



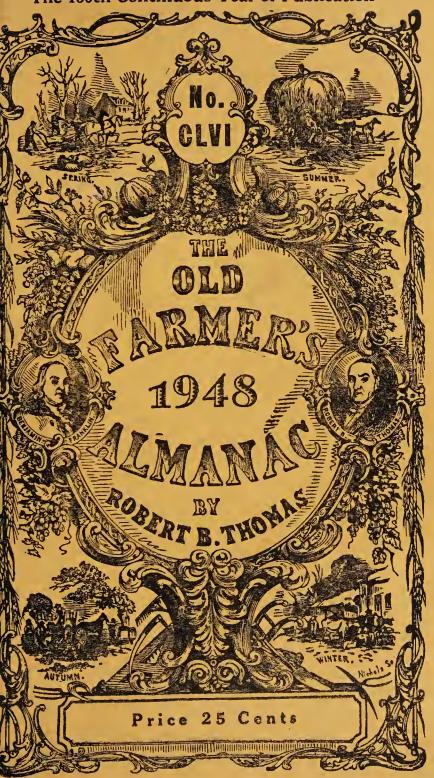
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AY81 . F306 1948

The 156th Continuous Year of Publication



Weather and Planting Tables, Predictions



The twilight hour on the farm

ON THE FARM the twilight hour is a welcome hour. It's the time for the lighter chores, the chores which put a little less burden on tired muscles. It is a particularly restful hour after a hard day in which a great deal has been accomplished, when nothing which should have been done has been neglected. Then we can look back on the day with the consciousness of work well done, with minds free from worry.

The twilight of life should be like that. It's a time for a little less work, for a little more rest, a time to look back — and forward, too — with minds free from worry.

It can be that way if we have been

thoughtful about the future. That's what life insurance is for, to provide particularly for the twilight hour, to make sure that homes are free and clear, to provide income for leisure.

Any John Hancock agent will be glad to show you how to plan for comfortable twilight hours. Get in touch with him today.

John Hancock
MUTUAL LIFE INSURANCE COMPANY
ADSTON. MASSACHUSETTS

GUY W. COX Chairman of the Board PAUL F. CLARK President (OLD)

FARMER'S ALMANACK,

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

1948

Being Bissextile or Leap Year, and (until July 4) 172nd 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.



Behold thyself reflected here!
The Spring proclaims thy infant year,
Gay life, the Summer's bloom,
Mild Autumn speaks maturer.age,
Proves thee unwise, or hails thee sage,
While Winter shows the tomb.—Cunningham
(From The Old Farmer's Almanack, 1848)

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BROOKLINE, MASS.
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Published by: YANKEE, INC. DUBLIN, N. H. PATENT OFFICE.

Sold By:

THE AMERICAN NEWS CO.

AND BRANCHES

TO PATRONS AND CORRESPONDENTS

This 156th continuous edition of *The Old Farmer's Almanac(k)*, published in Atomic Year 3, marks another crucial year in which all are called upon to challenge the forces of greed, war, hunger, and "statism." Perhaps never before has any year so strongly demanded the immediate and earnest response of man and wowan to the calls of conscience. These calls are made plainer and are easier to know through faith in, humility and prayer to God. In these things of momentous importance, it will also be well to realize the cup of flour is still the measure of the loaf, the penny that of the dollar, and that nothing shall be gained in our rightful effort to help the world if home matters be neglected to the point at which the American way

that nothing shall be gained in our rightful effort to help the world if home matters be neglected to the point at which the American way of life becomes no longer possible.

D. E. D., Melrose, Mass. In response to your question as to where the next World's Fair is going to be, we beg to state we have found no basis in fact for the rumor it is to be held on the Lynn Marshes. J. H. S., Rochester, N. Y. We have no staff member qualified to tell you which horse will win the next Kentucky Derby. G. C. W., Jr., Pottstown, Pa. We have not yet learned the formula by which your Newfoundlend see centain father may determine on which day of

Pottstown, Pa. We have not yet learned the formula by which your Newfoundland sea captain father may determine on which day of 1948 the harp seals will pup.

We remain indebted to Frank M. Walling, Meadville, Pennsylvania, for having called to our attention, for many almanacs now, errors of spelling and grammar. In the 1947 edition, there were six. Others reminded us of an error in our solution of puzzle No. 7, page 50, and that the Moon's Age, December 24th last, should have been given as 13—rising thereafter a unit a day to reach 19 on the thirty-first. George Nichols, Buffalo, New York, informs us his father engraved the present almanac(k) cover for the 59th edition in the year 1851.

David Morton, of Amherst, Massachusetts, whom many consider as the world's finest living poet, has again produced the poetry on the Calendar pages. B. M. Rice, Peterborough, New Hampshire, has' written the Farmer's Calendars, Anecdotes, Pleasantries and arranged most of the text for the other pages (except for the astronomical data which has again come from Professor Loring B. Andrews, and certain other matter, including the weather, which as usual emanates, from venerable Abraham Weatherwise). To our many friends in government and state agencies—and in various other positions from ernment and state agencies—and in various other positions from which the Almanac(k) has felt free to draw, also our many thanks. We would be ungrateful indeed were we not to reiterate hymns of thanks to those members of the press associations, newspapers, magazines, and radio stations who have been good enough by means of releases, articles, features, photographs, and broadcasts to maintain the Almanac(k) a good distance this side of oblivion.

In viewing this Leap Year of 1948, we note that Mr. Weatherwise has handed us for the first time in many years (see p. 38): some forehoding news with regard to the coning summer months—and results.

boding news with regard to the coming summer months-and possible to the coming summer months—and possible crop failures. In these, we shall expect—if the predicted comes true—to lose many valued subscribers—for, we have found, unless predicted news be good news, no thanks come to the predictor. After our experience with the Office of Censorship during the war, and the suppression in other years of almanacks because their forecasts were taken too seriously, it is our sincere hope our fate will not be similar to that of several which were thus suppressed for correctly predicting the great London Fire of 1666

to that of several which were thus suppressed for correctly predicting the great London Fire of 1666.

It is with regret we note the passing of Mabel M. Swan from this vale of tears to other lands where she may again happily be with her late husband, Carroll Swan. Working with and under her direction was a real pleasure as we trust it will be under the new copyright owners. Robert Haynes, Assistant Director of Harvard College Library, and Carroll Swan's

two brothers.

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

Your ob'd servant.

Otal B. Bromas.

July 4, 1947

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 - Midget Corn! Midget Watermelon! Exciting Tom Thumb versions of mouthwatering succulence.
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EXPLANATIONS AND SIGNS

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

Names and Characters of the Principal Planets.

Venus. The Earth, 4 Jupiter.

h Saturn.

Ψ Neptune. P Pluto.

The Sun.
The Moon.

o mercury.	d mars.	1 th or O o	ranus.	
Nan d Conjunction, or in the Quadrature, 90 degree d Opposition, or 180 degree	8.) Dragon's I		
Names an	d Characters of	the Signs of	the Zodiac.	
 ↑ Aries, head. 8 Taurus, neck. □ Gemini, arms. □ Cancer, breast. 	5. S. Leo, hea 6. My Virgo, be 7. \(\to \) Libra, re 8. M Scorpio,	olly.	9. 7 Sagittarii 10. 1/2 Capricori 11. 2 Aquarius 12. 2 Pisces, fe	nus, knees.
· (Chronological Cy	cles for 194	8.	
Golden Number 1 Epact 1	1 Solar Cycle .	25	Roman Indiction	n 16 Period 6661
Mo	vable Feasts an	d Fasts for	1948.	
SeptuagesimaSunJan. 25 Shrove Sunday Feb. 8 Ash Wednesday Feb. 11 Ist Sun. in Lent Feb. 15 Palm Sunday Mar. 21	Easter Sunday Low Sunday Rogation Sun	y Mar. 28 Apr. 4 dayMay 2		May 16 May 23 May 27 Nov. 28
7	THE SEASO	, -		
Winter Solstice (Winter 19 Vernal Equinox (Spring, 1 Summer Solstice (Summer Autumnal Equinox (Autu Winter Solstice (Winter),	.948), March 20, 1 r), June 21, 7.1 mn), September 2	22, 11.43 a.m. 11.57 a.m. 11 a.m. 22, 10.22 p.m.	-Sun enters Cap - " " Arie - " " Can - " " Libi	es, γ

CALCULATIONS AND CORRECTIONS

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

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

The Table given below contains corrections in minutes of time for a number of im-

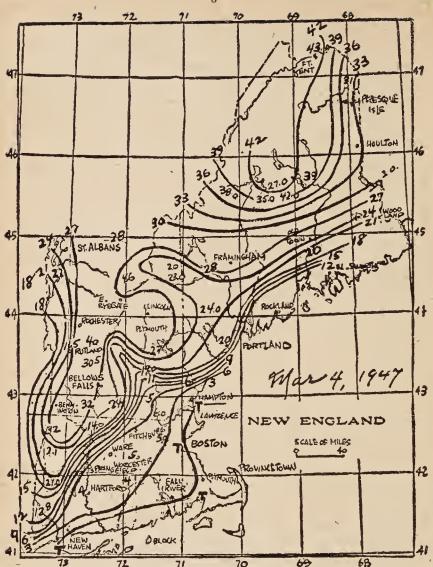
The lable given below contains corrections in minutes of time for a number of important places in New England, and any other place in New England can use the correction of the place in the Table which is nearest in longitude to itself. For the Rising and Setting of the Sun, Moon and Planets add tabular quantity if longitude from Boston is West, but subtract it if East; and this will give the value when the place is in or near the same latitude as Boston. When the latitude of the place differs considerably from that of Boston, the correction will also be right when the celestial body is on or near the Equator; but when it is remote from the Equator so much accuracy cannot be expected.

East.	West.	West.
Eastport, Me 16 min.	Concord, N.H 2 min.	Springfield, Mass 6 mln.
Bangor, Me 9 "	Nashua, N.H 2 "	Williamstown, Mass. 9
Augusta, Me 5	Plymouth, N.H 3 "	Newport, R.L 1 "
Lewiston, Me 4 "	Keene, N.H 5	Providence, R.I. 1 "
Portiand, Me 5	Montpeller, Vt 6	Woonsocket, R.I. 2
Blddeford, Me. 2	Brattleboro, Vt 6 "	New London, Conn. 4 "
Portsmouth, N.H. 1 "	Rutland, Vt 8 "	Willimantle, Conn 5 "
Provincetown, Mass. 4	Burlington, Vt 9 "	Hartford, Conn 6 "
Gloucester, Mass. 2	Lowell, Mass 1 "	New Haven, Conn 7 "
Plymouth, Mass 2	Worcester, Mass 3 "	Brldgeport, Conn 9 "

EARTH IN PERIHELION AND APHELION, 1948

The Earth will be in Perihelion on January 2. 1 A.M., distant from the Sun 91,187,000 miles. The Earth will be in Aphelion on July 4, Noon, distant from the Sun 94,456,000 miles.

1948											
JANUARY. FEBRUARY. MARCH. APRIL.											
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The World Calendar of Day-World Holiday	loes not change. It is	the same each year. * June 31, another Wor	Dec. 31 is Year End ld Holiday is added.								
	1 9	4 9									
JANUARY.	FEBRUARY,	MARCH.	APRIL.								
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U. S. Weather Bureau Snow Depth Map

LAST WINTER'S WEATHER

Mr. Weatherwise foretold last winter's weather as "old fashioned with plenty of snow and cold weather—the kind that Grandpa knew when he was a boy." His prediction was right for almost everywhere

when he was a boy." His prediction was right for almost everywhere except Boston itself, which, for unaccountable reasons, missed most of the big storms and remained as a Boston Globe editorial expressed it—"a balmy oasis in the midst of terrific winter everywhere else."

The Connecticut River Valley experienced snow storms in March not exceeded since Grandpa's Blizzard of 1888... and prior to these, in February, David Lawrence, well known Washington editor was pointing to the bad winter weather as a devastating factor in producing an encoming mild economic crisis. A new cold record for ducing an oncoming mild economic crisis. A new cold record for North America of 81 degrees below zero was set in the Yukon on February 2nd, at a town called Snag, 300 miles South of Dawson. On March 4th, Weather Bureau officials saw more than a possibility of

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.

height at Boston should be mul	tiplied by	this ratio.	
Time	Height	Time	Height
Differ-	Differ-	Differ-	Differ-
ence h.m.		ence h.m.	
MAINE		PENNSYLVANIA	01100 2 11
	*0.4	Philadelphia +2 29	*0.5
Augusta +3 50	+3.6	-	.0.0
Bangor —0 05		DELAWARE	
Bar Harbor —0 33	+1.1	Rehoboth —3 37	*0.4
Boothbay Harbor . —0 20	-0.8	MARYLAND	
Eastport —0 28	*1.9		40.4
/ Old Orchard —0 10	-0.7	Baltimore4 25	*0.1
Portland —0 10	-0.6	Ocean City —3 57	*0.4
Stonington —0 30	+0.2	DISTRICT OF COLUMBIA	
NEW HAMPSHIRE	10.2	Washington3 08	*0.3
	1.0		0.0
Hampton +0 15	-1.2	VIRGINIA	
MASSACHUSETTS		Norfolk —1 54	*0.3
Fall River —3 16	*0.5	Norfolk —1 54 Virginia Beach —3 14	*0.3
Falmouth —0 40	*1.1		
Hyannisport +0 45	*0.3	NORTH CAROLINA	40.0
	-0.2	Beaufort —2 59	*0.3
	-0.2 0.3	Carolina Beach —3 30	*0.4
Marblehead —0 05		SOUTH CAROLINA	
Mariou —3 16	*().4	Myrtle Beach —3 45	*0.5
Monument Beach. —3 06	*0.4		*0.5
Nantasket +0 10	+0.1	Charleston —3 15	™0.5
Nantucket +0 50	*0.3	GEORGIA	
New Bedford3 21	*0.4	St. Simon's Island -2 51	*0.7
Oak Bluffs +0 05	*0.2	Savannah —2 40	*0.8
Onset —3 06	*0.5	Tybee Beach —3 26	*0.8
Onset —3 06 Plymouth 0 00	+0.1		0.0
	-0.3	FLORIDA	
		Daytona —3 20	*0.4
Scituate —0 05	-0.5	Fort Lauderdale . —2 15	*0.3
Wellfleet +0 20	+0.6	Jacksonville —0 40	*0.1
Wellfleet +0 20 Woods Hole3 01	*0.2	Miami —3 00	*0.3
RHODE ISLAND		Palm Beach3 20	*0.3
Block Island3 21	*0.3	Port Everglades . —2 15	*0.3
Narragansett Pier —3 31	*0.4	Ct Augustina 2 20	*0.5
	*0.4	St. Augustine2 20	
	*0.5	St. Petersburg +3 58	*0.2
Providence3 11		WASHINGTON	
Watch Hill —2 06	*0.3	Ilwaeo +1 44	-3.5
CONNECTICUT		Port Townsend +5 04	*0.5
Long Island Sound -0 02	*0.7	Seattle +5 37	-2.0
New London1 47	*0.3		
NEW YORK		OREGON	
NEW YORK	*0.5	Astoria	-3.3
Coney Island3 00 Long Beach3 57		Cape Arago +1 19 Yaquina Head +1 12	-4.8
Long Beach —3 57	*0.5	Vacuina Head 11 12	-3.7
Long Island Sound +0 08	*0.7		0.1
New York City2 50	*0.5	CALIFORNIA	
Ocean Beach —3 57	*0.4	Catalina Island —1 33	-5.9
Southampton —3 22	*0.3	Crescent City +0 56	-5.0
NEW JERSEY		Eureka +1 20	-5.0
	*0.5	Long Beach —1 37	-5.5
110000000000000000000000000000000000000	*0.6	Monterey0 03	*0.4
Bayside —0 24		Doint Mandaging 10.04	*0.4
Cape May —3 37	*0.5	Point Mendocino . +0.24	*0.4
Ocean City —3 17	*0.4	San Diego —1 35	-5.9
Seabright.		San Francisco +0 59	*0.4
to —3 44	*0.5	Santa Barbara —1 19	-6.0
Seaside Park		Santa Cruz +0 08	*0.4
Example: The figures for	Fuil Sea	in Columns 11 and 12 of the le	it hand

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

	See page 20,	column 11.	
High Tide	BOSTON 1.00 P.M.E.S.T.	High tide (Boston)	1.00 P.M.
High Tide	1.00 1	Correction above	-3.00
Height	9.0 feet	High tide (Miami) Height (Miami) (8.9 x 0.3)	10.00 A.M.E.S.T. 2.7 feet

ECLIPSES FOR THE YEAR 1948

In the year 1948 there will be three eclipses, two of the Sun and one of the Moon.

I. A Partlal Eclipse of the Moon, April 23, 1948. The beginning of the eclipse will be visible generally in Asia and the Indian Ocean, except the southeastern part, and the extreme western and northwestern part of North America. The ending will be visible generally in Asia and the Indian Ocean, except the western parts, the Antarctic regions, Australia, the Paclic Oceau, except the southeastern part, and the extreme northwestern part of North America. The cellpse will be of small magnitude; but 0.03 of the Moon's diameter will be covered by the umbra of the earth's shadow cone. the umbra of the earth's shadew cone.

II. An Annular Eclipse of the Sun, May 8, 1948, invisible in the United States except the extreme northwestern part where the eclipse will just be beginning about sunset. The path of the annular phase extends from a point west of Anstralia in the southern part of the Indian Ocean, whence it sweeps northeastward along the coast of the Orient from Malaya to Kamchatka, over the northern Pacific to the Aleutian Islands, and on to an ending point off the Pacific coast of the United States. The tip of the Moon's shadow is computed to come within five miles of the earth's surface at mid-eclipse which occurs. within five miles of the earth's surface at mid-eclipse which occurs just northeast of Korea. Near this point a total eclipse of very short duration may occur. As a partial cclipse, the phenomenon will be visible throughout Asia, the Netherlands East Indies and the Philippines, the Arctic, Alaska and northwestern Canada.

III. A Total Eclipse of the Sun, November 1, 1948, invisible in the United States. The path of total eclipse extends from a point in the heart of Africa across the south Indian Ocean to an end point south-cast of Australia. It lies entirely over water except for the first 600 miles. In its partial phases the eclipse will be visible in Africa except the northwestern part, Arabia, the Indian Ocean. Australia except the parts of Antarothea northern coast, and parts of Antarctica.

WAS NO SUMMER IN 1816

Birds Froze to Death in June—Sun to Blame (?)

The year 1816 was called the year without a summer. As the spring-tlme approached nothing in the weather indicated the return of seed time, much less of harvest. Snows, heavy rains and cold winds pre-vailed incessantly, and during the entire season the sun arose each morning as though in a cloud of smoke, red and rayless, shedding little light or warmth and setting at uight as behind a thick cloud of vapor, leaving hardly a trace of its having passed over the face of the earth. The frost never went off the ground until about the last the carth. The frost never went off the ground until about the last of May.

of May.

The farmers planted their crops, but the seed would hardly sprout. and when at last it came to the surface there was not warmth enough

and when at last it came to the surface there was not warmth enough to cause anything to grow. During the month of June young birds were frozen to death in their nests, and so great was their destruction that for at least three years after very few birds visited the colder parts of the northern states. The woods and forests seemed deserted by them. Small fruit, such as the juneberry, ripened and rotted on the trees in the forests because of no birds to eat them.

Crops that required warmth, like corn, generally falled to mature, and only here and there in a few places that seemed especially protected did an car ripen. The people after repeated hopes of a change in the weather settled down in almost despair. Large spots appeared on the face of the sun, as seen through smoky atmosphere, distinctly visible with the naked eye; frosts prevailed every month the whole year and almost daily, and in the few places where corn ripened was the only supply of seed for the next year, and it was held at an exceedingly high figure, with now and then an exception.

Mugazine of American History

Magazine of American History

OCCULTATIONS OF ALDEBARAN, 1948

No occultations of the bright star Aldebaran (Alpha Tauri) will be visible to observers in the United States during 1948.

VENUS, MARS JUPITER AND SATURN, 1948.

Below are given the times of the rising or setting of the Planets named, on the first, eleventh and twenty-first days of each month. The time of the rising or setting of any one of said Planets between the days named may be found with sufficient accuracy by interpolation. For explanation of keys (used in adjusting times given to your town) see pages 4 and 10—especially if you live outside New England.

1948	VENUS h. m.	Key	MARS h. m.	Key	JUPITER h. m.	Key S	ATURN B. m.
JANUARY 1st " 11th " 21st	sets 6 39P.M. " 7 09P.M. " 7 34P.M.		rises 8 55p.m. 8 16p.m. 7 30p.m.	F F E	rises 5 23A.M. 4 53A.M. 4 23A.M.	O rises	7 39P.M. E 7 01P.M. E 6 14P.M. D
FEBRUARY 1st " 11th " 21st		. I	" 6 32 p.m. rises 5 35 p.m. sets 6 52 a.m.	EEN	rises 3 50 a.m. " 3 19 a.m. " 2 47 a.m.	P rises	5 28p.m. D 6 55a.m. N 6 16a.m. N
MARCH 1st " 11th " 21st		. M	sets 6 08a.m. 5 19a.m. 4 33a.m.	0	rises 2 17a.m. 1 43a.m. 1 07a.m.	P sets	5 37a.m. N 4 55a.m. N 4 15a.m. N
APRIL 1st " 11th " 21st		. Q	sets 3 46a.m. 3 07a.m. 2 31a.m.	N N	rises 12 27A,M. " 11 45P.M. " 11 05P.M.	P "	3 30a.m. N 2 50a.m. H 2 12a.m. N
MAY 1st 11th 21st	sets 10 43P.M 10 36P.M	Q Q	sets .1 57A.M. " 1 25A.M. " 12 54A.M	M M	rises 10. 24 p.m. " 9 42 p.m. " 8 59 p.m.	P "	1 32a.m. N 12 54a.m. N 12 16a.m. N
" 11tl	t sets 9 37p.m	QQ	sets 12 21a.m " 11 48p.m " 11 20p.m	. K	rises 8 10 p.m. rises 7 26 p.m. sets 3 51 a.m.	P "	11 31P.M. N 10 53P.M. N 10 17P.M. N
11	trises 3 42A.M " 2 53A.M	L C D	sets 10 51p.m " 10 24p.m " 9 56p.m	I	sets 3 06A.M. " 2 22A.M. " 1 39A.M	. B # "	9 40 p.m. N 9 04 p.m. M 8 27 p.m. M
1	trises 1 47A.M. 1 32A.M.	L D L C	sets 9 27p.m " 9 01p.m " 8 35p.m	. Н	sets 12 53A.M " 12 13A.M " 11 29P.M	. B sets	
SEPTEMBER 1s " 11t " 21s	trises 1 24A.M	ı. C ı. D	sets 8 08p.m " 7 45p.m " 7 23p.m	. E	sets 10 48p.m " 10 11p.m " 9 35p.m	В "	3 37a.m. E 3 04a.m. F
OCTOBER IS	trises 1 57A.M	1. E 1. F	sets 7 02P.M 6 44P.M 6 27P.M	ı C	sets 9 00 p.m " 8 27 p.m " 7 54 p.m	. B "	1 57a.m. F 1 22a.m. F
November 1s	rises 2 56A.M. 3 17A.M.	4. I	sets 6 11P.M " 0 00P.M " 5 51P.M	t. B	sets 7 19 p.m " 6 48 p.m " 6 18 p.m	t. B "	12 08a.m. F 11 28p.m. F
DECEMBER 1s " 11t " 21s	st rises 4 04A.h. 4 28A.h	а. L а. М а. N	sets 5 44P.M 5 40P.M 5 39P.M sets 5 38P.M	i. B i. B i. B	sets 5 48P.M 5 18P.M 4 49P.M sets 4 21P.M	1. B "	10 11 p.m. F 9 33 p.m. F

MORNING AND EVENING STARS, 1948

(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 4, May 28, and September 25. On these dates it will set 1h. 36m., 1h. 46m., and 0h. 45m., respectively, after sunset. It will be seen as a Morning Star when near its greatest western elongations, about March 17, July 16, and November 4, on which dates it will rise 0h. 58m., 1h. 23m., and 1h. 40m., respectively, before sunrise.

Venus will be an Evening Star until June 24 and a Morning Star the rest of the year. It will attain its greatest brilliance of the year on July 31.

Mars will be a Morning Star until February 17 when it reaches opposition, and an Evening Star the rest of the year. It will be brightest at the time of opposition, which is also the time it is closest to the earth during the year.

Jupiter will be a Morning Star until it reaches opposition on June 15 and then an Evening Star through the remainder of the year.

Saturn starts the year as a Morning Star, but becomes an Evening Star on February 8 when it reaches opposition. From February 8 to August 19 it remains an Evening Star; then, after passing conjunction, it becomes a Morning Star again for the rest of the year.

CALCULATIONS AND CORRECTIONS IF YOU LIVE OUTSIDE NEW ENGLAND

(For New England - See Page Four)

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

A direct reading of the figures on the Almanac pages gives information that applies precisely and solely to Boston. The examples which follow interpret the significance of this information and illustrate the way to get the same information for a place outside New England, such as Dallas. The date, April 12, used for the

purpose of the illustrations, has been chosen at random.

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

	BOSTON		DALLAS				
Sunrise Key Letter	5:07	A.M.E.S.T.	Sunrise (Boston) Correction (Column G, page 12)	5:07 A.M.E.S.T.			
			Sunrise (Dallas)	5:59 A.M.C.S.T.			
Sunset Key letter	6:23	P.M.E.S.T.	Sunset (Boston) Correction (Column K, page 12)	6:23 P.M.E.S.T.			
			ii, page ii,	.00			
			Sunset (Dallas)	6:58 P.M.C.S.T.			

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

BOS		DALLAS					
(Latitude 4	2° 22′ N.)	(Latitude 32° 48' N.)					
Sunrise Subtract length of twilight (Column	5:07 A.M.	Sunrise Subtract length of twilight (Column	5;59 A.M.				
4 of table)	1:39	4 of table)	1:28				
Dawn breaks Sunset Add length of twi-	3:28 A.M.E.S.T. 6:23 P.M.	Dawn breaks Sunset Add length of twi-	4:31 A.M.C.S.T. 6:58 P.M.				
light	1:39	light	1:28				
Dark descends	8:02 P.M.E.S.T.	Dark descends	8:26 P.M.C.S.T.				

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

BOSTON		DALLAS		
Sundial time Sun fast Eastern Standard Time	2:34 P.M. -:15 2:19 P.M.	Sundial time Sun fast Correction (Col- umn I, page 12) Central Standard Time	9:17 A.M. -:15 +:43	
		7 1111 C	9:45 A.M.	

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

BOSTON

13h 15m

Sunset

6:58 P.M.

DALLAS

Length of day (From calendar pages)

Sunrise Length of Day 5:59 A.M. 12h 59m

Moonrise and Moonset. The procedure for finding the times of moonrise and moonset follows that for finding those of sunrise and sunset except that, for localities outside New England, the constant additional correction taken from Column 3 on page 12 must be applied.

BOSTON

DALLAS

Moonset Key letter 10:06 P.M., E.S.T.

Moonset (Boston) 10:06 P.M. Correction (Column P, page 12) +:16 Correction (Column 3, page 12) +:04

Moonset (Dallas) 10:26 P.M., C.S.T.

Moon Souths. The time the moon souths in Boston is converted to the time it is due south in a locality other than Boston by applying the appropriate corrections from Columns I and 3 on page 12.

BOSTON

DALLAS

Moon souths

2:17 P.M.E.S.T.

Moon souths (Boston) 2:17 P.M. Correction (Column I, page 12) Correction (Colunin 3, page 12) +:04

/Moon souths (Dallas) 3:04 P.M., C.S.T.

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

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

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

TIDES: See page 7.

WEATHER OUTSIDE NEW ENGLAND

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

ALMANAC DATA — OUTSIDE NEW ENGLAND	TABLE FOR FINDING TIMES OF SUNRISE, SUNSET, MOONRISE, MOONSET, AND RISING AND SETTING	OF PLANETS TO WITHIN 5 MIN, ACCURACY ANYWHERE IN U. S. A.	(See explanation on preceding pages 10 and 11.)
	TABLE		

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			Your town (interpolate between	Atlanta, Ga. Butte, Mont. Charleston, W. Va. Chieago, Ill. Cineimati, O. Dalas, Tex. Denver, Colo. Des Moines, Ia. Detroit, Mich. Indianapolis, Ind. Jacksonville, Fla. Louisville, Ky. Miami, Fla. Minneapolis-St. Paul, Minn. New Orleans, La. New Orleans, La. New Orleans, La. Philadelphia, Pa. Philadelphia, Pa. Raleigh, N. C. Raleigh, N. C. Raleigh, N. C. Raleigh, N. C. Raleigh, N. S. Rochester, N. Y. St. Louis, Mo. Seattle, Wash.

PRINCIPAL HOLIDAYS, ETC. IN 1948

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

Jan. 1 (*) New Year's Day

Jan. 8,(**) Battle of New Orleans Jan. 19 (**) Robert E. Lee's

Jan. 19 (**) Robert E. Lee's Birthday

Jan. 26 (**) MacArthur Day (Ark.)

Jan. 29 (**) McKinley's Birthday Feb. 8 (**) Arbor Day (Ariz.)

Feb. 10 (**) Mardi Gras

Feb. 12 (**) Abraham Lincoln's Birthday

Feb. 14 (**) Admission Day (Arizona)

Feb. 14 (***) Valentine's Day

Feb. 15 (***) Susan B. Anthony Day

Feb. 22 (*) George Washington's Birthday

Mar. 1 (**) State Day (Nebraska)
Mar: 2 (**) Texas Independence
Day

Mar. 7 (**), Burbank Day (Cal.)

Mar. 15 (**) Jackson Day (Tennessee)

Mar. 17 (**) St. Patrick's or Evacuation Day

Mar. 25 (**) Maryland Day

Mar. 26 (**) Good Friday (Conn., Del., Fla., La., Md., Minn., N. J., Penn. & Tenn.)

Mar. 29 (**) Easter Monday (N. C.)

Apr. 1 (**) State Election (Michigan)

Apr. 6 (**) Army Day

Apr. 10 (***) Arbor Day (Neb.)

Apr. 12 (**) Halifax Day (N. Car.)

Apr. 13 (**) Jefferson Day (Mo., Okla., Va.)

Apr. 14 (***) Pan American Day Apr. 19 (**) Patriots' Day (Me.,

Mass.)
Apr. 21 (**) San Jacinto Day

(Texas)

Apr. 22 (**) Fast Day (N. H.)

Apr. 24 (**) Arbor & Bird Day (Mass.)

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

May 4 (**) R. I. Independence

May 9 (***) Mother's Day

May 10 (**) Memorial Day (N. C. & S. C.)

May 20 (**) Mecklenburg Day (N. C.)

May 22 (***) Nat'l Marine Day May 30 (*) Decoration or Memorial Day

June 3 (**) Jefferson Davis Day (Ala., Ark., Fla., Ga., La., Miss., S. C., Tenn., Tex. & Va.)

June 14 (**) Flag Day (Mø. & Pa.)

June 15 (**) Pioneer Day (Idaho) June 17 (**) Bnnker Hill Day (Suffolk County, Mass.)

June 20 (***) Father's Day June 20 (**) West Virginia Day July 4 (*) Independence Day

July 13 (**) Forrest's Day (Tenn.)

July 24 (**) Pioneer Day (Utah)

Ang. 1 (**) Colorado Day

Aug. 4 (***) Coast Gnard Day Aug. 16 (**) Bennington, Vt. Battle Day

Aug. 19 (***) National Aviation Day

Ang. 30 (**) Huey Long Day (La.)

Sept. 6 (*) Labor Day

Sept. 9 (**) Admission Day (Cal.) Sept. 12 (**) Defender's Day (Md.)

Sept. 13 (**) Election Day (Me.)

Sept. 17 (***) Constitution Day Sept. 26 (***) Am. Indian Day

Oct. 6 (**) Missouri Day

Oct. 12 (*) Columbus Day

Oct. 27 (***) Navy Day

Oct. 31 (**) Nevada Day Nov. 1 (**) All Saints' Day (La.)

Nov. 2 (*) Election Day

Nov. II (**) Armistice Day

Nov. 23 (**) Repudiation Day (Md.)

Nov. 25 (*) Thanksgiving Day

Dec. 7 (**) Delaware Day

Dec: 21 (***) Forefather's Day

Dec. 25 (*) Christmas Day

19	1948] JANUARY, FIRST MONTH.														
	ASTRONOMICAL CALCULATIONS.														
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ecl	3	22	53	9	22	11	15	21	14	21	20	02	27	18	36
A	4	1	47	10	22	03	16	21	03	22	19	48	28	18	21
S. O	5	22	41	11	21	54	17	20	51	23	19	35	29	18	05
	B	22	34	12	21	44	18	20	39	24	19	20	30	17	49

- C Last Quarter, 3rd day, 6 h. 13 m., morning, W.
 New Moon, 11th day, 2 h. 44 m., morning, E.
 ▶ First Quarter, 19th day, 6 h. 32 m., morning, E.
 Full Moon, 26th day, 2 h. 11 m., morning, W.

KEY	KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND. SUBJECTION OF SUBJECT SU																	
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313	1	Sa.) ;	9	N	4	56_1	DI	9	57	3	3	$3\frac{1}{4}$	11 _M 40	L	4 ^A 25	Lib	20



Bring from the winter woods What never the eye can see: Flowers that the winter hoods, That stand, invisibly, In frozen solitudes.

This is the winter daring
Of what we said would die,
Far on some winter faring
From names we knew them by . . .
Give them the warmth of your caring,
Prove that death is a lie.

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

Farmer's Calendar.

Th. Circumcision. Tides $\begin{cases} 9.6 \\ 10.4 \end{cases}$ EastBloomers introduced Peri Con {9.6} 9.9 years ago бФС бФО Sup. Tides {9.5 9.4 winds 2nd a. Christmas. □Ψ⊙. \ 8.9 4 Bad floods Tides $\begin{cases} 9.5 \\ 1896 \end{cases}$ Take down Christmas greens Tides $\begin{cases} 9.5 \\ 8.3 \end{cases}$ Tu. Epiph. 6 followed Geo. C. Marshall app. Tides \{9.6}
Sec. of State 1947 The Battle of La. Hol. New Orleans & \(\frac{1}{2}\tau_{\text{C}}\). Hol. La. Photography first Stat. Tides $\begin{cases} 9.7 \\ 8.2 \end{cases}$ Crides low 10Sa. or rain. lst S. af. 延pi. 6女 C. Tides (8.8 Tides $\left\{\frac{9.7}{2}\right\}$ Plow Monday MuchS. S. Lexington & Q (Mapo. St. Hillary. Coldest b Gr. Hel. in year b Lat. S. \ \\ 8.4 \\ 9.6 Tides $\begin{cases} 8.5 \\ 9.0 \end{cases}$ 16|Fr. enacted 1920
Benj. Franklin
Bapt. 1706

Con Tides \{ 8.6 \ More \} \{ 8.7 \ More \} \] 20 S. a. Ep. Tides ${8.7 \atop 8.5}$ 18DsnowRobt. E. Lee born Feed the Birds now Hol. in Tides ${8.8 \atop 8.8}$ 19|M. assouth Tides \ 9.1 20 Tu. theSteel strike 1946 Tides $\begin{cases} 9.4 \\ 8.2 \end{cases}$ 21|WcoldMany chimney Tides $\begin{cases} 9.8 \\ 8.4 \end{cases}$ strengfires now Phillips Brooks d. 1893 Tides $\begin{cases} 10.2 \\ 8.7 \end{cases}$ 6ô€. Chigh. { 10.7 9.1 Gold disc. 24|Sa. thens. Calif. 1848 { 11.1 9.5 Conversion St. Paul Septuag.S. 26 M. St. Matthias δhα. C in Peri. in Tides { 11.5 Very cold 1939 Tu. Expectof Gr. Hel. ${10.1 \atop 11.4}$ 63C. thaws Tides ${10.3 \atop 11.0}$ in some Chas. I beheaded 64 (. Ceq. 10.2) 30|Fr. 31 Sa. places.

