May very much befriend you.  
My whole, though termed a  
cruel word,  
May yet appear a kind one;  
It often may with joy be heard,  
With tears may often blind one.

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**ACTIVO**

## OLD-FASHIONED PUZZLES

(Answers on page 100)

### Conundrums

1. What is that which divides by uniting and unites by dividing?
2. Why is a knock at the door like an overcoat?
3. What is that which sometimes kicks though it has no feet?
4. When is a man in debt over his ears?
5. Why are bad boys like old trunks?
6. When should a newspaper be the sharpest?
7. When is boat like a witness summoned to court?
8. What is that which no one wants and no one wants to lose?

### Riddles

1

None can locate the subject of my riddle,  
For all the world would seek its pace in vain.  
Cut it asunder almost in the middle,  
And in our very midst its place is plain.  
An aching void, an absolute negation,  
Into the opposite extreme it breaks;  
With just a gap to mark their new relation  
Each letter still the same position takes.

2

Why should we seek strange enigmatic texts  
For subjects fit to puzzle and perplex,  
For what we daily think on nearly viewed  
Abounds with riddles little understood.  
Such then am I; nor need I a disguise,  
Being already veiled from human eyes.  
I'm still approaching nearer, ever near,  
Yet none of me can ever say, 'tis here.  
And though sufficient evils me attend  
The hopes of thousands still on me depend.  
For me the miser hoards his golden heaps,  
For me the devotee pale vigils keeps.  
Though I could never yet be said to be,  
Yet what was me you every day may see.

3

Nature the richest of her treasures gave,—

The artful structure of my frame to build,  
Tho' I no proper life or motion have  
Mankind to me their lawful homage yield.  
The hand that made me ne'er my right possessed,  
The hands that gave me ne'er my owners were,  
Nor they who won me hardly ever guessed  
How dearly bought their wished-for conquests are.

### Anagrams

1

On me the records of the years depend,  
And when I die all history has an end;  
Turn me about and I will then proclaim,  
With cries of anguish or with breath of fame,  
That deeds that else might lie within the tomb  
Of silence waiting for the day of doom.  
Turn me again and I become so small  
You scarcely can discover me at all;  
Turn me once more and then you will peruse  
In plainest prose some striking bit of news.

2

A tender sapling I am found,  
Erect and rooted in the ground,  
With head to every breeze inclined;  
But turn me and I leave my bed  
With mantling branches on my head,  
And travel fleetly than the wind.

### Problems

1. What number of two digits is that which is the same reversed whose square, cube, and fourth power are each the same when reversed?
2. The owner of a set of books of uniform thickness and binding, and standing in regular order upon the shelf, found on consulting volumes one and two that a worm had eaten in a straight line through from the first page of volume one to the last page of volume two. If the pages of each book were together one inch in thickness, and each cover was one-eighth of an inch thick, what was the distance bored?

## CONCENTRATED MILK

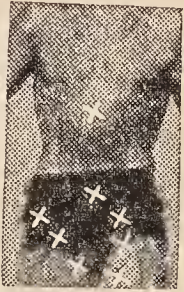
The May 1951 Monthly Review of the Federal Reserve Bank of Boston gave an interesting account of the introduction of concentrated milk into the Boston market for the first time on March 1 of that year. At that time savings of from 2½¢ to 3½¢ per quart on homogenized Vitamin D fortified milk (1½ to 2½¢ on regular milk) were apparent at retail outlets. Some 5 to 6¢ a quart savings were possible at cash and carry stores. Fluid milk of excellent quality and taste is obtained by adding two parts water. Seems like an excellent idea—especially for towns where trips to the store are infrequent—and nowadays, deliveries are almost never. Since then, however, we have not heard anything more about it. Wonder why.

## LONGEST ECLIPSE

According to a United Press release from Bangkok what may be a record total eclipse of the sun will be seen over Thailand on June 20, 1955. It will last for seven minutes or according to Thai astronomers—longer than any during the past 2000 years.

## LOOK for Rupture Help

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## MOTOR VEHICLE LAWS—1953

Courtesy: American Automobile Association

State	Op. Rl. Speed Max. (R—reasonable)	Date new license plates can be used	Driving license* Minimum age	Gasoline tax	Percent sales tax	Period of stay <sup>1</sup>	Safety responsibility law	Certificate of title required
Alabama.....	R	Oct. 1	16	\$.06	1	Reciprocal	A	no
Arizona.....	60	Dec. 15	18	.05	2	3	A	yes
Arkansas.....	60	Jan. 1	18	.065	2	30 days	A	yes
California.....	55	Jan. 1	16	.045	3	3	A	yes
Colorado.....	60	On issue	16	.06	2	Reciprocal	A	yes
Connecticut...	45	Feb. 15	16	.04	2	Reciprocal	A	no
Delaware.....	55	3mos.bth.	16	.05	...	Reciprocal	A	yes
D. C.....	25	Mar. 1	16	.05	...	Reciprocal	A	yes
Florida.....	60	Jan. 5	16	.07	...	Reciprocal	A	yes
Georgia.....	55	Jan. 1	16	.06	3	30 days	A	no
Idaho.....	R	Dec. 15	16	.06	...	Reciprocal	A	yes
Illinois.....	R	On issue	15	.05	2	Reciprocal	A	yes
Indiana.....	R	Jan. 2	16	.04	...	60 days	A	yes
Iowa.....	R	Dec. 1	16	.04	2	Reciprocal	A	no
Kansas.....	R	Jan. 1	16	.05	2	3	D	yes
Kentucky.....	60	Dec. 29	16	.07	...	Reciprocal	A	6
Louisiana.....	60	Jan. 1	15	.07	2	Reciprocal	A	yes
Maine.....	45	Dec. 25	15	.06	2	Reciprocal	A	no
Maryland.....	50	Mar. 1	16	.06	2	Reciprocal	C	yes
Massachusetts	40	Jan. 1	16	.05	...	Reciprocal	A	no
Michigan.....	R	On sale	16	.06	3	90 days	A	yes
Minnesota.....	60	Nov. 1	15	.05	...	Reciprocal	A	yes
Mississippi...	60	Nov. 1	17	.08	2	3	A	no
Missouri.....	R	On issue	16	.03	2	Reciprocal	A	yes
Montana.....	55	Jan. 1	15	.06	...	30 days	A	yes
Nebraska.....	60	Jan. 1	15½	.06	1 <sup>1</sup>	3	A	yes
Nevada.....	R	Dec. 1	16	.055	...	No limit	A	yes
New Hampshire	50	Mar. 1	16	.05	...	Reciprocal	A	no
New Jersey....	50	Mar. 1	17	.03	...	Reciprocal	A	yes
New Mexico....	60	Dec. 15	14	.06	2	90 days	B	yes
New York.....	50	Jan. 1	18	.04	...	Reciprocal	A	no
North Carolina	55	Dec. 1	16	.07	3 <sup>11</sup>	Reciprocal	B	yes
North Dakota..	50	On issue	16	.05	2	Reciprocal	A	yes
Ohio.....	50	Mar. 1	16	.04	3	Reciprocal	A	yes
Oklahoma.....	65	Dec. 11	16	.065	2	60 days	A	yes
Oregon.....	55	On issue	16	.06	...	Reciprocal	A	yes
Pennsylvania..	50	Mar. 15	16	.05	...	Reciprocal	A	yes
Rhode Island..	50	Mar. 1	16	.04	2	Reciprocal	A	no
South Carolina.	55	Sept. 18	14	.07	...	90 days	A	no
South Dakota..	60	Jan. 1	15	.05	3 <sup>12</sup>	90 days	D	yes
Tennessee.....	R	Mar. 1	16	.07	2	30 days	A	yes
Texas.....	60	Feb. 1	16	.06	2	Reciprocal	A	yes
Utah.....	60	Dec. 15	16	.05	2	Reciprocal	A	yes
Vermont.....	50	Mar. 1	18	.05	...	Reciprocal	A	no
Virginia.....	55	Mar. 15	15	.06	...	60 days	A	yes
Washington....	50	Nov. 15	16	.065	3	Reciprocal	A	yes
West Virginia..	55	June 20	16	.05	...	90 days	A	yes
Wisconsin.....	65	On issue	16	.04	...	Reciprocal	A	yes
Wyoming.....	60	Dec. 1	15	.07	2	90 days	A	yes

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

sNone on used cars.

sUntil expiration of home registration.

sThree months before current registration expires.

sUse tax on new cars, first registration of used cars.

sBill of sale must be filed.

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

ss\$15 maximum.

ssRegistry tax on first registration in state.

South Dakota does not require. All other states do.

Eleven states increased Gas or Sales Tax from 1952 for 1953. Six more either have or are considering increases for 1954.

- A. Modern "security" type  
 B. "Future proof" type.  
 C. Compulsory.  
 D. Old "S-R" type.



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# **AMERICAN OIL COMPANY**

*— from Maine to Florida*

## DIGEST OF LATEST AVAILABLE FISH AND GAME LAWS

Courtesy: State Commissioners

Open seasons include both dates, "Rabbit" includes "bare"; "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, ptarmigan and sage hen. As many states do not complete laws for 1953-54 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.

