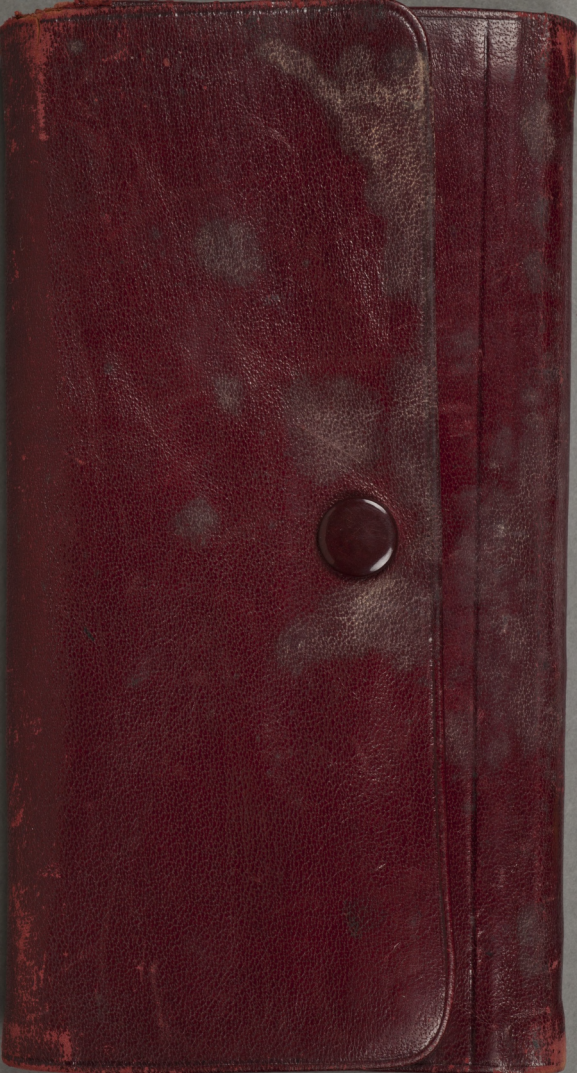
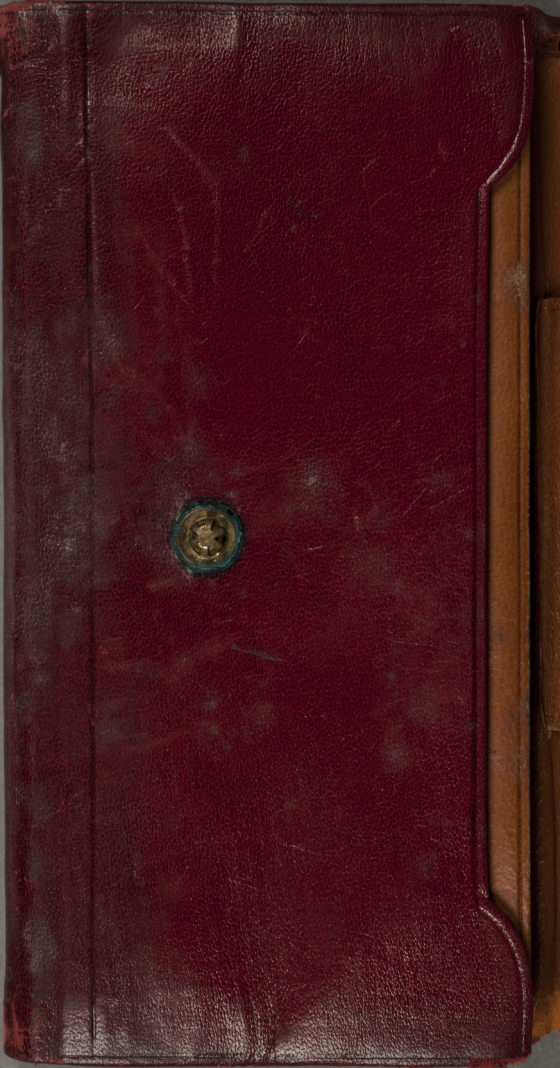


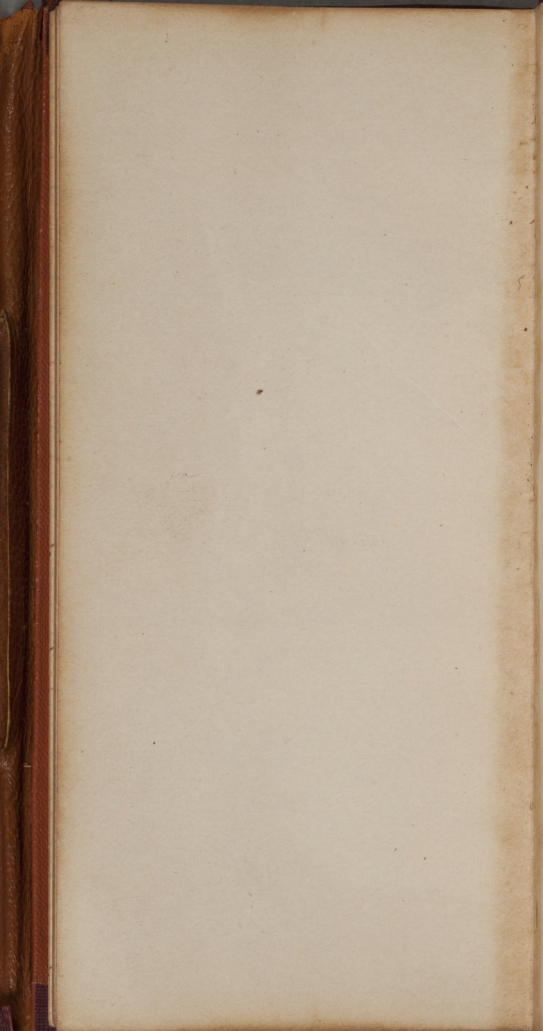


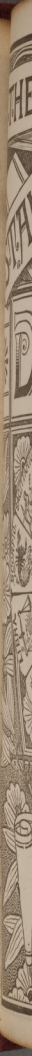




	mileage	mileage to date	yearly total mi	total cost to date	yearly cost per mi	gal gas	gas cost	gas cost per mi	mil per gal	total cost per mile to date
1916	2496		13170		.0527	238	4770	.0191	1046	.0527
1917	2884	5380	17541	30711	.0608	281	5746	.0199	1026	.0570
1918	2276	7656	18372	49083	.0807	215	4762	.0209	1102	.0641
1919	2738	10394	27886	76969	.1018	260	5843	.0213	1102	.0740
1920	3288	13682	18822	95791	.0572	301	8407	.0255	1092	.0700
1921	3292	16974	35126	130917	.1067	290	6526	.0198	1135	.0771
1922	3438	20412	26156	157073	.076	305	6996	.0203	1127	.0769







THE

STANDARD

DIARY



FOR SALE BY ALL STATIONERS

PUBLISHED BY
THE STANDARD DIARY CO.

FOR IDENTIFICATION.

My Name.....

My Residence.....

.....

My Business Address.....

.....

My Home Telephone.....

My Office Telephone.....

My Home Fire Alarm Box.....