Let the wind growl in the chimney and the sleet rattle on the pane. Well enough that you sit with your feet in the oven. But have you no conselence, man? As sure as blight, borers, weevils, scab, drought, and taxes, the little dumb field mice will be girdling the tender bark of the apple trees you didn't put wire around last fall. The lime spreader, the hay rake, and how many other machines and tools are weathering it out there in your forgotten acres? And what of the last twenty bags of lime that have been sitting out in the corner of the fourteen acre field since last August?

Ease is a poor conscience if it be not well-earned. You will carry the hurden of your neglect through till spring, and pay for it thereafter.

How much you can do with this ease of yours. Many times you have boasted that there was nothing you couldn't do. Why not take that saw and hammer now and get to making those cold closets in the cellar, re-board the attic stairs, put down those new planks in the horse barn. And after the big snows, you should be busy shoveling off your roofs. If you run out of jobs, Ma has a lot of them up her sleeve.

Your accounts will be telling you the story of the past year. Make the most of what they have to tell you, and plan accordingly for the coming year.

1948]

FEBRUARY, SECOND MONTH.

ASTRONOMICAL CALCULATIONS. .

ä	Days.	0	1	Days.	0	/	Days.	0	/	Days.	0	1	Days.	0	1
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l iii	2	16	58	8	15	10	14	13	12	20	11	07	26	8	55
chi	3	16	41	9	14	51	15	12	52	21	10	46	27	8	33
Ιã	4	16	23	10	14	32	16	12	31	22	10	24	28	8	11
o, s	5	16	05	11	14	12	17	12	11	23	10	02	29	7	48
0	6	15	47	12	13	53	18	11	50	24	9	40			- 1

- Last Quarter, 1st day, 7 h. 31 m., evening, E.
 New Moon, 9th day, 10 h. 2 m., evening, W.
 First Quarter, 18th day, 8 h. 55 m., evening, W.
 Full Moon, 24th day, 12 h. 16 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.														
To L To We have here here here here here here here he	. 88													
$ 3^2 $ 1 S - $ 658 $ N $ 458 $ D $ 959 $ 2 $ 3\frac{3}{4} $ $ 4\frac{1}{4} $ - $ - 5\frac{6}{11} $	2 Sco 21													
$[33]$ $[2]$ M. $[657]$ N $[459]$ D $[1002]$ $[2]$ $[4\frac{3}{4}]$ $[5\frac{1}{4}]$ $[12\frac{5}{4}50]$ M $[559]$	Sco 22													
[34] 3 [Tu.] 656 [M] 500 [E] 1004 [2] $5\frac{3}{4}$] $6\frac{1}{4}$] 158 [0] 647	Sag 23													
[35] 4] W. $[6.55]$ M $[5.01]$ E $[10.06]$ 2 $[.6\frac{3}{4}]$ $7\frac{1}{4}$ 2 03 $]$ P $[.7.37]$														
$[36]$ 5 Th. $[6.54]$ M $[5.03]$ E $[10.09]$ 2 $[7\frac{3}{4}]$ $[8\frac{1}{4}]$ 4 05 $[9]$ 8 28	Sag 25													
37 6 Fr. $ 653 $ M $ 504 $ E $ 1011 $ 2 $ 8\frac{1}{2} $ $ 9\frac{1}{4} $ 501 Q $ 919 $	Cap 26													
$\begin{bmatrix} 38 & 7 \end{bmatrix}$ Sa. $\begin{bmatrix} 6 & 52 \end{bmatrix}$ M $\begin{bmatrix} 5 & 05 \end{bmatrix}$ E $\begin{bmatrix} 10 & 14 \end{bmatrix}$ 2 $\begin{bmatrix} 9\frac{7}{4} \end{bmatrix}$ 10 $\begin{bmatrix} 5 & 49 \end{bmatrix}$ Q $\begin{bmatrix} 10 & 16 \end{bmatrix}$	Cap 27													
$ 39 $ 8 S $ 650 $ M $ 507 $ E $ 1016 $ 2 $ 10 $ $ 10\frac{3}{4} $ $ 6^{\text{A}}_{\text{M}}29 $ P $ 1059 $	Aqr 28													
$[49]$ 9 M. $[649]$ M $[508]$ E $[1019]$ $[2]$ $[10\frac{3}{4}]$ $[11\frac{1}{4}]$ sets $[-11\frac{5}{4}]$	Aqr 29													
$[4^{1}]^{10}$ $[10, 6, 48]$ M $[5, 09]$ E $[10, 21]$ $[2]^{11\frac{1}{2}}$ — $[5^{p}_{M}39]$ E $[12^{p}_{M}31]$	Aqr 1													
	Psc 2													
$43 \frac{12}{12}$ Th. 645 M 512 E 1026 $2 \frac{01}{2}$ $\frac{03}{4}$ 743 H 155	Psc 3													
$oxed{44 13 \text{ Fr. } 6 \ 44 \text{ L} 5 \ 13 \text{ F} 10 \ 29 \ 2 \ 1^{2} \ 1^{\frac{1}{4}} \ 8 \ 45 \ \text{II} \ 2 \ 35}$	Ari 4													
$45 14 \text{ Sa.} 6 43 \text{ L} 5 14 \text{ F} 10 32 2 1\frac{3}{4} 2 9 48 \text{ K} 3 16$	Ari 5													
$46 15 $ S- $6 41 $ L $5 16 $ F $10 34 $ 2 $2\frac{1}{4}$ $2\frac{3}{4}$ $10\frac{5}{8}$ L $3 58 $														
$\begin{bmatrix} 47 & 16 & M. & 6 & 40 \\ 40 & 15 & 17 \\ 10 & 37 \\ 2 & 3 \\ 3 & 3 \\ 2 & 3 \end{bmatrix} \xrightarrow{\text{N}} \begin{bmatrix} 3 & 1 \\ 3 & 2 \\ 2 & 3 \end{bmatrix}$														
$\begin{bmatrix} 48 & 17 & \text{Tu.} & 6 & 39 & \text{L} & 5 & 18 & \text{F} & 10 & 40 & 2 & 3\frac{3}{4} & 4\frac{7}{4} & 12\frac{3}{4}01 & \text{N} & 5 & 23 \end{bmatrix}$	Tau 8													
[49] 18 [W. [637]] 1 [519] [1042] 2 [43] 5 [4] 1 13 [9] 6 27	[G'm] 9													
$5 \circ 19$ Th. 636 L 521 F 1045 2 $5\frac{3}{4}$ $6\frac{1}{4}$ 2 25 Q 7 26														
5^{120} Fr. 634 L 522 F 1048 2 $6\frac{3}{4}$ $7\frac{1}{2}$ 335 Q 828	Cnc 11													
$\begin{bmatrix} 5^2 & 21 & 8a & 6 & 33 \\ 2 & 2 & 2 & 33 \end{bmatrix}$ $\begin{bmatrix} 5 & 23 \\ 2 & 3 \end{bmatrix}$ $\begin{bmatrix} 10 & 50 \\ 2 & 3 \end{bmatrix}$ $\begin{bmatrix} 7\frac{3}{4} \\ 8\frac{7}{2} \end{bmatrix}$ 4 39 $\begin{bmatrix} 9 & 33 \\ 2 \end{bmatrix}$														
$\begin{bmatrix} 53 & 22 & 5 & 6 & 31 \end{bmatrix}$ $\begin{bmatrix} 15 & 24 & 6 \end{bmatrix}$ $\begin{bmatrix} 10 & 53 \end{bmatrix}$ $\begin{bmatrix} 2 & 8\frac{3}{4} \end{bmatrix}$ $\begin{bmatrix} 9\frac{7}{2} \end{bmatrix}$ 5 32 $\begin{bmatrix} 2 & 36 \end{bmatrix}$														
$\begin{bmatrix} 54 & 23 & M. & 6 & 30 & K & 5 & 26 & G & 10 & 56 & 2 & 9\frac{3}{4} & 10\frac{7}{4} & 6\frac{1}{4} & 6\frac{1}{4} & 6 & 11\frac{1}{4} & 6\frac{1}{4} & 6$	Leo 14													
[55] 24 Tu. $[6]$ 28 K $[5]$ 27 G $[10]$ 59 $[3]$ $[10]$ $[4]$ rises $[-4]$ $[4]$														
$\begin{bmatrix} 56 \ 25 \ \text{W}. & 6 \ 27 \ \text{K} \end{bmatrix} \begin{bmatrix} 5 \ 28 \ \text{G} \end{bmatrix} \begin{bmatrix} 11 \ 01 \end{bmatrix} \begin{bmatrix} 3 \ 11 \frac{1}{2} \end{bmatrix} \begin{bmatrix} 6 \ \text{p} 48 \end{bmatrix} \begin{bmatrix} 6 \ \text{m} 48 \end{bmatrix} \begin{bmatrix} 12 \ \text{m} 32 \end{bmatrix}$	Vir 15													
$\begin{bmatrix} 57 & 26 \text{ Th.} & 6 & 25 \text{ K} & 5 & 30 \text{ G} & 11 & 04 & 3 & 0 \end{bmatrix} \begin{bmatrix} 0\frac{1}{2} & 8 & 05 \end{bmatrix} \begin{bmatrix} 1 & 24 & 14 & 14 \end{bmatrix}$,													
$\begin{bmatrix} 58 & 27 & \text{Fr.} \end{bmatrix} \begin{bmatrix} 6 & 24 & \text{K} \end{bmatrix} \begin{bmatrix} 5 & 31 & \text{G} \end{bmatrix} \begin{bmatrix} 11 & 07 & 3 \end{bmatrix} \begin{bmatrix} 0\frac{3}{4} \end{bmatrix} \begin{bmatrix} 1\frac{7}{4} \end{bmatrix} \begin{bmatrix} 9 & 20 & \text{K} \end{bmatrix} \begin{bmatrix} 2 & 14 & 24 & 24 & 24 & 24 & 24 & 24 & $	Lib 17													
$\begin{bmatrix} 59 & 28 & Sa. & 6 & 22 & K & 5 & 32 & G & 11 & 10 & 3 & 1\frac{3}{4} & 2 & 10 & 33 & M & 3 & 02 \end{bmatrix}$														
$60 29 \mathbf{S} - 6 21 \mathbf{K} 5 33 \mathbf{G} 11 13 3 2\frac{1}{2} 3 11 144 \mathbf{N} 3_{\mathbf{M}}^{\mathbf{A}} 51 14 144 1$	Sco 19													



This darkness before snow Is the womb's darkness; Wildness and whiteness grow There, stranger than we know, — As presently will show. The darkness where they go Is the tomb's darkness: Again to sleep... to grow, As presently will show In more shapes than we know.

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

Farmer's Calendar.

1	D	Sexag. St. Bridget. (9.8 High
2	М.	Durif of Mort Groundhog win (9.5)
3	Tu.	81° below—Coldest N. Am. 19.8 winds.
4	W.	Revolutionary War & Gr. Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
5	Th.	Lancaster Massacre 1 7/17 18.1 11 ore
6		St. Dorothea. C_{low}^{rides} Tides $\{9.1, 7.11010\}$
_	Sa.	\$\overline{\pi_{\text{Peri.}}^{\text{in}}}\$ Tides \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	D	Quin. S. Boy Scouts 8 2 (9.4)
9	_	Tu. 1910 C C (8.2)
	Tu.	Set hens now to 15th Apo. Tides \{ \begin{array}{l} \text{Tides} \\ \text{Shrobe} & \mathbb{Tue} \end{array} \] Shrobe \mathbb{Tue} & \text{Mardi \text{Stat. in Gras}} \text{Stat. in R.A.} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
. 11		Ash Thed. 6 & C. (8.6 Milder
11	1	Lincoln's Tides \{\frac{8.8}{9.5}\} but probably
	Th.	Cotton Mather 10 7 7 00 Tides [8.9]
. 1	1	b. 1663 Of C. Eq. 11des [9.8]
14		St. Val. Day Adm. Day (9.0 snows.)
15		1st S. L. Quadrag. Tides (8.8)
16	1	$[17^{th} d]$ nearest \bigoplus $\{9.2, This\}$
14	Tu.	Auid Deer & Gr. Hel. of (9.3) "Worst in year" & Lat. N. of (9.3) Michelengele Ember
118	1	Michelangelo Ember Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1	Th.	65℃ 6 ♥ ⊙ inf. (9.5 always
20		Ember Runs Tides (9.8 has one Days high Tides (8.8 has one Card. Spellman given Tides (10.2 fine red hat 1946
$\frac{21}{1}$		red hat 1946 Fine 8.8 fine
	D	2nd S. I. Washington's Tides (10.6) 9.3
23	M.	6 6 C C Perl. 9 in & 6 h C (11.1)
24	Tu.	Paris Revo. 1848 Tides 11.4 week.
28	$\delta W.$	Paris Revo. Tides $\begin{cases} 11.4 \\ 1848 \end{cases}$ Week. SI. Maithias Tides $\begin{cases} 11.5 \\ 10.4 \end{cases}$ This
26	Th.	Mt. Etna $\delta \Psi \subset \mathbb{C}_{Eq.}^{on}$ {11.4]
27	Fr.	Rockport, Mass. Tides (10.8 week is
28	Sa.	Tides $\begin{cases} 10.6 \\ 10.8 \end{cases}$ not it.
29	D	3rd S. in L. & Stat. in Tides \ 10.3 9.6
1		

A man may be strong Yet not mow well

If the snows are not deep, this is a good month to cut and draw logs from your woodlands. But are you pre-pared to undertake this work to the best advantage? An increasing number of regions in New England are being served in just this kind of under-taking by the New England Forestry Foundation. A nonin profit organization (there may be similar organizations other sections of the country), the Foundation will charge you a reasonable fee to cruise and survey your timber, make a full written report of your forests with specific recommendations for future handling of it, thinning, reforesting, etc. They will, if you wish, mark the weam, more mature trees for imme-diate cutting, find a buyer, has pays you before see that he pays you before cutting commences, and find a crew to do the actual work. They are prepared to assume permanent management your forest crop.

Where you have found it difficult to undertake all the hazards and headaches of a lumbering operation, this would seem to offer an ideal arrangement for the landowner with even a small acreage in woodland.

If you are a practical vissionary, you may see in the future landowners everywhere planning for the continuous management of their forest lands. Surely this is one answer to the perpetuation of our forests.

194	18]		MA	R	CH	, Тні	RD	M	ONTH.						
	ASTRONOMICAL CALCULATIONS.														
l ii	g Days. 0 /														
Declination	1	78. 25	7	5	06	13	2	45	19	0s	. 23	25	1	59	
ina	2	7 02		4	43	14	2	22	20	0n	.01	26	2	22	
ocli	3	6 39	9	4	20	15	1	58	21	0	24	27	2	46	
ă	4	6 16	10	3	56	16	1	34	22	0	48	28	3	09	
ê	5	5553	11	3	32	17	1	10	23	1	12	29	3	33	
9	6	5 30	12	3	09	18	0	47	24	1	35	30	3	56	
1					_	_									

- C Last Quarter, 2nd day, 11 h. 35 m., morning, W.
- New Moon, 10th day, 4 h. 15 m., evening, W.
- First Quarter, 18th day, 7 h. 27 m., morning, E.
- \bigcirc Full Moon, 25th day, 10 h. 10 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND. Day of Year Day of Month Day of the Week Length of San Days. h. m. m D's Noon Place N Full Sea. (2) D D F. D. Sets. Morn Even h. h. Rises. h. 1 M.- 6 19 к 534 G 11 15 31/4 $3\frac{3}{4}$ 61 20 4 4.40 Sag Tu. 617 $4\frac{3}{4}$ 12^A54 62 G 11 $4\frac{1}{4}$ к 536 18 5 31|Sag P $5\frac{3}{4}$ 63 3 W. 616 к 537 H1121 $5\frac{1}{4}$ 4 1 58 Q 6 22|Sag | 22 $6\frac{1}{4}$ 4 Th. 614 J 5 38 H111244 7 2 57 64 Q 7 14 Cap 23 3 48 65 5 Fr. 612 J = 539H111274 $7\frac{1}{4}$ 8 8 06 Cap 24 Q 5 $8\frac{3}{4}$ 66 6 Sa. 6 11 J 5 40 H11308 4 30 8 56 Cap 25 Q S. 5 91 609J | 5 | 42H[11]329 67 $5 \ 05$ 9 43 Agr | 26 P $9\frac{3}{4}$ 8 M. J 5 43 5 101 68 $|6\ 07|$ H|11|355 35 N 10 29 Agr 28 9 Tu. 6 06 J 5 44 $5|10\frac{1}{4}|10\frac{3}{4}$ HI11 38 5_M58 69 м 11 12 Psc 2970 10 W. 11 $11\frac{1}{2}$ 604J 5.45 H 41 6|11sets 11⁴54 Psc 30 71 11 Th. 6 02 J = 546H||1144 $6|11\frac{1}{2}$ 6_M38 1 12 P35 Ari 72 12 Fr. $0^{\frac{1}{4}}$ 601J | 5 48 |H|116 0741J 1 15 Ari $0^{\frac{1}{2}}$ 13|Sa. 5 59 J||549H || 116 $0^{\frac{3}{4}}$ 8 46 3 1 58 Ari L 7 7414S-5 57 1||5|50I 11 1 1= 53 9 53 2 M 42 Tau 7 15 M. $1\frac{3}{4}$ $5\,56$ 15 51 111155 $2\frac{1}{4}$ 11_M03 0 29 Tau 5 76 16 Tu. 5 54 $2\frac{1}{2}$ 1|5|5211158 3 4 21 G'm 6 77 17 W. 8 5.5215531||12|01 $3\frac{1}{4}$ 12_M14 4 5 17 G'm Q 78 18 Th. 5 50 8 15 54 11204 $4\frac{1}{4}$ 5 1 24 6 8 17 Cnc Q 112078 79 19 Fr. $|5\ 49|$ 1||5||56 $5\frac{1}{4}$ 6 2 28 19 Cnc 9 Q $6\frac{1}{4}$ 80 20 Sa. 5 47 1||5||57112109 7 3 24 Q 8 20 Leo 10 81/4 81 21 S-1 5 58 1121375 $|5\ 45|$ 9 4 10 9 20 Leo P 11 82 22 M. 11216 $8\frac{1}{2}$ 5431|5|599 9 4 46 o 10 15 Vir 12 8 3 23 Tu. 5 42 1||6||00|112189 $9\frac{1}{2}$ 10 5 17 L|11 08|Vir 13 84 24 W. $10|10^{\frac{1}{2}}$ $|5\ 40|$ 1601 $J[12\ 21]$ $10^{\frac{3}{4}}$ 5^A43 к 11^р59 Lib 14 J | 12| 24 | 10 |85 25 Th. 5 38 H | 602 $11\frac{1}{4}$ $11\frac{1}{2}$ rises 86 26 Fr. |5|36H = 604JI1227 1008_m09 L|12⁴49 Lib 1587 27 Sa. 5 35 H605J 12 30 11 $0^{\frac{1}{2}}$ $0\frac{3}{4}$ 9 23 38 Sco 1 16N 88 28 S. .1533H606J|12/33|11 $1\frac{1}{4}$ $1\frac{3}{4}$ 10 35 2 29 Sco 0 17л 12 36 11 80 29 M. 5 31 H|6072 $2\frac{1}{2}$ 11^p_M48 Q 3 20 Sag 18 90 30 Tu. 5 29 $2\frac{3}{4}$ $3\frac{1}{4}$ H | 608J|1239|124 13|Sag 19 91 31 W. 5 28 H 6 09 J 1241 12 $3\frac{1}{2}$ 12⁴47 5,406|Sag 21 (2)

MARCH hath 31 days.

Г1948



Bird-song! . . . But do not try Translation of that speech; It is all air and sky And such—and who's to teach, To any mother's son, That lexicon!

\$ 9.9 8.8

ı	2	1 u.	Icebound 1907 Texas [8.1 Bad]
ı	3	W.	$\left \lozenge \stackrel{\text{Stat. in}}{\text{R.A.}} \circ \mathscr{U} \cdot \right \left\{ \stackrel{9.1}{7.7} \text{ blustery} \right $
ı	4	Th.	The Ides Beware of begin Old Colind Tides {8.8} 7.5
l	5	Fr.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
l	6	Sá.	Tides \{ \frac{8.7}{7.7} weather
I	7	C	4th S. in L. (apo. Burbank 88.9 8.0
ł		M.	69 (. Tides (8.4 continues.
ı	9	Tu.	Tides $\begin{cases} 9.8 \\ 8.7 \end{cases}$ Now
ı	10	W.	Telephone first Blizzard Tides \(\begin{array}{l} 9.4 \ 9.0 \ cold \end{array} \)
ı	11	Th.	J. Appleseed & in & Tides \ \frac{9.5}{\text{c}} \ rain
I	12	Fr.	St. Gregory. $\square \odot \odot$. $\mathcal{C}_{\text{Eq.}}^{\text{on}}$ {9.2 or
ŀ	13	Sa.	First printed Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	14	C	Passion S. (5th) 69 C. (9.5)
ı	15	M.	Caesar ass. Jackson Day Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	16	Tu.	Income taxes Tides $\begin{cases} 9.6 \\ 8.5 \end{cases}$
	17	W.	St. Patrick Evac. $\norm{Pay}{\norm{Pay}}\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{\norm{Pay}{Pa$
	1		

Chigh.

Palm S. (6th 6 h C.63 C. (10.0)

Purim. (Leap Year) Fast of Tides 11.2 Tomorrow Esther

Ann. Lady Day. Maundy & WC Con Thurs.

Tides $\begin{cases} 10.8 \\ 9.9 \end{cases}$

Crides low.

d Stat. In

Tides $\begin{cases} 10.5 \\ 9.7 \end{cases}$

Tides $\begin{cases} 10.9 \\ 10.8 \end{cases}$

Swallows arr. 2 days late Capistrano, Calif. 1947 "Give Me Liberty", 1775 Oters

Aspects, Holidays, Heights of

High Water, Weather, etc. C. J. Swan State Day d. 1935 Neb.

Ind. Day 19.5

Tides $\begin{cases} 9.5\\ 8.1 \end{cases}$

[25th

 ${9.5 \atop 8.2}$

Spring

few

mild

days with

Md. {11.2 Day {11.1

for some

Tides $\begin{cases} 9.9 \\ 8.5 \end{cases}$

Tides ${9.4} \\ 7.9$

occ. showers.

 $\{^{1\overline{1},1}_{10.5} Cool again$

Tides $\begin{cases} 10.4 \\ 9.2 \end{cases}$ time.

St. David.

Nantucket

M

18 Th.

19 Fr.

20 Sa.

 $21|\mathbf{C}$

22 M.

 $24~\mathrm{W}.$

25 Th.

26 Fr.

 $28|\mathbf{C}$

29|M.

12/10

Apo.

CPeri.

in

Good Fri. $\{_{11.0}$ Maple sap Q ln runs now Peri.

Hol. N. Car.

Easter S.

Alaska Purch, 1867

Monday

W. 6210

Farmer's Calendar.

The only predictable thing about this month is its unpredictability. "March comes in like a lion but goes out like a lamb" will work, as likely as not, in reverse.

Make haste slowly this and be as month cautious about uncovering your straw-berries and garden beds as you will be in taking down your snow fences or the snow covers for your shrubs. Even several inches of fresh snow may not hurt your pushing bulbs but hard freezes will. Best to remove mulch only partially and plan to work the rest in later in April.

Have you had your spray machine put in order? How about your spray materials, fertilizers and seeds? Have you got extra points for your plough? If you haven't sawed that pile of cordwood better get at it and store it away. Be at the spreading of manure just as soon as you can. It is a good thing to spread manure over these late snows. for the melting snow will carry the goodness of it right into the soil.

As the trost comes out of the ground, it is easy to pick up loose rocks and stones that will later hold tight or be lost in the grass. Get at the litter of things around the yard and corners of the barn. Now is the time when they are still wet to pull the old leaves out from your hedge.

pruning orchard should be about done as you turn the corner into April.

APRIL, FOURTH MONTH.

1948]

ASTRONOMICAL CALCULATIONS.

n.	Days.	0	1	Days.	0	./	Days.	0	1	Days.	0	1	Days.	0 /
Declination.	1 2 3	5	$ \begin{array}{r} $	7 8 9	6 7 7	59 22 44	13 14 15	9 9 9	12 34 55	19 20 21	11 11 12	19 40 00	25 26 27	$\begin{array}{c c} \hline 13 & 20 \\ 13 & 39 \\ 13 & 58 \end{array}$
©'s D	5 6	5 6 6	51 14 37	$\begin{array}{c c} 10 \\ 11 \\ 12 \end{array}$	8 8 8	$ \begin{array}{r} 06 \\ 28 \\ 50 \end{array} $	16 17 18	10	16 38 58	$\begin{vmatrix} 22 \\ 23 \\ 24 \end{vmatrix}$	12 12 13	20 40 00	28 29 30	14 17 14 36 14 54

- Last Quarter, 1st day, 5 h. 25 m., morning, E.
 New Moon, 9th day, 8 h. 16 m., morning, E.
 First Quarter, 16th day, 2 h. 42 m., evening, E.

- O Full Moon, 23rd day, 8 h. 28 m., morning, W.
- ℂ Last Quarter, 30th day, 11 h. 48 m., evening, E.
 KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND

KEY) ((RRECTI	ONS	IAI	SLE. I	PAGE	14, FC	OR ALL	POINTS (OUTS	IDE NEW	ENGLAN	D.
Day of Year	Day of Month Day of	W eek	C Rises. m.	Key	Sets.		D h	ngth of ays. m.	a Sun Fast	Full Bos Morn h.	Sea, ton. Even	Rises.	Key	Souths.	D'S Place	Ioon's Age
92			26	_	6 10	_	12	44			$5\frac{1}{4}$	11A42	Q	5450	Cap	199
93	2 F		$\frac{1}{24}$	11				$\frac{1}{47}$		$\frac{4\frac{1}{2}}{5\frac{1}{2}}$	$6\frac{1}{4}$	$2^{1}29$	Q		Cap	
94			23		$6\overline{13}$			50		$6\frac{1}{2}$	71	3 06			Aqr	
95		3_5	1	G		1 1		53		$7\frac{1}{2}$	$8\frac{1}{4}$	3 38		_	Aqr	25
96	5 N		19		$6\overline{15}$	L L		56		$8\frac{1}{4}$	9^4	4 04	M		Psc	26
97			17	G				58		$9\frac{1}{3}$	$9\frac{3}{4}$	$\frac{1}{4}\frac{31}{26}$	1		Psc	27
98	7 V	- 1	16		617	1 1		01		$9\frac{3}{4}$	$10^{\frac{4}{1}}$	$\frac{1}{4} \frac{1}{47}$	J		Psc	28
99	8 T		14	G						$10\frac{1}{2}$	$10\frac{3}{4}$	5 _M 06			Ari	29
100	9 F	r. 5	12	G	619						$11\frac{1}{2}$	sets	_	11 _M 55		0
IOI	10 S	a. 5	11	G	620	К	13	10	15	7		7º44	M	12 _M ^P 39	T911	
102	11 5	3 _5	09		622			12	15	_	$0\frac{1}{2}$	8 54	0	1 26	Tau	2
103	12 N	I. $ 5$	07	G	623	K	13	15	15	$0^{\frac{1}{2}}$	1	10 06	P	-	G'm	
	13 T			G	624	K	13	18	16	$1\frac{1}{4}$	$1\frac{3}{4}$	11 _M 17	Q	- 1	G'm	
	14 W				625		13	21	16	2	$2\frac{3}{4}$		_		G'm	
	15 T				626			23		3	$3\frac{1}{2}$	12 ^A 23	Q		Cnc	6
	16 F				627			26		4	$\frac{1^{3}}{4}$	1 21	Q		Cnc	7
	17 S				628		13	29		5	$5\frac{3}{4}$	2 08	Q	7 11	Leo	8
	18 5				6 29					6	$-6\frac{3}{4}$	2 46	0		Leo	9
	19 M		56		6 31			34		$7\frac{1}{4}$	$7\frac{3}{4}$	3 18	M	8 58	Vir	11
	20 T				632			37		$8\frac{1}{4}$	$8\frac{3}{4}$	4 44	K	9 48	Vir	12
	21 W				6 33					$9\frac{1}{4}$	$9\frac{3}{4}$	5 09	J	10 37	Lib	13
	22 T				634					10	$10^{\frac{1}{2}}$	$-5_{\rm M}^{\rm A}32$	H	11 _M ^P 26	Lib	14
	23 F		- 1		6 35					11	$11\frac{1}{4}$	rises			-	
-	24 S		49		6 36							8 _M 13	N	$12_{M}^{A}15$	Sco	15
,	$25 \lesssim$		- 1		6.37					0	$0^{\frac{1}{2}}$	9 25	P	- 01		16
	26 M				6.38					$0\frac{3}{4}$	$1\frac{1}{4}$	10 32	Q		Sag	17
	27 T			- 11	640					$1\frac{1}{2}$	2	11 _M 32	Q			18
	28 W				$\frac{641}{640}$					- 1	$2\frac{3}{4}$		-		Cap	
	29 T			E	642	M	14	00	19	3	$3\frac{3}{4}$				Cap	
121	30 F	r. 4	4U	Εĺ	0 43	M	1+	U3	19	4	$\frac{1\frac{3}{4}}{1}$	1 _M 05	Q	5 _M 31	Aqr	21

APRIL hath 30 days.

[1948



Time, that has come so far, And has so far to go, Whose shapes and guises are All we have known, or know, Elects, beneath these skies, For this enchanted hom, To be, before our eyes, A stilled, eestatic flower.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, Etc.
	Th.	Only fools ob- 8 \Psi \infty State Elec. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
2	Fr.	b. 1877 Tides \{7.5 Now
3	Sa.	Geo. Washington given 11arvard LLD, 1776 (7.6 expect
4	C	Low S. Istaf. E. C Apo. \ \ 7.9 a
5	M	Elihu Yale b. 1649 Tides \{ 8.6 \\ 8.3 \}
-6	Tn.	Army Day Tides $\begin{cases} 8.8 \\ 8.7 \end{cases}$ rainy
7	W.	Roses and currants by Tides \\ 9.1 \\ 9.1
8	Th.	$\mathfrak{C}_{Eq}^{\text{on}}$ Tides $\begin{cases} 9.2 \\ 9.4 \end{cases}$ spell.
9	Fr.	March into Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
10	Sa.	Co. to colonize Virginia fd. 1606
11	C	2nd S. af. E. & Gr. Hel. \ 9.9 Some
12	M.	F.D.R. Hol. Tides $\{ \begin{array}{ccc} 10.1 \\ 9.0 \end{array} \}$
13	Tu.	ORIA. Va. Tides (10.1 nice) Pan American A C Q Gr. El. (10.0
14	W.	
15	Th.	Inc. Taxes 21 Stat. in Cruns 19.9 R. A. Chigh. 8.3
16	Fr.	Ave. date last $max = 0.7$ killing frost $max = 0.7$ $max = 0.7$
17	Sa.	Minot's Light b Stal. in 6 b (8.5)
18	C	3rd S.a. E. もるて、9 Gr. Hel. 19.7 8.9
19	М.	Peri. Mass. (9.5)
20	Tn.	Great snow Tides $\begin{cases} 10.2 \\ 10.1 \end{cases}$ days
21	W.	δΨα. · α on Hol. Tides {10.6
22	Th.	Fast Day Witches around Tides 110.6 (N. H.)
23	Fr.	St. George. (Partial Tides 11.2 Good
24	Sa.	D.S.T. begins Passover Arbor Day 10.3 in some places
25	C	D.S.T. begins Passover Arbor Day 10.3 in some places Mass. 4th S.a. C. St. Mark. 11.1 planting
26	М.	1st Arbor Day Hol.—Fla. 10.8 Nebr. 1872 Ga. Miss. 9.4
27	Tu.	Audubon & Mar. Tides \\\ \frac{10.4}{8.8} weather
28	W.	Hirohito Mars Crides \\ 8.8 now
29	Th.	ine loosening of Sup. of 9 (7.9)
30	Fr.	\(\delta\) in \(\Q\) Tides \(\begin{array}{c} 8.8 \\ 7.7 \end{array}\)

Farmer's Calendar.

Now will you hear the cry of hawks and see the bluebirds in the orchards. The woodchuck will busy himself his earth, the browse on the new meadow grass, the mink hunt along the little forest streams. Once again over the moonlit hill will echo the bark of the fox. Along the swamps where the fresh green ferns have begun to uncurl, red-winged blackbirds will sway and chatter and bob on the cat-onine-tails. On the school bench young fry will dream of little trouts and ice cream cones and circuses and swimming holes, Teacher will have the first pansies in front of her on the desk, just where the first red apple appears in fall. The organ and the monkey will appear and the junk man bestir himself. Some folks will spend their nooning on sunny banks, hats over eyes. Lots of others will wish they could.

Cedarwood and mothballs—thunder again and big drops on the dust of country roads—wind and crows—cheepers in the swamp—screens and old folks rocking in the sun—a snow flurry and lawn mowers—buds and frost—pienics, grass fires, violets. This will be our April with its ageless reawakenings and rebirths as poignant and strange and hot to the blood as young love.

194	1948] MAY, FIFTH MONTH.														
	ASTRONOMICAL CALCULATIONS.														
ä	Days. 0 /														
tio	1	15N	1.12	7	16	56	13	18	29	19	19	52	25	21	02
ina	2	15	30	8	17	12	14	18	44	20	20	04	26	21	12
ecl	3	15	48	9	17	28	15	18	58	21	20	16	27	21	22
Ã	4	16	05	10	17	44	16		12	,	20	28	28	21	32
SC .	5	16	22	11	_ : :	59	17	19	$\frac{25}{25}$	23	20	40	29	21	41
9	6	16	39	12	18	14	18	19	39	24	20	51	30	21	50

- New Moon, 8th day, 9 h. 30 m., evening, W.
- First Quarter, 15th day, 7 h. 55 m., evening, W. O Full Moon, 22nd day, 7 h. 37 m., evening, E. Last Quarter, 30th day, 5 h. 43 m., evening, W.