JUNE 15, 1953

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

State and Species	Seasons	Limits, Season	State and Species	Seasons	Limits, Season
<b>Alabama</b>			<b>Calif. (cont.)</b>		
Deer	Nov. 20-Jan. 1 † ♂	3	Cattfish, shad	No closed season	15
Rabbit	Oct. 16-Feb. 20	6	<b>Colorado</b>		
Squirrel	{N-Oct. 15-Jan. 15	6	Deer	} Oct. 15-31 †	1
Muskrat (fur), Otter	{S-Nov. 1-Jan. 1	6	Elk ♂		1
Quail	Nov. 20-Jan. 31	8	Bear		1
Turkey	Nov. 22-Feb. 20	8	Antelope	Oct. 13-15-Nov. 7-9	1
Bass	Special	6	Quail	Not set	8
White bass	No closed season	10	Pheasant	Not set	3
Bream	No closed season	15	Rabbit	Oct. 15-Dec. 31	5
Crappie, wh. pch.	No closed season	30	Trout	May 23-Oct. 21	10
Jack Salmon	No closed season	20	White Fish	May 23-Oct. 21	6
W-eye pike	No closed season	10	All other fish	(Open all year)	to
		15			10
<b>Alaska</b>			<b>Connecticut</b>		
Blson	Oct. 1-15	1	Deer	Dec. 1-Jan. 31	2
Deer	{E. Aug. 20-Nov. 22 ♂	1 ‡	Rabbit	Nov. 1-Dec. 31	30
	{W. Aug. 20-Nov. 15 ♂		Squirrel	Oct. 17-Nov. 28	30
Moose	{E. Sep. 15-30 ♂	1	Quail	Oct. 17-31	3
	{W. Sep. 1-20, Dec. 1-20		Pheasant ♂	Oct. 17-Nov. 28	15
Bear, br. & grz.	Sept. 1-June 30 †	2	Grouse	Oct. 17-Nov. 28	15
Bear, black	{E. Sept. 1-Jan. 20	3	Raccoon	Oct. 17-Dec. 31	20
Caribou	{W. No closed season		Trout	Apr. 16-July 15	10
Mountain goat	Special Zones	2	Lake trout	Apr. 16-Oct. 31	3
Mountain sheep	{E. Aug. 20-Nov. 22	1 ‡	Plokerel	Apr. 16-Feb. 9	6
Rabbit	{W. Sep. 1-Oct. 31		Bass, black	Apr. 16-Feb. 9	6
Grouse & Ptar'g'n	Aug. 20-31 †	1 ‡	Bass, striped	July 1-Oct. 31	10
Trout & grayling	Sept. 1-Mar. 31 †	10	Perch	Apr. 16-Feb. 9	10
	Aug. 20-Jan. 31	10	Salmon, sockeye	Apr. 16-Feb. 9	15
	Aug. 20-Apr. 15	10	Shad	Apr. 16-Aug. 31	5
	†	15 †	Alewives	Apr. 16-July 15	
				Apr. 1-Jun. 15	
<b>Arizona</b>			<b>Delaware</b>		
Elk	Nov. 14-29	1	Rabbit	Nov. 15-Dec. 31	6
Deer	Oct. 23-28 †	1	Squirrel	Sept. 15-Nov. 1	6
Rabbit	No closed season	6	Quail	Nov. 15-Dec. 31	12
Javelina	Feb. 14-28	1	Raccoon }		
Antelope	Sept. 26-29-Oct. 3-6	1	Opossum }	Nov. 1-Jan. 31	
Buffalo	Nov. 10 †		Pheasant	Nov. 15-Dec. 31 ♂	6
Turkey	Oct. 9	1	Bass	June 25-Feb. 1	6
Quail	Nov. 28	10	Pike, pkl., w. eyed pike	June 25-Mar. 1	6
Trout	May 5-Sept. 30		Trout	Apr. 16-Aug. 15	6
Horned Toads	Closed		Shad	Mar. 1-Jun. 10	
<b>Arkansas</b>			<b>Florida</b>		
Deer	{Nov. 8-13 ♂	1	Deer, male	Nov. 20-Jan. 6 † ♂	2
	{Dec. 13-18 ♂		Squirrel	Nov. 20-Feb. 1 †	10
Rabbit	Sept. 15-Jan. 31	8	Quail	Nov. 20-Feb. 1 †	10
Squirrel	Oct. 1-Dec. 31	8	Turkey	Nov. 20-Feb. 1 †	3
Quail	Dec. 1-Jan. 31	8	Bass, black	No closed season	8
Turkey	Apr. 1-10	1	Bream, perch	No closed season	25
Bass, black	May 16-Mar. 16	8	Tarpon	No closed season	
Trout	May 16-Oct. 31	6			
Pike, Jack salmon	No closed season	6	<b>Georgia</b>		
Bream, perch	No closed season	20	Alligators	No open season †	
Lake Bass	No closed season	20	Deer	Nov. 5-20 ♂	1
			Bear	Nov. 20-Feb. 15 †	
<b>California</b>			Squirrel	Sept. 1-Dec. 5	10
Deer	{C.-Aug. 9-Sept. 14	2	Quail	Nov. 25-Feb. 25	15
	{S.-Sept. 20-Oct. 19		Grouse	Nov. 20-Jan. 5	3
Bear	{C.-Aug. 9-Dec. 31	2	Turkey	Nov. 20-Feb. 25 †	2
	{S.-Sept. 20-Dec. 31		Rabbit	No closed season	
Rabbit, Ctn. T.	Nov. 22-Dec. 4	8	Raccoon }		
Rabbit, Jack	Jan. 1-Aug. 31	2	Opossum }	Oct. 1-Feb. 15	
Quail	Nov. 22-Dec. 31 †	2	Bass, striped	No closed season †	10
Pheasant	Nov. 22-Dec. 1 ♂	15	Bass, black	No closed season †	10
Trout (exc. gldn) (Sp. wnter seas.)	May 3-Oct. 31 †	15	Bass, rock	No closed season †	10
Salmon	May 3-Oct. 31 †	15	Bass, Ky. or r.- eye	No closed season †	10
Bass, black	May 3-Feb. 28	5	Bream, perch	No closed season †	25
Sunfish, Perch	May 3-Feb. 28	25	Crappie	No closed season †	15
Striped Bass	No closed season	2			



<b>Georgia (cont.)</b>			<b>Kansas. (cont.)</b>		
Pickrel	No closed season†	15	Rabbit	Dec. 15-Oct. 15	
Wall-eyed pike	No closed season†	3	Bass	May 26-Apr. 24	10
Muskellunge	No closed season†	2	<b>Kentucky</b>		
Trout	Apr. 1-Nov. 15†	10	Rabbit	Nov. 20-Jan. 10	8
Sbad	No closed season†	8	Squirrel	Aug. 20-Nov. 5	6
<b>Idaho</b>			Quail	Nov. 20-Jan. 10	
Moose	By permit	1	Ruffed Grouse	Nov. 20-Dec. 15	10
Deer, elk	Local seasons	1	Bass, black	No closed season	2
Mt. goats, sheep	By permit		Trout	No closed season	10
Quail	Not set		W.-eyed pike, sand pike or sauger	No closed season	10
Pheasant	Not set			15	
Rabbit (Ctut)	Oct. 1-Jan. 31	4	Striped bass	No closed season	10
Hun. partridge	Not set		Crappie	No closed season	15
Sage hen	Not set		Rock bass	No closed season	15
Grouse, other	Not set	2	Muskellunge	No closed season	15
Pheasant	Not set	2			
Rabbit	Oct. 1-Jan. 31	4	<b>Louisiana</b>		
Trout	June 4-Oct. 31	7#	Deer	Nov. 15-Jan. 10 †	1
Black Bass	No closed season	10+	Bear	Closed	1
Sturgeon	No closed season	1	Rabbit	Oct. 15-Feb. 15	5
Bass (1-mouth)	No closed season	10	Squirrel	Oct. 5-Dec. 21	8
Crappie, Perch, Sunfish	No closed season	25	Quail	Dec. 1-Feb. 10	10
		1	Turkey	Closed	1
			Bass, black, yel., white	No closed season	15
			Crappie	No closed season	25
			Sunfish	No closed season	50
Bass (s-mouth)	Not set		<b>Maine</b>		
Salmon (steelhd.)	June 4-Oct. 31	2	Deer	Oct. 21-Nov. 30†	1
<b>Illinois</b>			Bear	No closed season	
Rabbit	Nov. 11-Jan. 15	5	Rabbit	Oct. 1-Feb. 28†	4
Squirrel	Special zones	5	Squirrel	Oct. 1-Oct. 31	4
Quail	Nov. 11-Dec. 11	10	Pheasant	Oct. 1-Nov. 15	2
Pheasant	Nov. 11-Nov. 25†	2	Grouse	Oct. 1-Nov. 15	4
Bass, black	No closed season	10	Salmon, togue(a)	Ice out-Sept. 30	25
Bass (rk., wrnth. wh., yel.)	No closed season	50	Salmon, togue(b)	Ice out-Sept. 15	25
crappies, sunf., blue-gills	No closed season	(75 in ag-g.)	Salmon, togue(c)	Ice out-Aug. 15	25
Buffalo, bullhd., catf., carp, shphd.	No closed season		Trout(a)	Ice out-Sept. 30	25
Trout	Apr. 1-Sept. 30	8	Trout(b)	Ice out-Sept. 15	25
Perch	No closed season		Trout (c)	Ice out-Aug. 15	25
Pickrel	May 1-Nov. 30	8	Wh. perch(a)	Ice out-Sept. 30	25
Wall-eyed pike	May 1-Feb. 15	8	Wh. perch(b)	Ice out-Sept. 15	25
Bass, S.M.	Special zones	10	Wh. perch(c)	Ice out-Aug. 15	25
			Black bass(a)	June 21-Sept. 30	10
			Black bass(b)	June 21-Sept. 15	25
			Black bass(c)	June 21-Aug. 15	25
			Black bass (dy)	June 1-20	3
Lake tr., white-fish	No closed season		Pickrel	No closed season	10†
<b>Indiana</b>			a-Lakes & ponds		
Rabbit	Nov. 10-Jan. 10	5	b-Rlv. abv. tidewtr.		
Squirrel	Not set	5	c-Brooks, streams		
Quail	Nov. 10-Dec. 20	10	<b>Maryland</b>		
Pheasant	Dates not set		Deer	Dec. 3-8 ♂†	1
Hun. partridge	Nov. 10-Dec. 20	5	Squirrel	Oct. 10-31	6
Bluegill, rd.-eared sunf., crappie	No closed season	25 in ag-g.	Quail	Nov. 15-Dec. 31†	6
Rock bass	June 16-Apr. 30	6	Grouse	Nov. 15-Dec. 31†	2
Bass, silv. or yel., bl., Ky., wh. or str.	June 16-Apr. 30	6 in ag-g.	Pheasant	Nov. 15-Dec. 31† ♂	2
			Turkey	Nov. 15-Nov. 30†	1
			Trout	Apr. 15-Sept. 15	5
			Bass-non-tdl.	July 1-Nov. 30	10
Pike-perch	June 16-Apr. 30	6	Str. (rek.) bass, non-tdl. wtrs.	June 1-Nov. 30	10
Pike or pickerel	June 16-Apr. 30	6	Wall-eyed pike	Apr. 1-Nov. 15	10
Yellow perch	June 16-Apr. 30	6	Pike, pickerel	June 1-Nov. 30	10
Trout	May 1-Aug. 31	15	Perch	No closed season	15
Chan. catfish	No closed season		Catfish	Feb. 15-Nov. 30†	10
			Herring	Mar. 15-Jun. 20	10
			Shad	Mar. 15-Jun. 20	10
<b>Iowa</b>			<b>Massachusetts</b>		
Rabbit	Not set	10	Deer	Dec. 3-8	1
Squirrel	Not set	6	Hare	Oct. 20-Feb. 5	2
Pheasant	Not set	2	Rabbit, (Ctnt)	Oct. 20-Feb. 5	5
Quail	Not set	8	Squirrel	Oct. 20-Nov. 20	5
Hungarian partridge	Date not set		Quail	Oct. 20-Nov. 20†	4
Trout	May 1-Nov. 30	8	Grouse	Oct. 20-Nov. 20	2
Northern pike	May 15-Feb. 15	5	Pheasant	Oct. 20-Nov. 20 ♂	2
Bass	May 30-Feb. 15	5	Bass	July 1-Feb. 15	5
Pike, sand or saug., w.-eyed	May 15-Feb. 15	8	Pike	Apr. 15-Feb. 15	5
Bullheads	No closed season	25	Muskellunge	Apr. 15-Feb. 15	5
Yell. perch, and bass, yellow str., silver	May 15-Feb. 15	15	Pickrel	Apr. 15-Feb. 15	10
Crapp., cal. bass	No closed season	15	White perch	Apr. 15-Feb. 15	15
Catfish	Apr. 15-Nov. 30†	8	Salmon	Apr. 15-July 31	5
			Trout	Apr. 5†	12
<b>Kansas</b>			Bluegls., cal. bass, crappie, hrnd. pout, sunfish, yel. perch.	Apr. 15-Feb. 15	20
Squirrel	June 15-Nov. 30	8			
Quail	Not set				
Pheasant	Not set				