My Office Fire Alarm Box.....

In case of accident or serious illness please notify.....

.....

.....

The make of my Automobile.....

.....

Its Number.....

Number on case of my Watch.....

Number of the works.....

Number of my Bank Book.....

Number of my Ins. Policy.....

Name of Ins. Co......

My Weight was.....*On*.....

and my Height.....*feet*.....*Inches*

Size of Hat.....*Gloves*.....

" Shirt.....*Collar*.....

" Hosiery.....*Shoes*.....

CALENDAR

1922

JUNE	MAY	APRIL	MAR.	FEB.	JAN.	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	1	2	3	4	5
6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31
1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	1	2	3	4	5
6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31
1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	1	2	3	4	5
6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31
1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	1	2	3	4	5
6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31
1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	1	2	3	4	5
6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31
1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	1	2	3	4	5
6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31
1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	1	2	3	4	5
6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31

CALENDAR

1923

[illegible]

RATES OF POSTAGE.

Official at time of printing. As changes are expected inquire at Post Office.

U. S. and Possessions, Canada, Mexico, Cuba and Shanghai.

First class (letters, etc.)	per oz.	2c
Second class (newspapers, periodicals)	4 "	1c
Third class (all circulars and miscellaneous printed matter. Miscellaneous printed matter over 4 lbs. subject to 4th class rates)	2 "	1c
Fourth class (merchandise, books, etc.)	see Parcel Post.	
Registration fee (extra postage)		10c
Special delivery (" ")		10c
Postal cards (reply cards 2c.)		1c
Local or drop letters (where no free delivery)	per oz.	1c
Postal Savings Bank (inquire at P. O.)		

MONEY ORDERS.—For sums not exceeding \$2.50, three cents; \$2.50 to \$5, five cents; \$5 to \$10, eight cents; \$10 to \$20, ten cents; \$20 to \$30, twelve cents; \$30 to \$40, fifteen cents; \$40 to \$50, eighteen cents; \$50 to \$60, twenty cents; \$60 to \$75, twenty-five cents; \$75 to \$100, thirty cents.

REFORWARDING.—Letters will be forwarded from one post office to another upon the *written* request of the *person addressed* without additional charge; but unclaimed packages *cannot be returned* unless return postage is guaranteed.

PARCEL POST, for U. S. and Possessions

(Inquire at Post Office.)

Owing to frequent changes in rates, weights, etc., we deem it impracticable to attempt to give accurate information.

Postage to Foreign Countries.

Letters for Canada, Cuba, Mexico, British Isles, Newfoundland, Republic of Panama, U. S. Postal Agency at Shanghai, China; Leeward Islands, Windward Islands, Bahamas, British Honduras, Dominican Republic, Trinidad, Dutch West Indies, Dutch St. Martins, Barbadoes, British Guiana and New Zealand.			per oz.	2c
Letters for other countries			"	5c
			each additional oz. or fraction	3c
Postal Cards (Reply cards, 4c).				2c
Newspapers and printed matter			.2 oz.,	1c
Samples merchandise			first 4 "	2c
			every additional 2 "	1c
Commercial papers			first 10 oz. or fraction	5c
			every additional 2 oz.,	1c
Registration Fee (extra postage)				10c
Reply Coupons (to prepay return letter)				6c
Parcel Post (inquire at P. O.)			per lb.	12c
Money Orders (inquire at P. O.)				

RATE OF INCOME ON STOCKS.

Purchased at following prices (par value \$100), and bearing interest at following rates.

Paid.	2%	3%	4%	5%	6%	7%	8%	10%
\$50	4 00	6 00	8 00	10 00	12 00	14 00	16 00	20 00
52½	3 81	5 71	7 62	9 52	11 43	13 33	15 24	19 04
55	3 63	5 45	7 27	9 09	10 91	12 72	14 55	18 18
57½	3 48	5 22	6 96	8 70	10 43	12 17	13 91	17 40
60	3 33	5 00	6 67	8 33	10 00	11 67	13 33	16 66
62½	3 20	4 80	6 40	8 00	9 60	11 20	12 80	16 00
65	3 08	4 62	6 15	7 69	9 23	10 77	12 31	15 38
67½	2 96	4 44	5 93	7 41	8 89	10 37	11 85	14 82
70	2 86	4 29	5 71	7 14	8 57	10 00	11 43	14 28
72½	2 76	4 14	5 52	6 90	8 27	9 65	11 03	13 80
75	2 67	4 00	5 33	6 67	8 00	9 33	10 67	13 35
77½	2 58	3 87	5 16	6 45	7 74	9 03	10 32	12 90
80	2 50	3 75	5 00	6 25	7 50	8 75	10 00	12 50
82½	2 42	3 64	4 85	6 06	7 27	8 48	9 70	12 12
85	2 35	3 53	4 71	5 88	7 06	8 24	9 41	11 76
87½	2 29	3 43	4 57	5 71	6 86	8 00	9 14	11 42
90	2 22	3 33	4 44	5 56	6 67	7 78	8 89	11 11
92½	2 16	3 24	4 32	5 41	6 49	7 57	8 65	10 82
95	2 11	3 16	4 21	5 26	6 32	7 37	8 42	10 52
97½	2 05	3 08	4 10	5 13	6 15	7 18	8 21	10 26
100	2 00	3 00	4 00	5 00	6 00	7 00	8 00	10 00
102	1 96	2 94	3 92	4 90	5 88	6 86	7 84	9 80
104	1 92	2 88	3 85	4 81	5 77	6 73	7 69	9 62
106	1 88	2 83	3 77	4 72	5 66	6 60	7 55	9 44
108	1 85	2 78	3 70	4 63	5 56	6 48	7 41	9 26
110	1 82	2 73	3 64	4 55	5 45	6 36	7 27	9 10
115	1 74	2 61	3 48	4 35	5 22	6 09	6 96	8 69
120	1 67	2 50	3 33	4 17	5 00	5 83	6 67	8 33
125	1 60	2 40	3 20	4 00	4 80	5 60	6 40	8 00
130	1 54	2 31	3 08	3 85	4 62	5 38	6 15	7 70
135	1 48	2 22	2 96	3 70	4 44	5 19	5 93	7 40
140	1 43	2 14	2 86	3 57	4 29	5 00	5 71	7 14
145	1 38	2 07	2 76	3 45	4 14	4 83	5 52	6 90
150	1 33	2 00	2 67	3 33	4 00	4 67	5 33	6 66
155	1 29	1 94	2 58	3 23	3 87	4 52	5 16	6 46
160	1 25	1 87	2 50	3 12	3 75	4 37	5 00	6 25
165	1 21	1 82	2 42	3 03	3 64	4 24	4 85	6 06
170	1 18	1 76	2 35	2 94	3 53	4 12	4 71	5 88
175	1 14	1 71	2 29	2 86	3 43	4 00	4 57	5 72
180	1 11	1 67	2 22	2 78	3 33	3 89	4 44	5 55
185	1 08	1 62	2 16	2 70	3 24	3 78	4 32	5 40
190	1 05	1 58	2 11	2 63	3 16	3 68	4 21	5 26
195	1 03	1 54	2 05	2 56	3 08	3 59	4 10	5 12
200	1 00	1 50	2 00	2 50	3 00	3 50	4 00	5 00

Example.—A 6 per cent. stock selling at 82½ yields 7.27.
Look down 6 per cent. column until opposite 82½.