					PRECTI	ONS	TAE	LE, F	AGE					SIDE NEW	ENGLAN	D.
Day of Year	y of	Day of the Week	(3)	e.y	1 ①	ey	Let	igth of	un t.	Full Bos	Sea, ton.	D	Key	D	D's	on's
Da. Ye	Da:	Wet	Rise h. n	1. E	Sets. h. m.	됩	Da 1.	ys.	m.	Morn h.	ton. Even h.	Rises. h. m.	X	Souths.	Place	NO A
122		Sa.		9 E	$ 6\ 44 $							1 _M 30	0			$\overline{22}$
123		S.	l .		645						$6\frac{1}{2}$			7 04		23
124		$\widetilde{\mathrm{M}}$.			646						$7\frac{1}{2}$	2 30			Psc	24
125		Tu.			647	4 4	4				$8\frac{1}{4}$	2 51	K	8 28	Psc	25
126			4 3		6 48						9			0 00		26
127		Th.			650						$9\frac{1}{2}$					27
128		Fr.	1		651						$10^{\frac{1}{4}}$			10 34		28
129		Sa.	1		652							sets	_	11 _M 20		
130		S.		$\frac{1}{2}$	653	N	14	24	20	$11\frac{1}{4}$	$11\frac{1}{2}$	7º52	р	12 _M 20	Tau	1
			4 2		654	N	14	27	20		0	9 05	0	1 05	G'm	2
		Tu.		$\frac{1}{3}$	6 55	N	14	29	20	$0^{\frac{1}{4}}$		10 15		1	Ğ'm	
		W.			6 56					1	$1\frac{1}{2}$				Cnc	4
		Th.	l .		657			33			$2\frac{1}{2}$		-	L .	Cnc	5
		Fr.			6 58					$2\frac{3}{4}$	$\frac{2}{3\frac{1}{2}}$	12 ⁴ 08			Leo	6
		Ŝa.			6 59					$3\frac{3}{4}$		12^{MO}				7
		S.			7 00					$4\frac{3}{4}$	$5\frac{1}{2}$	1 21			Vir	8
		M.			7 01					$5\frac{3}{4}$	$6\frac{1}{2}$	1 49				9
		Tu.			7 02			43			$7\frac{1}{2}$	2 13			Lib	10
00		W.			7 03			45			$8\frac{1}{2}$				Lib	11
		Th.			7 04					9	$9\frac{1}{4}$	2 58			Sco	12
		Fr.	1	1	7 05						10			10 56		13
		Sa.			7 06						$10\frac{3}{4}$	rises		11 _M 48	Sag	14
		S.			7 07					$11\frac{1}{2}$	$11\frac{1}{2}$	8 _M 15				
		M.			7 08						0^{2}			12 ⁴ 42	Sag	15
		Tu.			7 09							10 14			Cap	
		W.	1		7 10							11 00			Cap	
		Th.			7 11							11 _M 38			Cap	
		Fr.			7 12					$2\frac{1}{2}$	$\frac{-2}{3\frac{1}{4}}$				Aqr	
		Sa.			7 12							12 _M 08			Aqr	
		S.			7 13					$4\frac{1}{4}$		12 33				21
152			4 09		7 14							12 _M 54			Psc	1
	-					-					+	71.3	-1	- M-0	12	` <u> </u>

MAY hath 31 days.

T1948



Now, let the Enemy Powers pause and mark
The brave, immortal look of mortal joy:
These delicate flowers in the lonely dark,
That might be man and woman, girl and boy,—
Where the black night receives the lovely gesture,
And idiot winds but sway the sweet design,
And Time, so charmed by his own transient vesture,
Is nearly friendly, here, nearly benign.
See Chaos tamed, and the great Dark at bay,
For these that in this hour will have their say.

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

Farmer's Calendar.

St. Philip & St. James. Ken. Capo. 83.4 Sa. Rogation S. 5th af. Hol. Cal. ${8.8}$ ${7.9}$ Cal. Minor the Cross Tides (8.3 Becomes Rogation P. L. Ind Day Tides (8.4 much 3 M. Τu. Days $\[\] \stackrel{\text{in.}}{\text{Peri.}} \[\] \stackrel{\text{on}}{\text{Eq.}} \] \text{Tides} \[\] ^{8.6}_{9.0} warmer.$ W. Assent B. Holy Do Tides \{\begin{array}{l} \text{Assent} \text{Bos} \text{Holy} \text{Do Tides} \{\begin{array}{l} \text{Nosens} \text{Tides} \{\begin{array}{l} \text{Nosens} \text{N 6 Fŕ. 8 Sa. •9 $10 | \mathrm{M}$ Tide $\begin{cases} 10.5 \\ 9.0 \end{cases}$ ბ \$ **ℂ**. 11 Tu. Plus IX Conn. River shad 10.4 b. 1792 run now 8.9 Plus IX Conn. Trun now b. 1792 run now Cosnold disc. 15th Peri. ${10.1 \atop 8.6}$ 14 Fr. δη (β_{Lat. N.} Tides (9.9 humid. Tightis) 1. Printe-American δδ (8.7 humid. S. cost Day 15|Sa. 16 C Dark Day [18th (eq.)] {9.6 Cooler (9.9) M. 1st Accr. U.S. Q Great Phrilliancy Tides \{ \begin{array}{ll} 9.7 \\ 9.8 \end{array} \] 18|Tu-19 W. Amelia Earhart flew Hol. \ 9.9 windy. \ Atlantic 1932 N.C. \ 10.7 windy. $20|{
m Th.}$ Tides $\begin{cases} 9.9 \\ 10.9 \end{cases}$ 21 Fr. Ember Days Nat'l Marine Day 22 Sa. Tides $\begin{cases} 9.8 \\ 11.0 \end{cases}$ □30 $Tides \begin{cases} 9.5 \\ 10.9 \end{cases}$ 8 \$ ô $23|\mathbf{C}$ TrinityS. Ist horse car of Harman Tides { Fine 24 | M.CRides low. Tides $\begin{cases} 10.6 \\ 8.9 \end{cases}$ 25 Tu. planting Tides ${10.2 \atop 8.6}$ 26 W. Civil war end. 1865
Sl. Belle. Corpus Tides $\{8.3 \\ now \}$ disease famine Quebec fire \forall Gr. El. Tides $\{8.3 \\ now \}$ disease famine panacea Fredand 1650
Let $\{8.0 \\ now \}$ Tides $\{8.0 \\ now \}$ Ti Civil War end. 1865 days27 Th. St. Bede. 28 Fr. 29 Sa.

30 \mathbf{C}

31|M.

The fragrant green of the skunk cabbage will proclaim itself; black flies will begin to swarm; fruit trees will blos-som; a lot of manure will be spread, and the farmer's headaches for the year will really begin.

It is an old axiom that you cannot plant peas too early. And you cannot, but whether they will survive is another matter. Neither peas nor good intentions may be set down to good advantage anywhere at all.

This year the farmer and the orchardist may select from many new fungicides, weed killers, blight blighters, insect destroyers and what not. They cost considerable, but some of them go a long ways. He should approach them with an open mind, at least.

these fungicides, etc. offer, of course, any But don't offer, of course, any short cut to the fundamentals of good farming; the proper enriching of the soil and the preservation of it by careful methods of crop rotation and cultivation. The old-fashioned stable dressing should, whereever possible, remain the salt and seasoning of your land (though too much cannot be said for muck compost materials, and certain synthetic soils where these are readily available.) Weak lands grow weak crops, weak crops mean disease and bugs and root famine that no man-made panaceas can really cure. Healthy land means healthy Tides \{ 8.6 \text{ crops—and that's what our \\ 8.1 \text{ forefathers found when they} \} first turned the virgin soil.

19487

182 30 W. 4 10 B 7 25

JUNE, SIXTH MONTH.

ASTRONOMICAL CALCULATIONS.

i	Days.	0	1	Days.	0	1	Days.	0	/	Days.	0	1	Days.	0	1
Declination	1	22 N	.07	7	22	48	13	23	14	19	23	26	25	23	23
na	2	22	15	8	22	53	14	25	17	20	23	27	26	23	21
l c li	3	22	22	9	22	58	- 15	23	20	21	23	27	27	23	19
De	4	22	29	10	23	03	16	23	22	22	23	27	28	23	16
,oo	5	22	36	11	23	07	17	23	24	23	23	26	29	23	12
9	6	22	42	12	23	11	18	23	25	24	23	25	30	23	09

- New Moon, 7th day, 7 h. 55 m., morning, E.
- D First Quarter, 14th day, 12 h. 40 m., morning, E.
- Full Moon, 21st day, 7 h. 54 m., morning, W. **C** Last Quarter, 29th day, 10 h. 23 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND, Length of Days. Full Sea. A Rises. N. M. M. Sets. h. m. hs. place W Morn Even Rises. Souths. $6\frac{3}{4}$ 1|Tu.|4 09| B||7 15| P||15 06|18 6 1414 7403|Psc 153 7 $|\mathbf{W}.|4\,09|\,\mathrm{B}||7\,16|$ P||1507||18 $7\frac{1}{2}$ 1 34 24 154 I 7 44|Ari $3|\text{Th.}|4\ 08|_{\mathrm{B}}|7\ 16|$ $7\frac{3}{4}$ $8\frac{1}{4}$ P||1508||181 53 G 8 26 Ari 25 155 4 Fr. 4 08 B 7 17 $8\frac{1}{2}$ 156 P|1509|189 2 | 15|9 11 F $9\frac{1}{2}$ $9\frac{3}{4}$ 2 40 D 5|Sa. 14.07B | 7 18P15 10 18 9 59 Tau 28 157 $10\frac{1}{4}10\frac{1}{4}$ 158 в 7 18 $6|S_{-}|407$ P1511173₄11 B|10 53|G'm|29 7 M. |407 $\mathbf{B} | 7 \ 19$ P 15 12 17 159 11 11 11451 G'm 0 sets 8|Tu.|4 06| B||7 20 p||15||13||17 $11\frac{3}{4}11\frac{3}{4}$ 9°06 Q 12°53 Cuc 160 1 9 W. 4 06 B 7 20 P15 14 17 2 $0\frac{1}{2}$ 10 03 Q 1 57 Cnc $0\frac{3}{4}$ $1\frac{1}{4}1048$ P 162 | 10 | Th. | 4 06 | в | 7 21 P||15||17|2 59 Leo 3 $1\frac{1}{2}$ $2\frac{1}{4}$ 11 24 0 163 11 Fr. |4 06 в |7 21 P||15||15||16|3 57 Leo 4 $2rac{ ilde{ ilde{1}}}{2}$ 164 12 Sa. 4 06 в 7 22 P|15 16|16 $3\frac{1}{4}$ $11_{\rm M}^{\rm P}53$ M 4 51 Vir 5 $3\frac{1}{2}$ 165|13|S.|406|B|722|P 15 17 16 41 6 5 42 Vir Q 15 17 16 $4\frac{1}{2}$ 166|14|M. |4 06| A||7 23 5 $12^{\text{A}}_{\text{M}}18$ 7 6 29 Lib K Q 15 18 16 $5\frac{1}{2}$ 167 15 Tu. 4 06 A 7 23 6 12 41 8 7 16 Lib Q 15 18 15 $6\frac{1}{2}$ 7 168 16 W. 4 06 A 7 24 1.03 | H |8 03 Sco 10 $7\frac{5}{2}$ 169 17 Th. 4 06 A 7 24 8 Q 15 18 15 1 27S 51 Sco 11 F 170 18 Fr. 4 06 A 7 24 $8\frac{1}{2}$ Q 15 18 15 $8\frac{3}{4}$ 1 53 9 41 Sag 12 D 171 19 Sa. 4 06 A 7 24 Q 15 19 15 $9\frac{1}{2}$ $9\frac{3}{4}$ 2 24c 10 33 Sag 13 $Q[15 \ 19]15[10\frac{1}{4}]10\frac{1}{2}$ 172|20|S_|4|06|A|7|25|3^A01 All 11º27 Sag 14 173 21 M. 4 06 A 7 25 Q|15 19|14|11 $11\frac{1}{4}$ rises 174 22 Tu. 4 07 A 7 25 Q 15 19 14 113 8^p55 Q 12^A21 Cap 15 175 23 W. 4 07 A 7 25 Q 15 18 14 0 $0\frac{1}{2}$ -9.351 14 Cap 16 P 176 24 Th. 407 A 7 25 Q[15|18]14 $0\frac{1}{2}$ $1\frac{1}{4}$ 10 08 o 2 05 Aqr 17 177 25 Fr. 4 07 A 7 26 Q 15 18 13 $1\frac{1}{4}$ 2 52 Agr 2 $10 \ 35$ N 18 178 26 Sa. 4 08 A 7 Q 15 18 13 26 2 $2\frac{3}{4}$ 10 57 L 3 37 Agr 19 $179|27|S_{-}|4|08|A|7|26$ $2\frac{3}{4}$ Q 15 17 13 3늴11 18 K 4 19|Psc 20° 180 28 M. 4 09 A 7 26 $3\frac{1}{2}$ $4\frac{1}{4}$ 11 37 P[15|17|13]21 I 4 59 Psc 181 29 Tu. 4 09 B 7 25 P[15 16]13 $4\frac{1}{2}$ 5. 11_м56 н 5 39|Ari 22

 $5\frac{1}{4}$ $5\frac{3}{4}$

23

6420|Ari

PI15 16 12



Come, let us make of this A thing secret and shy, And hid, and hard come by, Something that time will miss. Reneath this darkest tree, where the full summer is, We'll hide, now, in a kiss, Be lost, be drowned, and be Safe... And men will say: Time must have looked away,

D.W.

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

Farmer's Calendar.

Tides ${8.3 \atop 8.5}$ Tu. Nicomede. ExpectW. Q Stat. Con Eq. Tides \ 8.8 good Th. Hol. South Tides $\begin{cases} 8.4 \\ 9.2 \end{cases}$ 4 Fr. Tides \ 8.5 weather. 5 Sa. St.Boniface. . Tides $\begin{cases} 8.7 \\ 10.1 \end{cases}$ 3rd S.a. Pen. Invasion 8.9 Some Strawberries pin 8 6 6 (\ \ \frac{9.0}{10.8} real Μ. 11 Fr. St. Barnabas. 🜣 Stat. in らんて {10.8 your flag moon Hol. 15 Tu. St. Bernard Hol. 840 640 16 W. Sacred Heart, {9.3 [15th Ceq.] Cool 17 Th. Bunker Hill & O Hot. (9.2 nights. 10 Sa. Richard Grozier, Ed. & in. Tides (9.1 10.4 10.4 10.4 10.5 Sater's Day Tides (9.1 Sultry days. Tides $\begin{cases} 9.0 \\ 10.5 \end{cases}$ 4th 3.a. T. 640 Oters Stat. in Rides Tides 8.9 10.5 21st SUMMER 7.11 W 22 Tu. Tides $\{\frac{8.8}{2}$ "Female chlid more likely ${10.3 \atop 8.7}$ gŏ⊙Inf. Tides $\begin{cases} 10.1 \\ 8.6 \end{cases}$ 24 Th. Nat. John the Baptist 69⊙Inf. Salem if conc. Fire, 1914 after moon U. N. Charter sgd. in by 50 nations 1945 Apo. f {9.8 {8.5 25 Fr. fuil" \\ 8.5 26 Sa. 5th S.a. C. Tides \ 8.4 Frequent 'Tides ${8.8 \atop 8.5}$ showers Tides $\begin{cases} 8.5 \\ 8.6 \end{cases}$ $\mathbf{C}_{\mathrm{Eq}}^{\mathrm{on}}$ 29, Tu. St.Peter & St.Paul. 30 W. Bidweii 20 milc bike 경설 약 $\{^{8.3}_{8.8} \ now.$

Nothing so rare as the day in June that sees the farmer's task completed. He will as usual set his sights higher than the target. But this is better than undershooting. Now is the time to gauge finally the growing year, his potential markets, and throw whatever far-flung guesses he cares to at the weather (a silly thing to do when the Old Farmer's predictions are right there on the kitchen wall). After this it will be too late in stock and crops to change much profitably on either.

He will be rifled with good advice over the radio, mostly in the wee morning hours when all his chores are done (unless he intends to let the day go to the devil entirely). He can eat breakfast and listen to the farm hour at the same time. There is more straight from the shoulder commonsense to be heard then on farm matters than he will find in a month of Sunday's chawing with his next door neighbor. Farming is a bull-headed business indeed if it be no more than turning the land and planting crops and fighting weeds and all the cussedness of nature, and if the farmer doesn't take a good long daily look around to see where he is headed. And that's where the radio farm hours and agricultural talks come in. He can hear all the new wrinkles that are coming out-and some of them will iron out old ones that have been furrowing up too long.

1948] JULY, SEVENTH MONTH.

ASTRONOMICAL CALCULATIONS. Days. Days. 0 Days. Days. Days. @'s Declination. 0 1 23 n.067 22 33 13 21 47 19 20 47 25 19 35 2 23 8 22 2621 38 01 14 20 $20 \ 36$ 26 19 22 3 |22|56 9 22 1915 21 28 21 20 24 27 19 08 4 22 51 10 22 1216 21 19 22 20 13 18 54 28 2222 04 17 5 46 11 21 0923 $20 \ 00$ 29 18 40 22 6 21 20 58 40 12 5618 24 19 48 30 18 26

- New Moon, 6th day, 4 h. 9 m., evening, W.
- D First Quarter, 13th day, 6 h. 30 m., morning, E.
- O Full Moon, 20th day, 9 h. 31 m., evening, E.

REY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND. State Stat
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192 10 Sa. $4\ 16$ B $7\ 22$ P $15\ 07\ 11$ $1\frac{1}{3}$ 2 $10\ 21$ K $3\ 36$ Vir 4
$193 11$ S. $4 16$ B $7 22$ P $15 05 11$ $2\frac{1}{4}$ $2\frac{3}{4}$ $10 45$ J $4 26$ Vir $\frac{1}{5}$
105 13 Tu 4 18 B 7 21 B 15 03 10 41 43 11 21 B 6 01 L 1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
197 15 Th. 420 B 720 P 1500 10 $6\frac{1}{4}$ $6\frac{3}{4}$ $\frac{11}{4}$ $\frac{11}{6}$ $\frac{11}$
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$199178a.4218718 P145710 8\frac{1}{4}8\frac{1}{2}1008 928ag11$
200 18 S-4 22 B 7 18 P 14 55 10 9 4 9 4 1 42 A 10 15 Cap 12
201 19 M. 423 C 7 17 0 1454 10 $10 \frac{1}{4}$ 2_{M}^{A} 32 A 11_{M}^{P} 08 Cap 13
202 20 Tu. $4\ 24\ c$ $7\ 16$ 0 $14\ 52\ 10\ 10\frac{3}{4}\ 10\frac{3}{4}$ rises $ -$
203 21 W. $ 4 25$ c 7 15 0 $ 14 50 10 11\frac{7}{2} 11\frac{7}{2} 8_{M}^{p}09 $ P $ 12_{M}^{A}00 $ Cap $ 14 $
204 22 Th. 4 26 c 7 14 0 14 49 10 — 0 8 38 N 12 48 Agr 15
205 23 Fr. 4 27 c 7 13 0 14 47 10 0 1 0 0 0 0 0 1 M 1 33 Agr 16
206 24 8a. $ 4 28 6 7 13 6 14 45 10 6 4 12 9 22 6 2 16 Psc 17 $
207 25 S_ 4 29 c 7 12 o 14 43 10 1\frac{1}{2} 2 9 41 J 2 57 Psc 18
20826 M. 430 C 711 O 1441 10 $2\frac{1}{4}$ $2\frac{3}{4}$ 100 I 336 Ari 19
209 27 Tu. 4 31 c 7 10 o 14 39 10 3 3 1 10 19 G 4 16 Ari 21
210 28 W. 4 32 c 7 09 o 14 37 10 3 3 4 10 41 F 4 57 Ari 22
211 29 Th. 433 c 708 o 1435 10 4½ 5 11 05 D 5 40 Tau 23
212 30 Fr. 4 34 c 7 06 N 14 33 10 5\frac{1}{2} 6 11\text{m} 36 B 6 27 Tau 24
2 13 31 Sa. 4 35 d 7 05 N 14 31 10 $6\frac{1}{2}$ $6\frac{3}{4}$ $\frac{1}{2}$ $ 7_{M}^{A}19 G'm 25$



Lift the child up to see, Let the child know The slow way of the tree. When the wind is slow . . . The child should know.

And the flower beneath the hill, Let the flower confide The way of being stlll . . , Set the child at Its slde: Let the flower confide.

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

Farmer's Calendar.

Blood of ThTides $\begin{cases} 8.2 \\ 9.1 \end{cases}$ Clears Christ Tides $\begin{cases} 8.2 \\ 9.4 \end{cases}$ Fr. Visit. of Mary. $\Box \Psi \odot$ Wyoming Massacre Tides $\begin{cases} 8.3 \\ 9.8 \end{cases}$ Sa. off 6th\$.a. Tr. Ind. ⊕ in 6 Pô {8.5 $abla^{ ext{Stat. in}}_{ ext{R.A.}}$ ሪያ $oldsymbol{\mathbb{C}}$ ሪ $oldsymbol{\mathbb{C}}$ ሪ $oldsymbol{\mathbb{C}}$ ሪ $oldsymbol{\mathbb{C}}$ ($oldsymbol{\mathbb{C}}$ 5 M. More beheaded Chuns 1535 {9.1 11.1 fine. 1535 Tides $\begin{cases} 9.4\\11.3 \end{cases}$ IIIs St. Frances Cabrini \(\frac{\text{Gr. Hel.}}{\text{Lat. S.}} \)
Tides \(\begin{array}{c} 11.8 \\ 9.8 \end{array} J. D. Runkle d. 1902 C Peri. 8Th. {9.6 9 Fr. გ ħ Œ Cooler 134 deg. Death Valley 1943 Tides $\begin{cases} 11.1 \\ 9.9 \end{cases}$ 10 Sa. now{10.8 9.9 6th S.af.₽. 68 C 11'**C** and C eq. (10.3 perhaps Thoreau 6¥€ $12|\mathrm{M}$ Tides $\begin{cases} 9.8 \\ 9.8 \end{cases}$ Nantucket Fire 13 Tu. Tenn. Tides $\begin{cases} 9.3 \\ 9.8 \end{cases}$ Bastile 14 W. eastDay Hope no Q Stat. ${8.9 \atop 9.8}$ St. Swithun 15 Th. ğ Gr.El. Tides $\begin{cases} 8.6 \\ 9.9 \end{cases}$ 16 Fr. winds. Mississippl Trade opened 1863 of H C Sth S. af. U. P Aph. Tides $\begin{cases} 8.4 \\ 9.9 \end{cases}$ 17 Sa. Q in Aph. Tines $\begin{cases} 8.4\\10.0 \end{cases}$ Dog Days begin now to 25th—Sirius not cale. Thos. \$1.00 St. Margaret. State of Tides \$1.0.0 Good 19 M. erops8.6 10.0 now Daniel growing known Mary Magdalene. Tides $\left\{\frac{1}{8.7}\right\}$ Est. of Letters 1729 Apo. 8.8 Fast of Letters 1729 Apo. 8.8 Fast of Letters 1729 Apo. 8.8 Fast of Letters 1729 Apo. St. St. St. weather. Hol. Utah ${9.6}$ ${8.9}$ 8th a. P. St. James $25~{
m C}$ Christopher ${9.8}$ ${8.9}$ C on St. Anne. Continued 26 M. Darien Congreg. $\forall \ln \Omega$ $\left\{\begin{array}{l} 9.0 \\ 8.9 \end{array} warm \right.$ Underground Moon $\left\{\begin{array}{l} 8.6 \\ 9.0 \end{array} \right.$ and signs Tu. tomorrow Span, Armada dest, 1588 Walker Att, Quebec 1711 Tides $\begin{cases} 8.3 \\ 9.0 \end{cases}$ of a Tides $\begin{cases} 8.1 \\ 9.2 \end{cases}$ storm.

Gr.

P Bril

St. Ignatius of Loyola

31 Sa.

8 20

Unless you take care the sun will pin you down. Put a hat on that foolish head of yours when you go out into the fields.

Continue dusts and sprays. The world is full of squash bugs, potato bugs, caterpillars, blights, worms, leafcurlers, leaf-hoppers and all their unpleasant relations.

Don't make your having any than you have to. harder pitching Instead of choking loads into the barn by hand, we trust you have rigged up the hayfork you bought at auction last summer. (We thought not.) Have you and your neighbors ever considered going in together on a hay baler that will handle your crop right out in the field once you have windrowed it with the side-delivery rake? It's mighty easy to handle and store these little bales, and there's always a good market for baled hay.

You cannot make too great an effort to buy machinery that will save you time and do the job better. Only a fool will take pride in working himself to death when a machine will do the job better. machine will do the Job Better.
Back in 1869 the Old Farmer
wrote: "If you have twentyfive to thirty acres to mow
over, it will pay to have a
mowing machine." About up
to the time of the Civil War all acres were hand-mowed. But what would you think of the farmer to-day that didn't have a mower? So we say, club together and get a baler—and for yourself, as you can afford it, replace your ${8.0 \atop 9.5}$ old machinery with new.

[1948] AUGUST, Eighth Month.															
	ASTRONOMICAL CALCULATIONS.														
- i	Days.	0	1	Days.	0	1	Days.	0	1	Days.	0		Days	0 .	- /
Declination	1	17 N	.56	7	16	20	13	14	34	19	12	40	25	10	38
ına	2	17	41	8	16	03	14	14	15	20	12	20	26	10	17
C.	3	17	25	9	15	45	15	13	$57 \cdot$	21	12	00	27		56
1 2	4	17	09	10	15	28	16	13	38	22	11	40	28	9	35
00	5	16	53	11	15	10	17	13	18	23	11	10	29	9	14
9	6	16	36		14	52	18	12	59	24	10	59	30	8	52

- New Moon, 4th day, 11 h. 13 m., evening, W.
- D First Quarter, 11th day, 2 h. 40 m., evening, E.
- O Full Moon, 19th day, 12 h. 32 m., evening, E.

Last Quarter, 27th day, 1 h. 40 m., evening, W.													
To the control of the	Rises. Souths. Place												
214 $1 S_{-} 436 $ D 7 04 N 14 29 10 $7\frac{1}{2}$ 7	$\frac{3}{4} 12_{\mathtt{M}}^{\mathtt{A}}15 \text{ A} 8_{\mathtt{M}}^{\mathtt{A}}16 \text{ G'm} 26 $												
	$\begin{bmatrix} 3\frac{3}{4} & 1 & 06 \\ 1 & 2 & 28 \end{bmatrix}$ A $\begin{bmatrix} 9 & 18 \\ 1 & 28 \end{bmatrix}$ Cnc $\begin{bmatrix} 27 \\ 1 \end{bmatrix}$												
$\begin{bmatrix} 2 & 16 \end{bmatrix} \begin{bmatrix} 3 \end{bmatrix} \begin{bmatrix} \text{Tu} \end{bmatrix} \begin{bmatrix} 4 & 38 \end{bmatrix} \begin{bmatrix} 0 \end{bmatrix} \begin{bmatrix} 7 & 02 \end{bmatrix} \begin{bmatrix} 14 & 24 \end{bmatrix} \begin{bmatrix} 0 \end{bmatrix} \begin{bmatrix} 9\frac{1}{4} \end{bmatrix} \begin{bmatrix} 9 \end{bmatrix}$	$\frac{1}{2}$ $2_{\rm M}^{\rm A}11$ A 10 23 Cnc 28												
217 4 W. 439 D 701 N 1422 $1010\frac{1}{4}$ 10	11 sets - 11 A27 Leo 29												
2 18 5 Th. 4 40 D 6 59 N 14 20 10 11 11	$\frac{1}{2}$ $7_{\text{M}}^{\text{P}}51$ N $12_{\text{M}}^{\text{P}}2S$ Leo 1												
$ 219 $ 6 Fr. $ 441 $ D 6 58 N $ 1417 $ 10 $ 11\frac{3}{4} $ -													
220 7 Sa. $ 442 $ D 657 N $ 1415 $ 10 $ 0\frac{1}{4} $ 0	$\frac{3}{4}$ S 46 J 2 17 Vir 3												
221 8 S - 4 43 D 6 55 N 14 13 10 1 1	$\frac{1}{2}$ 9 10 I 3 07 Lib 4												
222 9 M. 444 D 654 M 1410 11 2 2	$\begin{bmatrix} 12 \\ 14 \\ 9 \\ 59 \\ E \end{bmatrix}$ 9 34 G 3 56 Lib 5 6 4 45 Sco 6												
$223 10 \text{ Tu.} 445 \text{ E} 653 \text{ M} 1408 11 2\frac{3}{4} 3$													
	$\frac{1}{4}$ 10 27 c 5 34 Sco 7												
$225 12 $ Th. $447 E 650 M 1403 11 4\frac{3}{4} .5$	$\frac{51}{4}$ 11 00 B 6 25 Sag 8												
$ 226 13 $ Fr. $ 4 48 = 6 49 = 14 00 11 5\frac{3}{4} 6$	$\frac{31}{4} 11_{\text{M}}^{\text{p}}40 \text{ A} 7 18 \text{Sag} 9 $												
	$\frac{1}{4}$ — - 8 11 Cap 10												
	$8\frac{1}{4}12_{\mathtt{M}}^{\mathtt{A}}27$ A 9 04 Cap 11												
$[229]16[M, [451] \to [644] M[1354]12[9] = 9$													
	$0\frac{3}{4}$ 2 22 A 10 45 Aqr 13												
$ 23 18 \mathbf{W}. 4 53 \mathbf{E} 6 41 \mathbf{M} 13 48 12 10 10 10 10 10 10 10$													
$ 2_{32} 19 \text{Th.} 4 55 E 6 40 L 13 45 13 11 11 $	1 rises - - -												
$oxed{ 233 20 ext{Fr.} 4 56 ext{F} 6 38 ext{L} 13 42 13 11rac{3}{4} 11 }$													
$ \mathbf{a}_{34} 21 \mathbf{Sa} \mathbf{a}_{57} + \mathbf{a}_{57} + \mathbf{a}_{57} + \mathbf{a}_{113} + \mathbf{a}_{113} - \mathbf{a}_{57} + $	$0\frac{1}{4}$ 7 47 J $[12\ 56]$ Psc $[16]$												
$ 235 22 \mathbf{S}_{-} 458 \text{ f} 635 \text{ L} 1337 13 0\frac{1}{2} 0$	$0\frac{3}{4} \mid 8 \mid 05 \mid 1 \mid 1 \mid 36 \mid \text{Psc} \mid 17 \mid 1$												
[236 23 M. 459 F 633 L 1335 14 1 1	. 1 8 24 н 2 15 Ari 18												
	2 8 44 F 2 55 Ari 19												
$\begin{bmatrix} 238 & 25 & W. & 501 \end{bmatrix}$ F $\begin{bmatrix} 630 & 1 & 1329 \end{bmatrix}$ 14 $\begin{bmatrix} 2\frac{1}{2} & 2 \end{bmatrix}$	$2\frac{3}{4}$ 9 07 d 3 37 Tau 20												
$[239]26$ Th. $[502]$ F $[629]$ L $[1327]14$ $[3\frac{1}{4}]$ $[3]$	$8\frac{1}{2}$ 9 34 c 4 21 Tau 21												
	$\frac{1}{4}$ 10 09 A 5 10 $\frac{1}{4}$ Tau 22												
	$6\frac{1}{4}$ 10 53 A 6 04 G'm 23												
$\begin{bmatrix} 242 & 29 & 5 & 505 & 6624 & 6131815 & 6 & 6 \end{bmatrix}$	$6\frac{1}{4}11_{M}^{p}49$ A 7 02 G'm 24												
[243]30 M. $[506]622$ K $[131616]7$ $[7]$	$\frac{71}{4}$ - - 8 04 Cnc 25												
24431 Tu. 5 07 G 6 20 к 13 13 16 8 8	$8\frac{1}{4}12_{\mathtt{M}}^{\mathtt{A}}59 \ \mathtt{A} \ 9_{\mathtt{M}}^{\mathtt{A}}07 \ \mathtt{Cnc} \ 26$												

AUGUST hath 31 days.





love is the tree . What though the fruit Love is the tree... What the Rot, for the worm's loot, Scarred by the careless boot.

The tree, the tree!

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

Alive, in the green shoot, Strong in the root,— The lifted, the wind's lute.

Lammas Day. 10th S. & In Hoi. 8.2 A Bank Holiday Gr. Britain გელი გელი {8.5 10.4 Μ. Tu. St. Stephen. (8.9 [2nd Cruns] few Tides $\begin{cases} 9.4 \\ 11.8 \end{cases}$ Coast Guard 3 \$ € 성생 성 성 전 전 Peri. { 9.9 rea Th. Transfigu-Heat Wave Tides {10.8 Tides $\begin{cases} 11.6 \\ 10.5 \end{cases}$ Name of Jesus Sa. 10th \$.a.] 3.6中 C 6 3 C C eq. [11.4] Tides $\begin{cases} 10.9 \\ 10.5 \end{cases}$ Capt. Marryat Q Gr. Hei. М. Tides $\begin{cases} 10.3 \\ 10.2 \end{cases}$ Tri. St. Laurence. W. begins Q King's Chapei Tides ${8.9 \atop 9.7}$ Th. Beg. 1749 H. G. Weils of in 88 6 21 C Tides \ 8.4 d. 1945 13|Fr. Fast of 6 b Tides 8.1 Storms. 14!Sa. 12th S.a. \overline{U} . As, of \mathcal{Y}_{ir} . Stat. (8.0 Cool Battle of the Right of the R 15|**C** 16 M. 7 Tu. Lowest Bar. ever 1927—26,185 Dog Days Ch Aviation Play Tides \(\frac{8.5}{9.7} \)
On the second Play Tides \(\frac{8.5}{9.7} \) 18 W. 19 Th. Lake Erie S.S. Atlantic sank 1852 {8.9 | 9.8 in C Apo. 20 Fr. Charter Oak feii 1856 21|Sa. Tides {9.1 Now very 12th S. a. 19. (on Eq. Tides $\begin{cases} 9.7 \\ 9.2 \end{cases}$ $22 \, \mathbf{C}$ Pompell Buried A.D. 79-1 P.M. Tides $\begin{cases} 9.6 \\ 9.3 \end{cases}$ 23 | M.rainy ${9.8} \\ 9.3$ Texas Hurricane 24 Tu. St. Bartholomew. 1945 Tides $\begin{cases} 9.0 \\ 9.8 \end{cases}$ $25 | W_{\star}$ Louis IX J. C. McReynoids d. 1946 Tides \{ 8.8 \\ 9.8 Tides $\begin{cases} 8.6 \\ 9.3 \end{cases}$ |Cools|26l ${
m Th}$

27 Fr.

28|Sa.

 $30 | M_{\odot}$

31 Tu. Bunyan d. 1688

Farmer's Calendar.

"Mean to" "intend" and make a mighty poor harvest. Along about now you will feel the weight of what you have left undone in the way of planting, re-planting, or sowing.