<b>Michigan</b>			<b>Nebraska</b>		
Bear	Nov. 15-30†	1	Deer	Special permits	1
Rabbit	Oct. 1-Mar. 1†	5	Quall	Nov. 1-25†	7
Deer	Nov. 15-30†	1	Rabbit	Sept. 25-Jan. 31	
Grouse, prairie chicken	Oct. 1-Nov. 10†	5	Squirrel	May 1-Dec. 31	10
Pheasant	Oct. 1-10	1	Pheasant	{Oct. 1-Dec. 31	5
Squirrel	Oct. 1-20†	2	Grouse	{Oct. 26-Nov. 25 ♂†	5
Trout	Apr. 5-Sept. 3	5	Trout	Nov. 10-12†	2
Lake Trout	No closed season	2	Bass, black	No closed season	
Black Bass	No closed season	5†	Crappie, sunf., rock bass	No closed season†	10
No. pike, pk. pch.	Apr. 25-Mar. 15	5	Bullheads	No closed season†	15
Muskellunge	Apr. 25-Sept. 13	25	Catfish	No closed season†	10
Crappie, whtf.	No closed season	10	Perch	No closed season†	25
White bass	No closed season		Pike, w.-eye, saug. no'thn.	No closed season†	5
Crappie, rk. bass, yel. pch. bluegills, sunfish	No closed season	25†	Muskkrat, Mink	1. Dec. 15-Mar. 15	
Whitefish	No closed season	7		2. Nov. 15-Jan. 15	
Sturgeon	Apr. 25-Sept. 13	2	<b>Nevada</b>		
<b>Minnesota</b>			Antelope	Not set	1
Deer (Bow and Arrow)	Not set	1	Deer	Not set	1
Deer	Not set	1	Rabbit	Not set	
Bear	Not set		Quall	Dates not set	
Squirrel	Not set	7	Pheasant	Dates not set	
Quall	Not set	10	All game fish	Local seasons	15
Pheasant	Not set	3	<b>New Hampshire</b>		
Rabbit	Not set	15	Deer	{North—Nov. 1-30	1
Raccoon	Not set		Bear	{South—Dec. 1-21	
W.-eyed pike, saugers, gt. no. pike, pickerel	May 12-Feb. 15†	8	Rabbit, hare	No closed season	3
Muskellunge	May 16-Feb. 15†	2	Squirrel	Oct. 1-Mar. 1	5
Bass	June 20-Nov. 30†	6	Quall	Oct. 1-Nov. 1	
Trout	May 1-Sept. 5†	15	Pheasant	No open season	25
Lake Trout	{May 2-Sept. 25	5	Grouse	Oct. 1-Dec. 1	10
	{Jan. 2-Feb. 15		Trout, brook	Oct. 15-Nov. 16 ♂†	10
Crappies, sunfish wh. & rk. bass	May 16-Feb. 15†	15	Lake Trout	May 1-Aug. 31	2
Catfish	May 16-Feb. 15†	10	Lake Trout (fly)	Jan. 1-Sept. 30†	2
Bullheads	May 16-Feb. 15†	50	Salmon	September	4
Whitefish	May 16-Feb. 15†		Trout, golden	Apr. 1-Aug. 31	5#
Buffalo	May 16-Feb. 15†		Bass	July 1-Oct. 31†	
			Pike-perch	May 28-Oct. 31†	
			Pickrel	May 28-Jan. 31	10#
			Mink, otter muskrat	Nov. 1-Feb. 1	
<b>Mississippi</b>			<b>New Jersey</b>		
Deer	Nov. 20-30†	1	Deer		1
Bear	No open season		Archery		
Rabbit	Any open season	5	Rabbit, squirrel	{Not available	6
Squirrel	Oct. 7-Dec. 31	5	Quall		10
Quall	Dec. 10-Feb. 10†	8	Grouse		3
Turkey	Apr. 1-10	1	Pheasant		50
Bass	No closed season	15	Trout	Apr. 11-Sept. 30	8
Crappie	No closed season	15	Salmon	Apr. 11-Sept. 30	2
White perch	No closed season	20	Pike, pick'l, pike-perch	May 20-Nov. 30	10
Sunfish	No closed season	25	Bass, bl. Oswego	Jan. 1-31	
<b>Missouri</b>			Calico, rock bass	June 15-Nov. 30	5
Deer	Not set (res. only)	1	crappie,	No closed season	
Rabbit	{May 30-Oct. 31		Bass, striped	Apr. 1-Nov. 30	10
	{Nov. 10-Feb. 28		Wh., yel. pch., catf., sunf.	No closed season	10
Squirrel	Nov. 10-30	6	<b>New Mexico</b>		
Quall	Nov. 10-Dec. 31	10	Deer	Nov. 7-18	
Stizostedion	May 30-Nov. 30	4	Elk	Nov. 21-29 ♂	
Micropterus	May 30-Nov. 30	6	Bear	{Oct. 1-Nov. 3	
Salmo and salvellinus	Mar. 1-Nov. 30	6	Antelope	{Nov. 19-30	
Roccus & morone	Mar. 15-Nov. 30	9	Turkey	Shooting by permit† ♂	
Ambloplites	Mar. 15-Nov. 30	9	Squirrel	Nov. 7-Nov. 18†	
Chaneobryttus	Mar. 15-Nov. 30	12	Trout	Nov. 7-Nov. 18	
Pomoxis	Mar. 15-Nov. 30	12		{N. May 25-Oct. 31	
Ictalurus	Mar. 15-Nov. 30	6	Bass, pike pch. Chan. catf. Crappie	{S. May 1-Oct. 31	
Lepomis pallidus†	Mar. 15-Nov. 30	12	Sunf., ring pch. and bream	{Apr. 1-Mar. 31	
<b>Montana</b>			Bullhd., yel. and mud catfish	{No closed season	
Antelope	Sept. 5-Nov. 16†	1	<b>New York</b>		
Deer	By permit	1	Deer	Oct. 25-Nov. 30† ♂	1
Bear	Oct. 15-Nov. 15† ♂	1†	Bear	Oct. 25-Nov. 30†	1
Elk	Apr. 15-Nov. 15†	1†	Rabbit	By dept. order	6†
	Sept. 15-Feb. 28†		Squirrel	Oct. 17-Nov. 21	5
	Sept. 15-Dec. 15†		Quall	Nov. 1-15	4†
Moose	By permit	1	Grouse	Not set	2
Goat	Local seasons	1†	Pheasant ♂	Not set	1
Grouse			Raccoon	{N. Oct. 25-Jan. 1	
Quall, turkey				{S. Oct. 29-Nov. 4	
Sage hen	{Dates not set				
Hun. partridge					
Pheasant					
All game fish	May 16-Nov. 15	15			

<b>N. Y. (cont.)</b>					
Black bass	July 1-Nov. 30†	6			
Striped bass	No closed season				
Muskellunge	July 1-Dec. 1†	†			
Salmon, Idleokd.	Apr. 1-Sept. 10	2			
Salmon, chinook	Apr. 1-Sept. 10	3			
Pike-perch	May 1-Mar. 1†	10†			
Pickeral	May 1-Mar. 1†	10†			
Gt. no'n. pike	May 1-Mar. 1†	10†			
Trout, brk., br., r'bow	Apr. 10-Sept. 30	10†			
Lake trout	Apr. 1-Sept. 10	3†			
Bullheads	No closed season†	†			
Whitefish	Apr. 1-Sept. 10†	†			
Perch, white	No closed season	25†			
Perch, yellow	No closed season†				
<b>Long Island</b>					
Squirrel	Nov. 1-Dec. 31	-5			
Grouse	Not set	2			
Pheasant	Nov. 1-Dec. 31	4			
Quall	Nov. 1-Dec. 31	4			
<b>North Carolina</b>					
Deer	Oct. 15-Jan. 1†	1			
Bear	Oct. 15-Jan. 1	2			
Rabbit	Nov. 26-Jan. 30	5			
Pheasant	Nov. 2-Jan. 30	8			
Squirrel	Oct. 15-Jan. 1	8			
Quall		8			
Grouse	Nov. 26-Jan. 30	2			
Turkey		1			
Wild boar		1			
Raccoon	Oct. 15-Jan. 1	10			
Trout	Oct. 15-Feb. 15	10			
Bass, black	Apr. 15-Aug. 31	8			
Pike, walleyed	No closed season	5			
Bass, striped	No closed season	8			
<b>North Dakota</b>					
Deer	Not set	1			
Sharptall	Not set	3			
Pln'd grouse					
Sage & ruffed grouse; part'ge	Dates not set				
Pheasant	Not set	4			
Bass	June 16-Oct. 31	5			
Wall-eyed pike, northern pike	May 16-Oct. 31	5			
Sunfish	May 16-Feb. 28	15			
Trout, Salmon	May 2-Sept. 30	5			
Perch, Crappie	May 16-Feb. 28	5			
<b>Ohio</b>					
Deer	Not set	1			
Rabbit	Not set	4			
Squirrel	Not set	4			
Pheasant	Not set	4			
Hun. partridge	Not set				
Grouse	Not set	2			
<b>INLAND DIST.</b>					
Muskellunge	No closed season†	2			
Wall-eyed pike	No closed season†	6			
Sauger	No closed season†	6			
Trout	No closed season†				
Bass	No closed season†				
<b>LAKE ERIE DIST.</b>					
Muskellunge	No closed season†				
Wall-eyed pike	No closed season†				
Sauger	No closed season†				
Trout	No closed season†				
Bass	No closed season†				
<b>Oklahoma</b>					
Deer	Not set	1			
Squirrel	May 15-Jan. 1	10			
Quall	Inter. (Nov.-Jan.)	10			
Pheasant	Not set				
Bass	No closed season†	10			
Chan. catfish	No closed season†	15			
Crappie	No closed season†	15			
Trout	No closed season				
<b>Oregon</b>					
Deer	Not set	1			
Elk	Not set	1			
Antelope	Not set	1			
Squirrel	Not set	5			
Quall	Not set	5			
Blue Sage Hen	Not set	2			
Grouse, other	Not set	5			
Pheasant	Not set	2			
Hun. partridge	Not set				
Trout, salmon, steelhead.	Apr. 18-Oct. 11	10			
<b>Oregon (cont.)</b>					
less than 20"					
Bass, black;					
Perch, crappie, catf., sunf., bream, pike	No closed season			30	
Str. bass, Shad	No closed season			15	
	No closed season			1	
<b>Pennsylvania</b>					
Deer, female	No open season				
Deer, 2 pt. ant.	Nov. 30-Dec. 12			1	
Deer, no ant.	Not set				
Bear	Nov. 16-21			1	
Rabbit, Cttl.	Oct. 31-Nov. 28			4	
Raccoon	No closed season				
Squirrel	Oct. 31-Nov. 28			5	
Quail, Bbwht.	Closed			4	
Grouse, Rfd.	Closed			3	
Pheas'nt,rgnk.m.	Oct. 31-Nov. 28			2	
Turkey	Oct. 31-Nov. 28†			1	
Partridge, Hun.	Closed				
Hare, snshoe	No closed season			6	
Trout	Apr. 15-Jul. 31			10	
Trout, lk. or sal.	Apr. 15-Nov. 30			8	
Bass	Jul. 30-Nov. 1			6	
Pike-perch				6	
Pickeral				6	
Yell. pch., rock bass, str. or cal. bass, wh.; crappie, sunf., catf., suckers, carp	No closed season				
	No closed season			15	
<b>Rhode Island</b>					
Rabbit	Nov. 1-Dec. 31†			5	
Hare	Nov. 1-Dec. 31			2	
Squirrel	Nov. 1-Dec. 31			5	
Quail	Nov. 1-Dec. 31			6	
Grouse	Nov. 1-Dec. 31†			2	
Pheasant	Nov. 1-Dec. 31 ♂			3	
Bass	June 20-Feb. 20†			6	
Pickeral	June 20-Feb. 20†			10	
Trout	Apr. 10-July 15†			10	
Striped bass	No closed season				
Perch, white	Apr. 15-Feb. 20			20	
Perch, yellow	Apr. 15-Feb. 20			30	
All fresh water fishing closed					
er fishing closed					
Apr. 14, incl.					
<b>South Carolina</b>					
Deer	Nov. 15-22† ♂			1	
Rabbit	Nov. 24-Feb. 15				
Squirrel	Oct. 15-Jan. 31				
Quall	Nov. 24-Feb. 15				
Turkey	Nov. 23-Mar. 1			5	
Trout, speckled	Jan. 1-Oct. 1			20	
Trout, rainbow	Jan. 1-Oct. 1			20	
Bass	No closed season†			8†	
<b>South Dakota</b>					
Deer	Not set			1	
Grouse, prairie chicken	Not set			3	
Pheasant	Not set			4	
Hun. partridge					
Trout	May 1-Feb. 28†			10	
Bass, w.-eyed pike, pickeral	May 1-Feb. 28†			6	
Bluegills	May 1-Apr. 30			15	
Bullheads, pch.	May 1-Feb. 28			50	
Crappies, sunf.	May 1-Feb. 28†			15	
<b>Tennessee</b>					
Deer	Nov. 16-21 ♂†			1†	
Bear	Oct. 12-Dec. 2†			1	
Rabbit	Nov. 26-Jan. 15			5	
Squirrel	Sept. 1-Dec. 1			6	
Quail	Nov. 26-Jan. 15			6	
Grouse	Nov. 26-Jan. 25			3	
Wild boar	Oct. 12-Dec. 2			1†	
Turkey	Apr. 12-27†			1	
Trout	Mar. 1-Oct. 1			7	
Bass	No closed season			10	
Raccoon	Nov. 15-Jan. 25				
Opossum	Nov. 15-Jan. 25				
Red fox	Nov. 15-Jan. 25				
Rock bass	May 30-Mar. 31			10	
White, str. bass	No closed season			30	
Yellow bass or jacks	No closed season			30	
Warmouth bass	No closed season			30	