Yield of a 12 per cent. stock will be double a 6 per cent. stock at the same price.

INTEREST LAWS OF ALL THE STATES. AND DAYS OF GRACE.

STATES AND TERRITORIES.	DAYS OF GRACE		RATES OF INTEREST.		STATUTES OF LIMITATIONS.			
	Notes.	Sight Drafts.	Legal.	SPECIAL OR CONTRACT.	Judgments. Years.	Notes. Years.	Open Acc'ts. Years.	
Alabama	No	No	8	8 per ct.	20	6	3	
Alaska	No	No	8	12 per ct.	10	6	6	
Arizona	No	No	6	10 per ct.	4	4	3	
Arkansas	No	No	6	10 per ct.	10	5	3	
California	No	No	7	12 per ct.	5	4	4	
Colorado	No	No	8	\$24 per ct	20	6	6	
Connecticut....	No	No	6	6 per ct.	a	b	6	
Delaware	No	No	6	6 per ct.	10	6	3	
District of Col.	No	No	6	10 per ct.	12	3	3	
Florida	No	No	8	10 per ct.	20	5	3	
Georgia	No	No	7	8 per ct.	7	6	4	
Hawaiian Isl'ds	No	No	8	12 per ct.	20	6	6	
Idaho	No	No	7	12 per ct.	6	5	4	
Illinois	No	No	5	7 per ct.	7	10	5	
Indiana	No	No	6	8 per ct.	20	10	6	
Iowa	No	No	6	8 per ct.	18†	10	5	
Kansas	No	No	6	10 per ct.	5	5	3	
Kentucky	No	No	6	6 per ct.	15	15	5	
Louisiana	No	No	5	8 per ct.	10	5	3	
Maine	No	Yes	6	No limit.	6	6	6	
Maryland	No	No	6	6 per ct.	12	3	3	
Massachusetts .	No	Yes	6	No limit.	cc	6	6	
Michigan	No	No	5	7 per ct.	10	6	6	
Minnesota	No	No	6	10 per ct.	10	6	6	
Mississippi	No	No	6	8 per ct.	7	6	3	
Missouri	No	No	6	8 per ct.	10	10	5	
Montana	No	No	2	12 per ct.	10	8	5	
Nebraska	No	No	7	10 per ct.	5	5	4	
Nevada	No	No	7	12 per ct.	6	6	4	
New Hampshire	No	Yes	6	6 per ct.	20	6	6	
New Jersey	No	No	6	6 per ct.	20	6	6	
New Mexico ...	No	No	6	12 per ct.	7	6	4	
New York	No	No	6	¶6 per ct.	20	6	6	
North Carolina	No	No	6	6 per ct.	10	3*	3	
North Dakota..	No	No	6	10 per ct.	10	6	6	
Ohio	No	No	6	8 per ct.	21	15	6	
Oklahoma	No	No	6	10 per ct.	5	5	3	
Oregon	No	No	6	10 per ct.	10	6	6	
Pennsylvania ..	No	No	6	6 per ct.	5	6†	6	
Philippine Isl's.	No	No	6	No limit.	.....	.....	.....	
Porto Rico	No	No	6	12 per ct.	5	3	3	
Rhode Island ..	No	Yes	6	No limit.	20	6	6	
South Carolina	No	No	7	8 per ct.	10	6	6	
South Dakota..	No	No	7	12 per ct.	20	6	6	
Tennessee	No	No	6	6 per ct.	10	6	6	
Texas	Yes	Yes	6	10 per ct.	10	4	2	
Utah	No	No	8	12 per ct.	8	6	4	
Vermont	No	No	6	6 per ct.	6	6	6	
Virginia	No	No	6	6 per ct.	20	5*	3	
Washington	No	No	6	12 per ct.	6	6	3	
West Virginia..	No	No	6	6 per ct.	10	10	5	
Wisconsin	No	No	6	10 per ct.	20	6	6	
Wyoming	No	No	8	12 per ct.	10	10	8	

† Any rate of interest on call loans of \$5,000 or upward, on collateral security. a No limit.
 b Negotiable notes, 6 years. c 20 years, if witnessed. * Under seal, 10 years. † Under seal, 20 years.
 ‡ In Courts of Record, 35 years. § 12 per ct. on \$500 or less, secured by chattel mortgage, etc

POPULATION OF THE UNITED STATES.

*Decrease	1920	1910
Alabama.....	2,347,295	2,138,093
Arizona.....	333,273	204,354
Arkansas.....	1,750,995	1,574,449
California.....	3,426,536	2,377,549
Colorado.....	939,376	799,024
Connecticut.....	1,380,585	1,114,756
Delaware.....	223,003	202,322
District of Columbia.....	437,571	331,069
Florida.....	966,296	752,619
Georgia.....	2,894,683	2,609,121
Idaho.....	431,826	325,594
Illinois.....	6,485,098	5,638,591
Indiana.....	2,930,544	2,700,876
Iowa.....	2,403,630	2,224,771
Kansas.....	1,769,257	1,690,949
Kentucky.....	2,416,013	2,289,905
Louisiana.....	1,797,798	1,656,388
Maine.....	768,014	742,371
Maryland.....	1,449,610	1,295,346
Massachusetts.....	3,852,356	3,366,416
Michigan.....	3,667,222	2,810,173
Minnesota.....	2,386,371	2,075,708
Mississippi.....	*1,789,384	1,797,114
Missouri.....	3,403,547	3,293,335
Montana.....	547,593	376,053
Nebraska.....	1,295,502	1,192,214
Nevada.....	*77,407	81,875
New Hampshire.....	443,083	430,572
New Jersey.....	3,155,374	2,537,167
New Mexico.....	360,247	327,301
New York.....	10,384,144	9,113,614
North Carolina.....	2,556,486	2,206,287
North Dakota.....	645,730	577,056
Ohio.....	5,759,368	4,767,121
Oklahoma.....	2,027,564	1,657,155
Oregon.....	783,389	672,765
Pennsylvania.....	8,720,159	7,665,111
Rhode Island.....	604,397	542,610
South Carolina.....	1,683,662	1,515,400
South Dakota.....	635,839	583,888
Tennessee.....	2,337,459	2,184,789
Texas.....	4,661,027	3,896,542
Utah.....	449,446	373,351
Vermont.....	*352,421	355,956
Virginia.....	2,306,361	2,061,612
Washington.....	1,356,316	1,141,990
West Virginia.....	1,463,610	1,221,119
Wisconsin.....	2,631,839	2,333,860
Wyoming.....	194,402	145,965
Total Population of U. S.	105,683,108	91,972,266
Alaska.....		64,356
Guam.....	13,275	12,240
Hawaii.....	255,912	191,909
Panama Canal Zone.....	*22,858	61,279
Philippine Islands.....	10,350,640	8,265,348
Porto Rico.....	1,299,737	1,118,012
Samoa.....	8,056	7,251
Military and Naval abroad..		55,608

POPULATION OF PRINCIPAL CITIES.