You will be going right to the having still and may for another month yet. At the same time you will be at the re-seeding of new grassland. You should not put this off later than the first week in September if you expect any kind of results next year from the clover.

This month and though hot for the work, are the best time to cut your brush. There will be very little if any sprouting from brush cut in midsummer, as compared to that cut in the fall, winter, and spring.

A number of flame throwers. mostly kerosene burners of the convenient back-strap type, are on the market. These are excellent not only to start and maintain fire in brush piles that are to be burned, but to scorch down again and completely kill sprout growth from previous cuttings. Fruit growers will find these little tremendous timemachines savers that's what -- and counts.

It would be well, though, that we do not cut off all our brushy corners. They are brushy corners. really our game preserves. A bare stone wall may be a Si. Algustine. Tides \(\begin{cases} 8.1 \\ 9.4 \\ 80me \\ 1.4 \tag{th} \subseteq a. \tag{A. U.} \\ \text{beheaded} \\ \delta \overline{\text{d}} \\ \delta Tides $\begin{cases} 8.6 \\ 10.4 \end{cases}$ birds.

off

1948] SEPTEMBER, NINTH MONTH.															
	ASTRONOMICAL CALCULATIONS.														
a l	Days.	0	1	Days.	0	1	Days.	0	1	Days.	0	/	Days.	0	1
- eclination	1	8N.	09	7	5	56	13	3	39	19	1	20	25	1	00
na	2	7	47	8	5	33	14	3	16	20	0	57	26	1	23
cli	3	7	25	9	5	11	15	2	53	21	0	34	27	1	46
De	4	7	03	10	4	48	16	2	30	22		.10	28	2	10
S. S	5	6	41	11	4	25	17	2	07	23	0s	. 13	29	2	33
9	6	6	18	12	4	02	18	1	44	24	0	36	30	2	56

- New Moon, 3rd day, 6 h. 21 m., morning, E.
- > First Quarter, 10th day, 2 h. 5 m., morning, W.
- O Full Moon, 18th day, 4 h. 43 m., morning, W.

	Œ	Las	st (Jue	art	er,	20	otn	aa	ιy,	12 1	1. 7	m., n	101	ming,	W.	-
		TERS F				.4.	IONS					-	L POINTS	OUT	SIDE NEW		
Day of Year	Day o Month	Day of the Week	Ris h.	es.	S h.	ets. m	Key		ngth of ays. m.	g Sun Fast.	Bos	Sea, ton. Ever	Rises.	Key	Souths.	D'S Place	Moon's Age
245	1		50	08	G 6	19	K	13	10	$\overline{16}$	9	94	2 _M 18	В	10 ^A 08	Leo	27
246	2	Th.	5 ()9 (G6	17	K	13	07	16	$9\frac{3}{4}$	$10^{\frac{1}{4}}$	3 _M 41		11 ^a _M 07		28
247	3	Fr.	5 1	0	G 6	15	К	13	05	17	$10^{\frac{3}{4}}$		sets		12 ^p _M 02		29
248	4	Sa.	5 1	2	G 6	13				17		_	7º10	I			1
249	5	S.	5 1							17	0	$0\frac{1}{4}$	7 34	Н		Lib	
250			5 1		G 6					18	$0^{\frac{3}{4}}$	$1\frac{1}{4}$	7 59	F		Sco	3
251	1	Tu.	5 1		G 6				54		13	2	8 26	Đ		Sco	4
252		W.	5		$\mathbf{G} 6$			12	51	18	$1\frac{3}{4}$ $2\frac{1}{2}$	$2\frac{3}{4}$		В		Sco	5
253	9	Th.	5		н 6					19	$3\frac{1}{2}$	$3\frac{3}{4}$		A		Sag	6
254	10	Fr.	5 1		н 6			12	45	19	$4\frac{1}{4}$	$4\frac{3}{4}$	10 22	A		Sag	7
		Sa.	5 1	9 1	H 6	01	J	12	42	19	$5\frac{1}{2}$	$5\frac{3}{4}$	11 _M 15	A		Cap	1 1
		S.	5		н 6	00	J	12	40	20	$6\frac{1}{2}$	$6\frac{3}{4}$			7 52		
257			52	21 1	н 5	58	J	12	37	20	$7\frac{1}{2}$	$7\frac{3}{4}$	12 ^A 14	A		Agr	11
		Tu.	52	22 1	н 5	56	J	12	34	21	$8\frac{1}{2}$	$8\frac{3}{4}$	1 16	В		Aqr	12
259	15	W.	52	23 1	н 5	54	J	12	31.	21	$9\frac{1}{4}$	$-9\frac{1}{2}$	2 20	C		Agr	13
260	16	Th.	52	24 1	н 5	53	J	12	28	21	10°	$10^{\frac{7}{4}}$		E	10 55		14
261	17	Fr.	52	25 1	н 5	51	J	12	25	22	$10\frac{1}{2}$			G	11 ^p 35	Psc	15
262	18		5 2		н 5	49	·J	12	22	22	$11\frac{1}{4}$ $11\frac{3}{4}$	$11\frac{1}{4}$	rises				
263			5 2	27	1 5	47	I	12	20	22	$11\frac{3}{4}$		6 _M 30	H	12 _M 15	Ari	16
264	20	M.	5 2	9	15	45	I	12	17	23	0	$0^{\frac{1}{4}}$	6 51	F			17
265	21	Tu.	53	80	1 5	44	I	12	14	23	$0^{\frac{1}{2}}$	$0^{\frac{3}{4}}$	7 11	E		Tau	18
266	22		53			42			11		$1\frac{1}{4}$	$1\frac{1}{2}$	7 36	C		Tau	
267	23	Th.	53		1 5	40	1	12	08	24	2^{1}	$2rac{ ilde{1}}{4}$	8 08	A		Tau	
268	1		53			38			05		$2\frac{3}{4}$	3	8 47	A		G'm	
269	25	Sa.	53		1 5	37	I	12	03	24	$3\frac{1}{2}$	$3\frac{3}{4}$	9 38	A		G'm	
270			53		1 5		I	12	00	25	$4\frac{1}{2}$	$4\frac{3}{4}$	10 40	A		Cnc	
271			53		15	33	I	11	57	25	$5\frac{1}{2}$	$5\frac{3}{4}$	11 _M 53	A		Cnc	
272			53	7	15	31	1	11	54	25	$-6\frac{\tilde{1}}{2}$	7					25
273			53		15	30	H	11	51	26	$7\frac{1}{2}$	8	1 _M 09	В	1		26
274			53	9 .	J 5	28	Н	11	48	26	$8\frac{1}{2}$	9	2 _M 34	Е	A I		27
	-				-		_	-					172 1		31		



The mind, airy and wide and blue, Idle, and still... and thoughts like birds, Aimless, and slow, in all they do, Thoughts without words... No motion, else; no sound of any kind: It is a summer evening of the mind.

Aspects, Holidays, Heights of High Water, Weather, etc.	
1 W. St. Giles. Tides { 9.2 Clear 10.9 Clear	ar.
1 2 11. 0 'C	9.9 11.3
3 Fr. 11 Days Lost. \$\times_{\text{in}} \text{\circ} \text{C} \\ \text{Peri.} \text{\text{Peri.}} \text{\text{Peri.}}	10.4
4 Sa. Moses. 6 Φ C C on 10.9 From	sty
5 C 14th 5.a. 3. Worst hay δΨC {	11.6
6 M. Labor Day. 68 C \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	me
7 Tu. Audover Theo. Soc. Tides \(\frac{10.8}{10.8} \) place	es.
8 W. Nat. Virgin Mary (10.1 Watch	out
Co.o	010
10 Fr. Jason Fairbanks 6 24 C Tides hung 1801 6 11 Co. Henry Hudson 7 rides 18.0	
11 Dd. Ent. Hudson R. 1609 Clow. 19.1	for
12 C loth S.a. T. 6 & W Md. (7.8 her	avy 5 7.8
Maine 140	18.9
16 ml Ct Punhamia a ill Tides	
17 T. et Famhert Constitution [8.9 Mail	
10 C. Trees are Harvest 19.2 for	r a
(0.4	bit.
OO M 1938 Hurricane Tides	${9.5}$ ${9.6}$
20 M. 17 to 21 Tides Tides	{9,4 9,7
22 W. Oen. AUTUMN 10.22 Emher BEGINS. P.M. Day	§9.2 9.7
1000	uch
24 Fr. American John Baptist Ember Day	${8.6} \\ {9.6}$
25 Sa. Ember & Gr. 600 (8.3 cold	der.
126 C. 18th S.a. T. D.S.T. Chigh	${8.1 \atop 9.4}$
2. 111. 11 moon 1	igh
20 1 1. 1.000 [9.8	ids 18.9
29 W. St. Michael. SQC ShC	110.2
30 Th. St. Jerome. Tides	(10.7

Farmer's Calendar.

Here is a month that the orchardist, especially, likes to see over and done with. So many things can happen in September, at the very lip of the harvest cup—can happen and do. Looking back on September 1938 and September 1943 (blackly remembered for the great New England hurricanes) you will state simply, "Those weren't 'months'; they were 'catastrophes'."

The first apples should be ready early this month or even late in August. Don't try to store them. It doesn't pay. Your Gravensteins will be the first of your apples that can stand considerable handling and storage. You can't be too anxious about getting any of your apples, Gravensteins, spies, Delicious, Macs, Cortlands, Baldwins, or what have you into good storage immediately. And this does not mean common storage in your barn where the day time temperatures may soar well over 70. Many growers find it a time saving device to rough sort for ciders right out in the orchard, load the trucks there and so off within a few hours after picking to commercial apple storages. This method saves handling and sayes fruit.

Get at the rowan toward the very last of the month. It's your sweetest, milk-makingest hay.

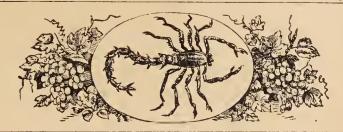
Better not do any mowing this month in the orchard, however, between the trees, possibly, but certainly not under them for fear of knocking off the fruit.

After the rowan it is well to top dress your lands.

19	18]						R, Те	-							
			£	ASTRO	DNC	MI	CAL	AI	CU	LATIC	NS.	•			
i	Days.	0	1	Days	0	/	Days.	0	1	Days.	0		Days.	0	1
Declination	1	$\frac{-}{3s}$.	20	7	5	39	13	7	55	19	10	07	25	12	14
na	2	3	43	8	6	02	14	8	17	20	10	29	26		34
l Schi	3	4	06	9	6	24	15	8	39	21	10	50	27	12	55
Ã	4	4	29	10	6	47	16	9	01	22	11	11	28	13	15
80	5	4	53	11	7	10	17	9	23	23	11	32	29	13	35
e e	6	5	16	12	7	32	18	9	45	24	11	53	30	13	54

- New Moon, 2nd day, 2 h. 42 m., evening, W.
- **D** First Quarter, 9th day, 5 h. 10 m., evening, E.
- O Full Moon, 17th day, 9 h. 23 m., evening, E.

Last Quarter, 25th day, 8 h. 41 m., morning, W. KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND, Day of Month Day of the Week Week Full Sea, Length D's Days, m. m. Sets. Morn Even Rises. Souths. л 5 26 н 11 1 46 26 $3_{M}^{\Lambda}54$ G|10439|Vir 275 1|Fr. |540| $9\frac{1}{2}$ 10 $10^{\frac{1}{4}}$ J 5 24 $10^{\frac{3}{4}}$ 542HI11 43 27 11430 Lib 0 276 sets $3|S_{-}|543|$ **J** 5 23 н 11 40 27 114 $11\frac{3}{4}$ 5^P57 G 12^p21 Lib 1 277 5 44 л 5 21 н 11 37 27 4|M.0 6 241 12 Sco 278 E $0^{\frac{1}{2}}$ $0^{\frac{3}{4}}$ 5 Tu. 545 л5 19 и 11 34 28 6.542 06 Sco 279 C $1\frac{1}{4}$ ј 5 17 н 11 31 28 6 W. 5 46 $1\frac{1}{2}$ $7 |30| \, \mathrm{B}$ 280 3 00|Sag 4 $2rac{1}{4}$ 21 28 I 7|Th.|547|л 5 16 н 11 29 28 8 14 5 A 3 56|Sag **J** 5 14 H 11 26 29 $3\frac{1}{4}$ 282 $8[{\rm Fr.}|548]$ 3 9 05 A 4 52 Cap 6 283 9|Sa. |5 49| **ы**5 12 н 11 23 29 4 $4\frac{1}{4}$ $10 \ 03 |_{A}$ 5 46 Cap 7 284 10 S. 5 50 K 5 11 G 11 20 29 5 $5\frac{1}{4}$ 6 37 Cap 8 $11_{\rm M}^{\rm p}06$ B $6\frac{1}{4}$ 5 52 K 5 09 G 1 1 17 29 285 11 M. 6 7 26 Agr 9 286 12 Tu. 553 K 5 07 7 $7\frac{1}{4}$ 12^A10 GH1 15 30 8 11 Agr C 10 287 13 W. 554 K 506 G 11 12 30 8 8 1 14 D 8 53 Psc 11 $8\frac{3}{4}$ 288 14 Th. 5 55 K 5 04 G 11 09 30 9 $2.16| \, \mathrm{F}$ 9 34 Psc 12 289 15 Fr. 5 56 K 5 03 G 11 06 30 $9\frac{1}{2}$ $9\frac{1}{2}$ 3 18 G 10 13 Ari 13 $10^{\frac{1}{4}}$ 290 16 Sa. 5 57 K 5 01 G 11 04 30 10 4^A20 1110 53 Ari 14291 17 S_5 59 K 4 59 G 11 01 31 $10\frac{1}{5}$ 11 rises ∦11°34|Ari 15 292 18 M. 6 00 K 4 58 G 10 58 31 1114 $11\frac{1}{2}$ 5, 16 E $11\frac{3}{4}$ 293 19 Tu. 6 01 K 4 56 G 10 55 31 5 40 D 12 A1S Tau 16 $0^{\frac{1}{4}}$ 294 20 W. 6 02 L 4 55 F 10 53 31 $0^{\frac{1}{4}}$ 6 10 B 1 04 Tau 17 295 21 Th. 6 03 L4 53 F 10 50 31 $0^{\frac{3}{4}}$ 6 46 1 54 G'm 18 1 A 296 22 Fr. 6 05 L 4 52 $1\frac{1}{2}$ $1\frac{3}{4}$ F 10 47 32 7 33 2.48 G'm 20 |A| $2^{\tilde{1}}_{4}$ $2\frac{1}{2}$ 297 23 Sa. 6 06 L 4 50 F 10 45 32 8 31 A 3 46 Cnc 21 31 31/4 298 24 S_6 07 L 5 49 F 10 42 32 9 39 4 45 Cnc 22 A 299 25 M. |608| L|447| $\mathbf{F}[10|39|32]$ 41 41 $10_{\rm M}^{\rm p}54$ 5 44 Leo 23 В 300 26 Tu. 6 09 $5\frac{1}{4}$ $5\frac{1}{2}$ LH 46 FH 0 37 32 $6 \, 41$ Leo |24 L 4 45 F 10 34 32 64 $6\frac{1}{2}$ 301 27 W. |6|11|12^A12 D 25 7 36 Vir 71/4 $7\frac{3}{4}$ 302 28 Th. 6 12 L 4 43 F 10 31 32 1 30 F 8 27 Vir 26 81 303 29 Fr. 16 13 LH 42 F110 29 32 $8\frac{3}{4}$ 2 48 H 9 18 Lib 27304 30 Sa. 6 14 m 4 41 E 10 26 32 9 $9\frac{1}{2}$ 4 06J10 07 Lib |28| $30531 S_{-} 616 M 439 K 10243210$ $10^{\frac{1}{2}}$ 5 A 23 K 10 A 58 Sco



How the eye drinks up All color, here! In this desperate way Draining the cup,— As well she may, Now, at the near Turn of the year.

D.M.	D.W	Aspects, High W	Holid ater,	ays, Wea	Heights of ther, etc.
1	Tre	ist Remigins.	σ	in	Tides [1

Farmer's Calendar.

W Peri. (11.1 Scallop season $\delta \Psi \mathcal{C} = \mathcal{C}_{\text{Eq.}}^{\text{on}} \{_{11.8}^{10.9} Mild\}$ Sa. 19th S.a. T. {\(\frac{11.3}{11.2}\) [4th \(\Q\)in \(\Omega\)] for St. Fr. of Assist. 6 & C & Gr. Hel. {11.4 4 M. Jewish New Year 63C 64O ${10.8 \atop 11.3}$ Tu. fast of Stat.in Hol. {10.3 the Stat.in Hol. {10.4 season. 6 Gedaliah 6 4 C Th. Korean Alphabet δ Ph Crides (8.9 low. 1446 low. 9.8 Tides $\begin{cases} 8.3 \\ 9.2 \end{cases}$ St. Denis. Abraham FineMisslon Tides $\begin{cases} 7.9 \\ 8.8 \end{cases}$ 19th\$.a.P. 10Sunday 1000 Virgins Tides \{ 7.7 \\
Virgins Columbus Day, Hol. N. Dak. \\
Wisc.

Yom Kippur \(\text{in} \) Apo. \(\text{8.6} \) fall 11 M. Tides $\begin{cases} 7.8 \\ 8.5 \end{cases}$ Tu. weather. 81 day dry spell began Oct. 1, 1946 Tides $\begin{cases} 8.4 \\ 8.8 \end{cases}$ 14 Th. Tides $\begin{cases} 8.8 \\ 9.0 \end{cases}$ 10 days lost $15|\mathrm{Fr}.$ 1582 11 Nazi war criminals on Tides (9.1 hung 1946)
21st S. a. Tr. Hunter's (9.4 Watch St. Little Succold Tides (9.7 out 16|Sa. 17C $18|\mathbf{M}$. Cornwallis Sy⊙Inf. Tides (9.9 for Ernest Thompson Seton d. 1946 (23) 19 Tu. Tides $\begin{cases} 9.1 \\ 10.0 \end{cases}$ 20 W. 21 Th. Constitution Tides $\begin{cases} 8.9 \\ 10.0 \end{cases}$ launched 1797 Capistrano swallows Tides \{8.7 \ 9.9 \ storms. Fr. fly away Chigh Tldes (8.5 9.8 ÿ in Ω 21st S.a. 3. Ave. date first Tides \{8.3 \text{St. (Pispin. Atzereth Tides \{8.3 \text{Much} \} \text{Much} \} \}. 25|M.Providence Simchath Tides \{ 8.4 \ 9.5 \ more $26|\mathrm{Tu}.$ fire 1853 Navy 6 h Tides (8.8 comportable Simon & in. Stat. In Tides (9.4 Lab.) Simon & in. & Jude Perl. 28 Th. 69 C Ceri. Ceq. 10.8 indoors. Old Time Ball 840 840 30 Sa. 23rd S.a. C. All Hallows Hol.

This is the month when apples really begin to flow to market. Perhaps you growers this year are ready to experiment with new sorts of packaging. The use of small cartons done up in cellophane has proved successful the last year or two. Apples so packed are infinitely more presentable on the fruit counter than when shown in the customary jumbled field pack. There is no question but what most of the bruising of our fruit is due to careless handling in the bushel packs. The store-keeper expects a large percentage of loss in these packs and the shopper is the one who pays for this. The grower for the good of his product should then get behind better handling, better packaging, a more attractive display of the fruit.

Get as much manure spread on your land now as you have time for, and, unless the land be especially thin, plow it in.

Take a little time off and attend the fairs. It will be a good thing for the whole family; and really, it is part of your business to do so.

Don't let the potatoes stay too long in the ground, particularly if it be wet this month.

Better get the young stock off the pastures before the grass withers. Under the best conditions stock will fatten readily this month. 1948] NOVEMBER, ELEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

	Les				1 .		t	1		Lau	1 -				
اغا	Days.	0	/	Days.	0		Days.	0	1	Days.	0		Days.	0	_/
Declination.	1	148.	33	7	16	24	13	18	04	19		33	25	20	50
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l Sch	3	15	11	9	16	58			35			00		21	12
AL	4	15	30	10	17	15	16	18	50	22		13		21	23
©'s	5	15	48	11	17	32°	17	19	05			26	29	21	$33 \mid$
(O)	6	16	06	12	17	48	18	19	19	24	20	38	30	21	43

• New Moon, 1st day, 1 h. 2 m., morning, E.

First Quarter, 8th day, 11 h. 46 m., morning, E.

O Full Moon, 16th day, 1 h. 31 m., evening, E.

C Last Quarter, 23rd day, 4 h. 22 m., evening, W.

• New Moon, 30th day, 1 h. 44 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND. Full Sea, Length Montt Meek Week Week Week Week Days. Souths. Sets. m. m. h, 306 $|6\ 17| \,\mathrm{M}|4\ 38| \,\mathrm{E}|10\ 21|32|10\frac{3}{4}|11\frac{1}{4}|$ -||11450|Sco 0 sets $2 \text{ Tu.} | 6 18 \text{ m} | 4 37 \text{ E} | 10 19 | 32 | 11 \frac{1}{2}$ 307 5_m23 B 12 P45 Sco 1 $3 \text{ W} \cdot 6 19 \text{ M} 4 35 \text{ F} 10 16 32$ 308 0월 $0\frac{1}{4}$ 604A 1 41|Sag 300 4 Th. 6 20 M4 34 E 10 14 32 1 2 38 Sag 1 6.534 A 5 Fr. 622 M433 F 101132 $1\frac{3}{4}$ 2 7 50 5 310 3 35 Cap A $6|\mathbf{Sa}|$ $6|\mathbf{23}|$ $\mathbf{M}|4|32|$ $\mathbf{E}|10|09|32$ $2\frac{1}{2}$ $2\frac{3}{4}$ 6311 8 52 4 29 Cap A $7 \, \text{S} - 624 \, \text{M} + 31 \, \text{E} \, 1006 \, 32$ $3\frac{3}{4}$ 31 312 9 57 5 19 Agr B 8 M. 6 26 M 4 30 E 10 04 32 41/2 313 $4\frac{1}{2}$ 11 PO1 \mathbf{D} 6 06 Agr 9 Tu. 6 27 N 4 28 D 10 02 32 $5\frac{1}{4}$ $5\frac{1}{2}$ 6 49 Psc 9 315 10 W. 628 N 427 12M04 9 59 32 $6\frac{1}{4}$ $6\frac{1}{2}$ 7 30 Psc 10 D E 316 11 Th. 629 N4 26 D $7\frac{1}{4}$ $7\frac{1}{2}$ 957|321 06 G 8 10 Psc 317 12 Fr. 631 N 425 D 81 9.55|328 |2|07|8 50 Ari 12 H 318 13 Sa. 632 N 4 24 $8\frac{3}{4}$ 953|329 3 09 13 D J 9 30|Ari $9\frac{3}{4}$ $319|14|S_{-}|6|33|$ N|4|23| D|951|31 $9^{\frac{1}{4}}$ 4 14 K 10 13 Tau 14 320 15 M. 6 34 N 4 23 D 9 48 31 10 $10^{\frac{1}{2}}$ 5_x20 м 10 59 Tau 15 321 16 Tu. 6 36 N 4 22 $9\,46|31|10\frac{1}{2}|11$ -11 P48 Tau 16 D rises 322 17 W. 637 N 421 D 9 44 31 11 1 11 1 1 1 3 4,45 A 323 18 Th. 638 N 420 D $942|31|11\frac{3}{4}$ A 12 42 G'm 17 5|29|324 19 Fr. 6 39 N 4 19 $0^{\frac{1}{2}}$ $0\frac{1}{2}$ 9 40 31 6 25 D 1.40 |G'm| 18A 325 20 Sa. 6 40 0 4 19 114 14 C 9 38 30 7 31 2 40 Cnc A 326 21 S_6 42 0 4 18 $2\frac{1}{4}$ C 9 36 30 2 8 44 3 39 Cnc 20A $3_{27}|22|M.|643|$ 0417 $3\frac{1}{4}|10\ 01$ 9 34 30 3 C 4 37 Leo 21 C 328 23 Tu. 6 44 $3\frac{3}{4}$ 0417 41/4 C 9.33|2911^P_M18 5 31 Leo E 329 24 W. 6 45 0 4 16 $5\frac{1}{4}$ 9 31 29 $4\frac{3}{4}$ 23 C 6 23|Vir 330 25 Th. 646 0416 $5\frac{3}{4}$ $12_{M}^{A}33$ 9 29 29 $6\frac{1}{4}$ d 7 12|Vir 24 G 331 26 Fr.: 6 48 old 15 $6\frac{3}{4}$ C 928|29| $7\frac{1}{4}$ 8 00 Lib 25 1 48 1 332 27 Sa. 6 49 0 4 15 73 81 C $9\,26|28|$ 3 03 268 48 Lib K 333|28|S₋|650| o |414| $8\frac{3}{4}$ 9 24 28 \mathbf{c} $9\frac{1}{4}$ 4 18 27 9 38 Sco L 334 29 M. 6 51 0 4 14 d $9\frac{1}{2}$ 9 23 28 5_M33 $10^{\frac{1}{4}}$ 28 N 10 31 Sco 335|30|Tu.|652| 0|413| $921|27|10\frac{1}{2}|11$ 29 al 111,26|Sag sets

NOVEMBER hath 30 days.

[1948]



The bough, being widowed in this wise, Stili does not wear the look of grief: The starkness is a way of strength, Confronting the disastrous skies, Beyond the losing of the leaf.

Aspects, Holidays, Heights of

High Water, Weather, etc.

⋈

27|Sa.

29lM.

30 Tu. St. Andrews.

It is ourselves who count the cost: The rich bough plundered of its own, Leaf-music perished from the air . . . The bough translates the treasure lost The ecstacies of strength atone.

All Saills. O Total Hol Tides 11.4 1 Μ. Gen. Election Day Tides ${11.4}$ Tu. 3 Tides $\begin{cases} 10.1 \\ 11.2 \end{cases}$ W. St. Hubert. 88C ğ^{Gr.el.} W. 4 Th. 64 C Tides ${10.8 \atop 10.8}$ {9.1 of Fawkes Republ. win Crides Day Congress 1946 Clow. Fr. Day Congress 1946 (low, 10.2 of Well may the farmer reflect St. Leonard, \(\begin{cases} \begin{cases} 8.6 & [7th Q \text{in}] & Snow \\ 9.6 & [7th Q \text{in}] & Snow \\ truth & the tiller of the soil, \end{cases} \] 6 Sa. $\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$ 24th S.a.T. C Good time for M. rain. fall pruning H. C. Lodge d 1924 Dr. Livingstone found 1871 Tu. 9 in 10 W. CApo. Armistice Day Tides \{8.3 \ High \ duce the machines that produce the goods—the prospective of the world. Let a man walk long with famine begins of the world was and he shall know many other and he shall know many other decreases. 11 Th. lFr. 13|Sa. if conceived 14 24th S. a. P. С before full of the moon." \{ \begin{array}{l} 9.6 \\ 8.8 \end{array} \] Some King's Name 15 M. Day, Belgium J. T. Coolidge d. 1945 Tides $\begin{cases} 9.9 \\ 8.8 \end{cases}$ 16|Tu. Sea coal first used 1303 17IW. used kill 3, 1891 Tides $\left\{ \frac{10.2}{-} \right\}$ 18|Th. C Runs 8.7 19|Fr. ${8.7 \atop 10.8}$ ძ ७ ແ Bthday OFA & others 20|Sa.Pres. at 2126th\$.a.T. Temple "As this day so the winter" $22|\mathbf{M}$ St. Cecella. Hol. Tides $\begin{cases} 8.7 \\ 9.7 \end{cases}$ 23|Tu. St. Clement. 8 2 C Ind. Robin Hood d. 1247 Tides ${8.9 \atop 9.6}$ 24 W. 25 Th. Thanksgiving. Catherine Cperi. 26|Fr.

- yin%

Farmer's Calendar.

This is the month of harvest Colder home and may this year see the bins of plenty overflow everywhere. And may the cup signs of hope be filled once more.

 $\begin{cases} 8.2 & \text{truth the tiller of the soil,} \\ 9.1 & \text{or the grower of food, holds in} \end{cases}$ his palm the destinies of the world. Our great industrial centers are completely dependent on him to feed the Tides (7.9 centers Tides \{ 8.8 \ \text{millions that in turn feed and } \} \{\begin{cases}
9.2 \\
8.7 \\
\text{sngir}
\end{cases}
\text{ hungers} \to \text{hate, revenge, de-}
\end{cases} spair.

At this season every sense is nice keened and quickened-The Tides 10.1 sultry sameness of the dog-days of August is over and warm done. November is all condays. trasts, sun and cloud shadows, the crackle of leaves in still es [8.7] forests, the sharp smell of Tides \{ 8.7 \ \text{forests}, the sharp smen smoke in the evening damp, smoke in the evening damp, Tides (8.6) black limbs on white moons, 18.6 the first icy touch of snow on unmittened hands.

Certainly if we do nothing Un-else we should see now that {9.2 all is snug and ready for \$9.5 winter. The countryman will Always rains Waynesburg, Pa. 9 Gr. Hel. (10.9 able promise of several well-filled cider barrels. If winter is just 31.1 cider barrels. If winter is just 9.6 around the corner, let it come.

194	[8]		1)	ECE	MLE	SEF	t, Tw	VEL	FTE	I MO	NTI	н.			
	•		£	ISTRO	ONO	MI	CAL	CAL	CU	LATIC	NS				
اۃا	Days.	0	1	Days.	0	1	Days.	0	/	Days.	0	1	Days.	0	1
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l sell	3	2-2	110	9		52	15	23		21		27	27	23	19
A	4	22	18	10	22		16		20	22		27	28	23	16
e,s	5	22	-26	11		02	17	23		23		26	29		13
9	6	22	33	12	23	07	18	23	24	24	23	25	30	23	09

- ▶ First Quarter, 8th day, 8 h. 57 m., morning, E.
- O Full Moon, 16th day, 4 h. 11 m., morning, W.
- ℂ Last Quarter, 23rd day, 12 h. 12 m., morning, W.

									., mo				
KEY	LETTERS	REFER T	O CORF	ECTION	STABI			OR ALL Sea,	POINTS	DUTS	4.1		ND.
Day of Year	be o		Key	ets.	ol	ys. on	Bo	ston.	D	ey	D	D's	Age
V Va	Day of Month Day of the	Rises h. m		ets. 🔀	Day h.	m. m	i Mori	ston. Ever h.	Sets.	X	Souths m		100
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337	2 Th	.654	04	13 c	9	192	3	0	5 34	A	1 20		2
338	3 Fr.	6 55	04	13 c	9	17 2	$0^{\frac{1}{2}}$	$0\frac{3}{4}$	6 36	A	2 16	I	
339	4 Sa.	6 56	04	12 c	9	16 2	$3 1\frac{1}{4}$	11	7 41	В	3 09		4
340	58	6 57	1 1)	12 B	ll .	15 2	$\begin{vmatrix} 2\frac{1}{4} \end{vmatrix}$	$1\frac{1}{2}$ $2\frac{1}{4}$	8 46		3 58	Agr	5
341	6 M.	6 58	1 11	12 B	I I	14 2		$\frac{1}{3}$	9 51	E	4 43		6
342	7 Tu	.659	(II	12 B	l I	13 2			10 53	F	5 26		7
343	8 W.	7 00	1 11	12 B	ll _	$12\overline{2}$	$\frac{1}{4} \frac{3}{4}$	$4\frac{3}{4}$	11 _M 55	Н	6 06		8
344	9 Th	. 7 01	P 4	12 B	11 .	$\frac{12}{11}\frac{2}{2}$	3 51	$5\frac{3}{4}$	T I MOO	11	6.45	1	9
345	10 Fr.			12 B		$\frac{1}{10}$ $\frac{1}{2}$	- 4	63	19456		725		
346	11 Sa.	703	1 11	12 B		$\frac{10}{2}$	$7\frac{1}{4}$	$\frac{6\frac{3}{4}}{7^{1}}$	12 _M 56				10
	12 S.		1 11	12 B		$\frac{39}{29}$		$7\frac{1}{2}$	1 57	K	8 06		11
347	13 M.	704) 11			08 22		81/4	3 02	L	8 50	Tau	
348			1 11					$\frac{9^{\frac{1}{4}}}{10^{\frac{1}{4}}}$	4 09	N	9 38	Tau	13
	14 Tu	1	1 1	13 B			T . T		5 19		$10\ 30$	G'm	14
- 0	15 W.	7 06		13 B		-		$10\frac{3}{4}$	6 _M 30	Q	11 _m 28	G'm	15
- 5	16 Th		11 .	13 B	1	$\frac{07}{2}$			rises				-
- 0	17 Fr.	1	1 11	14 B		$\frac{06}{2}$			5 _M 18	A			16
00	18 Sa.		(11	14 B			T		6 32	A		Cnc	17
201	19 S.			14 B	9 (1	7 49	С		Leo	19
1-001	$20 \mathbf{M}$.	7 09	1 11	15 B	9 (2	9 08	E	3 27	Leo	20
	21 Tu		i 11	15 B	1 .			3	10 24	G	$4 \ 20$	Vir	21
- 01	22 W.	7 10		16 B		06 17		4	11 _m 38	H	5 10	Vir	22
- 50	23 Th		P 4	16 B	9 (06 17		5			5 57	Lib	23
	$24 \mathrm{Fr}$.	711	P 4	17 B	9 (06 16		6	12 ^A 52	J	6 45	Lib	24
360	25 Sa.	7 11	P4	$17 _{\mathrm{B}}$	9 (06 16		7	2 06	L		Sco	25
361	26 S.	712	P 4	18 B	9 (06 18		8	3 19	N		Sco	26
362	27 M.	7 12	P 4	19 B	90	7 15		9	4 33	0		Sag	$\frac{27}{27}$
363	28 Tu.	7 12	# 11	$19 _{\rm B}$		07 14		10	5 45	- 11		Sag	28
364 2		7 12	- 11	$20 _{\rm B}$	90			$10\frac{3}{4}$	$6^{\text{A}}_{\text{M}}52$	1	11 08	Sag	29
	30 Th.		11	21 B		08 13		$11\frac{1}{2}$	sets	71	$12 \ 04$	Cap	0
3663		7 13		22 B		9 13			6 _M 25		$12^{4}59$	Cap	1
			11			0110	1 - 2		M-O	A	12 _M OS	Oap	1

DECEMBER hath 31 days.

[1948



Now that the light is rose, And winter's only flower Colors the dark hills,

The man's thought slows To the slow-fading hour; His tumult stills. And he will leave the light There . . . or think as much, Not knowing, not he, even,

The flower beyond sight, Beyond scent, or touch, He has brought home from heaven.

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

Farmer's Calendar.