<b>Tenn. (Cont.)</b>			<b>Washington</b>		
Bluegill bream	No closed season	30	Deer	Oct. 11†	1
Catfish	No closed season		Bear	Oct. 11†	1
Buffalo	No closed season		Elk	Nov. 1-11 ♂	1
			Mt. Goat	Sept 13-30†	1
<b>Texas</b>			Rabbit	(W. Oct. 11-Mar. 31 E. Oct. 11-Feb. 28)	5
Antelope	Closed		Grouse	Sept. 19, 20, 26, 27 Oct. 1-25	3
Deer	Nov. 16-Dec. 31† ♂	2	Quail	Oct. 11-Nov. 15	3
Bear	Nov. 16-Dec. 31	1	Pheasant	Oct. 11-Nov. 15	3
Peccary	Nov. 16-Dec. 31†	2	Hungarian partridge	Oct. 11-Nov. 15	5
Squirrel	May 1-Dec. 31†	10	Whitefish	Dec. 6-Feb. 28†	15
Chachalaca	Dec. 1-Jan. 16	5	Trout	County seasons	15
Quail	Dec. 1-Jan. 16†	12			
Turkey	Nov. 16-Dec. 31† ♂	3	<b>West Virginia</b>		
Bass, bl., sp'ted	No closed season	15	Deer	Nov. 30-Dec. 2	1
White bass	No closed season	25	Rabbit	Nov. 11-Jan. 2	4
Trout	No closed season	5	Pheasant	Nov. 11-14 ♂	2
Crapple	No closed season	25	Raccoon	Nov. 2-Jan. 9	2
Catfish	No closed season	25	Bear	Nov. 2-26, Dec. 7-26	1
			Squirrel	Oct. 1-14, Nov. 11-28	4
<b>Utah</b>			Quail	Nov. 11-Jan. 2	7
Antelope	Not set	1	Grouse	Oct. 1-14-Nov. 11-28†	4
Deer	Not set	1	Turkey	Oct. 1-14, Nov. 11-28†	1
Bobcat, coyote, fox, lions	No closed season		Trout, rnbw., brown bk.	Apr. 25-Sept. 7	10
Elk (By permit)	By permit		Bass	June 1- Mar. 13	8
Blson	By permit		Pickrel	No closed season	
Grouse, sage hen, prairie chicken	By permit		Muskellunge, w. eyed pike	No closed season	
Pheasant	Not set	3†	Rk. bass, crapple, sunt., bluegill	No closed season	
Quail		10	Catfish	No closed season	
Bass	June 6-Oct. 11†	12	Perch	No closed season	
Trout	June 6-Oct. 11†	12			
Salmon	June 6-Oct. 11†	12			
			<b>Wisconsin</b>		
<b>Vermont</b>			Deer	Nov. 22-28	1
Deer	Nov. 14-27 ♂†	1	Raccoon	Oct. 4-Dec. 20	
Squirrel	Oct. 1-Oct. 31	4	Rabbit	Oct. 4-Jan. 15	6
Rabbit	Oct. 1-Feb. 28	3	Squirrel	Oct. 8-Dec. 20	5
Quail	No open season		Grouse	Oct. 4-Nov. 16	5
Grouse	Oct. 1-Oct. 31	4	Pheasant	Oct. 18-Nov. 11	4
Pheasant	No open season		Hun. partridge	Closed	
Bear	June 1-Dec. 31		Quail	Oct. 18-Nov. 11	5
Trout	May 1-Aug. 14	12	Bass, black	June 20-Jan. 15	5
Lake trout, salmon	May 1-Aug. 31	2	Trout	May 2-Sept. 7	10
Bass	July 1-Nov. 30	5	Lake trout	Apr. 1-Sept. 30†	5
Muskellunge	June 15-Apr. 14	25#	Wall eyed pike, sauger	Apr. 1-Jan. 31	5†
Pike-perch	May 1-Mar. 14	25#	No. pike, pick'l	Apr. 1-Jan. 31	5†
Pickrel	May 1-Mar. 14	25#	Muskellunge	May 25-Nov. 1	1
Smelt	June 1-Mar. 31		Bass, other	No closed season	25
			Catfish	No closed season	5
<b>Virginia</b>			Sturgeon	No closed season	25
Deer	Nov. 20-Jan. 5† ♂	1	Other panfish	No closed season	25†
Bear	Nov. 16-Jan. 1†	1			
Fox	No closed season		<b>Wyoming</b>		
Rabbit	Nov. 15-Jan. 31†	75	Deer	Local seasons† ♂	1
Squirrel	E. Nov. 20-Jan. 20	125	Moose	Local seasons ♂	1
Quail	(E. Nov. 20-Jan. 20 W. Nov. 20-Jan. 5)	15 20	Elk	Local seasons† ♂	1
Grouse	Nov. 20-Jan. 5	4	Bear	Local seasons	1
Pheasant	Nov. 20-Jan. 5	8	Sheep	Local seasons† ♂	1
Turkey	Nov. 20-Jan. 5		Antelope	Local seasons†	2
Bass	(W. June 20-Dec. 31. E. June 1-Mar. 15)	8 8	Pheasant	Not set	
Trout	May 1-Sept. 15	8	Brook trout	May 1-Oct. 31	20
Pike	(W. Same as bass E. June 1-Mar. 15)	20 20	Other trout	May 1-Oct. 31†	12
Crapple	No closed season		Grayling	May 1-Oct. 31†	20
Bream	No closed season	25	Bass	May 1-Oct. 31†	20
			Whitefish	May 1-Oct. 31†	20

## 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, 1933, by the Fish and Wildlife Service, U. S. Dept. of Interior, Chicago 50, Illinois. The 1950 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. 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.

## New Game Laws

The following new game laws should be put in force at once:

Book agents may be killed from Oct. 1st to Sept. 1st; spring poets from March 1st to June 1st; scandal mongers from April 1st to Feb. 1st; umbrella borrowers from Aug. 1st to Nov. 1st, and from Feb. 1st to April 1st; while every man who accepts this almanac(k), but when the bill is presented, says, "I never ordered it", may be killed on sight without reserve or relief from valuation or imprisonment, and buried, face downwards, without the benefit of the clergy.

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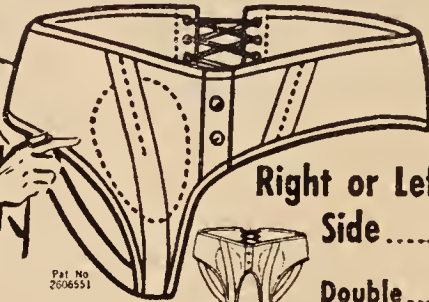
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## GESTATION AND REPRODUCTION TABLE

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

## REPRODUCTIVE CYCLE IN FARM ANIMALS

*Courtesy F. N. Andrews — Purdue University*

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





# County Kitchens Cook Book

"Of helpful lore, a goodly store  
Contrived and practised oft before."

Over 300 favorite recipes old and new from the kitchens of Hartford County, Conn.

**\$1.70 postpaid**

Send check or money order to

**HARTFORD COUNTY Y.W.C.A.**

65 Wethersfield Ave., Hartford 6, Conn.

## FEEL OLD? KNEES CREEK? JOINTS ACHE?

Try Bradfords Rheumatic Tablets.  
Sold for years to satisfied customers.

**75c Postpaid**

**GORDON'S DRUGS**

13 Clinton Ave., Cortland, N. Y.

## WANTED TO BUY OLD MECHANICAL PENNY-BANKS!

Toy, iron banks of animals or people having action when coin inserted (comic). Made about 1880. Describe fully and state price.

"PENNY-BANK COLLECTOR"

526 E. Riverside, Evansville 13, Ind.

## IF NATURE SLEEPS

Take "O.S.R." if you lack Pep, Vitality, Natural desires for fun. If you have pains, aches, coated tongue, bad skin, it may be due to faulty elimination. **HELP NATURE** with O.S.R. Herb Tablet and love life again. Pay postman \$1.50 for 148 tablets or send only \$1.00 now and save 50c. Write today

**STANDARD REMEDY COMPANY**

Dept. OF1 Baltimore 2, Maryland

# LADIES' 20 DRESSES FOR \$3.50



**Ladies, SKIRTS**  
69c each  
3 for \$1.79

Full assortment of colors and styles. All Wools, pleids and Millines.

## BIG DRESS SALE

ASSORTED in Silk, Wool, Cotton & Rayon.

★ ALL SIZES in Good Condition  
BUT NO LESS THAN 20 DRESSES  
AT THIS BARGAIN PRICE

★ **FREE!**

With \$5.00 Order or More 1 Pair of Ladies' Hose MONEY BACK IF NOT SATISFIED. \$1.00 Deposit MUST come with order. You pay postman balance plus COD and postage charges. NO ORDER ACCEPTED FOR LESS THAN \$3.00. A TRIAL ORDER WILL CONVINCE YOU OF OUR WONDERFUL BARGAINS.



**ORDER NOW**



**Ladies' BLOUSES**  
39c each  
5 for \$1.69

Assorted colors and styles in Silks, Crepes, Rayons, Acetates



**Ladies' SHOES**  
99c pair  
3 for \$2.69

Good quality Leathers and Fabrics. WILL GIVE MANY MONTHS OF GOOD WEAR



## RUSH YOUR ORDER TODAY!

**MAIL ORDER MART Dept. OF**  
160 Monroe Street New York 2, N.Y.

Please send me the following items, \$1.00 deposit enclosed.

ITEM	SIZE	PRICE

Give Hose size - if Order is \$5.00 or more.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

\*No Order accepted without \$1.00 deposit  
Canada & Foreign - Full Payment with Order



**QUILT PIECES**  
3 lbs. - 99c

Large bundle of beautiful new cotton prints, checks, stripes and solids. All good size cuttings



**Ladies' COATS & TOPPERS**  
\$1.29 each  
2 for \$2.39

Real Bargain in fine wool materials. Need slight repairs for best selection order at once





**Ladies' Winter COATS**  
\$1.89 each  
2 for \$3.39

All sizes with or without fur collars. These are in excellent condition, slight repairs needed.