*Decrease.	1920	1910
Akron, O.	208,435	69,067
Albany, N. Y.	113,344	100,253
Allentown, Pa.	73,502	51,913
Altoona, Pa.	60,331	52,127
Atlanta, Ga.	200,616	154,839
Atlantic City, N. J.	50,682	46,150
Augusta, Ga.	52,548	41,040
Baltimore, Md.	733,826	558,485
Bay City, Mich.	47,554	45,166
Bayonne, N. J.	76,754	55,545
Berkeley, Cal.	55,886	40,434
Bethlehem, Pa.	50,358	12,837
Binghamton, N. Y.	66,800	48,443
Birmingham, Ala.	178,270	132,685
Boston, Mass.	748,060	670,585
Bridgeport, Conn.	143,538	102,054
Brockton, Mass.	66,138	56,878
Brooklyn, N. Y.	2,022,262	1,634,351
Buffalo, N. Y.	506,775	423,715
Cambridge, Mass.	109,694	104,839
Camden, N. J.	116,309	94,538
Canton, O.	87,091	50,217
Cedar Rapids, Ia.	45,566	32,811
Charleston, S. C.	67,957	58,833
Charlotte, N. C.	46,338	34,014
Chattanooga, Tenn.	57,895	44,604
Chelsea, Mass.	43,184	32,452
Chester, Pa.	58,030	38,537
Chicago, Ill.	2,701,705	2,185,283
Cicero, Ill.	44,995	14,557
Cincinnati, O.	401,247	364,463
Cleveland, O.	796,836	560,663
Columbus, O.	237,031	181,548
Covington, Ky.	57,121	53,270
Dallas, Tex.	158,976	92,104
Davenport, Ia.	56,727	43,028
Dayton, O.	152,559	116,577
Decatur, Ill.	43,818	31,140
Denver, Col.	256,369	213,381
Des Moines, Ia.	126,468	86,368
Detroit, Mich.	993,739	465,766
Duluth, Minn.	98,917	78,466
East Orange, N. J.	50,710	34,371
East St. Louis, Ill.	66,740	58,547
Elizabeth, N. J.	95,682	73,409
Elmira, N. Y.	45,305	37,176
El Paso, Tex.	77,543	39,279
Erie, Pa.	93,372	66,525
Evansville, Ind.	85,264	69,647
Fall River, Mass.	120,485	119,295
Flint, Mich.	91,599	38,550
Fort Wayne, Ind.	86,549	63,933
Fort Worth, Tex.	106,482	73,312
Fresno, Cal.	44,616	24,892
Galveston, Tex.	44,255	36,981
Gary, Ind.	55,378	16,802
Grand Rapids, Mich.	137,634	112,571

POPULATION OF PRINCIPAL CITIES—CONTINUED

	1920	1910
Harrisburg, Pa.....	75,917	64,186
Hartford, Conn.....	138,036	98,915
Haverhill, Mass.....	53,884	44,115
Hoboken, N. J.....	*68,166	70,324
Holyoke, Mass.....	60,203	57,730
Houston, Tex.....	138,076	78,800
Huntington, W. Va.....	50,177	31,161
Indianapolis, Ind.....	314,194	233,650
Jackson, Mich.....	48,374	31,433
Jacksonville, Fla.....	91,558	57,699
Jersey City, N. J.....	297,864	267,779
Johnstown, Pa.....	67,327	55,482
Kalamazoo, Mich.....	48,858	39,437
Kansas City, Kan.....	101,177	82,331
Kansas City, Mo... ..	324,410	248,381
Knoxville, Tenn.....	77,818	36,346
Lakewood, O.....	41,732	15,181
Lancaster, Pa.....	53,150	47,227
Lansing, Mich.....	57,327	31,229
Lawrence, Mass.....	94,270	85,892
Lincoln, Neb.....	54,934	43,973
Little Rock, Ark.....	64,997	45,941
Long Beach, Cal.....	55,593	17,809
Los Angeles, Cal.....	576,673	319,198
Louisville, Ky.....	234,891	223,928
Lowell, Mass.....	112,759	106,294
Lynn, Mass.....	99,148	89,336
Macon, Ga.....	52,995	40,665
Malden, Mass.....	49,103	44,404
Manchester, N. H.....	78,384	70,063
McKeesport, Pa.....	45,975	42,694
Memphis, Tenn.....	162,351	131,105
Milwaukee, Wis.....	457,147	373,857
Minneapolis, Minn.....	380,582	301,408
Mobile, Ala.....	60,151	51,521
Montgomery, Ala.....	43,464	38,136
Mount Vernon, N. Y.....	42,726	30,919
Nashville, Tenn.....	118,342	110,364
Newark, N. J.....	414,216	347,469
New Bedford, Mass.....	121,217	96,652
New Britain, Conn.....	59,316	43,916
Newcastle, Pa.....	44,938	36,280
New Haven, Conn.....	162,519	133,605
New Orleans, La.....	387,219	339,075
Newton, Mass.....	46,054	39,806
New York, N. Y.....	5,621,151	4,766,883
Niagara Falls, N. Y.....	50,760	30,445
Norfolk, Va.....	115,777	67,452
Oakland, Cal.....	216,361	150,174
Oklahoma City, Okla.....	91,258	64,205
Omaha, Neb.....	191,601	124,096
Pasadena, Cal.....	45,354	30,291
Passaic, N. J.....	63,824	54,773
Paterson, N. J.....	135,866	125,600
Pawtucket, R. I.....	64,248	51,622
Peoria, Ill.....	76,121	66,950
Perth Amboy, N. J.....	41,707	32,121
Philadelphia, Pa.....	1,823,158	1,549,008