Nat'l Youth Day in Portugal W. Tides $\begin{cases} 11 & 0 \\ 9.4 \end{cases}$ 63 4 64 C 63 C Crides { - Colder Th. Mary Baker Eddy 3 Fr. Tides (10.5 and John L. Lewis fined 1946 Tides $\begin{cases} 8.8 \\ 10.0 \end{cases}$ 4 Sa. stormuTides $\begin{cases} 8.5 \\ 9.5 \end{cases}$ 2d S.in Ad. 5 Tides $\begin{cases} 8.3 \\ 9.0 \end{cases}$ 6 St. Nicholas. Μ. Tides $\begin{cases} 8.2 \\ 8.6 \end{cases}$ Tu. Pearl 7 Harbor 'Conception Virgin Mary Hugh Bewitt Capo. Tides $\begin{cases} 8.2 \\ 8.4 \end{cases}$ 8 W. ${8.2 \atop 8.1}$ 9 Th. Con Eq. NorthBanisbed 1640 Damon Runyon Tides $\begin{cases} 8.4 \\ 8.1 \end{cases}$ $10|\mathrm{Fr}$. winds d. 1946 y^{ln} Aph. Tides \{8.7 \ 8.1 \}
36\$5.in Ad. 6\$€ O Sup. 11 Sa. blowTides $\begin{cases} 9.0 \\ 8.1 \end{cases}$ Tides $\begin{cases} 9.3 \\ 8.8 \end{cases}$ 13 M. St. Lucy. George Washington died 1799 Tides ${9.7 \atop 8.4}$ 14 Tu. CalmBill of Rights 1791 Tides $\begin{cases} 10.0 \\ 8.5 \end{cases}$ 15 W. and Haleyon & C Truns Tides (10.3 ls breeding by In R.A. Tides (10.5 milder. Thorne Glacier disc. 1930 Tides (1.8.8) 16Th. 17 Fr. 18 Sa. 4th Sin Ad. 19 C Tides $\begin{cases} 8.9 \\ 10.5 \end{cases}$ Cold Forefather's Day & O Peri. ${}^{9.0}_{10.8}$ 20|M.St. Thomas, Win. 5.34 Oen. 15 [9.1]

St. Thomas, Beg. P.M.

Ist real Ember [9.3] [21] Ord.

Show 1946—21st Day [9.3] [31] Ord. 21Tu. W. $\{^{9.4}_{9.5}$ increases. Th 8 A T JYC {9.6 | 23 d Eq. | 1cy roads Ember Day $24|\mathrm{Fr}.$ Tides $\begin{cases} 9.8 \\ 9.1 \end{cases}$ 25 Sa. Christmas. un-1 st \mathfrak{S} . af. \mathfrak{Ch} . Stephen \mathcal{U} in \mathfrak{C} $\{^{10.1}_{9.0}$ 26 C St. John. Chan-Tides 108 pleasant Μ. C. J. Connick d. 1945 Tides $\begin{cases} 10.5 \\ 8.9 \end{cases}$ 95C 28 Tu 29|WChildermas. Rain67 cons. zero days 6240 {10.5 or beg, N.D. 1934 6240 {8.5 or 67. Hel. 63 of 10.4 snow.

We hope that you have kept your farm diary this year as well as careful accounting of your expenses. There is little gain in spending if you do not know where the money goes. A daily record of hours spent on each phase of your work will prove the wisdom of it in dollars and cents.

Let a man stick to his last. How foolish, for instance, that an ambitious orchard grower should shackle himself with barn chores and a lot of livestock. Or that a man whose barn and fences are primarily constructed for the raising of sheep, should confuse himself by going in heavily on the same land for steers or cattle.

To any farmer we would say:—Beware of too many pets. We do not speak of your dog and your cat, but of your dogs and cats, pet pigs and bottle fed lambs that you will never have the heart to kill and tame raccoons and deskunked skunks and wingtipped crows. No sense in saying the boy and girl take care of them. Let the boy and girl put that time in working for you.

So with your accounting, you will count yourself a practical man, but at Christmas time pray forget to be so. Give from the heart, not the head. To each member of the family give less what is needed than what is longed for beyond expectations. So you will have peace in your heart, and joy in the home throughout the New Year.

Continued from page 6

scrious floods and published the interesting Snow Depth Map which appears herewith on page 6. Fortunately, Spring was late and long-preventing the feared floods and to all appearances helping all around except the all important pollination work in the orchards by the bees who apparently like it warm, early.

NEXT WINTER'S WEATHER

The past four winters—first "mild," then "turbulent," then "wet," and last year "old fashioned" in most places, followed the predictions of Mr. Weatherwise. This coming winter he forecasts as "white, tions of Mr. Weatherwisc. This coming winter he forecasts as "white, long, and cold" but cautions, in addition—something he has rarely done—that the summer of 1948 may be one of severe crop failures... recalling that this coming summer falls in a year of great sun spot activity as did the cold summer of 1816 when great spots could be seen on the sun and it snowed in July. Sunspot activity is said to run in 22 year cycles which makes this year of 1948 the sixth high activity year since 1816, 132 years ago. We pass along Mr. Weatherwise's caution to you for whatever interest it may hold. As we have long said you shall know the season's nature only when it is upon long said, you shall know the season's nature only when it is upon you.

APPLIED CLIMATOLOGY

The United States Weather Bureau has a new service operated under Merrill Barnard, Chief of the Division of Climatological and Hydrologic Services, Washington 25, D. C. This new service is a direct development of uses found for climatological data during the war. The new techniques, for example, were successfully used by the Armed Forces to select the week of the year when an invasion attempt would be least likely to be hindered by adverse weather conditions. In this new service, Applied Climatology, the observations of past weather are analyzed as may be required to assist in answering a specific problem such as the

Selection of Industrial Sites,

Preparation of Purchasing Schedules for Seasonal Goods, Design of Building Codes, Planning distribution of Perishables,

Synchronizing crop planting and harvesting with most favorable Market Conditions.

Evaluating Marine Risks.
Since the Weather Bureau is a public agency, it can not undertake

Since the Weather Bureau is a public agency, it can not undertake the solution of specific problems, not of general public interest, for private individuals, firms or agencies at public expense.

The Bureau lawfully can, however, make statistical analyses of weather records—when a climatological analysis is not available from other sources—for private interests provided the Government is reimbursed. Under this procedure the following steps are to be taken:

Discussion of the Weather Problem and Methods of Data Processing.

Estimate of Cost.

Application to Secretary of Commerce for Project Approval. Formulation of Simple Contract.

Delivery of Certified Check for Estimated Cost. Accomplishment of Project.

Adjustment of Actual Cost to Estimate.

Adjustment of Actual Cost to Estimate.

The Bureau is careful to explain that Applied Climatology is an applied science and rests on the "established fact that the weather of the future will be reflected by the weather of the past. This does not mean that the weather of a particular year, month, or day, will repeat itself with the regularity of the almanac. It has been long demonstrated that weather does not occur with the regularity of cycles.

"Applied Climatology provides basic information for planning many operations in terms of a 'calculated weather risk'—the ranges of proboberations in terms of a calculated weather risk—the ranges of probabilities and the extremes within which the operation should be conducted, and expressed, not in climatological terms such as rainfall or temperature but in the operators' own terms such as tons of fuel required, acre feet of irrigation water needed, etc. Considerable embhasis is placed by the Weather Bureau on that fact that such 'calculated weather risks' are not long range weather forecasts to be applied to weather immediately ahead."

WHY WE HAVE LEAP YEAR

Leap Year comes upon us every fourth year. You probably know less about its origin than about the popular myths which have come to surround it. That it is ealled Leap Year is not, as many suppose, somehow connected with the fact that unattached femaces may propose to males at this time (and probably leap at the opportunity)—it is so called because the added day (February 29) makes every day after it "leap over" the day of the week in which it would come in

common years.

Before going into the ealendar reason for Leap Year, let us consider a little further this business of unattached females. For some obscure reason a law was passed in Scotland way back in 1288 which gave unwedded females the right to propose marriage to any male not married or engaged. France and then Genoa and Florence in the fifteenth century legalized this quaint custom. In Scotland, at least, any unattached man refusing the offer had to pay a penalty of one pound or less (according to his means) to the female proposing. Elsewhere, a silk dress seems to have been the penalty. This must have been quite a "racket," and we suppose many unprepossessing girls gathered pounds and silks enough to last them a lifetime. Of course, nowadays only the reports of such old-time goings on are attached to Leap Year. However, our advice to susceptible or weak-willed males is to take to the woods and remain there until 1949. In New England there is a special superstition for Leap Year. Beaus grow on the wrong side of the pod. You, reader, can easily check this for yourself... once you have determined which is the reason a law was passed in Scotland way back in 1288 which gave

. . . once you have determined which is the

eheek this for yourself... once you have determined which is the "right" side of the pod.

Now as to the true origin of Leap Year. Our calendar goes directly back to Julius Caesar, and is known as the Julian Calendar. He thought it up one evening in 45 B.C. between eampaigns. The basis for the ealendar was the fact that in one year the earth made one complete revolution about the sun, at the same time spinning on its axis. The translation of the same time spinning on its constitution about the sun it does not axis. The trouble is in one entire revolution about the sun it does not turn an exact number of times on its axis. If it did, we should not have to give you this long-winded explanation of Leap Year, Each year would have been exactly 365 days of 24 hours. Caesar from his easy chair noted that the actual time for each year was 3654 days or 365 days and 6 hours, and so he decreed that the Roman year should normally consist of 365 days but that every fourth should contain 368. contain 366.

We wish that were all there were too it. Unfortunately it isn't. The true period of the earth's revolution around the sun is not 3651/4 days as Caesar with his love for round figures tossed at us but 365 days, 6 hours, 9 minutes and 9.5 seconds. This is the sidercal year (pro-

6 hours, 9 minutes and 9.5 seconds. This is the sidereal year (pronounced sighed-eery-all) and is the time taken by the sun to complete the circuit of the heavens from a given star back to the same star. However, the year we use in everyday life, is based on the seasons and Is about twenty minutes shorter than the sidereal year. Its length is 365 days, 5 hours, 48 minutes, 46 seconds. Thus the average year in the Julian calendar was 11 minutes and 14 seconds or 0.0078 day too long. This causes an error of about three days every 385 years, and in the course of 1000 years the Julian calendar loses nearly 8 days. It was Pone Gregory XIII who decreed that the rule of add-8 days, It was Pope Gregory XIII who deereed that the rule of addof days, it was Pope Gregory Alli who deered that the rule of adding an extra day every fourth year should be followed except in the case of those century years whose number is not divisible by 400. Thus the year 2000 remains a leap year, but 2100, 2200, and 2300 will have only 365 days.

Well, that's Leap Year for you. Don't forget to cheek up on your

bean pods.

FEW LONG HOLIDAY WEEKENDS IN 1948

Last year was bad enough about dealing out Monday holidays so that tired workers could spread rest periods over a weekend and Monday but this year is worse. There are none except Patriots' Day and Labor Day. New Year's Day, Lincoln's Birthday, Bunker Hill Day, Armistice Day, and Thanksgiving all fall on Thursdays; Washington's Birthday, Memorial Day, Independence Day on Suudays; St. Patrick's is on a Wednesday, and Christmas comes on Saturday. In 1947, there were two long holiday weeken is that of Memorial Day and Luly 4th. and July 4th.

FAST AND THANKSGIVING DAYS

The celebration of Fast and Thunksgiving Days begins carly. In the Roman Empire, the Victory of Constantine was commemorated at Constantinople always on September 24th as was a day of gratitude for cessation of earthquakes celebrated at Alexaudria on July 21. for cessation of earthquakes celebrated at Alexaudria on July 21.
Holinshed's Chronicles tell of a fast season during the reign of Henry
the Third, A.D. 1258—and the deliverance of the Royal Family from
the diabolical Gunpowder Plot on November 5th, 1605, brought about
a proclamation that this day be kept one of "public thanksgiving to
Almighty God" which has lasted from that day to this.
Wheu Gregory the Great, in the year 596 despatched Angustine on
his mission to Ethelbert, king of Kent, the observances of the Roman
Church went with him. The pagan Saxons, however, in substituting

the Christian festivals for their heathen feasts were allowed to retain most of the pagan manner of celebration. It was not until very late in the day—practically until our own Pilgrims sailed for these shores that our Christian forefathers came to insist that the Sabbath and other Holy Days be observed in a religious rather than roistcrous

It was the Puritan reaction against the non-religious observance of these days in the Mother country which explain much if not most of the severity of their religious observance once they were safely on this side of the water.

At the time of the Mayflower voyage the Court of King James had

set fashions greatly to the liking of the peasant Sabbath.

"The priestes and clerkes to daunce have no shame;

The frere or monke in his frocke and cowle

Must dannee, and the doctor lepeth to play the foole." the prevailing immodest customs would scarcely

recording.

Added to the strictly religious observance of the Sabbath and other Church Days in New England, there soon came into being other Fast and Thanksgiving Days. One of these was in 1623 when for six long weeks beginning the third week of May "there scarce fell any drop weeks beginning the third week of May "there scarce fell any drop of rain," and there was great heat. A day was appointed for "every good man to enter privately into an examination with his own estate between God and his conscience... and to humble ourselves before the Lord by fasting and prayer." This exercise lasted some eight or uine hours and on the next morning began a spell of rain which lasted for 14 days. Such was the bounty and goodness of God. The date of that first fast day, was Wednesday, July 16, 1623 (Old Style Calendar)—corroboration for which we will find in the diary of Bradford, forefather of the present Governor of Massachusetts. The 30th of the same month was appointed one of thanksgiving. In May, 1629, the good ship Talbot with above "a hundred planters as passengers" bound for America eucountered grief on board (the death of the minister's child) as well as contrary winds. It is said the 21st was set aside as a day of consecration. Calm prevailed throughout the day but favorable wind sprang up towards nightfall on that day now but favorable wind sprang up towards nightfall on that day now thought of as the one of which the first sea fast was ever held. Again in the Spring of 1633, the settlers experienced another severe drought. Upon the observance of "poring out water before the Lord . . . at that very instant the Lord showered down water on the Gardens." Thanksgiving was held in this year on October 16th—the first public thanksgiving of the Bay Colony in which the gathering of the harvest bore a conspicuous part. The public fast day of December 13th, 1638, did not ameliorate the weather or the internal difficulties of the local ministers for which it was chiefly held. A great storm arose that very night of wind and snow. The following April 4th was accordingly agreed upon by the General Court on which these same . . . "novelties. contempt of anthorities.

might be prevailed against. The troubles referred to fashions (sleeve, ruffles, laces) egrain Bostonians were attempting to wear to establish themselves In the New World as gentlemen inasmuch as they had been unable in the Old to gain such distinction. Democracy prevailed in the banishment of this attempt at class division—and Mr. Vane, the Royal Governor who had so unfortunately acquiesced in it in calleging. Mrs. Hutchinson to carry his arguments for it aven unto the allowing Mrs. Hutchinson to carry his arguments for it even unto the

anowing arts. Indefinish to early insurgements for it even unto the pulpit. And gradually most of these days, if for no other reason than their increasing number, fell out of favor.

In general it may be said that our annual Thanksgiving Day now observed as a National custom dates back to about forty years after the memorable harvest feast of the Puritans in 1633. As the years protected the different states held this Thanksgiving on different believes. gressed the different states held this Thanksgiving on different Fall (Continued on page 91)

GESTATION AND REPRODUCTION TABLE

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

DURATION AND FREQUENCY HEAT SEASON

	In heat for	Reoccurs if not bre
Mares	2 to 11 days	3 to 6 weeks
Cows	1 to 2 days	3 weeks
Ewes	2 days	17-28 days
Sows	3 days	$21 \mathrm{days}$
Bitches	5-7 days	6 months
Cats	3-12 days	4 months

AVERAGE DATES FIRST AND LAST KILLING FROSTS

DIGEST OF LATEST AVAILABLE FISH AND GAME LAWS

Open seasons include both dates. "Rabbit" Includes "hare"; "quall" Includes "partridge" in South; "grouse" Includes Canada grouse, sharptailed, ruiffed (known as partridge In North and pheasant in South) and other members of family except prairie chickens, ptarmigan and sage hen. The Fish and Game Commissions of each state have verified these figures (except where indicated) but as many states do not complete laws for 1948 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 Italies which are seasonal.

Migratory Bard Laws for 1947 will not be released until Avenue.

Migratory Bird Laws for 1947 will not be released until August. For details consuit local authorities or write Department of Interior, Fish & Wildlife Service, Chicago 54, Illinois

er males only, † local exceptions. ‡ non-resident exceptions, ‡ Pounds, x unverified.

State and Species	Seasons	Limits, Season	State and Specles	Seasons	Limits, Season
Alabama Deer Rabblt Squirrel Opossum, Rac- coon Muskrat (fur), Otter	Nov. 20-Jan. 10 † 5' Oct. 1-Feb. 20 (N-Oct. 1-Jan. 1 (S-Oct. 15-Jan. 15 Oct. 1-Feb. 20 Nov. 20-Jan. 31	9	Colorado Deer Elk Bear Quail Pheasant Rabbit All fish (Lakes under 7000	Oct. 11-Oct. 26† Oct. 11-Oct. 26† Oct. 11-Oct. 26† Oct. 11-Oct. 26† Oct. 18-not set Oct. 1-Feb. 1 May 25-Oct. 1 ft. open all year)	† † 20
Quall Turkey Bass W.l., str. bass Bream Crapple, wh. pch. Rck. bass, geye Weye pike	Nov. 20-Feb. 20 Nov. 20-Jan. 1 6*1 Mar. 20-Apr. 15 No closed season No closed season No closed season No closed season No closed season No closed season No closed season	10 15 30 20 20 15	Connecticut Rabbit Squirrel Quall Pheasant & Grouse Trout Lake trout Pickeret	Nov. 1-Dec. 31 Oct. 23-Nov. 27 Dates not set Oct. 23-Nov. 27 Oct. 23-Nov. 27 Apr. 17-Aug. 31 Apr. 17-Feb. 9 Apr. 17-Feb. 9 July 1-Oct. 31	30 30 18 15 15 10 3
Alaska Deer Moose Bear, br. & grz. Bear, black	Sept. 1-Nov. 15 6† {N-Sept. 1-20, SDec. 1-7 6† Sept. 1-June 20† {E. of 138°: {Sept. 1-June 20†	2‡ 1 2 2	Wall-eyo Bass, black Bass, striped Perch Salmon, sockeye Shad Alewives	Apr. 17-Feb. 9 July 1-Oct. 31 No closed season Apr. 17-Feb. 9 Apr. 17-Aug. 31 Apr. 20-July 15 Mar. 1-May 31	10 10 15 5
Polar Bear Caribou Mountain goat Mountain sheep Rabbit Grouse & Ptar'g'n	No closed seasont Aug.20-Sept. 30† Dec. 1-15 Sept. 1-Oct. 31† Aug. 20-31 c*† No closed seasont	1‡ 1‡ 1 10	Delaware Rabblt Squirrel Quall Pheasant Bass Pike, pkl., w. eyed pike	Nov, 15-Dec. 31 Sept. 15-Nov, 1 Nov, 15-Dec. 31 Nov. 15-Dec. 31 June 25 Feb. 1 June 25 Mar. 1	6 6
Trout & grayling Arizona	<u> </u>		Trout	Apr. 16 Aug.15	
Deer Rabbit Abert Squirrel° Turkey Quall Trout	N-Oct. 10- Oct. 25 5 ^{*†} 8-Nov. 1- Nov. 17 5 ^{*†} No closed season No open season No open season Nov. 16-Nov. 30† May 24-Sept. 30†	1010	xFlorida Deer, male Squirrel Quail Turkey Bass, black Bream Speckled perch	Nov. 20-Dec. 31† o ³ Nov. 20-Jan. 31† Nov. 20-Jan. 31† Nov. 20-Feb. 15† May-Feb. 28 June 1-Mar. 31† June 1-Mar. 31†	2 13 12 4 8 20 20
Bass Bluegill Chan. Catfish Arkansas	No closed season No closed season No closed season (Nov. 2-Mon-Sat.	10 20 10	Georgia Deer Bear Squirrel Quali	Oct. 15-Jan. 15† & Nov. 20-Feb. 28† Sept. 15-Jan. 15† Nov. 20-Feb. 28	2
Squirrel Quall Turkey Bass Trout Pike Jack salmon	Inito June 1-June 15† Sept. 1-Jan. 1† Dec. 1-Jan. 15 Closed May 16-Mar. 15 May 1-Oct. 31 No closed seasou No closed seasou No closed seasou	15 6 6 6	Grouse Turkey Rabbit Bass, striped Bass, black Bass, rock Bass, Ky, or r,- eye Bream, perch	Nov. 1-Feb.28† Nov. 1-Feb.28† No closed season No closed season†	2 10 10 10 10 10 25
California Deer Antelope Bear Rabblt	Aug. 7-Sept. 15 5*† Limited 5* Oct. 15-Dec. 31+	2 2	Crappie Pickerel Wall-eyed pike Muskellunge Trout	No closed seasont No closed seasont No closed seasont No closed seasont Apr. 1-Nov 15 [†]	25 15 15 3 2 10
Quall Pheasant Trout (exc. gldn) (Sp. watr soas.) Trout, golden Salmon Bass, biack Bass, striped	Nov. 15-Dec. 31 Nov. 20-Dec. 15 Nov. 20-Dec. 15 Nov. 20-27 of May 1-Oct. 31 July 1-Sept. 30† † May 29-Oct. 31† No closed season	15 20 2 10 5	Idaho Deer, elk Antelope Bear Goat Shecp Quail Pheasant	Local seasons Local seasons Jan, 1-Dec, 31† Local seasons No open season† Local seasons Local seasons	1 1 1

		-			
Idaho (cont.)	1	14	Kentucky (cont.)	1	
Hun, partridge	Local seasons		Striped bass	May 30-Apr. 30	15
Sage hen	Local seasons		Crappie	May 30-Apr. 30	15
Pheasant	Localseasons		Rock bass	May 30-Apr. 30	15
Trout	May 21-Nov. 15†	25	Muskellunge	May 30-Apr. 30	H
	-	or	Furbearers	Dec. 1-June 30	_
		15#	Louislana		b
Bass (1-mouth)	July 1-Apr. 30†	15	Deer	Nov. 1-Jan. 10t	2
19488 (1-1110401)	ouly 1-11pr. 001	or	Bear	Nov. 1-Jan. 1	5
		15#	Rabbit	Oct. 1-Mar. 1	120
}		1	Squirrel	Oct. 1-Jan. 15 Dec. 1-Feb. 20	120
Bass (s-mouth)	No open season	1	Quail Turkey	Apr. 1-Apr. 15 o	1 20
Salmon (steelhd.)	Local seasons	2:	Bass, black,	No closed season	15
			yel., white	No closed season	25
Illinols			Crapple	No closed season	25 25
Rabblt	Nov. 11-Jan. 31	1	Sunfish	No closed season	50
Squirrel	Aug. 15-Nov. 15†		Maine		
Quail	Nov. 11-Dec. 11		Deer	Oct. 21-Nov. 30†	1
Pheasant	Nov. 11-Nov. 20†	100	Bear	No closed season	
Bass, black	May 15-Mar. 31†	10	Rabbit	Oct. 1-Feb. 28† Oct. 1-Oct. 31	
Bass (rk., wrmth.		50	Saulreal	Oct. 1-Oct. 31	
wii., yel.)	No closed season	(75	T THE CONSTRUCTION	Oct. 1-Nov. 15	12
crappies,	140 closed season	ag-	Grouse	Oct. 1-Nov. 15	05
sunf., blue-		g.)	Salmon, togue(a) Salmon, togue(b)	Ice out-Sept. 30	25
Buffalo, bullhd.,		6.7	Salmon, togue(D)	Ice out-Sept, 15	$\begin{bmatrix} 25 \\ 25 \end{bmatrix}$
eati., carp,			Salmon, togue(c). Trout(a)	Ice out-Aug. 15 Ice out-Sept. 30	$\frac{25}{25}$
shphd.	No closed season		Trout(b)	Ice out-Sept. 35	25
Trout	Apr. 1-Sept. 30	8	Trout (c)	Ice out-Aug. 15	25
Perch	No closed season		Wh. perch(a)	1ce out-Sept. 30	25
Pickerel	May 1-Feb. 28	10	Wh. nerch(b)	Ice out-Sept. 30 Ice out-Sept. 15 Ice out-Aug. 15	25
Wall-eyed plke	}	in	Wh. perch(c)	Ice out-Aug. 15	25
		ag-	Black bass(a)	June 21-Sept. 30	25
I ako te mbita		g.	Black bass(b)	June 21-Sept. 30 June 21-Sept. 15 June 21-Aug. 15 June 1-20	25
Lake tr., white-	No closed season		Black bass(c)	June 21-Aug. 15	$\frac{25}{3}$
nsn	140 blosed season		Black bass (fly)	No alogad sonson	i 0†
Indlana			Pickerel a-Lakes & ponds	No closed season	101
Rabbit	Nov. 10-Jan 10	1	b-Riv. abv.		1
Squirrel	Dates not set		tidewtr.		
Quail	Nov. 10-Dec. 20	1	c-Brooks, streams		
Pheasant	Dates not set		Maryland		
Hun, partridge	Nov. 10-Dec. 20	1	Deer	Dec. 1-6 o't	1
Bluegill, rd		25	Rabblt	Nav. 15-Dec. 31†	- 1
eared sunf.,	Y 10 A 00	in		Sept. 15-Oct. 15 Nov. 15-Dec. 31	
crappie, rock	June 16-Apr. 30	ag-	[[Squirrel	(Nov. 15-Dec. 31†	
bass		g,	Quall	Nov. 15-Dec. 31† Nov. 15-Dec. 31†	1 . }
Bass, silv. or	June 16-Apr. 30	ln	Grouse	Nov. 15-Dec. 31†	6
yel., bl., Ky., wh. or str.	June 10-Apr. 50	ag-	Pheasant	Nov. 15-Dec. 311 8	6
WII. OI SUI.			Turkey	Nov. 15-Dec. 31†	10
Pike-perch	June 16-Apr. 30	g. 6	Bass-non-tdl.	Apr. 15-July 15 July 1-Nov. 30	10
Pike or pickerel	June 16-Apr. 30 June 16-Apr. 30 May 1-Aug. 31	6	Str. (rck.) bass,	July 1 1101. 55	10
Yellow perch	June 16-Apr. 30	1	non-tdl. wtrs.	Mar. 15-Nov. 30	10
Trout	May 1-Aug. 31	15	Wall-eyed plke	Mar. 15-Nov. 30†	10
Ghan, eatfish	No closed season		Plke, pickerel	July 1-Nov. 30	10
Toyen			Plke, pickerel Perch	July 1-Nov. 30	10
Rabblt	Aug. 1-Mar. 1	10	Catfish	Feb. 15-Nov. 30t	10
Squirrel	Sept. 15-Nov. 15	6	Massachusetts		
Pheasant°	Oct. 28-Oct. 30t o		Deer	Dec. 2-Dec. 7†	1
Quail°	Sept. 15-Nov. 15 Oct. 28-Oct. 30† 6 Nov. 1-Nov. 30		Rabbit, hare	Oct. 20-Feb. 15†	5-3
Hungarlan		1	Squirrel	Oct. 20-Nov. 20	15 20
partridge	Nov. 12-Nov. 14†	0	Quall	Oct. 20-Nov. 20 Dates not set	15
Trout	May 1-Oct. 3i	8 8	Grouse Pheasant	Oct. 20-Nov. 20 d	6
Northern plke	May 15-Nov. 30† June 15-Nov. 30†	5	Bass	I July 1-Feb. 15	6 5 2 2 5
Bass Pike sand or	June 19-2001, 301	0	Raccoon	1 Oct. 10-Jan. 1	2
Pike, sand or saug., weyed	May 15-Nov. 30t	8	Opossum	Oct. 10-Jan. 1	2
Builheads	No closed season	25	Pike	Apr. 15-Feb. 15	5
Yell, pch. and			Muskellunge	Apr. 15-Feb. 15	5
bass, yellow		1	Plekerel	Apr. 15-Feb. 15	10
str., silver	May 15-Nov. 30† June 15-Nov. 30† Apr. 15-Nov. 30†	15		Apr. 15-Feb. 15 Apr. 15-Feb. 15	5
Crap., cal. bass	June 15-Nov. 30†	15		Apr. 15-July 31†	5 12
Catfish	Apr. 15-Nov. 307	15	Bluegls., cal.	1.51, 10 3413 61	
Kansas			bass, crappic,		
Kansas	June 15-Nov. 30		hrnd. pout,		
Squirrel Quail	Intermittent	10	sunfish, yel.		0.0
Pheasant	Oct. 30.31-Nov. 1, 23	3	peh.	Apr. 15-Feb. 15	20
Bass	May 26-Apr. 24	10	Mlchigan		1
Kentucky			Deer	Nov.15-Nov. 30t	1
Rabblt	Nov. 20-Jan. 15	1 8		Oct. 15-Nov. 5	1
Squirrel	Aug. 15-Nov. 30 Nov. 20-Jan. 15	6	arrow)	Nov.15-Nov. 301	1
Quail	Nov. 20-Jan. 15	10	Bear	(II-Oct 1-Mer 1	50
Ruffed Grouse	Dec. 1-Dec. 15	10	Rahblt	III.Oct 15-Jan 31t	50
Bass, black	Dec. 1-Dec. 15 May 30-Apr. 30 May 30-Apr. 30			LeOct. 15-Nov. 5t	25
Trout	May 30-Apr. 30	10		(U-Oct. 1-Oct. 20t	15
Weyed pike,	May 30-Apr. 30	1 15	chicken	(U-Oct. 1-Mar. 1 L-Oct. 15-Jan. 31† L-Oct. 15-Nov. 51† L-Oct. 1-Oct. 20† L-Oct. 15-Nov. 51 L-Oct. 15-Nov. 51	15
sand pike or	Willy Son pr. 50	1.0	Pheasant	L-Oct. 15-Nov. 5†	8
sauger					

Michigan (cont. Woodchuck	L-Oct. 15-Jan. 31†		Nebraska (cont.) Perch	No closed seasont	
Trout Bass	Apr. 24-Sept. 16† June 25-Dec. 31† June 25-Dec. 31†	15† 5†	Pike, weye, saug. no'thn.	No closed seasont	5
No. pike, pk.pch Muskellunge	May 15-Mar. 15	5	Nevada		
Lake trout White bass	No closed scason No closed scason	25# 25	Deer Rabbit	Dates not set Dates not set	
Crapple, rk. bass, yel. pch. bluegills, sun-	2	05+	Quail Pheasant	Dates not set Dates not set	
fish	June 25-Feb. 28†	25†	All game fish	Local seasons	25
Whitefish Minnesota	No closed season	-7	New Hampshire Deer	Oct. 15-Dec. 21†	1
Deer (Bow and Arrow)	Oct. 16-Nov. 1†	1	Bear Rabbit, hare	No closed season Oct. 1-Feb. 15	
Deer Bear	Nov. 15-Nov. 25† No closed season	1	Squirrel Quail	Oct. 1-Nov. 1 No open season	
Squirrel Quail	Oct. 15-Dec. 31 Oct. 28-Nov. 12†		Grouse Pheasant	Oct. 1-Dec. 1 Oct. 15-Nov 16 67†	25 10
Pheasant Hun, partridge	Oct. 28-Nov. 12 o Oct. 21-Oct. 27†		Trout, brook Lake Trout	May 1-Sept. 1† Jan. 1-Sept. 1†	15 2 2
Weyed pike, saugers, gt.	May 15-Feb. 15†	8	Salmon Trout, golden	Apr. 15-Sept. 1† Apr. 15-Sept. 1	4
no. pike, pic terel)		Basi Muskellunge	July 1-Nov. 1t May 28-Nov. 1	10#
Muskellunge Bass	May 15-Feb. 15† June 20-Nov. 30†	6	Pike-perch Pickerel	May 28-Nov. 1† May 28-Jan. 16†	10#
Trout Lake Trout	May 1-Sept. 15† Jan. 1-Feb. 15†	15 5	New Jersey	Dec 18.72	
Crappies, sunfish	May 1-Sept. 30† May 15-Feb. 15†	15	Deer Rabbit, squirrel	Dec. 17-Dec. 21 67+ Nov. 10-Dec. 15 Nov. 10-Dec. 15† Nov. 10-Dec. 15 Nov. 10-Dec. 15 Apr. 15-July 15† Sept. 1-Sept 30† May 20-Nov. 30† Jan. 5-Jan. 27†	1 6
wh. & rk. bass Catfish Bullheads	May 15-Feb. 15† May 15-Feb. 15† May 15-Feb. 15†	10	Quall Grouse Pheasant	Nov. 10-Dec. 15 Nov. 10-Dec. 15	10 3 30
Whitefish Buffalo	May 15-Feb. 15† May 15-Feb. 15†	30	Trout	Apr. 15-July 15†	10†
xMississippi	Way 15-1 co. 15		Pike, pick'l.	May 20-Nov. 30t	10
Deer	Nov. 20-Dec. 1† Dec. 20-Jan. 1†	1	pike-perch Bass, bl., Os- wego, white	June 15-Nov. 30†	10
Bear Rapbit	No open s ason Same as Game		Calico, rock bass, crappie	June 15-Nov. 30†	20
Squirrel Quail	Local seas. 5 zones Dec. 10-Feb. 20†		Bass, striped Wh., yel. pch.,	June 1-Fcb. 28 No closed season	
Turkey Buss	Apr. 1-Apr. 20 ♂ May 1-Feb. 28	1 15	catf., sunf.	110 Closed Scason	
Crappie White perch	May 1-Feb. 28 May 1-Feb. 28	15 50	New Mexico		
Sunfish Missouri	111111111111111111111111111111111111111		Deer Elk	Nov. 10-Nov. 21† 64 (Ltd.) Oct. 26-Nov. 3	1
Deer	Nov. 5, 6 Oct. 24-26	1+	Bear Antelope	Nov. 10-Nov. 21† Shooting by	1+
Archery Squirrel	D(Tyr only	1‡	Turkey	permit † & Nov. 10-Nov. 21 † Nov. 10-Nov. 21	2 5
Quaii	May 30-Oct. 31 Nov. 10-30 Nov. 10-Jan. 1 Jan. 1-Oct. 31	15†	Squirrel * Trout	Nov. 10-Nov. 21	20
Raobits, groundhogs	Jan. 1-Oct. 31 Nov. 10-Dec. 31	4	Bass, pike pch. Crappie	Apr. 1-15	$\begin{bmatrix} 15\# \\ 20 \end{bmatrix}$
W ill-eved pike Biss, black	May 30-Dec. 31 May 30-Dec. 31	8	Sunf., ring pch. and bream	May 15-Nov. 30	20
Trout Bass, wh., yel.	Nov. 10-Dec. 31 May 30-Dec. 31 May 30-Dec. 31 May 30-Dec. 31† May 30-Dec. 31 May 30-Dec. 31	$\frac{12}{12}$	Chan. catf. Bull ¹ d., yel, and	No closed season	20
Bass, warmth., rk. Crappie		12	mud catfish) o violet beasen	
Channel cat	Mar. 15-Dec. 31 {Mar. 15 May 31 {July 15-Dec. 31	8	New York Deer	† o³	1
Blue gl., bl. pch.	Mar. 15-Dec. 31	_12	Bear Rabbit	† Oct. 17-Jan. 31†	6 <u>†</u>
Montana Dier	Oct. 15-Nov. 15† &	1 1†	Squirrel Quail	Oct. 17-Nov. 18† Nov. 1-15†	5 4†
Bear, bl. & br. Bear, grzly.	Apr. 15-Nov. 15† Oct. 15-Nov. 15 Oct. 19-Dec. 9†	1† 1†	Grouse	Dates not set	
Elk Goat Grouse	Oct. 1-31	1	Pheasant of Black bass	July 1-Nov. 30†	6†
Q iall, turkey Size hen	Dates not set	1	Striped bass Muskellunge	No closed season July 1-Dec. 1†	†
Hun, partridge Pheasant	Jacks Hot Set		Salmon, Idlekd. Salmon, chinook	Apr. 1-Sept. 10 Apr. 1-Sept. 10	3
All game fish Nebraska	May 25-Nov. 15	15	Pike-perch Pickerel Gt. no'n, pike	May 1-Mar. 1† May 1-Mar. 1† May 1-Mar. 1†	† 2 3 10† 10† 10†
Rabbit Squirrel	Dates not set Dates not set	10	Gt. no'n. pike Trout, brk., br., r'bow	+	10+
Phissant Trout	Dates not set Dates not set Apr. 1-Oct. 1	5 10	Lake trout Bullineads	Apr. 1-Sept. 10 No closed seasont	3†
Bass, black Crapple, sunf.,	No closed seasont	10	Whitefish	Apr. 1-Sept. 10† No closed season	25†
rock bass Bullheads	No closed seasont	15 15	Perch, white Perch, yellow Long Island	No closed seasont	
Culh	No clored seasont	iö	Rabbit, squirrel	Oct. 17-Jan. 31	6