**Ladies' SLIPS**  
49c each  
5 for \$2.29

Beautiful, well tailored slips that really give you value for your money.



**ORDER NOW FOR BEST SELECTION.**

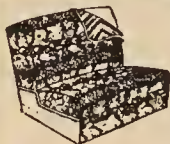
## \$\$--BELIEVE IN LUCK?--\$\$



Carry a pair of GENUINE BRAHMA RED LIVE HIGHLY MAGNETIC LODESTONES! Legend repeats, Oo-ouit Oriental ancients superstitiously carried two Live Lodestones as MOST POWERFUL MAGNETIC "LUCKY" CHARMS, one to "attract" Good Luck in Money, Games, Love, Business, Work, etc., the other to "prevent" Bad Luck, Harm, etc. Believe in Luck?

Losses, Evil, Trouble, Carry a Pair of these curious Genuine Brahmapurush Live Lodestones! We make no supernatural claims. \$1.97 Postpaid for the two, with all information, 28c extra if C.O.D. Send \$1.97 and save 28c. Satisfaction GUARANTEED or Money Returned. Order yours NOW! ASTROL CO., Dept. ST-8, Main P. O. Box 72, BROOKLYN, N. Y.

NOTICE! Beware of imitations! We absolutely GUARANTEE these Genuine Brahmapurush Lodestones are ALIVE! We believe they are just what you want, the REAL THING--POWERFUL DRAWING, EXTRA HIGHLY MAGNETIC! Fully Guaranteed! Copyright '37-A. Co.



## REVERSIBLE AUTO SEAT COVERS

Made of FLEXTON plastic.  
Choice of: SNAKE-ZEBRA DESIGN  
or LEOPARD-COWHIDE DESIGN

Each Only

**\$2.98**

### ORDER FROM MFR. AND SAVE

Colorful SNAKE AND ZEBRA DESIGN And LEOPARD - COWHIDE DESIGN. Can Be Used On Either Side. Water And Stainproof. Tailored With Side Grip Panels For Tight Fit. Sewn With NYLON

Thread For Long Wear. Simple To Install. Dress Up Your Car With These Colorful Expensive Looking Covers!

### 10 DAY MONEY BACK GUARANTEE

Choice Of SPLIT Or SOLID Front Seat Only \$2.98. Complete Set for Both Front & REAR ONLY \$5.00. Specify Design Wanted. Make Of Car And Seat Style. Enclose Payment And Save Postage Or Sent C.O.D.

MARDO SALES CORP. Dept. DS-386  
480 Lexington Ave., New York 17, N. Y.

Send now!  
for **NEW CROP CATNIP** 

### GENEROUS BOUQUET

OF LOFT-DRIED, GUARANTEED AROMATIC NEW CROP CATNIP from the FAMED FINGER LAKES COUNTRY--best for quality catnip!  
YOUR KITTY LOVES IT!

Send only 35¢ a bouquet - 4 bouquets \$1.00  
ALL PREPAID. CATNIP KING BOX 665-Y  
NO STAMPS! DEALERS, INQUIRE! ITHACA, N.Y.

## NEW TOWELS

LARGE SIZE 12 for \$1.00  
ASSORTED COLORS

Slightly Irregular, that's why this price is so low but GUARANTEED to please you in EVERY way--or your money cheerfully refunded! Order NOW! Prepaid or C. O. D.

BARGAIN TOWEL CO., Dept 230 Box 881, St. Louis 1, Mo.

## ALL TIME-ALL AMERICA VEGETABLE SELECTION

Sprinkled across America in every climate zone and geographical area are some sixty "All-America" gardens. Seedsmen, horticulturists, and others contribute to these gardens annually. Resident judges determine what awards, if any, are to be made to outstanding entries of the year.

"Royal Carpet" Alyssum and "Comanche" Petunia won the 1953 floral awards. "Chrysler Imperial" and "Ma Perkins" were chosen among the rose entries. No vegetable was chosen. However, the judges were asked to vote on their preferences among all the vegetable entry winners of previous years back to 1933 and as a result of this vote, a list of twelve "All Time-All America Selections" was announced on January 1, 1953. These are listed in the order of number of votes received . . . make an excellent guide for anyone planning his or her backyard or farm garden.

Lima Bean, Fordhook 242.  
Squash, Early Pro-life Straightneck.  
Beet Perfected Detroit.  
Carrot, Imperator.  
Radish, Cherry Belle.  
Snap Bean, Toperop.  
Cucumber, Early Suncrop, Hybrid.  
Spinach, American.  
Tomato, Pritchard.  
Lettuce, Greatholus.  
Sweet Cormloehlef, Hybrid.  
Cabbage, Chieftain, Savoy.

Seeds for these selections, and/or, the 1954 winners (announced Jan. 1, 1954), may be ordered from any reliable seedman.

# POSTAL RATES.—DOMESTIC

July 10, 1953:

These rates take into account certain increases effective October 1, 1953, but the Bureau of Postoffice Operations advises no assurance that additional increases will not be legislated between now and Jan. 1, 1954—*for the year 1954, on all classes of mail.*

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

## LETTERS AND POSTAL CARDS.—FIRST CLASS.

Letters and Written and Sealed Matter, 3 cents for each ounce, local and non-local, except that drop letters are subject to 2 cents for each ounce when deposited for local delivery at offices not having letter-carrier service, provided they are not collected or delivered by rural or star-route carriers.

Postcards and Private Mailing Cards (not larger than  $3\frac{1}{2}$  by  $5\frac{1}{2}$ )..... .02

Government Postal Cards, each..... .02

Stamped 3 cent Envelopes, one, 4 cents; 25 small, 87 cents; 25 large, 92 cents.

Business Reply Cards, 3 cents. Business Reply Envelopes, 4 cents each.

## NEWSPAPERS AND PERIODICALS.—SECOND CLASS.

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

## MERCHANDISE AND MISCELLANEOUS.—THIRD CLASS.

(Limit of weight 8 ounces.)

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

Identical pieces of third-class matter may be mailed under permit in bulk lots of not less than either 20 pounds or 200 pieces, at the rate of 14 cents a pound, or fraction thereof. In case of circulars, miscellaneous printed matter, and merchandise, 10 cents a pound, or fraction thereof, in the case of books or catalogs having 24 pages or more, seeds, plants, etc., with a minimum charge of  $1\frac{1}{2}$  cents a piece in either case. Apply to postmaster for permit. The bulk mailing fee is \$10 per calendar year.

Minimum charge for pieces of odd size or form, 3 cents.

Books, catalogues mailed in packages not exceeding 8 oz. in weight (must be of 24 or more pages and substantially bound, with at least 22 pages printed, seeds, cuttings, bulbs, roots, scions and plants, 2 ounces or fraction 2 cents, each added ounce  $1\frac{1}{2}$  cents.

Circulars and other miscellaneous printed matter, also merchandise, 2 cents for the first 2 ounces and 1 cent for each additional ounce. Limit eight ounces.

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

ZONES	Local	1st and 2nd	3rd	4th	5th	6th	7th	8th
1st Lb.	10c	11c	12c	13c	15c	16c	17c	18c
Each Add. Lb.	$1\frac{1}{2}$ c	$2\frac{1}{2}$ c	3c	4c	$5\frac{1}{2}$ c	7c	9c	11c

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

Books: 8 cents for the first pound or fraction thereof and 4 cents for each additional pound or fraction thereof—24 or more pages permanently bound, not to exceed 70 pounds in weight. May include 1 or 2 pages only incidental advertising.

Library Books: 4 cents for the first pound or fraction thereof and 1 cent for each additional pound or fraction thereof—limit of weight 70 pounds—when sent by public libraries, organizations, or associations not organized for profit 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 books and printed matter, except First Class and newspapers and other periodicals entered as Second Class matter mailed by the publishers:—

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

Weight in Pounds	LOCAL	1-2 Up to 150 miles	3 150 to 300 miles	4 300 to 600 miles	5 600 to 1000 miles	6 1000 to 1400 miles	7 1400 to 1800 miles	8 Over 1800 miles
1	\$0.18	\$0.23	\$0.23	\$0.24	\$0.26	\$0.28	\$0.30	\$0.32
2	.20	.27	.29	.31	.36	.40	.46	.51
3	.21	.31	.34	.38	.45	.52	.61	.69
4	.23	.35	.39	.45	.54	.64	.76	.87
5	.24	.39	.44	.52	.63	.76	.91	1.05
6	.26	.43	.49	.59	.73	.88	1.06	1.23
7	.27	.47	.54	.66	.82	1.00	1.22	1.41
8	.29	.51	.60	.73	.91	1.12	1.37	1.59
9	.30	.55	.65	.80	1.00	1.24	1.52	1.77
10	.32	.59	.70	.87	1.10	1.36	1.67	1.95
11	.33	.63	.75	.93	1.19	1.48	1.82	2.13
12	.34	.67	.80	1.00	1.28	1.60	1.98	2.31
13	.36	.71	.85	1.07	1.37	1.72	2.13	2.49
14	.37	.75	.90	1.14	1.47	1.84	2.28	2.67
15	.39	.79	.96	1.21	1.56	1.96	2.43	2.85
16	.40	.83	1.01	1.28	1.65	2.08	2.58	3.03
17	.42	.87	1.06	1.35	1.74	2.20	2.74	3.21
18	.43	.91	1.11	1.42	1.84	2.32	2.89	3.39
19	.45	.95	1.16	1.49	1.93	2.44	3.04	3.57
20	.46	.99	1.21	1.56	2.02	2.56	3.19	3.75

(Continued on Page 98)

POSTAL RATES (Continued from Page 97)  
SPECIAL CLASSES. — DOMESTIC MAIL.

**Special Delivery: First Class Mail:** Each piece under 2 lbs.—20c; over 2 up to 10—35c; over 10 lbs.—50c.

**Parcel Post:** Up to 2 lbs.—35c; over 2 up to 10—45c; over 10 lbs.—60c.

**Special Handling: Parcel Post only:** Up to 2 lbs.—15c; over 2 lbs. up to 10—20c; over 10 lbs.—25c.

(This service expedites mail but does not include special delivery.)

**Registered Mail:** 30c minimum; up to \$5.00 indemnity—40c; over \$5.00 up to \$25.00—55c; over \$25.00 up to \$50.00—65c; over \$50.00 up to \$75.00—75c; over \$75.00 up to \$100.00—85c.

There are special surcharges when declared values exceed indemnities—see local Postmaster about these.

**Insured Mail: Third and Fourth Class Only:** Indemnity up to \$5.00—5c; over \$5.00 up to \$10.00—10c; over \$10.00 up to \$25.00—15c; over \$25.00 up to \$50.00—20c; over \$50.00 up to \$100.00—30c.

**C.O.D.:** Indemnities up to \$5.00, registered or not—30c; over \$5.00 up to \$10.00—Registered 80c, Non Reg. 40c; over \$10.00 up to \$25.00—Reg. \$1.10, Non Reg. 60c; over \$25.00 up to \$50.00—Reg. \$1.10, Non Reg. 70c; over \$50.00 up to \$100.00—Reg. \$1.40, Non Reg. 90c.

**Money Orders:** Limit for each is One Hundred Dollars. If amount of money order is from 1c to \$5.00 the fee is 10c; from \$5.01 to \$10.00 the fee is 15c; from \$10.01 to \$50.00 the fee is 25c; from \$50.01 to \$100.00 the fee is 35c.