POPULATION OF PRINCIPAL CITIES—CONTINUED

	1920	1910
Pittsburg, Pa.....	588,193	533,905
Pittsfield, Mass.....	41,751	32,121
Portland, Me.....	69,272	58,571
Portland, Ore.....	258,288	207,214
Portsmouth, Va.....	54,387	33,190
Providence, R. I.....	237,595	224,326
Pueblo, Col.....	*42,908	44,395
Quincy, Mass.....	47,876	32,642
Racine, Wis.....	58,593	38,002
Reading, Pa.....	107,784	96,071
Richmond, Va.....	171,667	127,628
Roanoke, Va.....	50,842	34,874
Rochester, N. Y.....	295,750	218,149
Rockford, Ill.....	65,651	45,401
Sacramento, Cal.....	65,857	44,696
Saginaw, Mich.....	61,903	50,510
Saint Joseph, Mo.....	77,939	77,403
Saint Louis, Mo.....	772,897	687,029
Saint Paul, Minn.....	234,595	214,744
Salem, Mass.....	*42,529	43,697
Salt Lake City, Utah.....	118,110	92,777
San Antonio, Tex.....	161,379	96,614
San Diego, Cal.....	74,683	39,578
San Francisco, Cal.....	508,410	416,912
Savannah, Ga.....	83,252	65,064
Schenectady, N. Y.....	88,723	72,826
Scranton, Pa.....	137,783	129,867
Seattle, Wash.....	315,652	237,194
Shreveport, La.....	43,874	28,015
Sioux City, Ia.....	71,227	47,828
Somerville, Mass.....	93,091	77,236
South Bend, Ind.....	70,983	53,684
Spokane, Wash.....	104,437	104,402
Springfield, Ill.....	59,183	51,678
Springfield, Mass.....	129,563	88,926
Springfield, O.....	60,840	46,921
Syracuse, N. Y.....	171,717	137,249
Tacoma, Wash.....	96,965	83,743
Tampa, Fla.....	51,252	37,782
Terre Haute, Ind.....	66,083	58,157
Toledo, O.....	243,109	168,497
Topeka, Kan.....	50,022	43,684
Trenton, N. J.....	119,289	96,815
Troy, N. Y.....	*72,013	76,813
Tulsa, Okla.....	72,075	18,182
Utica, N. Y.....	94,156	74,419
Washington, D. C.....	437,571	331,069
Waterbury, Conn.....	91,410	73,141
Wheeling, W. Va.....	54,322	41,641
Wichita, Kan.....	72,128	52,450
Wilkesbarre, Pa.....	73,833	67,105
Wilmington, Del.....	110,168	87,411
Winston-Salem, N. C.....	48,395	17,167
Woonsocket, R. I.....	43,496	38,125
Worcester, Mass.....	179,754	145,986
Yonkers, N. Y.....	100,226	79,803
York, Pa.....	47,512	44,750
Youngstown, O.....	132,358	79,066

ECLIPSES FOR THE YEAR

In the year 1922 there will be two Eclipses, both of the Sun.

I. AN ANNULAR ECLIPSE OF THE SUN, March 28. Visible to Florida, the West Indies, Central America, Europe, Western Asia, and South America and Africa with the exception of the southern portions. The path of annulus crosses the northern parts of South America and Africa.

II. A TOTAL ECLIPSE OF THE SUN, September 21. Invisible to the United States. Visible to Australia, the southern portions of Asia and the eastern part of Africa. The path of totality crosses the central part of Australia.

FESTIVALS AND FASTS.

Epiphany	Jan. 6
Septuagesima Sunday	Feb. 12
Quinquagesima — Shrove Sunday	Feb. 26
Ash Wednesday	Mar. 1
First Sunday in Lent	Mar. 5
St. Patrick	Mar. 17
Palm Sunday	April 9
Good Friday	April 14
Easter Sunday	April 16
Low Sunday	April 23
Rogation Sunday	May 21
Ascension Day—Holy Thursday	May 25
Pentecost—Whit Sunday	June 4
Trinity Sunday	June 11
Corpus Christi	June 15
St. John Baptist	June 24
Michaelmas Day	Sept. 29
St. Andrew	Nov. 30
First Sunday in Advent	Dec. 3
Christmas Day	Dec. 25

THE SEASONS.

	Eastern Standard.	Central Standard.
Vernal Equinox.....	Mar. 21, 4h. M.	Mar. 21, 3h. M.
Summer Solstice.....	June 22, 0h. M.	June 21, 11h. A.
Autumnal Equinox..	Sept. 23, 3h. A.	Sept. 23, 2h. A.
Winter Solstice.....	Dec. 22, 9h. M.	Dec. 22, 8h. M.
	Mountain Standard.	Pacific Standard.
Vernal Equinox.....	Mar. 21, 2h. M.	Mar. 21, 1h. M.
Summer Solstice.....	June 21, 10h. A.	June 21, 9h. A.
Autumnal Equinox..	Sept. 23, 1h. A.	Sept. 23, 0h. A.
Winter Solstice.....	Dec. 22, 7h. M.	Dec. 22, 6h. M.

WEIGHT PER BUSHEL OF GRAIN, ETC.

The following Table shows the number of pounds per bushel required, by law or custom, in the sale of articles specified, in the several states of the Union.

STATES.	Barley.	Buckwheat.	Coal.	Corn, shel'd	Corn Meal.	Onions.	Oats.	Potatoes.	Rye.	Wheat.	Salt.	Turnips.	Beans, wh.	Clover S'd.	Timothy.
Maine.....	48	48	..	56	50	52	30	60	..	60	..	50	64	..	..
N. Hampshire	..	..	..	56	50	..	30	60	56	60	..	..	60	..	..
Vermont.....	48	48	..	..	..	..	32	60	56	60	70	..	64	60	42
Massachusetts.	48	48	..	56	50	52	32	60	56	60	..	..	..	..	..
Connecticut...	..	45	..	56	..	..	32	60	56	56	..	..	..	..	..
New York....	48	48	..	58	..	..	32	60	56	60	..	..	62	60	44
New Jersey...	48	50	..	56	..	..	30	60	56	60	..	..	..	64	..
Pennsylvania .	47	48	..	56	..	..	30	56	56	60	85	..	..	62	..
Delaware.....	..	..	..	56	..	..	..	..	..	60	..	..	..	..	..
Maryland.....	48	48	..	56	..	57	32	60	56	60	56	..	62	64	45
Dist. Columbia	47	48	..	56	48	57	32	56	56	60	50	55	62	60	45
Virginia	48	48	..	56	50	..	32	60	56	60	..	56	60	64	45
West Virginia.	48	52	80	56	48	..	32	60	56	60	..	60	60	60	45
North Carolina	48	50	..	54	46	..	30	..	56	60	..	..	..	64	..
South Carolina	48	56	80	56	50	57	33	60	56	60	50	..	60	60	..
Georgia	40	..	80	56	48	57	35	56	..	60	56	..	..	60	45
Louisiana.....	32	..	..	56	..	..	32	..	..	60	..	..	..	..	..
Arkansas	48	52	80	56	50	57	32	60	56	60	50	..	60	60	45
Tennessee.....	48	50	..	56	50	56	32	60	56	60	..	..	60	..	45
Kentucky.....	48	52	..	56	50	57	33	56	56	60	50	..	60	60	45
Ohio	48	50	..	56	..	..	32	60	56	60	..	..	60	60	45
Michigan.....	48	48	80	56	..	54	32	60	56	60	56	58	60	60	45
Indiana.....	48	50	70	56	50	48	32	60	56	60	50	..	60	60	..
Illinois.....	48	52	..	56	48	57	32	60	56	60	50	..	60	60	..
Wisconsin	48	50	..	56	..	..	32	60	56	60	..	..	..	60	..
Minnesota.....	48	42	..	56	..	..	32	60	56	60	..	..	..	60	..
Iowa.....	48	52	..	56	..	57	33	60	56	60	50	..	60	60	45
Missouri.....	48	52	..	56	..	57	32	60	56	60	50	..	60	60	45
Kansas.....	50	50	..	56	50	57	32	60	56	60	50	55	60	..	45
Nebraska.....	48	52	..	56	50	57	34	60	56	60	50	55	60	60	45
California.....	50	40	..	52	..	..	32	..	54	60	..	..	..	..	..
Oregon.....	46	42	..	56	..	..	36	60	56	60	..	..	..	60	..

HELP! In Case of Accidents.