7	The state of the s					
I	Long Is. (cont.)	Nov. 1-Dec. 31	6	Penn, (cont.)		
Ш	Grouse Pneasant	Date not set Date not set	4	Muskellunge, West'n and	Y-1 1 37 04	
I	NorthCarolina	Date not see		North'n pikc Yell. pch., rock	July 1-Nov. 30	2
ı	Deer Bear			bass, str. or cal. bass, wh.;		
۱	Rabblt Squirrel			crappie, sunf., catf., suckers,		
I	Quail	Dates not set		carp	No closed season	15
1	Grouse Turkey	Write (J. D. Findlay)	-	Rhode Island	N 1 D 014	
II	Russian boar Trout	Raleigh, N. C.		Rabblt Hare	Nov. 1-Dec. 31	
ı	Bass, black Wall-eyed plke			Squirrei Quall	Nov. 1-Dec. 31 Nov. 1-Dec. 31	1
ı	Striped bass	<u></u>	8	Grouse Pheasant	Nov. 1-Dec. 31	
П	North Dakota Sharptall	Dates not set	3	Bass Pickerel	Nov. 1-Dec. 31 † Nov. 1-Dec. 31 Nov. 1-Dec. 31 Nov. 1-Dec. 31 Nov. 1-Dec. 31 † Nov. 1-Dec. 31 † Nov. 1-Dec. 31 † June 20-Feb. 20† June 20-Feb. 20† Apr. 15-July .51 No closed season	6
II	Pin'd rouse Sage & runed	Dates not set		Trout Striped bass	Apr. 15-July 5†	10
u	grouse; part'ge Pheasant	Dates not set	2	Perch, white Perch, yellow	No closed season	20
ı	Trout, salmon Bass	May 2-Sept. 30 June 16-Oct. 31	3 5	Perch, yellow	No closed season	30
ı	Wall-eyed pike,		5	South Carolina Deer	Aug. 15-Jan. 1† 3	5
H	northern plke Crappie	May 16-Oct 31 June 16-Oct. 31	10 15	Rahblt	Sept. 1-Mar. 1	1
	Sunfish Perch	June 16-Oct. 31 June 16-Oct. 31 May 16-Oct. 31	$\frac{15}{25}$	Squirrel Quail	Sept. 1-Mar. 1 Nov. 28-Mar. 1 Nov. 27-Mar. 1	0
	Ohio			Turkey Trout, speckled	No closed seasont	20
	Deer Rabbit	Dates not set Dates not set	4	Trout, rainbow Bass	No closed seasont No closed seasont	20 10†
	Squirrel Pheasant	Dates not set Dates not set	2	xSouth Dakota		
ı	Hun, partridge Grouse	Dates not set Dates not set	2	Deer Grouse, prairle		1
Н	INLAND DIST. Muskellunge	No closed season	2	chicken Pheasant	Not set until Sept.	
H	Wall-eyed pike	No closed season No closed season	2 6 6	Hun. partridge	Mary 1 Sept 20	15
۱	Trout	Apr. 14-Sept. 16	6	Trout Bass, weyed	May 1-Scpt. 30	
ı	LAKE ERIE DI	ST.	"	plke, pickerel Bluegills	June 15-Feb. 29 May 1-Feb. 29	8 15
H	Muskellunge Wall-eyed pike	No closed season		Builheads, pch. Crappies, sunf.	May 1-Feb. 29 May 1-Feb. 29	50 15
ı	Sauger Trout	No closed season Apr. 14-Sept. 16	6			-
ı	Bass Oklahoma	June 30-May 25†	$-\frac{6}{}$	Deer	Special seasons	1†
П	Squirrel Quail	May 15-Jan. 1 Inter. (NovJan.)	10		Special seasons Nov. 25-Jan. 25	
ı	Bass Chan. catfish	No closed seasont	10	Squirrel Quail	Aug. 1-Dec. 31† Nov. 25-Jan. 25	
۱	Crapple Crapple	No closed seasont	15		Nov. 25-Jan. 25 Special seasons	1† 10
ı	Oregon Deer	Dates not set		Trout Bass	Mar. 1-Oct. 1 May 30-Mar. 31	10 8 5
ł	Elk Antelope	Dates not set Dates not set		Wall-eyed pike	May 30-Mar. 31 May 30-Mar. 31	10
ı	Squirrel	Dates not set Dates not set	1	Sauger pike Muskellunge	I May 30-Mar. 31	15
ł	Quall Blue grouse	Dates not set Dates not set		Crapple Rock bass	May 30-Mar. 31 May 30-Mar. 31	15
	Pheasant . Hun. partridge	Dates not set		White, str. bass Yellow bass or	May 30-Mar, 31	
	Trout. salmon, steelhead,	Apr. 26-Oct. 15	10	II Walinouth Dass	May 30-Mar. 31 No closed scason	15 25 25
	less than 20" Bass, black;		000	Bluegili bream	No closed season No closed season	25
	Perch, crapple, catf., sunf.,	No closed season	30	Buffalo	No closed season	-
1	bream, pike Str. bass,	No closed season	15	Texas Deer	Nov. 16-Dec. 31† d	2
	Shad	No closed season	- 1	Bear Peccary	Nov. 16-Dec. 31	1 2
	Pennsylvania Deer, female	No open season		Couleral	Nov. 16-Dec. 31† {Oct. 1-Dec. 31† {May 1-July 31†	
	Deer, 2 pt. ant. Deer, no ant.	Dec. 1-12 Dec. 13		Quail	Dec. 1-Jan. 16† Nov. 16-Dec. 31† d	3
	Bear Rabblt, Cttl.	Nov. 17-22 Nov. 1-30	20	Bass, bl., sp'ted	No closed season	15
1	Squirrel Quall, Bbwht.	Nov. 1-30 Nov. 1-7	124	White bass Trout	No closed season No closed season	15 25 5 25 25 25
	Grouse, Rfd. Pheas'nt,rgnk,m	Nov. 1-7 Nov. 1-7	1 6	S' Crapple Catfish	No closed season No closed season	25
	Turkey	Nov. 1-30† Nov. 1-7		Utah		
	Partridge, Hun. Hare, snshoe	Dec. 22-Jan. 1	1	B Deer_	Oct. 16-Oct, 27† o	1
	Trout Trout, lk. or sal.	July 1-S pt. 29		Grouse, sage hen prairle chicken		
	Bass P.ke-perch	No open season Dec. 1-12 Dec. 1-13 Nov. 17-22 Nov. 1-30 Nov. 1-30 Nov. 1-7 Nov. 1-7 Nov. 1-7 Nov. 1-7 Dec. 22-Jan. 1 Apr. 15-July 31† July 1-8 pt. 29 July 1-Nov. 30 July 1-Nov. 30 July 1-Nov. 30 July 1-Nov. 30	-1 (Pheasant Quall	Nov. 1-Nov. 7	3†
	Pickerel	July 1-Nov. 39		THE WILLIAM		

Utah (cont.)		- 11	West Virginla	1	
Bass	May 15-Oet, 31†	15	Deer	Dates not set	1
T'out	June 15-Oct. 31	15	Rabblt	Dates not set	1
Salmon	June 15-Oct. 31	15	Squirrel	Dates not set	- 1
1524111011	June 18-Oct. 31;		Quail	Dates not set	
Vermont	_		Grouse	Dates not set	- 1
Deer	Nov. 10-Nov. 20	1	Turkey	Dates not set	1
Souirrel	Oct. 1-Oct. 31	4	Bear	Dates not set	- 1
Rabbit	Oct. 1-Feb. 28	3	Woodehuck	Dates not set	1
Quail	No open season	-	Trout, rnbw.,		i
Grouse	Oet, I-Nov. 9	4	brown	Apr. 26-July 15	10
Pheasant	Oet. Sat. & Wed. of	2-4	Trout, brook	Apr. 26-July 15	15
Bear	June 1-Dec. 31		Bass	June 28-Nov. 30	8
Trout	May 1-Aug. 14	20	Pickerel	June 28-Apr. 30	
Lake trout,	11203 1 111171		Muskellunge,		
salmen	May 1-Aug. 31	2	w, eyed pike	June 28-Apr. 30	
Bass	July 1-Nov. 30	5	Rk, bass, erappie,		
Muskellunge	June 15-Apr. 14	25+	sunf., bluegill	June 28-Apr. 30	15
Pike-perch	May 1-Mar, 14	25#	Cattish	June 28-Apr. 30	10
Pickerel	May 1-Mar. 14	25#	Perch	June 28-Apr. 30	10
Smelt	June 1-Mar. 31				
Virginfa		t i	Wisconsln		
Deer	Nov. 20-Jan. 5† 3	1	Deer	Nov. 23-Dec. 1† 3	1
Bear	Nov. 20-Jan. 5†	1 1	Deer (bow &		
Elk	Closed season		arrow)	Sept. 28-Nov. 14	1
Rabblt	Nov. 20-Jan. 20†	75	Bear	No closed seasont	
Claulweol	(Sept. 15-Sept. 30 (Nov. 20-Jan. 20	75	Raccoon	Oet. 23-Nov. 30	
Squirrel	Nov. 20-Jan. 20		Raoblt	Oct. 19-Jan. 15	3 3
Quail	Nov. 20-Jan. 20†	135	Squirrel	Oet. 19-Nov. 30	3
Grouse	i)	15	Grouse	No open season	
Pheasant	Same as quail	20	Pheasant	Oet. 19-Nov. 28†	
Turkey	,	4	Hun, partridge	No open season	١
		f i	Quail	Oct. 24-28t	4 7
Bass	(W: June 20-Dec. 31	1	Bass, black	June 20-Jan. 15†	1.7
	(E: June 20-Mar. 15	10	Trout	May 17-Sept. 7†	15
Trout	Apr. 20-July 31	12	Lake trout	Apr. 15-Sept. 30†	5
Plke	(W: Same as bass	20	Wall eyed pike,	Mars 10 ton 155	~ 3
	(E: No closed season		sauger	May 18-Jan. 15†	7† 7†
Crappie	No closed season	0.5	No. pike, pick'l	May 18-Jan, 15†	
Bream	No closed season	25	Muskellunge	May 18-Jan. 15†	25
Washington			Bass, other	May 18-Jan, 15t	15
Washington	Oct. 8-Nov. 5† 6	1	Catfish	May 18-Jan. 15† Apr. 15-Jan. 15†	25
Deer	E: Same as decr		Bullheads		25†
Bear	W: Closed during	1	Other panfish	May 18-Jan. 15†	201
Dear	Elk season				
Elk		1	Wyomlng		
Rabbit	Nov. 3-Nov. 11 &† Oct. 13-Feb. 28†	5	Deer	Local seasout o	1
Grouse	Oct. 13-14†	5 2	Moose	Local seasons	1
Quail	Oet. 13-30	10	Elk	Local seasont	1
Pheasant	Oct. 13-30	1 3		Local seasons	1
Hungarlan	No open season	1 0	Sheep	Local seasonst o	1 1
partridge	1 TO Open beason	E	Antelope	Local seasons†	2
Steelhead	Dec. 1-Mar. 1t	3	Pheasant	Local seasons	1 ~
Other game fish	1	1	Trout	Apr. 1-Oct, 31t	1 20
Lowl'd lakes	Apr. 1-Nov. 30		Grayling	Apr. 1-Oct. 31†	20
Gen'l season	May 26-Oct. 31	20	Bass	Apr. 1-Oct. 31	20
1	A CT CITY A PRICE		7 TOTAL V 1 TITE	0	

MIGRATORY BIRD LAWS

After blological investigations and consultations with State game administrators, Secretary of the Interior Krug adopted, and President Truman approved in August, 1946 drastic amendments to the laws ou migrating birds. The duck hunting season was reduced from 80 to 45 days, the daily bag limit from 10 to 7, and possession limit from 20 to 14. These amendments were made to avoid imminent disaster

20 to 14. These amendments were made to avoid imminent disaster threatened by a 50 per cent increase in the number of hunters from 1944 to 1946 coupled with a 36 per cent decrease in the number of ducks. Although 1948 regulations will not be available until September, 1948, the salient features of the 1946 rules may be of Interest to some. Waterfowl: October 5 to November 18 in North; October 26 to December 9 in Intermediate; November 23 to January 6 in South. Kentucky Is now in South—Iowa, Montana, Ohio—intermediate, Daily bag and possession for geese has been reduced to 2 of any kind. The length of the shooting day for waterfowl, coots, rails, and gallinules runs from one half hour before sunrise to one half hour before sunset. Rails and Gallinules: Same as waterfowl and coot seasous in Maine, Wiscoush, Massachusetts, aud New York.

Wood Duck: No open season in Arizona, Colorado, Kansas, Massachusetts, Nebraska, Nevada, North Dakota, Utah, or Wyoming, Canada Geese: No open season in Minnesota, Wisconsin, Michigau, Iowa, Illinois, Indiana, Ohio, Missouri, Kentucky, Tennessee. Arkansas, Louisiana, Misslsslppi, or Alabama.

Snow Geese: No open season in Wyoming.

FOR FULL DETAILS, WRITE: Fish & Wildlife Service, Dept. of Interior, Chicago 54, Illinois.

Interior, Chicago 54, Illinois.

ANECDOTES AND PLEASANTRIES

THEY DIDN'T SAY IT

"Go West, young man." tributed to Horace Greeley. At-

The famous editor used this admonition in a New York Tribune editorial after reading it in the Terre Hante (Ind.) Express in 1851. When it became popular Greeley tried to give credit to the originator, John Babson Soule, but it was too late. Lane

"Everybody talks about the weather but nobody does anything about it." Attributed to

thing about Mark Twain.

Charles Dudley Warner, editor of the Hartford Courant, is now believed to have coined this epigram. Mark Twain did say, you don't like the weather in New England, just wait a few minutes.

"They shall not pass!" Attrib-nted to Marshall Petain.

Iustead of Petain, the man who uttered this historie challenge was his suecessor in command at Verdun in World War I, Gen.

Robert George Nivelle.
"Lafayette, we are here." Attributed to General Pershing.

Not the commander of the AEF but Col. C. E. Stanton of his staff said that.

"The forgotten Man." Attributed to the late President Roose-

velt.

The forgotten man in this ease seems to be the author of the expression, Prof. William Graham Sumner of Yale.

"Praise the Lord and pass the ammunition." Attributed to Captain William Maguire of the United States Navy.

Another Navy chaplain, Lleut. Howell Forgy, gave this battle ery which inspired a popular Dow Richardson song.

"Diffrunt people, diffrunt 'pin-

ions

Some like apples, some like in-Arthur Guiterman yuns."

AN ODE TO THE SHANGHAIS

It's pretty nearly a eentury ago now that a certain editor started bravely in to compose a poem to an ostrich. His inspira-tion, however, appeared to give out after he had written the first stanza, which, nevertheless, he published as follows:

Feathered giraffe! who lent you wings?

Who furnished you those legs? such everlasting conld How

things As those, come out of eggs?

"Sometimes," said Uncle Eben, "a man gives hisse'f credit foh bein resigned to fate, when he has simply settled down to bein good and lazy."

CAPE COD ANECDOTE

earlier Cape Cod days. wreeks along the backshore provided rich pickings for the Cape Codders. On a stormy Sunday it was the custom in Eastham, so the story goes, to station a watcher on the beach while the rest of the town attended to sabbath service.

Oue Sunday as the preacher reached his Ninthly or Tenthly the watcher burst through the meeting house door, a gust of a

northeaster on his heels.

"There's a ship ashore on the back side," he shouted, and for a momeut all was confusion until the preacher's loud voice and

raised hand stilled the tumult.
"Just a minute, brethren. Before you go I have just three words to say." By this time he was walking rapidly down the aisle, buttoning his coat. As he reached the door his hat went on. "Now start fair," he shouted.

GOING BACK

I am a prominent business man. I am well decorated with pins and Jewelry of the best lodges and elubs.

I employ many hands, and "When

Say Goeth, They Goeth (or dld Before the days of Senator Wagner).

One day the cashier of the bank

forgot

And almost smiled at me. But each summer I go back to The Old Country. And as I approach

The Great Stone Face my stature Sorter shrinks; and my identity Gets kinder hazy; to the natives I am only Herb Young's boy. And I prefer it that way.

Ray C. Young in Yankee

Every square mile in the United States is struck by lightning au average of ten times a year according to Westinghouse engineers.

Did you know that a three-colored cat is always a female? P. T. Barnum years and years ago offered \$1000 for a male three-eolored cat. He never got one.

PRESCRIPTION FOR SPRING

Of the infusions used medically by our ancestors, sassafras tea deserves to be remembered long-est because it brought a new and pleasant taste to the spring of the year. Boneset tea on the other hand was never anything but a bitter taste. Some other herbs made aromatic or earthy mediherbs cinc, but never such a brew as sassafras, embodying the impulses of the season and the fresh vigor of the outdoors.

Gosnold's voyagers reported that sassafras "cured one of our company that had taken a great surfeit by eating the bellies of dogfish." This was one of the mildest of the recommendations for the root of the sassafras tea, and for two hundred years voyagers came to the region of Martha's Vineyard in search of marvelous and fragrant remedy. The price, in Gosnold's day, was three shillings the pound and 336 English pounds

the ton of root. No longer a tree of "high price and profit," the sassafras remains of our most distinguished countryside citizens, and should be remembered particularly in the spring. Anyone who desires to try the prescription of our founding fathers may find himself a small bit of sassafras rootno more is necessary—and steep the root bark as he would tea. Whether this will clear the blood and banish the humors of winter, we do not know. If not, there is no reason to believe that sassa-fras has lost its virtue since the day of our great grandfathers; perhaps mankind has lost something-faith or the country touch.

NEW ENGLAND WEATHER

or understanding with the earth.

Vineyard Gazette

In a long since famous address at a dinner of the New England Society of New York someone told of the visitor to New England who figured out that conditions for the next day would be 'something about like probably northeast to southwest winds, varying to the southward and westward and eastward and points between, high and low temperatures, swapping around from place to place; probable areas of rain, snow, hail, and drouth, succeeded or preceded by earthquakes, with thunder and lightning... You fix up for the drouth; you leave your umbrella in the house and sally out and two to one you get drowned."

FARM PROVERBS

Two sparrows on the same ear of corn are not long friends.

He who has a straw tail is always airald of its catching fire. Let every one mind his business, and the cows' will be well-tended.

Better on the heath with an old cart than at sea in a new ship, Mules make a great fuss about their ancestors having horses

To wash an ass's head is but loss of time and soap.

R YEW A PORE SPELER?

The following to be found in the ancient town books of Derryfield (later Manchester, N. H.) must set some sort of record for the manufacture of words: "At ameetien of the free houlderes and in habitentes of the town of Derryfield hild juely ye 20; 1752 agriebel to the forgowin warnin met at the houes of obiell Barker Lette." Lette.

RUMOR

"There must be some truth in It because it is all over town."

Reminds us of a wise Yankee to whom a young man repeated some of the stories that were "going around." "Well, son," he said, "ye could be in a better business."

HARD TO TELL

A man who went away from home some time ago to attend a convention of church people was struck with the beauty of the little town in which the gathering was held. He had plenty of time and while wandering about, walked into the village cemetery. It was a beautiful place, and the delegate walked around among the graves. He saw a monument, one of the largest in the cemeand read with surprise the tery, inscription on it:

"A Lawyer, and Man." an Honest

The delegate scratched his head and looked at the monument again. He read the inscription over and over. Then he walked all around the monument and examined the grave closely. Another man in the cemetery approached and asked him,

"Have you found the grave of

an old friend?"
"No," said the delegate; "but I was wondering how they came to bury those two fellows in the same grave."

WORD CHARADES

(Answers appear on page 94)

.

My first for naught has been employed,

A verb the thrifty most avoid, And you and I must make my last;

When Vulcan from my whole was cast,

He had my second ever after, Provoking all the Gods to laughter

2

I built my house upon my last. So sudden was its fall, And so surprisingly my first, It must have been my all.

3

My first is all-embracing, right and left and front and back, And my second may be many or a unit, but alack!

My first and third without my second moan and sigh; but once it's there,

My whole incites to mirth, to wit, to banishment of care;

A constant guide, a cheerful friend throughout the changing year;

Seed-time and harvest shall not fail with this companion dear.

4

The sky is overcast,
The sun its light withdraws,
While rumblings of the blast
Quick serve to give us pause,
Till with my first each breast is

filled
And every heart seems well-nigh
stilled.

With lightning dazed and thunder thrilled.

Anon my last draws near
With threatening aspect clad
And mortals quake with fear
While havoc dire and sad
It works, when, risen to a gale
It pours alike o'er hill and dale
Destructive floods and deadly
hail.

And thus when man seeks rest From toil, and fain would find "Dame Nature" at her best—

To mischief least inclined, E'en in my whole she takes delight,

While Sirius rages day and night In filling timid souls with fright. 5

My first hard by the waters cool are seen

Leaving my second in the crystal flood;

While close at hand you'll find, beside the road,

My whole a symphony in gold and green.

6

My first 'tis safe to say Is never out,

My second and my third go out in doubt,

My whole, some people get put out about.

77

My first asserts your power to do, My second that you've done it. Pray be my whole and tell us now

All that you know about it.

8

Break! Break! Break!

My first on the rocks and the sand,

May I never be vexed for the want of next
In the touch of a beautiful

hand.

Break! Break! Break!

And shove the ship on the shore.

My whole shall abide on the top of the tide.

Till the wind shall blow no more.

(Original Charades by L. B. R. Briggs)

9

My first, a scared river
Flows to a sunless sea,
My next was doomed forever
To be followed by a bee.

My third I do that you can guess my whole,

Which Cadmus out of Egypt stole.

10

They say that my first is the seat

of the mind; man be not my second, his forces soon fail;

forces soon fall;
But, a strange thing to tell, if he both combined,

His reason and strength are of little avail.

OLD FASHIONED PUZZLES

(Answers appear on page 94)

Conundrums

1. Why is a man who makes pens a wicked man?

Why is a hen immortal? Why are teeth like verbs?

Who was the strongest man mentioned in the Bible? When a boy falls out of the

window what does he always fall against?

Why is a dog dressed warmer In summer than in winter? 7. What is that which we often

return but never borrow? 8. What is that which works

when it plays and plays when works?

9. What is that which is lengthened by being cut at both ends?

How does a postage stamp have the advantage of a small boy?

Enigma

moves backwards and forwards, and upward and down-

Earthward and heavenward, toward and onward:

'Tis of silver or gold, or a metal much baser;

time, regulates and keeps thieves in their place, sir. It has wards, though no guardian,

save of your pelf, And it takes care of all things, excepting itself.

Puzzles

What two letters express that which all should try to do, but which not many in these ages attain, although it Is not much beyoud middle age?

Arrange the numbers from two to ten in three columns so that they add up 18 down, across, and diagonally, without repeating

any number.

Two children were discussing their pocket-money. "If you were to give me a cent," said Johnny, "I should have twice as much as you." "That would not be fair division," said Tommy; "you had better give me a cent, and then we shall be just alike." How much money had cach?

Anagrams

I am a word of letters four, I am as old at least as the earth, I fly as on the winged wind, No man o'er estimates my worth. If you should completely turn From head to foot my name about,

Although for ages I have lived. Immediately you put me out.

A sombre color I am found, And as to dirt I little show it; But if you fairly turn me round I grow refined and am a poct.

Emblem of majesty am I Which "shows the force of temporal power,

But twist me about and I become A thing which makes e'cn monarchs cower.

The mariner knows me, I give him a name;

My home's in the mountains, in ocean the same.

No hook ever caught me, no bait ever lured; It is only when stranded that I

am secured. But turn me about and none I

precede And often am taken to satisfy greed;

But when I'm concrete I'm made from a tree

And stoutest apparel is moulded on me.

Riddles

Small though I am, great objects I achieve,

oft the wisest of mankind And deceive.

Patriots and law-givers by me their sway Maintain, and lead the nation to

obey.

Mine are those gifts and mine those powers refined Which from the brute distin-

guish human kind. give new pleasures when the song goes round,

And charm the hearers with melodious sound.

Although I'm interviewed each day

cannot tell a word folks say. I'm speechless but not silent. though

I make a noise where'er I go. I do not always tell the truth, Yet I am not to blame forsooth. For those who do in me confide I oft important things decide. Though I have not a doctor's

skill, Yet I'm consulted when one's ill. If you can now one's name divine, I pray you tell me, reader, minc. Sore, aching shoulder muscles?



Painful, aching muscles often follow unaccustomed exercise. Fatigue acids may have settled in them. That's why they hurt! But you can help nature help you by rubbing those sore muscles with Absorbine Jr. Increasing local circulation in those areas will bring a supply of fresh blood which helps carry fatigue acids away and your stiff, weary muscles limber up again.

Keep Absorbine Jr. on hand at all times. It's grand relief! \$1.25 a bottle at your drugstore.



Help nature drive out fatigue acids with Absorbine Tr.

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

Absorbine Jr.

Kills Athlete's Foot Organisms on Contact

AMERICA'S FAVORITE SANDWICH SPREAD

THE ORIGINAL



UNDERWOOD DEVILED HAM

is SUPERB for Sandwiches and Snacks . . . but have you tried these tested, tempting dishes?

New! Quick! Delicious!

DEVILED HAM-NIPS

1 3-ounce package of cream cheese 1 can UNDERWOOD Deviled Ham

Blend ingredients together until smooth. Add other seasonings with curry if desired. Spread on finger-length pieces of hot buttered toast.

QUICK ... and EASY!

POACHED EGGS a la UNDERWOOD DEVILED HAM

Here are eggs with a difference - and so simple to make! Just spread UNDERWOOD DEVILED HAM on hot buttered toast. Then place a poached egg on each slice and serve immediately.

You'll want "repeats"!

A new favorite!

DEVILED HAM-QUICKS

1 cup prepared biscuit 1/2 cup water

1 can UNDERWOOD Deviled Ham

1/4 teaspoon each cayenne pepper and salt

Combine ingredients. Drop by spoonfuls on ungreased cookie sheet. Bake in hot oven (400°F.) about 10 minutes. Serve hot. Makes about 2 dozen.

So different!

DEVILED HAM STUFFED EGG SALAD

Sliced tomato head lettuca tablespoon melted

3 hard-cooked eggs 1 teaspoon prepared

need tomato mustard
and lettuca A few drops lemon
blespoon melted juice
french dressing
tter
1 can UNDERWOOD Deviled Ham Cut eggs in halves lengthwise. Take out yolks carefully, mash to a smooth paste with UNDERWOOD Deviled Ham, mustard, lemon juice and melted butter. Refil whites of eggs with this mixture. Place a half egg on a slice of tomato and serve on lettuce leaves with French dressing. butter

Quick as a wink!

DEVILED HAM CANAPE

Cut bread in squares, rounds, diamond shapes, 1/4 inch thick, toast to delicate brown, spread liberally with UNDERWOOD DEVILED HAM Sprinkle with grated cheese and brown in hot oven. Delicious!

So Easy!

DEVILED HAM with Scrambled Eggs

Scramble the desired number of eggs in your favorite manner and just before they are done, mix in the contents of a can of UNDERWOOD DEVILED HAM.

RECIPES AND HOUSEHOLD HINTS By NANCY DIXON

Brunswick Stew

2 onions

2 teaspoons Worcestershire sauce 1 pound fresh lima beans

2 T bacon fat 2½ pound frying chicken Salt and pepper 3 cups water

1° can corn niblets 2 T butter

3 tomatoes

1/2 cup bread crumbs

Brown onions in bacon fat. Cut chicken into serving portions, season and brown. Pour off fat and place chicken and onion in heavy kettle. Add water and Worcestershire sauce. Cook slowly over 'low heat for half hour. Add lima beans, okra and corn. Simmer for one hour, add butter and bread crumbs and cook for one half hour longer.

Breaded Sweet Potatoes

Cut boiled sweet potatoes into lengthwise slices. Dip into beaten egg and then roll in crumbs and fry in deep hot fat (375 degrees). Fry until brown and then drain on brown paper.

Baked Stuffed Potato and Egg

1 large baking potato 2 T milk

1 T butter Pepper 1 egg

1/4 teaspoon salt

Wash the potato well and brush with oil. Bake until done. Slice off top, remove potato from shell and add butter and milk. Season well and whip until fluffy. Re-stuff leaving enough space to hold egg. Put potato in the oven and cook until egg reaches desired doneness.

Lemon Cercal Pudding

11/2 cups hot wheat cereal % cup sugar % cup lemon juice

1 T meltcd butter 1 egg well beaten

Combine all ingredients and beat until smooth, Turn into greased individual molds and bake in a 350 degree or moderate oven for 20 minutes, Cool and chill. Serve with whipped cream.

As important as the skill used in the actual preparation of food is the skill used in the purchase. Simple rules to follow when buying:

Fruits

Apples: Choose firm apples of good color and flavor. Immature apples are poor in color and flavor. Over ripe apples are mealy and poor in flavor.

Apricots: Select firm, plump, uniformly colored fruit. Immature fruit is a greenish yellow and hard. Ripe extremely perishable.

Bananas: Buy yellow ripe or full-ripe fruit. Avoid soft mushy fruit, blackened area or mold. Have best flavor if harvested green.

Blackberrles: Should have a bright, clean, fresh plump appearance and an even full color. Adhering green caps an indication of unripe fruit.

truit.

Blueberries: Deep full color and plumpness an indication of good quality. Berries held long after picking are usually shriveled.

Cherries: Sweet cherries for eating. Tart cherries for cooking. Plumpness and bright color are an indication of quality. Over ripe fruit is soft and dark. Avoid fruit with small brown flecks.

Cranberries: Look for a fresh, plump, shiny red skin. Should be

Should be firm, not soft and flabby. Should be heavy Grapefruit: Should be firm, not soft and flabby. Should be fleavy for their size, Russet tinge on skin does not affect flavor. Decay can be

seen at ends as evidenced by soft discoloration.

Grapes: Grapes for juice should be ripe but free from mold. Grapes on the stem should be firm and highly colored and should adhere to

Lemons: Select heavy ones with smooth skins. Avoid spongy fruit.

Limes: Select rich green fruit. Yellow fruit is not sufficiently acid.

Surface blemishes do not affect fruit.

Oranges: Choose heavy fruit for the size. Avoid puffy wrinkled stem.

skin.

Firm and fresh looking with a white or yellowish ground Peaches: reaches: Firm and tresh looking with a while or yellowish ground for plak tint. Decay spreads rapidly. Worminess is shown by small holes. Green ground color indicates unripe fruit.

Pears: Buy soft at base of stem for immediate consumption. Buy firm but not hard fruit. Select smooth, shiny skin.

Pineapples: Ripe pineapple has a dark yellow-orange color with

flat eyes. If picked when iminature fruit will not ripen and hence will be hard and pithy.

Plums: Ripe fruit is plump and yields to slight pressure, Brownish

spots on side indicates sumburn and indicates poor flavor.

Quince: Good fruit is hard and completely free of blemish. Unripe fruit is green and you'll find will lack flavor.

Rhubarb: Choose thick yet crisp and tender stalks. Pink to red in

color.

Strawberries: Select solld red berries with attached caps. Look for bright red color free from green spots. Berries should be firm but not hard.

Waternelons: Misshapen melons are usually of poor quality. Look for a smooth symmetrical shape with a green bloom on the surface and yellow in the underside. Decay occurs at stem and spreads rapidly. Inside should be firm, watery and deep rich melon color.

General Hints: Make your own selection of fruit. Do not handle unnecessarily, Do not buy simply because the price is low. Consider the fruits in season. Locally grown products are lower in price as

a rule.

Vegetables

Asparagus: Select thick tender stalks with firm but close compact

tips. Angular stalks are apt to be woody and pithy.

Beets: Should be smooth skinned and free from shrivel. Beets left too long in the field will have short necks and will be covered with scars.

Broceoli: Select stalks that are tender and firm and support compaet heads without evidence of flowering. Avoid yellowing leaves.

Brussels Sprouts: Select firm, compact sprouts that have a fresh

green color. Dirty appearance may indicate plant lice.

Cabbage: Look for reasonably solid head. Early cabbage will not be as firm as winter cabbage. If base of some of the outer leaves have separated from stem, cabbage may have strong flavor.

Select smooth, well shaped earrots with good color. Avoid Carrots: or forked carrots. Excessive masses of leaf stems indicate wilted

large, flavorless cores.

Cauliflower: Choose white, clean and compact heads. Avoid spread-

Celery: Brittle enough to snap easily. Avoid pithy, stringy stalks, Chicory: Crisp, fresh and tender. Tough plants may be bitter. Corn: Dry straw colored husks are indicative of age or damage. Wormy corn can be detected by peeling back husk and examining kernels.

Cucumbers: Firm and deep green in color. Over-ripeness shown

puffiness and hard seeds.

Eggplant: Heavy and free from blemish and a uniform dark color. Soft or flabby eggplant often bltter.

Dark and bluish green in color. Avoid wilted or yellow Kule: leaves.

Mushrooms: Select white, firm, clean caps free from mold or soft spots. Mushrooms darken with age.

Parsalps: Select smooth parsaips of medium size. Soft, flabby

roots are pithy or fibrous. Large roots have woody cores.

Peas: Young, tender and sweet. Pod should be bright green and velvety. Avoid wet and mildewed pods.

Peppers: Select firm, thick fleshed peppers of fresh appearance.

Avoid surface blemishes.

Squash: Summer squash should be fresh and heavy for its size. Rind should be crisp but easily punctured. Watch for soft stems.

Turnips: Select smooth skinned turnips with fresh green tops.