**AIR MAIL: On United States Continent**

**Letters:** Six cents per ounce. Postals four cents each.

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

ZONES

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

**POSTAL RATES. — FOREIGN**

**Letters.**—For the places in the following list the postal rate is 3 cents each ounce or fraction. For all other foreign destinations, 5 cents first ounce and 3 cents each additional ounce or fraction: Argentina, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, Guatemala, Haiti, Honduras (Republic), 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 6x4¼ inches, minimum size 4x2¼ inches.

**Printed Matter.**—1½ 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.)

**Parcel Post.**—Basic rate 45c first pound, 22c each additional pound to which add also 31c for 1 lb.; 63c for 5 lbs.; \$1.03 for 10 lbs.; \$1.83 for 20 lbs.; \$3.43 for 40 lbs.

**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—½ oz.

C. 10 cents: Central and South America, West Indies, British and French Guiana, British Honduras, Surinam and Bermuda .10—½ oz.

D. 15 cents: Great Britain, Europe and other Islands in waters around it, U.S.S.R., Vatican City, Algeria, Egypt, Iceland, Libya, Morocco, Tunis, Turkey .15—½ oz.

E. 25 cents: All other localities .25—½ 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.

**OTHER INTERNATIONAL AIR SERVICE**

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

2. Parcel Post

From U. S. to:	First 2 oz.	Ea. Add'l 2 oz.	First 4 oz.	Ea. Add'l 4 oz.
England	\$0.41	\$0.20	\$1.00	\$0.41
France	.42	.21	1.22	.44
Belgium	.42	.21	.98	.43
Italy	.45	.24	1.08	.50
Sweden	.45	.24	.85	.49
Egypt	.52	.31	1.35	.64

## ANNUAL TREE GROWTH

If you own a young forest of mixed hard and soft wood trees averaging six feet in height, similar to that of David Cook at Stephentown, New York, you will find that year in, year out, barring years of very severe drought, those young trees would be turning in something like a 30% or twenty inch growth. Some, like hard maples, might be producing only 15% at ten foot height but others, like the 3 foot gray birch, would run as high as 60%. Valuable soft woods such as red pine and balsam fir at 7 feet would be producing about 20% growth.

Cook's actual 1940 figures: name of the tree, height at beginning of growing season, length of its growing season, and inches it grew are given in that order.

Red Pine, 7 ft., 61 days, 17.5 inches.

Pitch Pine, 4.5 ft., 59 days, 13.5 in.

Balsam Fir, 7 ft., 65 days, 18.5 in.

Hard Maple, 10 ft., 35 days, 18.75 in.

Jack Pine, 9 ft., 59 days, 32 in.

Eur. Larch, 7 ft., 101 days, 35.75 in.

Jap. Larch, 8 ft., 99 days, 38.75 in.

White Spruce, 6 ft., 66 days, 18.25 in.

Norway Spruce, 5 ft., 53 days, 20.75 in.

Douglas Fir, 7 ft., 72 days, 17.25 in.

White Cedar, 2 ft., 101 days, 11.75 in.

Red Oak, 9 ft., 37 days, 27 in.

White Ash, 5 ft., 35 days, 12.75 in.

Balsam Poplar, 3 ft., 76 days, 10.25 in.

Aspen, 5 ft., 68 days, 16 in.

Gray Birch, 3 ft., 86 days, 22½ in.

## AMEN

Amen is an ancient Hebrew word meaning True, Faithful, and Certain. It is translated as "Verily" in the Gospels. See I Corinthians, XIV, 16.



## Suffer Varicose LEG SORES?

IF you suffer pain and misery of Varicose Ulcers, or Open Leg Sores, send away at once for FREE Booklet "THE LIEPPE METHODS FOR HOME USE." Tells all about this 40-year-old method, praised and endorsed by thousands. Lieppe Methods. Dept. 405  
3250 N. Green Bay Ave., Milwaukee, Wisconsin

## When Your Girl Friend says "YOU NEED MORE PEP"

### Take a BOOSTER Tablet You Get an Amazing Pick-Me-Up

And if you don't have natural desire for fun, due to normal fatigue, just take a BOOSTER tablet . . . the WONDERFUL PICK-ME UP for normal fatigue. Because BOOSTER may help you get back IN THE MOOD—READY "TO GO" by temporarily relieving your normal fatigue. Best of all . . . BOOSTER doesn't let you down . . . has NO HARMFUL AFTER-EFFECTS . . . is Medically Pure. Of course, you should follow the directions on the label that tell you how to use BOOSTER for MOST DELIGHTFUL RESULTS. "They really have a KICK to them," writes William H. Browne, Sr., San Antonio, Tex., a BOOSTER user. So don't risk spoiling what can easily be the best part of your life—just because you're feeling low due to normal fatigue. Take BOOSTER and FEEL SWELL—"ON TOP OF THE WORLD."

Just send your name and address with \$1 in cash, money-order, or check. Pay postman small balance of only \$2 when he delivers your BIG 30-day-size bottle of BOOSTER tablets, sent you in a plain package marked personal. Then use BOOSTER for 10-days on this GUARANTEE: If not completely DELIGHTED with results—if BOOSTER doesn't do what we said it will FOR YOU—return unused tablets. YOUR FULL PURCHASE PRICE WILL BE SENT RIGHT BACK TO YOU BY AIR-MAIL. (SAVE 63c by sending full price of \$3 in cash, money-order, or check when you write us. Because then WE PAY all postage charges.) Write TODAY to

PERSONAL FORMULA CO., 65 W. 37th ST.,  
DEPT. 18E NEW YORK 18, N. Y. (© 1953, P F Co)

## GORDON'S MASTITIS REMEDY

for cattle. Safe. Sure. Economical. No fussing with syringes or solutions. Just instill contents of tube in affected quarter.

\$1.25 postpaid

W. G. INNERST, Cortland, N. Y.



## ILLUSTRATED COMIC BOOKLETS

THE KIND MEN LIKE!  
THE GIRLS LIKE 'EM TOO!!  
(VEST POCKET SIZE)

They are loaded with rare cartoons. Full of FUN and HUMOR. 20 DIFFERENT booklets sent for \$1 in sealed wrapper. No C.O.D.

BULCO, DEPT. 668 Box 89K, BKLYN 29, N.Y.

## WARTS GO!

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. Sorry no C.O.D.'s. Mail only \$1.00 today for prompt, post paid shipment. TRAW, Dept. OF5, Martin Ave., Clifton, N. J.

## 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 75th meridian West of Greenwich, England.

To overcome the difficulties of presenting one almanac which shall be useful not only for the spot where the astronomer is standing but also for other places, it has been customary to present three or four extra latitude columns — which at best give but a small measure of the desired accuracy. The Old Farmer's Almanac adopted a unique, copyrighted system of its own some years ago whereby the times as given may be corrected for wherever you happen to live by the use of the Almanac Data tables on pages 104 and 105.

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 104 and 105 you will find columns for each of these letters as well as a number of cities listed. If you live in one of those cities, simply read off the minus or plus number of minutes in the column under the alphabetical letter and correct the times given on pages 12-34.

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

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

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

### HOW TIMES ARE CONVERTED FOR YOUR TOWN

**Sunrise and Sunset.** The times of sunrise and sunset at Boston on April 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 104 whereby the times of sunrise and sunset at Boston are converted into those for other key cities, to wit:—

BOSTON			PITTSBURGH, PA.		
Sunrise	5:10	A.M.E.S.T.	Sunrise (Boston)	5:10	A.M.E.S.T.
Key Letter		G	Correction (Column G, page 105)	+38	
			Sunrise (Pittsburgh)	5:48	A.M.E.S.T.
Sunset	6:21	P.M.E.S.T.	Sunset (Boston)	6:21	P.M.E.S.T.
Key letter		K	Correction (Column K, page 105)	+33	
			Sunset (Pittsburgh)	6:54	P.M.E.S.T.

**Sun Fast.** The column headed "Sun Fast" is of primary use to sundial enthusiasts. The figures therein tell how fast on each day the time indicated by a *properly adjusted and graduated* sundial will be of the time indicated by a clock. On April 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 104 or 105.

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

BOSTON		PITTSBURGH, PA.	
Length of day	13h 11m	Sunset (Pittsburgh)	6:54 P.M.
(From calendar page 18, April 11.)		Sunrise (Pittsburgh)	5:48 A.M.
		Length of Day	13h. 6m.

**Moonrise and Moonset.** The procedure for finding the times of moonrise and moonset follows that for finding those of sunrise and sunset except that the constant additional correction taken from Column **D** on pages 104, 105 must be applied.

BOSTON		PITTSBURGH	
Moonset	2:00 A.M., E.S.T.	Moonrise (Boston)	2:00 A.M.
Key letter	M	Correction (Column M, page 105)	+31
April 11		Correction (Column <b>D</b> , page 105)	+01
Page 18		Moonrise (Pittsburgh)	2:32 A.M., E.S.T.

**Moon Souths.** The time the moon souths in Boston is converted to the time it is due south in a locality other than Boston by applying the appropriate corrections from Columns I and **D** on page 104.

BOSTON		PITTSBURGH	
Moon souths	7:24 P.M., E.S.T.	Moon souths (Boston)	7:24 P.M.
April 11		Correction (Column I, page 105)	+35
Page 18		Correction (Column <b>D</b> , page 105)	+01
		Moon souths (Pittsburgh)	8:00 A.M., E.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 5. The procedure for converting these times to those of other localities follows that for converting the times of sunrise and sunset given on page 100.

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

BOSTON (Latitude 42° 22' N.)		April 11	PITTSBURGH, PA. (Latitude 40° 26' N.)	
Sunrise	5:10 A.M.		Sunrise	5:48 A.M.
Subtract length of twilight (Column 4 of table)	1:39		Subtract length of twilight (Column 3 of table)	1:51
Dawn breaks	3:31 A.M.E.S.T.		Dawn breaks	3:57 A.M., E.S.T.
Sunset	6:21 P.M.		Sunset	6:54 P.M.
Add length of twilight	1:39		Add length of twilight	1:51
Dark descends	8:00 P.M.E.S.T.		Dark descends	8:45 P.M., E.S.T.

### LENGTH OF TWILIGHT

Subtract from time of sunrise for dawn.

Add to time of sunset for dark.

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

## 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, 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 compensate for the Easterly path of continental storms. For every hundred miles north or south of 42 degrees latitude, add a five degree temperature (colder if north, warmer if south) differential and for every 1000 feet above sea level consider your locality as five degrees cooler than the weather as given.

### WEATHER TABLE FOR ANYWHERE

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

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

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

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

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

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

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

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

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

**Example:** The figures for Full Sea in Columns 11 and 12 of the left hand Almanac pages 12-34 are the times of high tide at Commonwealth Pier 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.

See page 18, column 11.

**BOSTON**  
High Tide (from page 18) 10.15 P.M.E.S.T.  
April 16

Height (from page 19) 9.5 feet

**MIAMI**  
High tide (Boston) 10.15 P.M.  
Correction above -3.00  
High tide (Miami) 7.15 A.M.E.S.T.  
Height (Miami) 2.9 feet  
(9.5 x 0.3)

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

(See explanation on preceding pages 100 and 101.)