Drowning. 1. Turn victim face down, press on lower ribs, one hand on each side, with considerable weight, about twenty times per minute. 2. Take a deep breath and breathe it forcibly into mouth of patient. 3. Compress the chest to expel the air, and repeat the operation. 4. **DON'T GIVE UP!** People have been saved after HOURS of patient, vigorous effort. 5. When breathing begins, get patient into a warm bed, give WARM drinks or spirits in teaspoonfuls, being careful not to choke your patient if still unconscious. Patient should have fresh air and quiet.

Burns and Scalds. Cover with cooking soda and lay wet cloths over it. Whites of eggs and olive oil. Olive or linseed oil, plain or mixed with chalk or whiting.

Lightning. Dash cold water over a person struck.

Sunstroke. Loosen clothing. Get patient into shade and apply ice-cold water to head.

Mad Dog or Snake Bite. Tie cord tight above the wound. Suck the wound and cauterize with caustic or white-hot iron at once, or cut out adjoining parts with a sharp knife.

Venomous Insects' Stings, etc. Apply weak ammonia, oil, salt water or iodine.

Fainting. Lay flat with head lower than body. Loosen clothes. Give plenty of air. Keep body warm. Bathe face and hands with cold water. While unconscious, give nothing to drink. When consciousness returns, give warm drinks or a little stimulant.

Electricity. Release from current—not touching body or wire with hands, metal or a wet stick. Handle body by its clothing, with rubber gloves and shoes if possible; if not, cover hands with dry woolen cloth and stand on dry boards. Then induce artificial respiration as in a case of drowning. Rub limbs and massage body.

Fire in One's Clothing. *Don't run*—especially not down stairs or out of doors. Roll on carpet, or wrap in woolen rug, blanket or coat, whichever can be obtained the quickest. Keep the head down so as not to inhale flame.

Fire in a Building. Crawl on the floor. The clearest air is the lowest in the room. Cover head with a woolen wrap, wet if possible. Cut holes for the eyes. Don't get excited.

Fire in Kerosene. *Don't use water*, it will spread the flames. Dirt, sand or flour is the best extinguisher; or smother with woolen rug, table-cloth or carpet.

ANTIDOTES FOR POISONS.

First. Send for a Physician.

Second. INDUCE VOMITING, by tickling throat with feather or finger, drinking hot water or strong Mustard and water. Swallow Sweet Oil or whites of Eggs.

Acids are antidotes for ALKALIES, and *vice versa*.

SPECIAL POISONS AND ANTIDOTES.

Acids. MURIATIC. OXALIC. } Soap-suds, Mag-
ACETIC. SULPHURIC (Oil of Vit- nesia, Lime-water.
riol). NITRIC (Aqua Fortis).

Prussic Acid. Ammonia in water. Dash water in face.

Carbolic Acid. Flour and water, mucilaginous drinks.

Alkalies. POTASH. LYE. } Vinegar or Lemon juice in
HARTSHORN. AMMONIA. } water.

Arsenic. }
Rat Poison. } Milk, raw Eggs, Sweet Oil, Lime-
Paris Green. } water, Flour and water.

Bug Poison. }
Lead. } Whites of Eggs, or Milk
Saltpetre. } in large doses.
Corrosive Sublimate. }
Sugar of Lead. }
Blue Vitriol. }

Chloroform. } Dash cold water on head and chest.
Chloral. } Artificial respiration. Piece of ice
Ether. } in rectum.

Carbonate of Soda. } Soap-suds and mucil-
Copperas. Cobalt. } laginous drinks.

Iodine. } Starch and water. Astrin-
Antimony. } gent infusions. Strong
Tartar Emetic. } tea.

Mercury AND ITS SALTS. } Whites of Eggs. Milk.
Mucilages.

Nitrate of Silver. }
Lunar Caustic. } Salt and water.

Opium. }
Morphine. } Strong coffee, hot bath. Keep
Laudanum. } awake and moving at any
Paregoric. } cost.
Soothing Powders }
or Syrops. }

Strychnine. }
Tinct. of Nux Vomica. } Mustard and water, Sul-
phate of Zinc. Absolute
quiet. Plug the ears.

WEATHER SIGNALS.

U. S. DEPARTMENT OF AGRICULTURE.

INTERPRETATION OF SIGNALS.

No. 1.	No. 2.	No. 3.	No. 4.	No. 5.
White Flag	Blue Flag	White & Blue Flag	Bl'k Triangular Flag	White Flag Bl'k Center
				
Clear or Fair.	Rain or Snow.	Local Rain or Snow.	Temperature.	Cold Wave.

No. 1, alone, indicates fair weather, stationary temperature.

No. 2, alone, indicates rain or snow, stationary temperature.

No. 3, alone, indicates local rain or snow, stationary temperature.

No. 1, with No. 4 above it, indicates fair weather, warmer.

No. 1, with No. 4 below it, indicates fair weather, colder.

No. 2, with No. 4 above it, indicates rain or snow, warmer.

No. 2, with No. 4 below it, indicates rain or snow, colder.

No. 3, with No. 4 above it, indicates local rain or snow, warmer.

No. 3, with No. 4 below it, indicates local rain or snow, colder.

DISPLAY EXAMPLES.

Colder. Fair Weather.



Rain or Snow. Warmer.



Local Rain or Snow. Colder.



PRESIDENTS OF THE UNITED STATES.