Zucchini: Small, crisp zucchini. Wilted ones will have poor flavor.

General Hints: Fresh, firm, tender vegetables free from bruises and other imperfections. Best flavor and lower price when vegetables

and other imperiections, best havor and lower price when vegetables are in season. Always notice color as well as firmness.

Care of Meat in Household: As soon as received from the market remove from wrapper and place UNCOVERED in coldest part of refrigerator where the temperature will not go below 45 degrees

Fahrenheit.

FRANCONIA NOTCH ITEMS

It was in October, 1916, that E. H. Geddisa, Quincy, Massachusetts, granite craftsman, anchored the forehead stone of the "Old Man of the Mountain" in its granite cliff that it might be preserved for prosperity. The day President Harding died (August 1923) the Profile House & Cottages burned down thus paving the way for the present 5000 acre Franconia Notch state reservation.

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MAGNETIC
"LUCKY" CHARMS, one to "attract" Good Luck in Money, Games, Love, Business, Work, etc., the other to "prevent" Bad Luck, Losses, Evil, Trouble, Harm, etc. Believe in Luck? Carry a Pair of these curious Genuine Brahma Red Live Lodestones! We make no supernatural claims, \$1,97 Postpaid for the two, with all information, \$1,97 and 27c extra if C.O.D. Satisfaction GUARANTEED or Money Returned, Order yours NOW!

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"The whole family can warble to their heart's content," says Mrs. Piffin, "because The Country Store now has those famous Slippery Elm Lozenges, so demulcent to the throat. They ve been made by the Thayer people for 100 years, and they're absolutely indispensable for singers and speakers. I remember them as a young girl. If my throat were rough, I'd simply take a Slippery Elm, and people said I sang like an cusel, or was it a chaffinch."

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Send for General Catalogue.

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Clothing and Home Furnishings with "Perfection" Dyes

Order direct from manufacturer. ORDINARY TYPE for Wool, Cotton. Silk, Linen, Viscose Rayon and mixtures thereof; 3 pkgs. 25c — 16 for \$1.00 (your choice of colors). For garments, hosiery and furnishings of acetate rayon, nylon, etc., or of unknown composition, get the BRAND-NEW PERFECTION ALL-FIBRE DYE at 15c per package. ALL ORDERS FILLED POSTPAID.

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All kinds. Highest prices paid for jewelry, rings, spectacles, gold teeth, diamonds, broken and usable watches, etc. Cash mailed promptly. Write for FREE shipping container.

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KNOW YOUR SOIL AND SAVE MONEY

Why use excessive fertilizer and lime? For Two Dollars, we can tell you the nutrient content of your soil. For imformation write: Dept. A, Suburban Service Laboratories, Box 208, Glenside, Penna.

CYPHER CONTEST

Re: Cypher Contest, page 55, The 1947 Old Farmer's Almanac(k), No contestant came auywhere near solving this simple cypher. The answer was: 11 equals first line, first word (Hudson's), 31 ls third line, first word (Blankets), 193 first word (Blankets), 120 is 19th line, third word (Follow), 195 is 19th line, fifth word (Fashion), mak-ing the decyphered line for 1131193195 the number 1131193195 read: "Hudson's Blankets Follow Fashion." As no solution was received the \$25.00 prize will be added to the prize money for solution of a somewhat easier cypher in this edi-tion. To wit, 951123456 is the cypher which represents the first line of verse -you send us the second —you send us the second line. All submissions re-main our property—three prizes, \$25 first, \$15 second, \$10 third. Contest closes March 1. 1948, Decision of judges is final. Solutions should be sent to Yankee, Inc., Dublin, New Hamp-shire—Cypher Dept. In case of tie, prizes will be case of tie, prizes will be split.

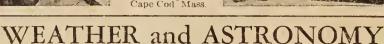
BE MR. WEATHERWISE. THIS WEATHER VANE INDICATES ON AN

- Shows direction and shift of wind
- Shuts itself off when wind dies Uses less current (A.C.) than electric clock
- Complete with fifty feet of
- cable Convenient, Accurate, as Dependable and Fully guaranteed. Easily installed
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HERE are genuine, New England baked beans at their extra-flavorful best. Beans baked in strict accordance with the old-time recipe. Baked (not steamed) for one entire day, in brick ovens and open bean pots. Baked mealy and tender, with lots of pork and spicy sauces in B & M's famous ovens 'Down East' in Portland, Maine. Why not serve 'em to your family today? Burnham & Morrill Company, Portland 2, Maine.

APPROXIMATE PLANTING, GROWING, AND HARVESTING TABLES

I. LATITUDE OF BOSTON, MASSACHUSETTS

(ADD ONE WEEK EVERY 100 MILES NORTH OR 500 FEET ELEVATION).

Date to plant ***** Time of Growing 00000. Harvest Season xxxx.

Most early planting dates are for starting seedlings indoors.

E means Early. L means Late.

					1				1	1			1	Moon
													Seeds	Most
	T	T3 . 1.	3.4	A	16	Tour	Tool	A	Con	Oat	Morr	Dog	Per Acre	Favor-
Crop	Jan	094	Mar	Apr	May	Jun	Jui	Aug	ыер	300	TAOA	Dec	Aut	anie
Barley			*	****	****	***0	0000	000x	XZXX	x			2-3 bu.	4.9-23
Beans E					***	***0	COOX	XXX						5.8-22
Beets E				**	**00	000X	**00.	0000	OXXX	XX				5.15-22 4.9-33
L L					**	**00	0000	XXXX					1 oz. 75	7.6-20
τ.									0000				ft.	
Broccoli E				***	**00	0000	00XX	XXXX	XXX	17.7		III,		4.9-23
L						**	*000	0000	0000	OXXX			1/ 1)	7.6-20
Brussels Sprouts Cabbage E			***	****	0000	0000	0000 XXXX	000 XXXX					1/2 lb. 1/2 lb.	5.8-22 4.9-23
L					0000	***	****	*000	000%	XX			,	6.21
Carrots E				**	**00	nann	XXXX	XX	0000				2½-3lbs. 1 oz. 150	5.8-22 6.6-21
ъ												,	ft.	0.0-21
Cauliflower E				**	**00	0000	0000	0000	0000				5 oz. 1 oz. 3M	5.8-22
L						77	****0	0000	0000	2200	XX		plants	6.6-21
Celery E						****	0000	0000	0000	XXXX			4-80z.	7 40 00
L							**	**00	0000	0000	OXXX	X	1 oz. 4M plants	7.13-20
Corn Sweet E					**	****	0000	000x	XXX				8 qt.	5.18-22
· L					***	**	0000	0000	0000	XXXX	XX		2-3 lbs.	6.14-21 6.7-21
Cucumbers						0	0000	27.77					1 oz50	0.1-21
77 771						****			1				hills	6 7 91
Egg Plant Endive E				**	**00	0000	0000 0000	0000	XX					6.7-21
T.									ZZ		7			6.7-21
Kale Ē L				**	0000	XXXX	X ****	*000	000X	vvv				4.15-23
Leek							0000	0000	OXXX	XZZZ	XXXX	XXXX		6.7-21
Lettuce E				**	*000	X ****	оохх	21.50					1 oz. 150 ft.	5.8-22 6.14-21
Melon, Musk						****	0000	OOXX	XX ·				loz. for	6.7-21
0 :					****	1			i				80 hills 1 oz. for	5.8-22
Onion						.000	0000	OOXX	XXXX	XX			100 ft.	0.0-22
													of drill	
Parsley			*	7700	0000	0000	0000	XXXX	XXXX	XZZX			1 oz. for 100 ft.	
Parsnip				****	0000	0000	0000	0000	VXX	ZZZZ	XXXX	XXXX	1 oz. 100	5.8-22
Peas E			*	**	*000	0000	OXXX						ft. of dr. 1 qt. 60	4.15-23
					000	0000	ļ				}		ft. of dr.	1.10-20
L							**	*000	0000	XX		`		7.13-20
Pepper					**	***	0000	OOXX	0000 XXXX	XXX				8.15-19 6.14-21
Pumpkin				*	**00	0000	0000	0000	0000	XXXO	XXX		1 qt. 200	
Potato				**	**00	0000	0000	0000	0000	XXXX	x		hills 8-20 bu.	4.15-23
Radish E				**	ooxx	X							1 oz. 100	4.15-23
L					**	0000	XX		,				ft. of dr.	5.15-20
Γ							1	**	0000	XX				8.15-19
Spinach E		1		***	0000	000X	XXXX **		*000		VV			4.10·23 8.4-16
Swiss Chard				**0	0000	ooxx	XXXX	XXXX	XXXX	XXXX	X			4.23
Squash Summer					**	**00	0000	000x	XXXX	XXXX			2 lbs. 1oz. for 30	5.15-22
Summer									1		1		hills	1
		1							1		1		1	1

	Table I — Continued													
Crop	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oet	Nov	Dec	Seeds Per Acre	Moon Most Favor- able
Tomato				***	****	0000	0000	XXXX	XXXX	XXXX	XXXX		3 oz. for 3M	4.9-23
Turnip E				***	0000	000X							plants 1 oz. for 200 ft. dr	4.9-23
Wheat							****	**00	000X			1		7.6-20
Fall Spring			0		ZZZZ 000*	0000	0000	0000	0000		0000 X			10.9-17 4.9-23

APPROXIMATE PLANTING, GROWING, AND HARVESTING TABLES

II. LATITUDE OF PHILADELPHIA, PENNSYLVANIA. (Add one week for every 100 miles north or 500 feet elevation). Date to Plant *****. Time of Growing 00000. Harvest Season xxxxx. E means Early. L means Late...

	I	1	1	1	1	1		1			1			Moon
1.			1										Seeds	Most
1						_							Per	Favor-
Crop	Ja	n Œe	b Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Acre	able
	-1	_												1
Barley		1 *	* ****	*000	0000	0000	vvvv	****	v					2.18-24
	- l			±*	0000	0000	VVVV	VVVV	Λ.				Seo	4.16-23
Deans		- 1			10000	***0	0000	0000	VVVV	~			200	6.16-21
Beets	Ы	- }	**	****	0000	noox	XXXX	XXX	-6.6.6.2	*,2			Table	4.16-23
Deets .	ř				10000	***	0000	0000	XXXX					6.16-21
]	1		1			0000		XX			I	8.11-19
Broccoli	E L	1	***	*000	0000	000X	YYY							3.10-1
	ī.l	1	1					***	*000	000X	XX			8.11-19
Brussel's -	1		1	Ì	1	{								3
Sprouts			***	**00	0000	0000	0000	XXXX	X					3.25
	Е		***	**00	0000	00XX	XXXX							4.16-23
	L					****	*000	0000	0000	OOXX	XXX			6.16-21
Carrot	E L E L		***	0000	0000	00XX	XXXX	XX	1					3.10-18
	L			1		10000				XXX				4.16-23
Cauliflower :	Ē L		**	*000	0000	0000	OOXX	XXXX	XXXX					3.10-18
	L			1		****	*000	0000	0000	XXXX	X			6.16-21 5.15-22
Celery			1		777	0000	0000	0000	0000	XXXX	Z			4.14-23
Corn	E		1 77	0000	0000									5.15-22
	L	- 1		***		***0				XX				4.16-23
Cucumber			1		**00 **00					VVVV				4.16-23
Egg Plant				***	**00	0000	0000	0000	OUUA	AAAA				4.16-23
Endive	fi		1		1 00	OOXA	**	**00	ooxx	xx				
Kale	E L E L	-1	**	*000	0000	0000	XXX		*	1011				3.10-18
Kale	뒨		1	000	10000	10000	**	0000	0000	XXXX				8.11-19
Leek	-		***	*000	0000	10000	OXXX	XXXX	XXXX	XXXX	XXXX	XXXX		3.18-25
	Е	- }	****	*000	0000	OXXX	v	i	1	1				3.18-25
Detruce	T.		1	1	-		**	**00	0000	XXX				
Melon, Musk	7			**	*000	0000	0000	OXXX						4.23
Onion			***	0000	10000	0000	XXXO	XXXX	X					3.18-25
Parsley			****	*000	0000	0000	0000	OOXX	XXXX	XXXX	XXX			3.18-25
Parsnip					0000			OOXX	XXXX	XXXX	XXXX	XXXX		3.25
Peas	E	1	***	0000	0000	XXX	, about							3.18-25
	L					1	***	0000	000X	XXX				8.11-19 5.15-22
Peppers					****	0000	0000	OXXX	XXXX	X	W W			15.15-22 14.16-231
Potato				***	****	0000	0000	0000	000X	XXXX	XX			5.22
Pumpkin	70		***		**00	0000	0000	OXXX	XXXX	AA				0,22
Radish	E		7.	00XX		. 0	LOOXX	***	ooxx					
	L		76.1	***	XXOO				1	1				3.25
Spinach	E			-	NOO'N	AA		****	**00	OOXX	x			8.19
Chard	L	1	**	**00	OXXX	VYYY	YYYY			John	1	1		3.18-25
Swiss Chard	1			00	OALA	AAAA	AAAA	AAAA	AA					
Squash				21	**00	0000	ZZZZ	XX						4.16-23
Summer	1			1	1		1				1	1	1	-
	1	1	-0	1		1	1	1	1	1		1		

Table II — Continued														
Crop -	Jan	Feb	Mar							Oct	Nov	Dec	Seeds Per Acre	Moon Most Favor- able
Tomato Turnip E L Wheat	0000	0000	0000	***	0000	0000	XXXX	***0	0000	0000 *** ₀	9XXX	XXXX 0000		4.16 4.16-23 9.10-18 10.9-17

APPROXIMATE PLANTING, GROWING, AND HARVESTING TABLES

III. LATITUDE OF ATLANTA, GEORGIA.
(Add one week every 100 miles north or 500 feet elevation).

Date to Plant ******. Time of Growing 00000. Harvest Season xxxxx.

E means Early. L means Late.

								i		1		1			Moon
								1				ļ	1	Seeds	Most
Const.		T	172. L	3.5	A	M	T	T. 1	100	a	0.4	1,4	n.	Per	Favor-
Crop		Jan	reb	Mar			-	. [-			Dec	Acre	able
Barley	-			**					0000	,0000	XXXX	X	1		3.10-18
Beans	Ē			7.7	_000	0000	OOXX	XXXX	***					~	8,11-19
Danta	L		***			1		}	7 * * *	0000	OXXX	X		See	2.18-24
Beets	E		1	0000	0000	XXXX		1	ł	***			-	67. 1.7	9.10-18
Broccoli	E		**	****	0000	*******		1		1	0000	OOXX	XXXX	Table	2.18-24
Proceou	L			00	0000	XXXX			***	0000	0000	O WWW	XXXX	I	8.11-19
Brussels	Ĕ		**	***()	0000	0000	ooox	VYYY	4	0000	0000	OXXX	AXXX		2.18-24
Sprouts	Ĺ	λXX		~	0000	0000	1000.1	**	0000	0000	0000	6000	oxxx		7.15-20
Cabbage	E		***	*000	0000	0000	XX		0500	0000	0000	0000	OZAA		3.10-18
	L	XX						**	0000	0000	0000	0000	XXXX		7.15-20
Carrots	\mathbf{E}		**	*000	0000	XXXX	X	1				1	}		2.18-24
	L		l	1				1	****	*000	0000	0000	OOXX		8.11-19
Cauliflower	Ê		**	*000	0000	0000	XXXX					1			2.18-24
1C-1	L	XXX	XX		**				1	***	0000	0000	0000		9.10-18
Celery	E		1	**-	7.	0000	0000	0000	0000	XXXX					4.16-23
Corn	L			**	0000	0000	XXXX	XX							3.10-18
Cucumber	Ë				1 00	0000	000X	XXXX							
Cucumber	L					0000	OXXX	XXXX **	0000	0000	\$7 w/ w/				4.16-23
Egg Plant					***	0000	0000	0000	OOXX	0000	XXX				7.15-20 4 16-23
Endive	E		**	***o	OOXX	xx	1000	10000	OOAA	224					2.18-24
	L			"			-1		**	*000	OXXX	TTTT	v I		8.19
Kale	E		**	*000	0000	XXXX							1		2.18-24
	L							}		***	0000	OXXX	xxxx		9.10-18
Leck			**	****	**00	0000	0000	OOXX	XXXX	XXXX	XXXX	XXXX	XXXX		2.18-24
Lettuce	Ê		**	*000	XXXX									1	2.18-24
36 1	L									***	000X	XXXX			9.10-18
Melon, Musk	$_{\rm E}$			7.	7000	0000	OXXX	XXXX	XXXX	X I					3.15-18
Onion			0000		1770	0000	0000	0000	XXXX	XX			***		3.15-18
Parslev	븳	0000	*	0000	X000	XXXX	0000		XXXX				***		12.8-16
Laterey		YYYY	XXXX	2 00	0000	0000	0000	10000	XXXX	****	XXXX				2.18-24
Parsnip	Ē	na,na	*	***	ററററ	0000	0000	VVVV	vv		0000	000x	XXXX		8.19
}	L	XXX	XXXX	X	0000	0000	***	0000	0000	0000	0000	vvvv			2.18-24 7.13-20
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	L								**	0000	0000	xxx			8.19
Peppers					***0	0000	0000	0000	Odvy	XXXX	XX				4.16-23
	Ē	***	****	*000	0000	0000	0000	XXXX	XX	[1.19-26
	L				***	0000	0000	0000	ററററ	0000	XXXX	XX			4.16-23
Pumpkins	та		****		***	0000	0000	0000	XXXX	XXXX	XX				4.16-23
	된	XX		*000	XXX					***0	OOXX	XX			
	E	X.X	***	**00	000X	XX			1	1	**	2000	XXXX		
				00	XOOO	XXXX	A		***						2.18-24
	븳		**	**00	0000	0000	YYYY	VVVV	***0 XXXX	0000	XXXX				8.11-19
		XXXX	xxxx	XXX	0000	0000	AAAA	AAAA	VYYY	**	*000	0000			2.18-24
Squash	1										000	10000	XXXX		8.19
Summer	1			**	*000	0000	ooxx	XXXX							9.10-18
Tomato	1			***	0000	0000.	OOXX	XXXX	XXXX						9.10-18
	E	*	**00	0000	OOXX	XXX									2.18-24
		XXX			1					****	**00	0000	xxxx		9.10-18
Wheat	(0000	0000	0000	0000	0000	0000	0000	oxxx	XXXX	xx**	****	*000		9.10-18
	-														



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

	THE CONATION	5 OF EACH I	EAR FOREVER				
Moon	Time of Change	In Summer	In Winter				
	From Midnight to 2 A.M.	Fair	Hard frost, unless wind be S. or W.				
	From 2 A.M. to 4 A.M.	Cold, with frequent showers	Snow and stormy				
last -36)	From 4 A.M. to 6 A.M.	Rain	Rain				
. 49	From 6 A.M. to 8 A.M.	Wind and Rain	Stormy				
moon, or arpages 14	From 8 A.M. to 10 A.M.	Changeable	Cold Rain if wind be W.; Snow if E.				
moon, larpage	From 10 A.M. to Noon	Frequent Showers	Cold & high wind.				
full	From Noon to 2 P.M.	Very rainy	Snow or rain.				
cal	From 2 P.M. to 4 P.M.	Changeable	Fair & mild.				
rte	From 4 P.M. to 6 P.M.	Fair	Fair.				
1st quarter, full se left hand calend	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.				
(S)	From 8 P.M. to 10 P.M.	Same as from 6 P	.M. to 8 P.M.				
moon, 1s	From 10 P.M. to Midnight	Fair	Fair & frosty.				
~ 0							

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

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

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

Farmers & Mechanics Manual, 1874







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Tables of Measures

(English Units)

Linear Measure

1 foot=12 inches 1 yard=3 feet 1 rod=5½ yards=16½ feet 1 mile=320 rods=1760 yards= 5280 feet nautical mile=6080 feet knot=1 nautical mile per hour 1 furlong=1/8 mile=660 feet=

220 yards league=3 miles=24 furlongs fathom=2 yards=6 feet chain=100 links=22 yards link=7.92 inches

1 hand=4 inches
1 span=9 inches

Square Measure

I square foot=144 square inches
1 sq. yard=9 sq. feet
1 sq. rod=30¼ sq. yards=
272¼ sq. feet
1 acre=160 sq. rods=43560 sq. ft.
1 sq. mile=640 acres=
102400 sq. rods 102400 sq. rods 1 sq. rod=625 square links 1 sq. chain=16 square rods

Cubic Measure

acre=10 square chains

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

(Metric Units)

Linear Measure

1 centimeter=10 millimeters 1 decimeter=10 centimeters 1 meter=10 decimeters dekameter=10 meters 1 hektometer=10 dekameters kilometer=10 hektometers inch=2.54 centimeters meter=39.37 inches yard=0.914 meters 1 mile=1609 meters= 1.61 kilometers

Square Measure centimeter=

1 square 100 square millimeters 1 sq. decimeter≔ 100 sq. centimeters 1 sq. meter=100 sq. decimeters= 1 centar 1 ar=100 centars hektar=100 ars sq. kilometer=100 hektars 1 sq. centimeter=0.15 sq. inches 1 sq. centimeter=0.15 sq. fich 1 sq. meter=1.20 sq. yards 1 sq. kilometer=0.39 sq. miles 1 hektar=2.47 acres 1 sq. inch=6.45 sq. cm. 1 sq. yard=0.84 sq. m. 1 sq. mile=2.59 sq. km. 1 acre=0.40 hektars

Cubic Measure

1000 cubic millimeters 1 cu. decimeter 1000 cu. centimeters 1 cu. meter=1000 cu. decimeters 1 cu. yard=0.76 cubic meters 1 cu. meter=1.31 cubic yards 1 liter=1.06 U. S. liquid quarts 1 hektoliter=100 liters= 26.42 U. S. liquid gallons
1 U. S. liquid quart=0.94 liters
1 U. S. liquid gallon=3.76 liters

1 cubic centimeter=

Weights

Avoirdupois

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

Troy

(Used in weighing gold, silver, jewels) 1 pennyweight=24 grains

1 ounce=20 pennyweight 1 pound=12 ounces

Apothecarles

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

Metric

1 centigram=10 milligrams 1 decigram=10 centigrams gram=10 decigrams 1 dekagram=10 grams 1 hektogram=10 dekagrams kilogram=10 hektograms 1 metric ton=1000 kilograms 1 kilogram=2.20 pounds 1 pound avoirdupois=



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From Maine to Florida

RECENT TRENDS IN FUNGICIDES

By E. J. Rasmussen Dept. of Horticulture, University of N. H.

The control of diseases on plants by the application of chemicals in the form of sprays and dusts is not as old a practice as one might think from the important place it holds today in food production. It dates back to about 1880, when Bordeaux was found to be effective in the control of mildew on grape plants. Later, about 1906, lime-sulfur was found to be satisfactory for the control of apple scab, and these two were the most commonly used fungicides until a few years ago.

Materials such as bordeaux and lime-sulfur not only controlled plant diseases but often caused serious defoliation and injury to the fruit to which they were applied. Plant physiologists became interested in the effect of spray materials ou plants several years ago. Through their research it was found that lime-sulfur, for instance, interfered with the function of the foliage to manufacture plant food, reduced the size of leaves, and often caused serious defoliation and reduced yields of fruits.

The results of the work by plant physiologists ou the harmful effects of spray materials ou plants stimulated interest in the development of new materials which would control diseases but be less toxic

to plants, and today better materials are available.

The fungicides which are largely replacing bordcaux and limesulfur in plant disease control are wettable sulfurs, proprietary cop-

per compounds, and synthetic organic materials.

Wettable Sulfur, Wettable sulfurs are elemental sulfurs of very fine particle size to which a wetting agent has been added. They are available in paste and powder forms and are sold under various frade names. The brands with the smaller particle size (8 microns and smaller; a microu is equal to 1/25000 of an inch) and a high percentage of sulfur are the most effective in disease control. Wettable sulfurs are suggested for the control of apple scab, brown rot of stone fruit, and black spot on roses. The dry wettable forms are usually applied at the rate of 4 to 8 pounds to 100 gallons of spray.

Proprietary Copper Compounds. The proprietary copper compounds are stable eopper materials in the form of basic sulfates, oxychlorides, oxides, and silicates. They are sold under trade names and are sug gested for the control of cherry leaf spot ou sour cherry, grape black

rot, pear scab, potato blight, and various diseases on vegetables.

Synthetic Organic Fungicides. Synthetic organic fungicides are the most recent development in plant disease control materials. They are complex organic materials and are sold under patented trade names. Over 50 of these materials were used in an experimental way for disease control on plants in 1946. A few of the promising ones are mentioned here.

Ferrie dimethyl dithiocarbamate sold as Fermate and Karbam is a black sooty powder. This material is one of the most promising of the new fungicides for the control of apple scab, cedar rust, cherry leaf spot, brown rot of stone fruits, and black spot on roses, authracnose

ou raspberry, and early blight of tomato.

Dichloronaphthoquinone, sold as Phygon, was found effective in the control of apple scab and cherry leaf spot in 1946. It causes considerable injury to potato when used for blight control, resulting in low yields. It is a yellow powder and irritating to the skin.

Phenyl mercuri triethanol ammonium lactate is sold as Puratized Agricultural Spray. This material was reported in 1946 to be effective in the control of pear scab, apple scab and grape black rot. It contains mercury and must not be used on plants or fruits used for food when there is danger of a poisonous residue. It is sold in liquid form and used at the rate of 1/2 to 1 pint to 100 gallons of spray.

Zinc dimethyl dithiocarbamate, sold as Zincate, Zerlate, Methasan,

and Karbam (white), is a white powder.

This material was found effective for the control of cherry leaf spot, pear scab, brown rot of peach, early blight of tomato, celcry blight, and anthracnose of tomato.

The development of better spraying and dusting equipment and better fungicides and insecticides is a real advancement in pest control.

Ed. Note: DDT, about which so many have heard so much, apparently is not a fungicide. It is an insecticide.

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THE ARTIFICIAL INSEMINATION OF CATTLE

The artificial insemination of cattle is no new thought, for the need has long been seen. To the average farmer without convenient nas long been seen. To the average larmer without convenient of reliable local bull service for his cows, this is a Godsend. But it is more than a convenient arrangement, When semen from bulls proved as to quality is used in artificial insemination, we have the basis for heavier milk production and increasingly better grades of cattle. By "proven sires" is meant those bulls that have through their offspring proved a greater milk producing line than was shown by the dams. Once "proved," these sires through artificial insemination, ean serve many times more eows than in the ordinary service function, for nature in this respect is wasteful.

The method of gathering semen artificially used to be simply to draw out from a serviced cow the surplus semen and place this in a test tube or use it immediately to inseminate other eows. However, this method was obviously unsanitary, and offered no little chancof the spread of diseases—for a chain of animals were more or less involved in physical coutact, Today trained handlers have been taught how to prepare a "sleeve" with warm water compartments heated to body temperature. Into this the bull ejaculates and from this the

semen is drawn for future use.

The semen may be kept in refrigeration from 5 to 7 days. This means keeping it at just above freezing temperatures either by fasteuing the test tubes to ice-filled receptaeles or by suspending tubes in iced thermoses. In this way, the life of the sperm is subdued and preserved. Semen thus held is diluted one part to 20 with a prepared egg yolk dilutant.

Many states now have an artificial insemination program or are about to have. Centres will each serve 1000-2000 cattle. The New England States are pretty well started in the work, its men especially trained at Cornell or elsewhere to carry on the work.

The ehief reasons a herd owner should join up with an artificial insemination program is that it does bring proven quality bulls to his herd, offers a stop-gap to disease, and in the long run is far cheaper and more convenient than the "old-fashioned" bull service. Here is one sure-fire herd innovation that the dairyman cannot lose by. lose by.

GROWTH OF TIMBER

J. M. ATTRIDGE, Forester, New England Forestry Foundation

Few people are familiar with actual growth in a stand of timber where increment is measured in terms of board feet per acre per year. Maximum yields of timber ean be realized only by maintaining a high volume of growing stock. This point is illustrated in Table 1, which is applicable to the average woodland in southern New Hampshire, as determined by the New England Forestry Foundation.—

Ta	Table II			
Growing Stock you have per	Your board-foot	Growth Pereent	DBH	Growth Percent
acre (board feet)	Growth		8	11.8
1,000	120	8.1	10	$9.0 \\ 7.0$
2,000	$\begin{array}{c} 160 \\ 205 \end{array}$	7.3 6.6	$\begin{array}{c} 12 \\ 14 \end{array}$	$\begin{array}{c} 7.0 \\ 5.7 \end{array}$
3,000 4,000	240	6.2	16	4.5
5.000	270	5.7	18	$\frac{3.7}{1}$
6,000	$\frac{295}{320}$	$\begin{array}{c} 5.3 \\ 5.0 \end{array}$	$\begin{array}{c} 20 \\ 22 \end{array}$	$\substack{3.1\\2.7}$
7,000 8,000	345	4.7	$\tilde{24}$	2.4
9,000	375	4.5	26	$\frac{2.1}{1.8}$
10.000	410	$\frac{4.3}{4.1}$	28	1.8
11,000 12,000	445 485	4.0		ans diam-
13.000	540	3.9		inches at
14,000	605	3.7	preast he	eight (4½')

* In trees measured 8" DBH and up.

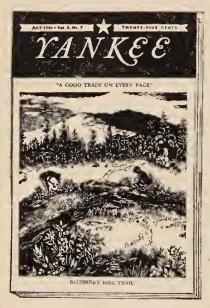
Growth of timber is commonly expressed in board feet per acre or growth percent. It is interesting to note in Table II, the rate of (Continued on page 73)

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YANKEE, Incorporated

Dublin, New Hampshire

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

SCIENTISTS AT WORK

Courtesy in part Experiment Station Record—U. S. Department of Agriculture

Soilless Gardens. Still carried on this year will be the soilless gardeus such as were installed on many a desert island during the war. But those gardeus were furthered with all that the government could offer in the way of pesticides and fertilizers. Our soilless gardens this year will be the back yards of gravel and sand that many a temporary tenant of many a temporary housing unit will attempt to cultivate. How shall these deserts flourish?

Prairie Grasses. Slow but sure, if you give them time—that's the story of government sowu prairie grasses. According to a government report: "Prairie grasses never looked to be a good prospect the first year. The good prairie perennials were apparently lost in a jungle of weedy growth. Sorted out by botanical species, the good grasses did not yield in the first year more than one-twentieth of what they did the second season. By the third year they were victorious competitors, kept the weeds down, and yielded five times as much as in the second season, and 100 times as much as the first year. This was not a single season's experience, but the average for five years."

Frozen Fruit Juices. In view of the extraordinary demand for such products, experimental work has pretty well reached the commercial stage in frozen apple juice, orange and apricot purce mixtures, plum juices, orange juice, grapefruit and prune juice blends, tomato juice and blends, punch syrups, sour cherry, apple and apricot and fruit nectars.

Your Home Freezer. Many farmers are looking forward to the time when they may build in a home freezing unit—one that will be a real "walk in" unit—a place to hang whole carcasses as well as behind closed partitions, to store furs, etc. We have only scratched the possibility of this idea. Why haven't we more "home-freezer" rooms? We are only awaiting the time when we can construct them economically.

Onion Sets Skillfully Stunted. Few readers may stop to think that onion sets are one of the real oddities of the garden supply business. They come from a crop deliberately and skillfully overcrowded, so overcrowded that growth is checked. The bulbs are stunted and may grow into shapes different from their natural rotundity. Then the crop is harvested, cured, and stored for about half a year. In the spring the stunted bulhs are replanted with favorable spacing. They grow again and form the favored early green onion of spring. Or they may be left to mature as full size vegetable bulbs.

Freezing Muscadine Grapes. Due to the highly perishable tendencies of Muscadine grapes, only the juice has been used commercially. A general method has been found for utilizing the entire grape by deseeding, removing excess tartness of the skins, tenderizing, packing with sugar, and freezing. This method provides a wide application in the home and in the commercial field.

Using The Whole Tree. The Weyerhaquser Timber Co. (largest in the world) whose operations are carried on in some two million acres of western forests, has developed ways of using most of the trees they fell. Usually in the lumber industry only about a third of a felled tree becomes lumber—the rest just left to rot or wasted in the sawmills. The Weyerhaeuser Co. salvages sawdust by pressing it into the shape of fireplace logs. These are known as Prestologs. Under the name of Silvacon, the company is turning out no less than five bark products, to be used variously as a soil mulch, in the manufacture of phenolic resin and fiber paints, and as a plywood adhesive.

Early Chicks Lay Early Eggs. It is the early hatched chick (from late February to early April) that is of an age and stage of develop-

ment best able to take advantage of the long hours of June and July daylight to grow and mature to the point of egg laying. Well-proven now that these chicks do start laying in a shorter time from hatching out than chicks maturing in the shorter days of fall or late summer.

Furm Facts, About one out of every five persons in the U. S. lives on a farm and another fifth of our population lives in rural areas strictly dependent upon farms. The farm population includes about a third of all children in the nation, and when one of these grows up and moves to the city he automatically subsidizes it to the extent of some \$2,000, the amount of money out of farm income that it cost to grow and educate him.

Nearly 750,000 farm dwellings had to be abandoned during the war. Only about half the existing farm homes have electricity, a little more than a fourth have running water, about a sixth have bath and tollet, and fewer than that have central heating.

Food Values. A letter from the U.S. Department of Agriculture says in part: "Just as surely as we now buy grade AA, A, B, and C eggs, the day will come when we will buy eggs with a guaranteed vitamin and mineral content. Eggs or butter vary in their vitamin content, depending on the completeness of the ration the cow or chicken is fed. When that time of guaranteed vitamin and mineral content arrives, it will be extremely important for every farmer to feed his livestock correctly. We will then have to make sure that his soil contains the essentials for food value, in order that the crops and livestock products he sells may contain the factors necessary for leading. health."

Cattle Fever Tick Doomed, The Bureau of Animal Industry in its 40 years' fight to eliminate cattle fever, see now the original quarantine area at less than one percent its original size and annual losses reduced from some \$40,000,000 to less than \$400,000 annually.

Super-Colossal Egg. In Glen Cove, N. Y., on April 3 last year was laid the world's largest egg. A black and white Brahmin owned by Evans Mealing delivered herself of this wonder. It measured 71/2 inches In eireumference and weighed 15 ounces. The hen kept right on laying,

New Marketing Methods for Strawberries and Peaches. South Carolina and Tennessee growers find that the complete enclosure of berries in quart baskets by overwrapping and heat sealing in eellophane retarded mold development and dehydration. Overwrapping with flaxible transparent films encouraged purchasing by store patrons. The complete covering prevented spilling and shifting of the fruit and reduced crushing in transit and losses by pilfering, Wrapped quarts were handled more easily by patrons and in general stimulated purchases.

Hay Driers. Drying hay in barns artificially by duet systems has progressed considerably over the last decade and is now the subject of a report on hay driers in Vlrglnia. There are 247 driers in use in the state, all of which were reported on by their owners, only one untavorably.