	Time used		A		B		C		D		E		F		G		H		I		J		K		L		M		N		O		P		Q	
	m		m		m		m		m		m		m		m		m		m		m		m		m		m		m		m		m		m	
Amarillo, Texas.....	88	+	85	+	82	+	78	+	74	+	70	+	66	+	63	+	59	+	55	+	51	+	48	+	44	+	40	+	37	+	33	+	30	+	4	
Atlanta, Ga.....	87	+	81	+	80	+	75	+	71	+	66	+	62	+	57	+	53	+	48	+	44	+	39	+	35	+	31	+	27	+	23	+	19	+	2	
Augusta, Ga.....	79	+	75	+	71	+	66	+	62	+	57	+	52	+	48	+	43	+	39	+	34	+	29	+	25	+	21	+	16	+	12	+	8	+	2	
Baltimore, Md.....	36	+	34	+	32	+	31	+	29	+	27	+	25	+	23	+	22	+	21	+	19	+	17	+	15	+	13	+	12	+	10	+	8	+	1	
Beaumont-Port Arthur, Texas.....	78	+	73	+	68	+	62	+	65	+	49	+	43	+	37	+	31	+	25	+	19	+	13	+	7	+	1	+	4	+	10	+	15	+	3	
Birmingham, Ala.....	38	+	34	+	30	+	25	+	21	+	16	+	11	+	7	+	2	+	2	+	7	+	11	+	16	+	20	+	24	+	28	+	33	+	2	
Canton, Ohio.....	48	+	47	+	46	+	45	+	44	+	44	+	43	+	42	+	41	+	40	+	39	+	38	+	38	+	37	+	36	+	35	+	34	+	1	
Charleston, S. C.....	73	+	69	+	64	+	60	+	54	+	49	+	44	+	40	+	35	+	30	+	25	+	20	+	15	+	11	+	6	+	2	+	3	+	1	
Charleston, W. Va.....	59	+	57	+	55	+	53	+	51	+	48	+	46	+	44	+	42	+	40	+	37	+	35	+	33	+	31	+	29	+	27	+	25	+	1	
Chicago, Ill.....	9	+	8	+	8	+	8	+	7	+	7	+	7	+	7	+	6	+	6	+	6	+	5	+	5	+	5	+	5	+	4	+	4	+	1	
Cincinnati, Ohio.....	68	+	66	+	65	+	63	+	61	+	59	+	57	+	55	+	54	+	52	+	50	+	48	+	46	+	45	+	43	+	41	+	39	+	2	
Columbia, S. C.....	73	+	70	+	66	+	61	+	57	+	52	+	48	+	44	+	39	+	35	+	31	+	26	+	22	+	18	+	14	+	10	+	6	+	1	
Columbus, Ga.....	94	+	90	+	85	+	80	+	75	+	70	+	65	+	60	+	55	+	50	+	45	+	40	+	35	+	30	+	26	+	21	+	17	+	2	
Columbus, Ohio.....	58	+	57	+	56	+	54	+	53	+	52	+	50	+	49	+	47	+	46	+	45	+	43	+	42	+	41	+	39	+	38	+	37	+	2	
Corpus Christi, Texas.....	103	+	98	+	91	+	83	+	75	+	68	+	60	+	52	+	45	+	37	+	29	+	21	+	14	+	6	+	0	+	7	+	14	+	4	
Dallas-Ft. Worth, Texas.....	81	+	78	+	73	+	68	+	63	+	58	+	53	+	48	+	43	+	38	+	33	+	28	+	23	+	19	+	14	+	10	+	5	+	4	
Denver, Colo.....	27	+	26	+	23	+	23	+	21	+	20	+	18	+	17	+	16	+	14	+	13	+	11	+	10	+	8	+	7	+	6	+	4	+	5	
Des Moines, Iowa.....	34	+	34	+	33	+	33	+	32	+	31	+	31	+	30	+	30	+	30	+	29	+	29	+	28	+	28	+	27	+	27	+	26	+	3	
Detroit, Michigan.....	48	+	48	+	48	+	48	+	48	+	48	+	48	+	48	+	48	+	48	+	48	+	48	+	48	+	48	+	48	+	48	+	48	+	2	
Durham, N. C.....	58	+	56	+	52	+	48	+	45	+	41	+	38	+	34	+	31	+	28	+	24	+	21	+	17	+	14	+	11	+	8	+	5	+	1	
Evansville, Ind.....	25	+	23	+	20	+	18	+	15	+	13	+	11	+	8	+	6	+	3	+	1	+	1	+	4	+	6	+	8	+	11	+	13	+	2	
Galveston-Houston, Texas.....	84	+	79	+	73	+	67	+	61	+	54	+	48	+	41	+	35	+	29	+	23	+	16	+	10	+	4	+	1	+	7	+	13	+	3	
Hamilton-Middletown, Ohio.....	66	+	65	+	63	+	61	+	60	+	58	+	56	+	55	+	53	+	52	+	50	+	48	+	47	+	45	+	44	+	44	+	40	+	2	
Hartford-New Britain, Conn.....	10	+	9	+	9	+	8	+	8	+	8	+	8	+	7	+	7	+	6	+	6	+	6	+	5	+	5	+	5	+	4	+	4	+	0	
Indianapolis, Ind.....	12	+	11	+	9	+	8	+	6	+	5	+	3	+	2	+	0	+	1	+	3	+	4	+	6	+	7	+	8	+	10	+	11	+	2	
Jackson, Miss.....	55	+	51	+	47	+	42	+	36	+	31	+	26	+	21	+	16	+	11	+	6	+	0	+	5	+	9	+	14	+	18	+	23	+	3	
Jacksonville, Fla.....	87	+	83	+	77	+	71	+	65	+	59	+	53	+	47	+	42	+	36	+	30	+	24	+	18	+	12	+	7	+	2	+	4	+	1	

Your town (interpolate between nearest two in your time zone) SUBTRACT OR ADD these minutes to Almanac times given (pages 12-34).





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## GLOSSARY OF ASTRONOMICAL TERMS, ETC.

- Aph.** — **Aphelion** . . . Planet revolving about Sun reaches point in its orbit farthest away from the Sun.
- Apo.** — **Apogee** . . . Moon reaches point in its orbit farthest from Earth.
- Conj.** — **conjunction** . . . moment of closest approach to each other of any two heavenly bodies.
- declination** (see top left hand calendar pages) . . . measure of angular distance any celestial object lies perpendicularly north or south of celestial equator. Exactly analogous to terrestrial latitude. OFA gives declination at time each day the Sun is due South.
- Dominical Letter** . . . used in reckoning civil calendars.
- Eclipse, annular** . . . when sunlight shows around the Moon during the eclipse.
- Eclipse, lunar** . . . opposition of Sun and Moon with moon at or near node.
- Eclipse, solar** . . . conjunction of Sun and Moon with Moon at or near node.
- Ecliptic** . . . that circle in which the plane of the orbit of the Earth about the Sun would if extended cut the celestial sphere — or the apparent path of the Sun in the sky in a year due to the Earth's revolution about the Sun each year.
- El.** — **elongation** . . . apparent angular distance of a member of the solar system from the Sun as seen from the Earth.
- Epact** . . . used in reckoning ecclesiastical calendars, age of calendar moon Jan. 1.
- Eq.** . . . equator.
- Equinox, autumnal** . . . Sun passes from northern to southern hemisphere. Fall.
- Equinox, vernal** . . . sun passes from southern to northern hemisphere. Spring.
- Full Sea** (Morn and Eve) . . . the time the tide is high in the morning and in the evening at Commonwealth Pier, Boston. A correction table in the OFA also adjusts this time for other places. (See page 10.3)
- Gr. El.** . . . greatest elongation.
- Golden Number** . . . used in reckoning civil calendars.
- Inf.** — **Inferior** . . . inferior conjunction is when the Planet is between the Sun and the Earth.
- Julian Period** . . . First year was 4713 B.C. Its length is 7980 years.
- Moon's Age** . . . average time elapsing between new moons (max.  $29\frac{1}{2}$  days). Calculated when Moon is due South.
- (D) **First Quarter** . . . moon in quadrature East or one half of the side of the moon toward the earth is illuminated.
- (O) **Full Moon** . . . moon reaches opposition.
- (C) **Last Quarter** . . . moon in quadrature West.
- (N) **New Moon** . . . Sun and Moon in conjunction.
- Moon Rise and Set** . . . as used in the OFA apply only to risings and settings between sunset and sunrise . . . or during the night.
- Moon Runs High or Low** . . . day of month Moon Souths highest or lowest above the horizon.
- Moon Souths** . . . Moon exactly above South point of observer's horizon.
- Occultations** . . . eclipses of Stars by the Moon.
- Opposition** . . . time when Sun, and Moon or Planet appear on opposite sides of the sky (elongation 180 degrees).
- O.S.** — **Old Style** . . . was when calendar was eleven days "out of whack." In September, 1752, the 3rd was reckoned as the 14th, to make present calendar.
- Peri.** — **Perigee** . . . Moon reaches point in its orbit closest to Earth.
- Peri.** — **Perihelion** . . . Planet revolving about the Sun reaches point in its orbit closest to Sun.
- R.A.** — **Right Ascension** . . . the measure Eastward along the celestial equator of any celestial body from the vernal equinox to the point where the circle which passes through the object perpendicular to the celestial equator intersects the latter.
- Rain** . . . drops large enough to splatter on the old man's bald head.
- Roman Indiction** . . . used in reckoning ecclesiastical calendars.
- Snow** . . . when a cat's tracks are visible on the barn roof.
- Solar Cycle** . . . used in reckoning civil calendars.
- Solstice, Summer** . . . point at which the Sun is farthest north of the celestial equator, passing overhead on the Tropic of Cancer. Beginning of Summer.
- Solstice, Winter** . . . limit of Sun's journey south of the celestial equator, passing overhead on the Tropics of Capricorn. Beginning of Winter.
- Star, Evening** . . . above horizon at Sunset.
- Star, Morning** . . . above horizon at Sunrise.
- Stat.** — **stationary** . . . when the apparent movement of a Planet against the background of Stars stops — just before same comes to opposition.
- Sunrise and Sunset** . . . visible rising and setting of Sun's upper limb across the unobstructed horizon of an observer whose eyes are 15 feet above ground level.
- Sun Fast** . . . the times given in this column must be subtracted from your Sun Dial to arrive at the correct time.
- Sup.** — **Superior** . . . Superior Conjunction is when the Sun is between the Planet and the Earth.
- Twilight** . . . begins or ends when stars of the sixth magnitude disappear or appear at the Zenith — or the Sun is appr. 18 degrees below the horizon.
- Underground Moon** . . . one which changes its phases between 12 M. and 1 A.M.

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### ANSWERS TO WORD CHARADES ON PAGE 80

- |                |              |               |
|----------------|--------------|---------------|
| 1. Investigate | 5. Carpet    | 9. Butterfly  |
| 2. Carpet      | 6. Maypole   | 10. Over-plus |
| 3. Nightshade  | 7. Dogmatism | 11. Farewell  |
| 4. Damage      | 8. Damage    |               |

### ANSWERS TO OLD-FASHIONED PUZZLES ON PAGE 82

#### Conundrums

1. Scissors. 2. It is an outside wrap. 3. A gun. 4. When his wig is unpaid for. 5. They need to be strapped. 6. When it is filed. 7. When it is bound to a pier. 8. A law-suit.

#### Riddles

1. Nowhere. 2. To-morrow. 3. A crown.

#### Anagrams

1. Time-emit- mite-item. 2. Reed-deer.

#### Problems

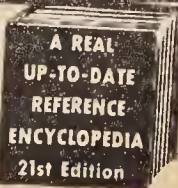
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Winners of the contest announced page 110 of the 1953 OFA are Miss A. K. Marshall, New York City (1st), Ruth Boss, N. Scituate, R. I. (2nd), Carrie Irons, Manchester, Ct. (3rd). The cypher 72-2-2 referred to Page 72, second advertisement, second line of ad.