	NAMES	Born	Inaugurated	Term of Office	Died	Native of	Residence	Party
1	GEORGE WASHINGTON.....	Feb. 22, 1732	April 30, 1789	8 years.....	Dec. 14, 1799	Virginia.	Virginia.	Fed.
2	JOHN ADAMS.....	Oct. 31, 1735	Mar. 4, 1797	4 ".....	July 4, 1826	Mass.	Mass.	"
3	THOMAS JEFFERSON.....	April 2, 1743	" 4, 1801	8 ".....	" 4, 1826	Virginia.	Virginia.	Rep.
4	JAMES MADISON.....	Mar. 16, 1751	" 4, 1809	8 ".....	June 28, 1836	"	"	"
5	JAMES MONROE.....	April 28, 1758	" 4, 1817	8 ".....	July 4, 1831	"	"	"
6	JOHN QUINCY ADAMS.....	July 11, 1767	" 4, 1825	8 ".....	Feb. 23, 1848	Mass.	Mass.	Coal.
7	ANDREW JACKSON.....	Mar. 15, 1767	" 4, 1829	8 ".....	June 8, 1845	Tennessee.	Tennessee.	Dem.
8	MARTIN VAN BUREN.....	Dec. 5, 1782	" 4, 1837	4 ".....	July 24, 1862	New York.	New York.	Whig
9	WM. H. HARRISON.....	Feb. 9, 1773	" 4, 1841	1 month.....	April 4, 1841	Ohio.	Ohio.	Dem.
10	JOHN TYLER.....	Mar. 29, 1790	April 6, 1841	3 yrs. 11 mos..	Jan. 18, 1862	Virginia.	Virginia.	Whig
11	JAMES K. POLK.....	Nov. 2, 1795	Mar. 4, 1845	4 years.....	June 15, 1849	Tennessee.	Tennessee.	Dem.
12	ZACHARY TAYLOR.....	Sept. 24, 1784	" 4, 1849	1 year 4 mos..	July 9, 1850	Louisiana.	Louisiana.	Whig
13	MILLARD FILLMORE.....	Feb. 7, 1800	July 9, 1850	2 years 8 mos..	Mar. 7, 1874	New York.	New York.	"
14	FRANKLIN PIERCE.....	Nov. 23, 1804	Mar. 4, 1853	4 years.....	Oct. 8, 1869	N. Hamp.	N. Hamp.	Dem.
15	JAMES BUCHANAN.....	April 23, 1791	" 4, 1857	4 ".....	June 1, 1868	Penn.	Penn.	Dem.
16	ABRAHAM LINCOLN.....	Feb. 12, 1809	" 4, 1861	4 yrs. 40 days.	April 15, 1865	Illinois.	Illinois.	Rep.
17	ANDREW JOHNSON.....	Dec. 29, 1808	April 15, 1865	3 yrs. 10½ mos.	July 31, 1875	N. Carolina.	Tennessee.	"
18	ULYSSES S. GRANT.....	April 27, 1822	Mar. 4, 1869	8 years.....	July 23, 1885	Ohio.	Tennessee.	"
19	RUTHERFORD B. HAYES.....	Oct. 4, 1822	" 5, 1877	4 ".....	Jan. 17, 1893	"	Illinois.	"
20	JAMES A. GARFIELD.....	Nov. 19, 1831	" 4, 1881	6½ months....	Sept. 19, 1881	"	Ohio.	"
21	CHESTER A. ARTHUR.....	Oct. 5, 1830	Sept. 20, 1881	3 yrs. 5½ mos.	Nov. 18, 1886	Vermont.	New York.	"
22	GROVER CLEVELAND.....	Mar. 18, 1837	Mar. 4, 1885	4 years.....	June 24, 1908	New Jersey.	"	Dem.
23	BENJAMIN HARRISON.....	Aug. 20, 1833	" 4, 1889	4 ".....	Mar. 13, 1901	Ohio.	Indiana.	Rep.
24	GROVER CLEVELAND.....	Mar. 18, 1837	" 4, 1893	4 ".....	June 24, 1908	New Jersey.	New York.	Dem.
25	WILLIAM MCKINLEY.....	Jan. 29, 1843	" 4, 1897	4 yrs. 6½ mos.	Sept. 14, 1901	Ohio.	Ohio.	Rep.
26	THEODORE ROOSEVELT.....	Oct. 27, 1858	Sept. 14, 1901	7 yrs. 5½ mos.	Jan. 6, 1919	New York.	New York.	"
27	WM. HOWARD TAFT.....	Sept. 15, 1857	Mar. 4, 1909	4 years.....	.....	Ohio.	Ohio.	Dem.
28	WOODROW WILSON.....	Dec. 28, 1856	Mar. 4, 1913	8 years.....	.....	Virginia.	New Jersey.	Dem.
29	WARREN G. HARDING.....	Nov. 2, 1865	Mar. 4, 1921	.....	.....	Ohio.	Ohio.	Rep.

PUBLIC HOLIDAYS

*In most States when the holiday falls on Sunday
the Monday following is observed.*

Legal Holidays in some States are observed as such only by common consent, or when appointed by the Governor, and not by legislative enactment.

- ALABAMA—Jan. 1 and 19, Feb. 22, Mardi-Gras, Good Friday, April 13 and 26, June 3, July 4, Labor Day, Fraternal Day, Thanksgiving, Dec. 25.
- ALASKA—Jan. 1, Feb. 12 and 22, March 30, May 30, July 4, Labor Day, Oct. 18, general election, Thanksgiving, Dec. 25.
- ARIZONA—Jan. 1, Feb. 14 and 22, Arbor Day, May 30, July 4, Labor Day, Oct. 12, elec. day, Thanksgiving, Dec. 25.
- ARKANSAS—Jan. 1 and 19, Feb. 22, May, 30 June 3, July 4, Labor Day, Oct. 12, elec. day, Thanksgiving, Dec. 25.
- CALIFORNIA—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Sept. 9, Oct. 12, general election, Thanksgiving, Dec. 25.
- COLORADO—Jan. 1, Feb. 12 and 22, May 30, July 4, Aug. 1, Labor Day, Oct. 12, general election, Nov. 11, Thanksgiving, Dec. 25.
- CONNECTICUT—Jan. 1, Feb. 12 and 22, Fast Day, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25.
- DELAWARE—Jan. 1, Feb. 12 and 22, Good Friday, May 30, July 4, Labor Day, Oct. 12, election day, Thanksgiving, Dec. 25.
- DISTRICT OF COLUMBIA—Jan. 1, Feb. 22, Inauguration Day, May 30, July 4, Labor Day, T'ksg'g, Dec. 25.
- FLORIDA—Jan. 1 and 19, Arbor Day, Feb. 22, Mardi-Gras, Good Friday, April 26, June 3, July 4, Labor Day, Nov. 11, general election, Thanksgiving, Dec. 25.
- GEORGIA—Jan. 1 and 19, Feb. 22, Apr. 26, June 3, July 4, Labor Day Thanksgiving, Dec. 25.
- HAWAII—Jan. 1 Feb. 22, May 30, June 11, July 4, Labor Day, Regatta Day, Election Day, Thanksgiving, Dec. 25.
- IDAHO—Jan. 1, Feb. 22, May 30, June 15, July 4, Labor Day, Oct. 12, general election, Thanksgiving, Dec. 25.
- ILLINOIS—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, election day, Thanksgiving, Dec. 25.
- INDIANA—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, gen. elec., Thanksgiving, Dec. 25.
- IOWA—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, general election, Thanksgiving, Dec. 25.
- KANSAS—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, elec. day, Oct. 12, Thanksgiving, Dec. 25.
- KENTUCKY—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, gen. elec., Thanksgiving, Dec. 25.
- LOUISIANA—Jan. 1 and 8, Feb. 22, Mardi-Gras in New Orleans, Good Friday, June 3, July 4, Labor Day, Oct. 12, Nov. 1, gen'l election, Thanksgiving, Dec. 25.
- MAINE—Jan. 1, Feb. 22, April 19, May 30, July 4, Labor Day, gen. elec., Thanksgiving, Dec. 25.
- MARYLAND—Jan. 1, Feb. 22, Good Friday, May 30, July 4, Labor Day, Sept. 12, Oct. 12, general election, Thanksgiving, Dec. 25.
- MASSACHUSETTS—Jan. 1, Feb. 22, April 19, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25.
- MICHIGAN—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, election days, Thanksgiving, Dec. 25.
- MINNESOTA—Jan. 1, Feb. 12 and 22, Good Friday, May 30, July 4, Labor Day, general election, Thanksgiving, Dec. 25.
- MISSISSIPPI—Jan. 1 and 19, Feb. 22, April 26, June 3, July 4, Labor Day, Thanksgiving, Dec. 25.

MISSOURI—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, election days, Thanksgiving, Dec. 25.