Boron Deficiency in Apples, The New England Experimental Farm has the following recommendations to make for the use of borax for the control of internal cork, in apples. Trials of borax added to the soil indicated one pound per tree to be effective and the results probably to last for five years. Most suitable time for application is June through August. Best results were found where borax was immediately hoed into the soil, though this would scarcely be feasible in extensive orchards. The keeping quality of storaged apples from trees previously suffering from B deficiency showed a marked improvement.

Vanishing American Soil. "When John Smith and Miles Standish came to these shores, the topsoil averaged about nine inches in depth. Today, due to the ripping and wearing action of the water and wind on unprotected land and to the removal of organic matter-the result of land abuse-topsoil averages about six inches in depth for the

nation as a whole. In some places it is all gone." (Secretary of Agriculture Anderson.)

Our Changing Climate, From 1932 to 1945 data on the weather of our country shows a more or less regular rise in temperature for the first few years of that period, but a trend the last few years to a leveling off with even a suggestion of impending reversal.

Orchard and Truck Garden Heater Experiments. An experimental orchard and garden heater developed at Michigan State College can keep the temperature of plants over a one acre plot 8 degrees Fahrenheit warmer than surrounding area temperatures at a cost of 75 cents

per hour.

This will prove most useful in protecting the high-cost-per-acre crops such as fruits, berries, truck gardens and flowers. The oil-burning heater is designed so that radiant (infra-red) heat warms the plants directly without greatly warming the air, thus resulting in a large economy of fuel. Cost of the experimental model was \$250, but engineers believe that a burner large enough to protect one acre can be produced for one-third to one-half that figure. Tests continue to increase the efficiency of the model.

Should Tomato Plants be Pruned and Staked? As reported from the Minnesota Experimental Station, the yields of (1) unstaked and unpruned, (2) staked but not pruned, and (3) staked and pruned tomato plants were 16.62, 15.96, and 11.77 tons per acre, respectively. When early yields (first five pickings) were considered, the respective figures were 1.33, 1.41 and 1.57 tous. Furthermore, fruits on the pruned and staked plants averaged larger in size.

Roach Repellent Cement. Of interest in connection with flooringespecially for buildings or rooms used for food storing will be the use of grey-colored Hubbellite cement. It is found to have to a marked degree the power to repel German, American and Oriental cockroaches. There is no report as to effectiveness on the Irish, South American, Portuguese and Brooklyn varieties.

(Continued from page 69)

growth for trees of various diameters in typical stands of timber in southern New Hampshire. The annual increment of wood in a tree or in a stand is comparable to interest carned by an investment, in that the principal or forest capital compounds itself. This is true because each layer of wood is being added to a constantly increasing girth. Since growth rate decreases with the age of a tree, it is practical to

predict growth only for short periods of 5-10 years.

It is quite possible for every forest owner to find out for himself the amount of his growing stock in board feet, but he must have the amount of his growing stock in board feet, but he must have available a scale stick and volume table, with simple instructions for the use of both. A set of scale sticks with full instructions and Volume Table may be had for something over a dollar by sending, among other places, to the Federal Land Bank in Springfield, Mass. Other Federal Land Banks the country over will offer the same service. Information and Tables may also be had from County Foresters everywhere as well as the New England Forestry Foundation. White pine is the fastest growing commercial species in the New England Region. Growth of 1000 board feet per acre per year has been recorded in a few well-managed stands of white pine. Authorities predict that, ultimately, on extensive areas, in stands of well-stocked white pine the growth should not be less than 700 feet board measure, per acre per year. Growth in mixed stands, and pure stands of other

per acre per year. Growth in mixed stands, and pure stands of other species will be considerably less, varying according to soil conditions and stocking. Some of our fast growing hardwoods are red oak, basswood and ash. Red oak is an exceptionally fast grower on productive reach element. ductive north slopes.

The aim of every forest owner should be to retain as much growing stock as is economically feasible, until the maximum carrying capacity is reached. Then, the volume of timber to be cut should correspond with the increment occurring between cutting intervals,

preferably every 5-10 years depending upon accessibility.

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BUD FISHER Creator of A. Mutt and J. Jeff

The first New England railroads went into operation in 1834. As late as 1842 the inhabitants of Dorchester, Massachusetts, voted in Town Meeting that these lines would be an "incalculable evil." In 1841, Robert B. Thomas included the railroads for the first time on his "Qld Farmer's Almanac" Map of New England—thus admitting them to some sort of parity with the Stage Coaches.

Bud Fisher published the first American Comic strip in 1907. Though some readers still refuse parity for the comic-strip with the rest of the paper, it cannot be denied it has gained a major place in American publishing. The American News Company sale alone amounted to 69 million copies of comic books in 1942, 144 million in 1944, and 169 million in 1946 over a copy for every living American man, woman, and child. The "Old Farmer's Almanac" thus comes somewhat late in the day to the

recognition of this truly American phenomena in publishing herewith this story of Bud Fisher, first American Comic Strip artist.

Back in 1907, horse players were just as avid for a winner as they are today. Bud Fisher, ever observant of the behaviorism of his fellow humans, saw in this field an opportunity for a comic artist that was a surer thing than the best bet of the day. Fisher lived in San Francisco at the time and the gee-gees were running at Emeryville, across the bay.

Emeryville, across the bay.

Born in Chicago, Harry Conway "Bud" Fisher had attended Hyde Park High School where he starred on the relay team. He had illustrious company, for such athletes as Walter Eckersall and Tom Hammond were also there at the time. He attended the University of Chicago for three months and when his family moved to Reno, went

along but made San Francisco his destination.

When the comic strip idea first came to Fisher, he was only 21, but he was two years older than that before he finally convinced John P. Young, then managing editor of the San Francisco Chronicle, John P. Young, then managing editor of the San Francisco Chronicle, that his idea was worth a gamble. Fisher's enthusiasm and perseverance won. He eaught Mr. Young in a genial mood one night and approached him with some sample drawings.

"What's that?" Mr. Young asked Fisher as he peered at the eartoons and pointed to the thin, weak-chinned character that was soon to make comic strip history.

"That's me," Bud replied. "A. Mutt."

"He looks funny. We'll publish it."

This was the start of Augustus Mutt and the first comic strip ever published. Fisher had purposely given Mutt a long nose in sympathy to the horse players who were always adding body English to the bony they played, in the hope said librse would get his nose in front

to the horse players who were always adding body English to the pony they played, in the hope said horse would get his nose in front at the finish. Mutt was supposed to pick a horse a day and Fisher made him a composite of all the bettors he observed. He portrayed their varied methods of trying to dope out a winner and A. Mutt soon had a big audience. There was a familiar note here that all horse-players responded to. His cartoons gained greater popularity when the horses picked began to win, much to the bookies' chagrin. Fisher's selections were strictly for gags not speed. That is, the name of the horse would fit in with the humorous situation he intended to portray so that the effect would be double-barrelled. To anyone but a horse player, such a hit-and-miss proposition seems like a quick way to the poor house. But A. Mutt had luck, His horses won and soon yelling newsboys were selling the paper on the strength

won and soon yelling newsboys were selling the paper on the strength of Mutt's selections.

On one occasion Mutt was in a hospital, recovering from an injury, On one occasion Mutt was in a hospital, recovering from an injury, looking over the day's entries. He glanced at the sky, the sun was shining. He looked back at the list of horses. There it was, a hunch bet—Bright Skies. Mutt threw away his crutches, leaped into the bay and swam to the track just in time to plank down five dollars on the horse to win. He came in at odds of 300 to 1. Mutt was made and his body and balloons were by Fisher.

During one stretch. Fisher picked so many winners he tried to taper off. But his long shots persisted in bounding down the stretch in front.

in front.

Before long, the San Francisco Examiner offered Fisher a job at more money and he accepted. He copyrighted the title and character in his own name and added little Jeff to the comic. This was at the time when the sport pages were filled with news of the coming Johnside with the weak.

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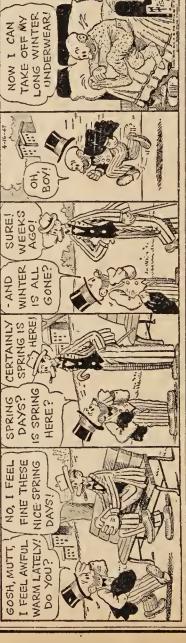
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nnd erred Fisher to began to or \$200 a week the strip was nationally popular and Fishér he soc-York and Mutt newspapers was anxious to obcontract called Mr. Hearst transmore money this time in all Jeff appear Hearst No. OULL \$300 NPP

Once, when visiting Year

DOESN'T EVEN THE IDEA MAKE YOU ITCH?





WHAT? NEITHER COULD YOU EAT AT THAT AGE



There was a away building ng and when some Fisher's attention to nervously at a cigahis, Bud's indiffersmok. executive called Mr. nettled the puffing prohibiting erence ette. slgn man.

Fisher

offices.

he New York Amer-

he inquired. 401 here?" "Yes. oQ, plied.

spouted the "Then fired."

don't know who you are but If you can make that discharge Fisher calmly. "Mister." executive.

stick, I'll give you Fisher with Hearst expired contract When his contract a thousand dollars. John \mathbf{W} heeler. signed

New York newspaperman, to syndicate the share in the profits. Hearst \$1,000 ght and without a not Week strip

long



AND TAKE THE TAKE THE LEFT TURN-NO! I'D I'D GO BACK ABOUT A MILE FIRST RIGHT SAY, HOW DO YOU GET TO FROM HERE? NEW RITUS

WELL, WHERE / I DUNNO! MAYBE START FROM? WOULD YOU START FROM HERE AT ALL I WOULDN'T NO, COME TO THINK OF IT

HICKSVILLE! WHERE,

I DUNNO HICKSVILLE?

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ployed by the Amerdraw the strip while the court finally clusive right to produce Mutt and Jeff and protection from competition of others reproducartists were emgranted Fisher exwas going on COULT lng them to unfair fight The

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perienced lawrers this victory, Fisher not only sts who came after him to gain greater they to raise pay of newsists than any other the strip a could not dent. By but made it possible 108fairconyherore stone wall Hearst's exwealth for himself or many comic art-Fisher admitted hac papermen and art-Hearst Still in returns than hought vears more that 0 gained ríghted Flsher which 3688 ater sible. TOL done the Was 11/1

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THAT AIN'T HAY BROTHER, NO HOW AND



HAMBURGERS WITH ONIONS MYSELF!

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Mutt soon

Jeff was nearing Wheeler.

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han 250 newspapof millions of readhiggest fortune ever amassed by a comThere

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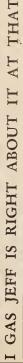
from his

e artist

When Mr. Wheeler to Mexico in Vila himself. Fisher accompanied him. Vila was fighting of a story by prought back a reolver the Mexican American given him. Durthe Canadian Lieutenant was commiss National Army but forces in the hone of World War resigned \$4,000 a week ime and arranza sioned a I Went oin

Although Muti raees was no longer fol Fisher' lowing ners. and

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diminish. He gradually built up a stable of 50 horses. many of them stakes winners. He paid close to \$60,000 for Sporting Blood. Latonia Handicap winner, Nellie Morse. named after Mr. Fisher's mother, won the Preakness. Mr. Mutt won the Saratoga Cup and another horse Car and toonist, showed great promise as a two-year-old which never materialized later. One day Bud invited Mr. Wheeler and Ring Lardner to Saratoga where his Hyperion was running with Sande up. It looked like a sare thing until the holted horse and threw Sande and all three for a loss.

Forty years have gone by since Mutt and Jeff was first published but the strip is still popu-lar. Bud Fisher continues to take an enthusiastie interest in his work. During this time it has ap-peared in many countries and in many languages. From his wide experience, Fisher analyzes the successful ingredients of a real comic as a combination of funny drawing, funny situa-tions and funny situalines with funny situations as the most important.

(Released by The Bell Syndicate, Inc.)

WEATHER

Some claim that Mark Twain said of our weather, "If you don't like it, wait a minute." Mark Twain was given credit for such a remark by his original publishers—but it does not appear in his published works.

THE BURNING BOY

Still unexplained is the greatest curiosity of the 19th century-little Jerry Hibbert of New Orleans who was seen to be on fire by a reporter from the New Orleans Times Democrat. Sitting there in the back gallery of his house. with his legs crossed and in a perfect state of nudity, chubby Jerry was enveloped in a flame red with heat. Just about this time his about this nurse in the boy sereaming the was on fire. Water thrown over 8877him but to no pur-pose. Then they wrapped him in a blanket but it was Jerry conuseless. tinued to burn right along. The incident created quite a com-motion in the house and baffled the ingenuity of the mates. Just however, the then. door swung open, and gusts of wind eame in, and Jerry went

out After a while it got around among neighbors that the this eurious burning boy was nearby. In fact, many ehildren and nurses at times saw the boy but no credenee was given to their stories Thus those who had believed and seen became used to the phenomena and, themselves, among you oceasionally would hear them say — "Little Jerry is afire again," and that would be end to the talk. It was not until Times Democrat reporter overheard this remark one morning and went morning and to see for himself that the public began to take real notice.

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FLOODS'... 1947

The floods (see page 6) which many feared would result from a quick run off of New England's snow cover did not materialise in March or April. However, the heavy rains predicted by this Almanac for May and June did bring on in some places catastrophic results.

On June 3rd, the City of Rutland, Vermont, suffered serious damage when the East Pittsford dam (and pond behind it) gave way. Fortunately no lives were lost but the railroad alone suffered damage of over a million dollars.

Farm losses — especially on corn — were extremely heavy as a result of heavy June rains in the Southwest. The Mississippi River climbed to its highest crest (over 39.2 feet) in 103 years at St. Louis while the Red Cross reported some 33,000 made homeless by the rampaging rivers in Illinois, Missouri, Iowa, and Nebraska. At the height of this flood, St. Louis also experienced one of its worst earthquakes.

Some salvage of the corn loss, caused by late planting and consequent probable immaturity before the Fall frosts, came about as a result of a Department of Agriculture finding that the young corn could be silaged at almost as good a price as mature corn would bring as feed.

Previous flood records of the Mississippi are 39.14—set at St. Louis on April 30, 1944 and the unofficial peak of 41.39 in 1844.

Maurice Sinclair Sherman, editor and publisher of The Hartford Courant, died at the Hartford Hospital-on June 27, 1947. He was a veteran of more than 50 years in the New England newspaper business—served in eapacities from reporter to publisher. His family's loss will be widely and deeply felt.

"I DON'T WANT A PENNY If I Can't Relieve Your RHEUMATIC - ARTHRITIC PAINS" says Paul Case

That's how I run my business. If I don't help you, I don't want a penny of your money, But I believe I can help you.

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You need not send money—just as soon as I receive your order, I'll ship it parcel post. When the postman delivers the package containing both formulae, pay him \$2.00 plus postage and C.O.D. charges. If you send check or money order, with the order I'll pay all postage charges.

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Mr. PAUL CASE, Dept. O. F. A., Brockton 64, Moss.

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LOOK PRETTY, PLEASE Teen-age Good Grooming

By RUTH W. BAKER, Associate Editor of The American Girl

Maybe you're perfect—a raving beanty. You brush your pearly teeth, run a comb through your raven curls, and sail off to be elected president of your club or queen of the winter carnival! If that's the kind of a story-book character you are, fine. You're lucky, and we all envy you. But you're missing something, too. You're missing the fun of learning to dramatize your good features, to minimize the less good ones. And you'll never have the thrill of seeing how a simple, sensible good-grooming routine can bring an onter attractiveness and an inner poise that make people on the street look at you twice.

Speaking of beanty rontines, have you ehecked yours over lately? Why don't we review it quickly now while the family are out at the movies and yon're lying there, luxuriating in a piney bubble ball. First, of course, you say you've figured out your figure ages ago. If chubbiness is your worry, you order an orangeade instead of a

double chocolate frosted. The string-bean type? Then you steer clear of those vertically striped dresses, and take pains to sit down to a man-sized breakfast every morning. Yes, your heels are well-cobbled, your dickeys are sparkling white, and your walk is queenly—but hold on a minute. Let's be systematic about this cheekup of ours. Let's start at the top of the list—with your hair, that would be.

Auburn, blonde, or black; short or long, the important questions about hair are these; Is it immaculate and is it well brushed? Does your hairdo suit your face, your personality, and is it so simple that it doesn't keep you a slave to the hairdresser in skiing weather? It you've naturally curly hair, consider a soft feather cut or new, easyto-manage Eton-boy bangs. If yours is a straight and shining long bob, don't let it grow too bushy or lengthy, but have an expert's scissors keep it becomingly shaped. And whatever your colffure, give it 100 strokes with a stiff brush every night and learn to do your own shampooing—avoiding cake soap, rinsing until the hair squeaks, and adding a dash of cologne to that last rinse for extra glamour before a special date. Towel your hair almost dry then, and after that shape your hairdo with a freshly-washed comb and brnsh. They're labeled "strictly personal," by the way.

Beauty Is skin deep, they say, but don't forget that the best skin programs come under the department of the interior, meaning regular,

well-balanced meals, outdoor exercise, eight or nine hours' sleep every night, and lots of drinking water. A clear complexion calls for plenty washing water, too, mild soap, and a good-old-fashioned rough washeloth. If yon've a normal skin, work warm snds right into yonr face once a day, rinsing carefully with warm, then cool water. For oity skin, next pat yonr nose, chin, and forchead with clean cotton that's been dipped in a mild astringent. Overly dry skln? Make certain your water isn't too hot or your soap too harsh or your methods of drying too slipshod and then look into a special dry-skin cream that contains lanolin. For a serious skin condition, go to your doctor and

follow his advice.

Now look at your hands. They speak for themselves, you know, smooth, well-manieured ones telling a persnasive tale of charm and good-grooming. Here again, good old cleanliness is the best basis for action; warm water, soap, and a firm nailbrush your cleverest ammunition. After each washing, dry your hands carefully, then push back the cutlcle—but gently—with your towel. Especially in the winter months finish up with a dose of hand cream or lotion and treat your cuticle regularly to a nail oil or vaseline which disconrages hang nalls. Shape your nails with an emery board, tapering the tips in a pretty, natural oval which follows the curve of the half moon at the base of your nail.

Your faithful feet come next on the list and surely they deserve the most intelligent care you can give. Though sloppy moceasins may be tops with your gang this season, choose a firm, well-fitting shoe instead; bny hose that is 1/2" ionger than your longest toe; dry carefully between each toe after baths and swlms; waik Indian style—

toes straight ahead.

Sound effects count, too-don't minimize their Importance in your total picture! Have a recording of your voice made the next time you go in to town and as you play it back, frankly analyze the sound you (Continued on page 85)

Me Send You SIZE PACKAGES









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(Continued from page 84)

make. Is it high and nasal? Ask your dramatics coach or singing teacher how you can pitch it lower. Words all run together, g's dropped sloppily? Slow down, my friend, and try making a conscious effort to imitate the diction of a fine radio voice you admire—like Helen Hayes'.

As for your vocabulary, that speaks volumes for what you are. When you run across a nice new word, look it up in the dictionary for meaning and pronunciation—and then spring it in history recitation day after tomorrow. Chances are the whole class will sit up and take new notice of you. And what will they see? A well-groomed girl of course. Well groomed from head to toe!

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41	.28	.54	.92	1.55	2.30	3.01	3.85	4.69
42	.29 .29 .30	.56	.94	1.59	2.36	3.08	3.94	4.80
43	.29	.57	.96	1.62	2.41	3.15	4.04	4.91
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55	.35	.70	1.21	2.05	3.07	4.02	5.15	6.27
55 60	.38	.75	1.31	2.24	3,34	4.38	5.61	6.84
65	.40	.81	1.41	$\frac{2.24}{2.41}$	3.62	4.74	6.08	7.41
70	.43	.87	1.51	2.60	3.88	5.10	6.54	7.97
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Continued on Page 88

INTERNAL BATHS END YEARS

Baffled at 47 — Feels Like a Young Man at 77

Imagine how thrilling it must be for a man feeling half-sick, half-alive for years, suddenly to find himself restored to new happiness and vitality. How wonderful he must feel to realize at last he may be able to say good-bye to the headaches, biliousness, sluggishness, that all-in feeling, due to chronic constipation suffered through many years. But such a man was Leopold Aul and as explained in his own words, "One day when I was feeling especially bad and as nervous as a cat, I met an old friend of mine. He noticed how fagged out I looked and how rapidly I seemed to be aging. 'Why don't you take Internal Baths?' he asked, 'they did wonders for me'."

WHAT IS AN INTERNAL BATH?

Thereupon Mr. Aul began investigating Internal Baths. He found that a bonafide Internal Bath to be the administration into the lower intestine of pure warm water - Nature's greatest cleansing agent - to which is added J.B.L. Cleansing Powder. Through the use of the J.B.L. Cascade five quarts of the cleansing solution is sent gently swirling throughout the entire length of the colon. In fifteen minutes your impacted colon is thoroughly cleansed of its whole foul mass, the putrefying delayed waste is loosened and washed away. Often the relief is immense - often a new sense of vigor and well-being sweeps over you. Naturally, Mr. Aul did buy a J.B.L. Cascade. It proved a turning point in his life. Gone, according to his testimony, was the worry and distress that had hitherto overshadowed his whole life, sapped his ambition.



Read Mr. Aul's Astounding Letter

"I am now 77 years young, have owned a Cascade for over thirty years.' When I first started using the J.B.L. Cascade I was a victim of constipation and at my wits'end as to what to do about it. Tried most everything that was recommended and prescribed for me for years without results. I now feel that Internal Bathingwas responsible for bringing back my health and for keeping it ever since. I use the Cascade occasionally now but I would not part with it for \$1,000. Have sincerely recommended it to everyone suffering from the ill effects of constipation."

(Signed) Leopold Aul

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See also pages 82 and 86

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

Printed Matter.-11/2 cents for each two ounces or fraction. Limit of weight: Inquire at Post Office.

Maximum dimensions.—Inquire at local Postoffiee.

INTERNATIONAL PARCEL POST.

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

AIR MAIL: DOMESTIC AND FOREIGN

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

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

B. 8 cents: Cuba.

C. 10 cents: Central and South America, West Indles, British and French Guiana, British Honduras, Surlnam, Bermuda and Newfoundland.

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

E. 25 cents: All other localities.

Weight limit is 4 lbs., 6 oz. except: Germany, 1 oz., Philippines, 1 lb., China, French Indo China, Manchuria, 2 oz., Newfoundland and Labrador, 60 lbs.,--APO addresses, 2 oz.

The new legislation, if enacted, will raise airmail rates 1 eent per ounce, publication and bulk rates, third class, parcel post, special delivery (from 13 to 15ϕ), money orders and various other classifications in varying amounts.

CONSULT YOUR POSTMASTER FOR CONFIRMATION.

UNIFIED NATIONAL DEFENSE

Unified ed defeuse—or the of all of America's placing of all of America's armed forces under one head - came about by law passed n the closing days of the in the closing days of the 1947 Congress. Under this law, the President will be the head of a uew National Security Council which will have the say on defense policies. James V. Forrestal, former Secretary of the Navy, was appointed in July the first secretary of the new unified department. Other appointments include that of John L. Sullivan of Manchester, New Hampshire, as Secretary of the Navy Department; Kenneth C. Royall as Secretary of the Army; W. Stuart Symington as Secretary of the Air Forces. As all of these appointments were all of these appointments were made by President Truman after Congress recessed, they have to be confirmed later by that body. At some later date there will be other appoint-ments made such as Army, Air, and Navy Chiefs of Staff. directors of a Central Intelligence, Agency, national resources board, munitions board, research and develop-ment board. The 1949 Almanac will carry these appointments, but inasmuch as our patter falls earlier than press the November elections, these results will not be reported. until the 1950 edition.

FEAR

When British shlps are commissioned, the ceremony is much as it was hundreds of years ago. After prayers and hymn, the Captain reads the lesson and theu comes the bidding—the most ancient part of the ceremony.

"Bless our ship," says the Captain.

"Bless her." replies the ship's company.

"Who do you fear, sceing that God the Father is with you?" asks the Captain.

"We fear nothing," replies the ship's company, with a noticeable emphasis on the word "nothing."

Twice more the Captain asks the same question and each time the response comes clearly:

'We fear nothing.

Which reminds us of an old Irish saying; namely, that "the only man one need fear Is the man who is afraid."

A man, we have observed, usually does not tote a gun, or shoot a human being, unless he is downright scared.

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North Andover, Mass.

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

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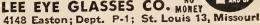
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(Continued from page 40)

days. In one year alone, that of 1891, fifty proclamations were issued—forty-four states and six territories most of them for the fourth Thursday of November, and indeed, this day had been pretty well agreed upon, until the contrariness of the late Mr. Roosevelt again divided the states. Fortunately, by action of Congress the fourth Thursday again prevails—this year on November 25th.

New Hampshire is the only state which at present observes the Pilgrim custom of an annual spring Fast Day.

GLOSSARY OF ASTRONOMICAL TERMS, ETC.

abol....abolished

Aet, ... age
An. Ecl. ... see Eclipse, Annular.
Aph. — Aphelion ... Planet revolving about Sun reaches point in its orbit farthest away from the Sun.

Apo. — Apogee . . . Moon reaches point in its orbit farthest from Earth. Appulse . . . if during eclipse Moon passes only through the penumbra.

b. -- born.

Aspect . . . description of the relative position of two or more bodies in the solar system. These are described by signs, etc., on the calendar pages thus 00%, etc. By consulting the meaning of the signs and aspects on page 4, you will arrive at the meaning for the "sign language" used on pages 15-37, viz., Conjunction (0) of Mars (0) and the Jupiter (4) occurs on this day. (See par. 2, page 4.)

Conj. - conjunction . . . moment of closest approach to each other of any

two heavenly bodies.

conscr.... consecrated.

. . died. declination (see top left hand calendar pages)... measure of angular distance any celestial object lies perpendicularly north or south of celestial equator. Exactly analogous to terrestrial latitude. OFA gives declination at time each day the Sun is due South.

Dominical Letter . . . used in reckoning civil calendars.

Eclipse . . . conjunction or opposition of sun and moon occurs with moon at or near a node.

Eclipse, annular . . . when sunlight shows around the Moon during the eclipse. Eclipse, lunar . . . opposition of Sun and Moon with moon at or near node.
Eclipse, solar . . . conjunction of Sun and Moon with Moon at or near node.
Ecliptic . . . that circle in which the plane of the orbit of the Earth about the

Sun would if extended cut the celestial sphere - or the apparent path of the Sun in the sky in a year due to the Earth's revolution about the Sun each year. - 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. Eastern Standard Time.

Feasts and Fasts... In the religious calendars, many "observable" days change each year with the date Easter falls on. The OFA endeavors to list the im-

portant Protestant, Catholic, and Jewish observances.

fd. . founded.

Full Sea (Morn and Eve) . . . the time the tide is high in the morning and in the evening at Commonwealth Pier, Boston. A correction table in the OFA also . the time the tide is high in the morning and in the adjusts this time for other places. (See page 7.)

Gr. El. . . . greatest elongation.

Geocentric . . . measure of celestial longitude and latitude when observer is at center of the Earth.

Golden Number . . . used in reckoning civil calendars.

Heliocentric . . . measure of celestial longitude and latitude when observer is at center of the Sun.

Inf. - Inferior . . . Inferior conjunction is when the Planet is between the Sun and the Earth.

Julian Period . . . First year was 4713 B.C. Its length is 7980 years.

k. . . . killed.

Key . . . columns of letters marked thus refer to correction table on page 12 so that the times given may be adjusted to localities other than Boston. at. — latitude.

Moon's Age... average time elapsing between new moons (max. 29½ 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.

(a) Last Quarter ... moon reaches opposition.
(b) Last Quarter ... moon in quadrature West.
(c) New Moon ... Sun and Moon in conjunction.
(d) Moon's Phases ... Aspects of Moon and Sun.
(e) Moon's Place ... Moon's position in the Zodiac when due South or which "sign"

it is in. See page 4 — par. 3.

Moon Rise and Set . . . as used in the OFA apply only to risings and settings between sunset and sunrise . . . or during the night.

Moon Runs High or Low . . . day of month Moon Souths highest or lowest above

the hori on. Moon Souths . . . Moon exactly above South point of observer's horizon. Node . . . when a Planet or Moon in its motion crosses the ecliptic.

Node, Ascending . . . Planet or Moon crosses ecliptic from South to North.

Node, Ascending . . . Flanet or Moon crosses ecliptic from North to North.

Node, Descending . . . Planet or Moon crosses ecliptic from North to South.

Occultations . . . eclipses of Stars by the Moon.

Opposition . . . time when Sun, and Moon or Planet appear on opposite sides of the sky (elongation 180 degrees).

O.S. — Old Style . . . was when calendar was eleven days "out of whack." In September, 1752, the 3rd was reckoned as the 14th, to make present calendar.

Penumbra . . . concentric area of partial shadow around the underse. Penumbra . . . concentric area of partial shadow around the umbra.

Peri. — Perigee . . . Moon reaches point in its orbit closest to Earth.

Peri. — Perihellon . . . Planet revolving about the Sun reaches point in its orbit closest to Sun.

Quadrature . . . Moon or Planet lies a quarter turn of the sky from the Sun. R.A. — Right Ascension . . . the measure Eastward along the celestial equator of any celestial body from the vernal equinox to the point where the circle which passes through the object perpendicular to the celestial equator inter-

sects the latter. Rain . . . drops large enough to splatter on the old man's bald head.

Rej. — rejects.

Roman Indiction . . . used in reckoning ecclesiastical calendars. Seasons . . . boundary points are the two solstices and two equinoxes.

when a cat's tracks are visible on the barn roof.

Solar Cycle . . . used in reckoning civil calendars.

Solstice, Summer . . . point at which the Sun is farthest north of the celestial equator, passing overhead on the Tropic of Cancer. Beginning of Summer. Solstice, Winter . . . limit of Sun's journey south of the celestial equator, passing overhead on the Tropic of Capricorn. Beginning of Winter.

Star, Evening . . . above horizon at Sunset. Star, Morning . . . above horizon at Sunrise.

Stat. — stationary . . . when the apparent movement of a Planet against the background of Stars stops — just before same comes to opposition.

Sunrise and Sunset . . . visible rising and setting of Sun's upper limb across the unobstructed horizon of an observer whose eyes are 15 feet above ground level. Sun Fast . . . the times given in this column must be subtracted from your Sun Dial to arrive at the correct time.

Sup. - Superior . . . Superior Conjunction is when the Sun is between the Planet and the Earth.

Tides, heights of . . . at Commonwealth Pier, Boston. See correction table on page 7 for adjustments for other places.

Twilight . . . begins or ends when stars of the sixth magnitude disappear or appear at the Zenith — or the Sun is appr. 18 degrees below the horizon.

Umbra . . . deep shadow through which the Moon passes during eclipse.

Weather Indications . . . in italies on the right hand calendar pages indicate the weather over, as a rule, three or four days time as shown by the spread of the words down the page.

Zenith...point in heavens directly over observer's head.
Zodiac...sixteen degree sky road outside of which moon and planets never wander. It is divided into twelve equal divisions called the Signs of the Zodiac, and forms much of the basis of some astrology - and superstition. See page 4 - par. 3.

LENGTH OF TWILIGHT

Subtract from time of sunrise for dawn.

Add to time of sunset for dark.

Latitude	25°N to 30°N	31°N to 36°N	37°N to 42°N	43°N to • 47°N	48°N to 49°N		
Jan. 1 to Apr. 11 Apr. 11 to May 3 May 3 to May 15 May 15 to May 26 May 26 to July 23 July 23 to Aug. 4 Aug. 4 to Aug. 15 Aug. 15 to Sept. 6 Sept. 6 to Dec. 31	h m 1 20 1 23 1 26 1 29 1 32 1 29 1 26 1 23 1 20	h m 1 26 1 28 1 34 1 38 1 43 1 38 1 34 1 28 1 26	h m 1 33 1 39 1 47 1 52 1 59 1 52 1 47 1 39 1 33	h m 1 42 1 51 2 02 2 13 2 27 2 13 2 02 1 51 1 42	h m 1 50 2 04 2 22 2 42 2 42 2 22 2 204 1 50		

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ANSWERS TO WORD CHARADES (See Page 49)

1. Olympus. 2. Quicksand. 3. Almanac. 4. August. 5. Cowslip. 6. Injury. 7. Candid. 8. Surface. 9. Alphabet. 10. Headstrong.

ANSWERS TO OLD FASHIONED PUZZLES (See Page 50)

Answers to Conundrums

1. He makes men steel pens, and says they do right.
2. Because hor son never sets.
3. Because they are regular, irregular, and defective.
4. Jonah, because the whale could not keep him down.

Against his will.

Because in winter he wears a fur coat, and in summer he wears a fur coat and pants. Thanks.

8. A fountain. 9. A ditch.

10. It never gets licked but once.

Answer to Enigma

Ксу.

Answers to Puzzles

1. XL 2. 3-8-7 10-6-2

5-4-9

3. Johnny, 7 cents Tornmy, 5 cents

Answers to Anagrams
1. Time-Einit
2. Drab-bard

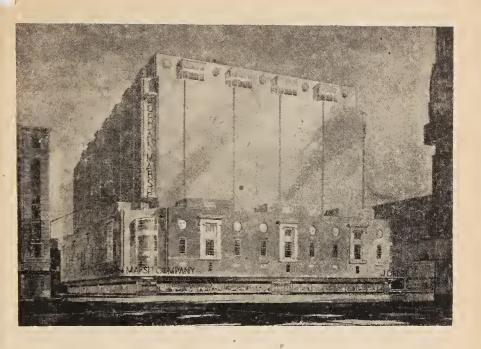
3. Sceptre-spectre
4. Salt-last

Answers to Riddles Tongue.

2. A watch, 3. To-morrow.

ANSWER TO CYPHER, Page 55, 1947 edition

Esmond ad, page 75: line 1, word 1, — Hudson's; 1, 3, wd. 1, — Biankets; 1, 19, wd. 3, follow; 1, 19, wd. 5 — fashion. No contestant solved this cypher.



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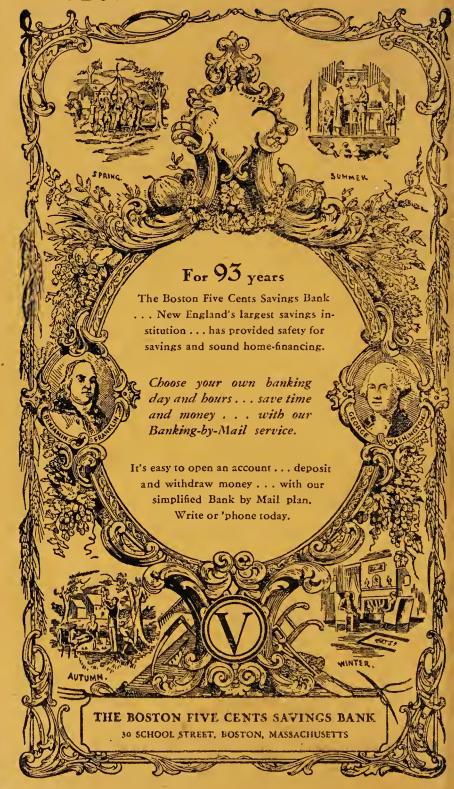
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