For this year, the money goes (1st, \$25.00—2nd, \$15.00—3rd, \$5.00) for the best one line rhyme to the solution of Cypher 73-AD3-1. Contest closes Aug. 15, 1954. No entries returned . . . all become property of Yankee, Inc. Case of the place money lumped and divided. Staff of YANKEE final judge. Winners announced 1955 OFA. Address Cypher Contest, Yankee, Inc., Dublin, N. H.

**INDEX**

Agricultural Extension Stations.....	69
Anecdotes.....	48, 65
Aphelion, earth in.....	4
Answers to Puzzles, etc.....	109
Aspects.....	11, 13-35
Calamities, Ocean.....	77-79
Calculations and Corrections.....	100-105
Calendar, 1952.....	6
1953.....	6, 12-35
1954.....	6
Charades, word.....	80
Convention, Overfishing.....	111
Cycle, Reproductive.....	93
Dates, historical.....	13-35
Days, Length of.....	12-35
Earthquake forecast.....	73
Eclipses, Moon and Sun.....	4, 83
Explanations.....	11, 198
Farmer's Calendars.....	13-35
Fast and Feast Days.....	11, 13-35
Fishing Laws.....	86-90
Frosts.....	39
Game Laws.....	86-90
Gestation Periods.....	93
Glossary.....	108
Heat, animals in.....	93
Holidays, Church, State, Week- end.....	8, 13-35, 74
Holy Days.....	11, 13-35
Household Hints.....	45
Mars.....	76
Measures, table of.....	45, 94
Milk, Concentrated.....	83
Moon: Age, Place in heavens, rise, south, size, harvest, hunter, inva- sion, underground.....	12-35, 39
Eclipses of.....	4
Planting Guide.....	37, 38
Motor Vehicle Laws.....	84
Occultations.....	4
Perihelion, earth in.....	4
Planets, rise and set.....	5, 76
Photographs.....	A-H
Planting Tables.....	37, 38, 39
Pleasantries.....	48, 65
Poetry.....	13-35
Postal Rates, Air and Foreign.....	97, 98
Puzzles.....	82
Recipes.....	41, 43, 45, 49-64
Scientific Progress.....	66, 68, 71
Soil.....	67
Signs, Man of.....	37
Space world.....	75
Stars, Morning and Evening.....	5, 75
Sun: Rise, set, declination, set sun- dials by (fast and slow).....	12-34
Superstition.....	76
Tides, High, Low.....	12-34
Height of.....	13-35, 100
Timber, Growth of.....	99
Twilight, Length of.....	101
United Fruit Co. Advt.....	49-64
Vegetables, All-American.....	96
Weather Daily forecast (see italics).....	13-35
By moon.....	102
For vacation.....	8
Winter, Next and Last.....	8
Zodiac, signs.....	11, 37
Moon's place in.....	12, 34, 37

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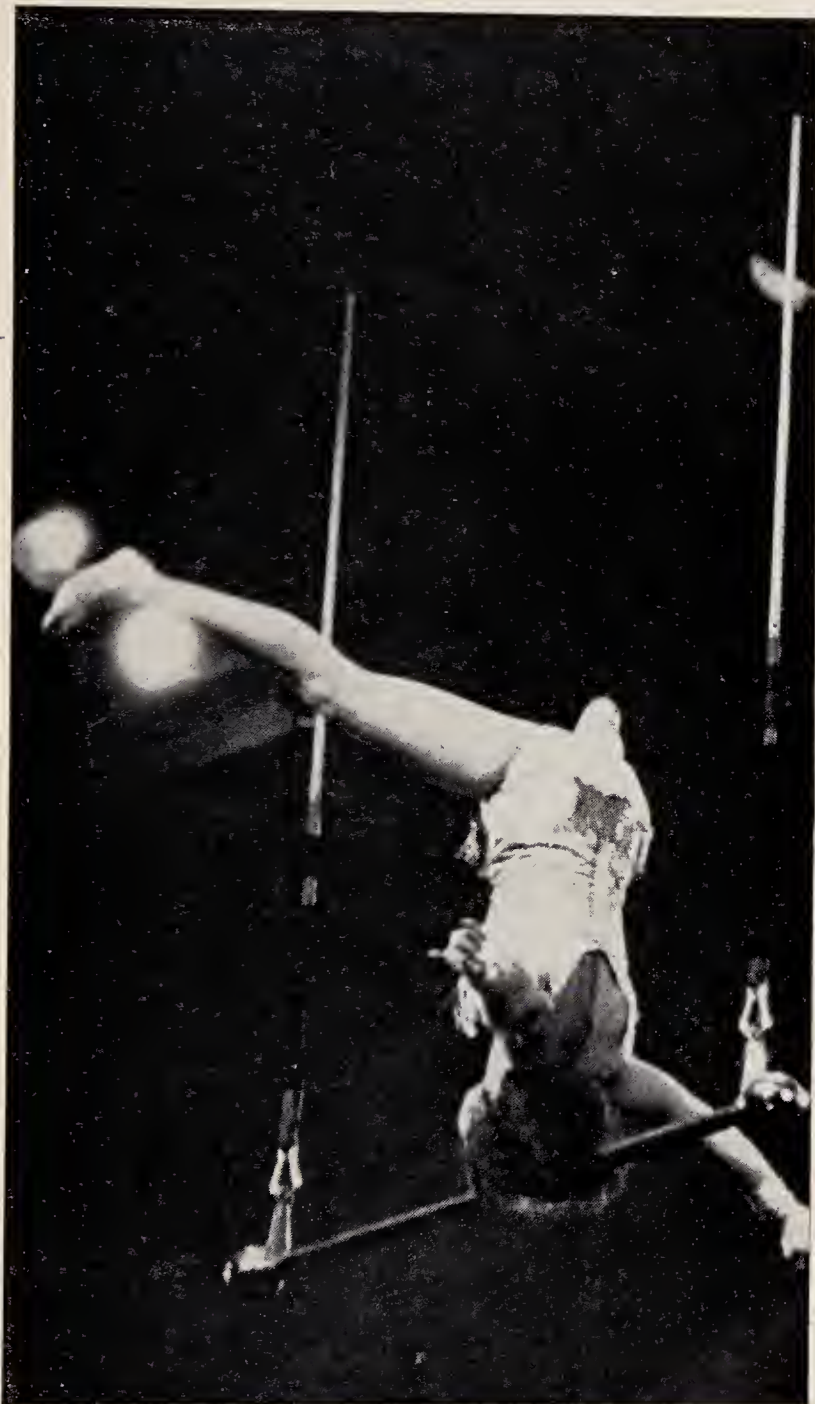
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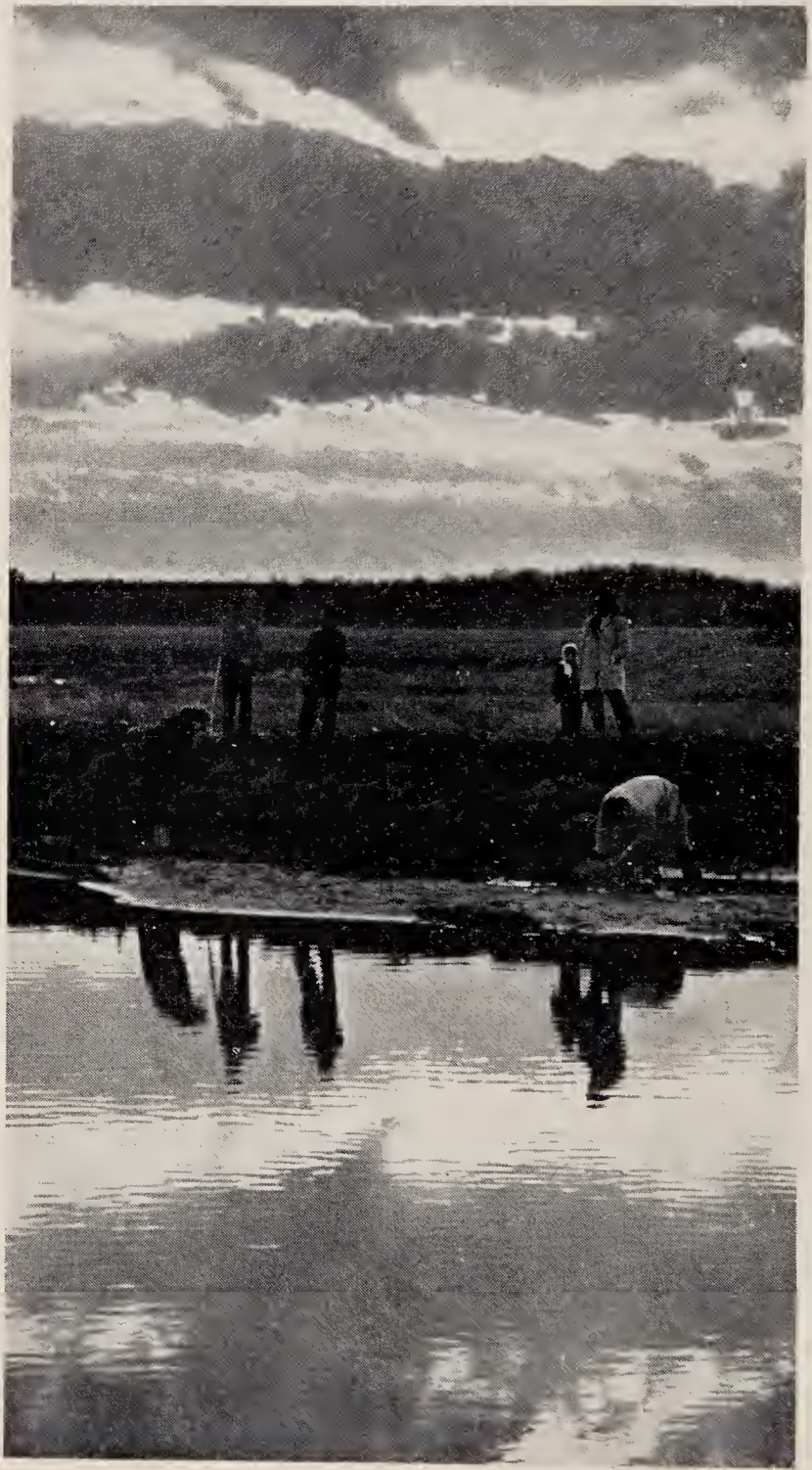
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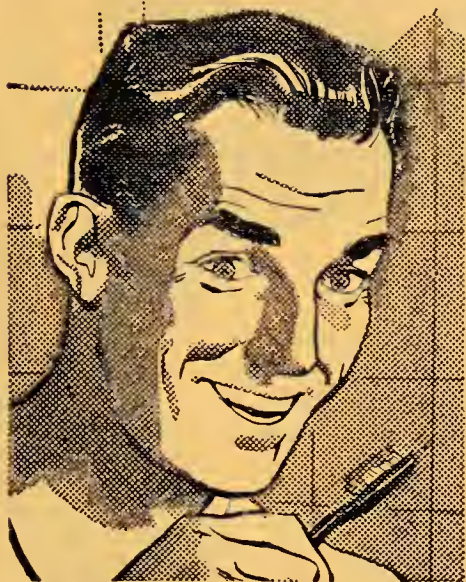


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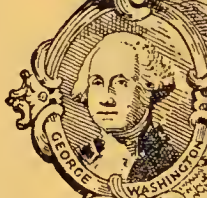
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