MONTANA—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, general election, Thanksgiving, Dec. 25.

NEBRASKA—Jan. 1, Feb. 12 and 22, April 22, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25.

NEVADA—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12 and 31, general election, Thanksgiving, Dec. 25.

NEW HAMPSHIRE—Jan. 1, Feb. 22, Fast Day, May 30, July 4, Labor Day, Oct. 12, gen. elec., Th'ksg'g, Dec. 25.

NEW JERSEY—Jan. 1, Feb. 12 and 22, Good Friday, May 30, July 4, Labor Day, Oct. 12, general election, Thanksgiving, Dec. 25, every Saturday P.M.

NEW MEXICO—Jan. 1, Feb. 22, May 30, July 4, Labor Day, Oct. 12, general election, Thanksgiving, Dec. 25.

NEW YORK—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, general election, Thanksgiving, Dec. 25, every Saturday P.M.

NORTH CAROLINA—Jan. 1 and 19, Feb. 22, April 12, May 20, July 4, Labor Day, Nov. 11, election day, Thanksgiving, Dec. 25.

NORTH DAKOTA—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, general election, Thanksgiving, Dec. 25.

OHIO—Jan. 1, Feb. 22, May 30, July 4, Labor Day, Oct. 12, gen. elec. 12M. to 5.30 P.M., Thanksgiving, Dec. 25.

OKLAHOMA—Jan. 1, Feb. 22, May 30, July 4, Labor Day, Oct. 12, election day, Thanksgiving, Dec. 25.

OREGON—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, gen. elec., Thanksgiving, Dec. 25.

PENNSYLVANIA—Jan. 1, Feb. 12, spring election, Feb. 22, Good Friday, May 30, July 4, Labor Day, Oct. 12, gen. elec., Th'ksg'g, Dec. 25, every Saturday P.M.

PORTO RICO—Jan. 1, Feb. 22, Mar. 22, Good Friday, May 30, July 4, July 25, Labor Day, Oct. 12, election day, Thanksgiving, Dec. 25.

RHODE ISLAND—Jan. 1, Feb. 22, Arbor Day, May 30, July 4, Labor Day, Oct. 12, general election, Thanksgiving, Dec. 25, every Saturday P.M.

SOUTH CAROLINA—Jan. 1 and 19, Feb. 22, May 10, June 3, July 4, Labor Day, gen. elec., Th'ksg'g, Dec. 25.

SOUTH DAKOTA—Jan. 1, Feb. 12 and 22, May 30, Arbor Day, July 4, Labor Day, general election, Thanksgiving, Dec. 25.

TENNESSEE—Jan. 1 and 19, Feb. 22, Good Friday, May 30, June 3, July 4, Labor Day, Nov. 11, general election, Thanksgiving, Dec. 25, every Saturday P.M.

TEXAS—Jan. 1, Feb. 22, March 2, April 21, June 3, July 4, Labor Day, Oct. 12, Nov. 11, election day, Thanksgiving, Dec. 25.

UTAH—Jan. 1, Feb. 12 and 22, April 15, May 30, July 4, July 24, Labor Day, Thanksgiving, Dec. 25.

VERMONT—Jan. 1, Feb. 22, May 30, July 4, Aug. 16, Labor Day, Oct. 12, Thanksgiving, Dec. 25.

VIRGINIA—Jan. 1 and 19, Feb. 22, May 30, July 4, Labor Day, general election, Thanksgiving, Dec. 25, every Saturday P.M.

WASHINGTON—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, general election, Thanksgiving, Dec. 25, every Saturday P.M.

WEST VIRGINIA—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, general election, Thanksgiving, Dec. 25, every Saturday P.M.

WISCONSIN—Jan. 1, Feb. 22, May 30, July 4, Labor Day, general election, Thanksgiving, Dec. 25.

WYOMING—Jan. 1, Feb. 12 and 22, Arbor Day, May 30, July 4, Labor Day, general election, Thanksgiving, Dec. 25.

HIGH TIDE.

(STANDARD TIME.)

Day of Mo.	JANUARY		FEBRUARY		MARCH	
	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.
	Morning.	Morning.	Morning.	Morning.	Morning.	Morning.
1	I II	9 57	2 I	IO 2I	0 52	9 2I
2	I 52	IO 30	2 42	IO 55	I 30	9 48
3	2 34	II 5	3 26	II 36	2 9	IO 22
4	3 I7	II 44	4 IO	0 I6	2 50	II 2
5	4 3	0 40	5 0	I II	3 34	II 49
6	4 5I	I 32	5 53	2 I5	4 23	0 22
7	5 4I	2 28	6 48	3 27	5 I7	I 25
8	6 33	3 24	7 44	4 33	6 I6	2 42
9	7 25	4 I7	8 40	5 32	7 I6	4 3
IO	8 I6	5 6	9 34	6 26	8 I5	5 IO
II	9 8	5 54	IO 28	7 I6	9 I3	6 9
12	9 58	6 4I	II 2I	8 6	IO 9	7 2
13	IO 49	7 29	.....	8 56	II 2	7 53
14	II 39	8 I7	0 4I	9 46	II 55	8 42
15	0 I2	9 6	I 3I	IO 37	0 20	9 32
16	I 2	9 57	2 25	II 33	I IO	IO 22
17	I 54	IO 5I	3 I9	0 I2	2 2	II I5
18	2 47	II 50	4 I5	I I6	2 53	.....
19	3 42	0 38	5 II	2 22	3 47	0 44
20	4 39	I 44	6 I2	3 27	4 42	I 50
21	5 38	2 50	7 IO	4 27	5 39	2 55
22	6 39	3 52	8 8	5 20	6 38	3 57
23	7 37	4 49	9 0	6 5	7 35	4 5I
24	8 33	5 40	9 47	6 47	8 28	5 39
25	9 26	6 26	IO 3I	7 25	9 I7	6 2I
26	IO I4	7 8	II I2	7 59	IO I	6 59
27	IO 57	7 48	II 52	8 29	IO 43	7 34
28	II 37	8 22	0 I4	8 56	II 24	8 4
29	0 4	8 55	.....	.....	.....	8 30
30	0 43	9 25	.....	.....	0 20	8 56
3I	I 2I	9 52	.....	.....	0 59	9 24

HIGH TIDE.

(STANDARD TIME.)

Day of Mo.	APRIL		MAY		JUNE	
	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.
	Morning.	Morning.	Morning.	Morning.	Morning.	Morning.
1	1 38	9 58	1 54	10 27	3 15	.....
2	2 20	10 38	2 41	11 17	4 10	0 24
3	3 4	11 26	3 32	.....	5 11	1 33
4	3 54	.....	4 30	0 34	6 14	2 50
5	4 50	0 54	5 29	1 46	7 15	4 4
6	5 50	2 9	6 31	3 10	8 16	5 10
7	6 51	3 34	7 34	4 25	9 14	6 9
8	7 53	4 47	8 33	5 29	10 9	7 3
9	8 52	5 49	9 31	6 26	11 0	7 54
10	9 49	6 45	10 25	7 20	11 49	8 42
11	10 44	7 37	11 18	8 10	0 3	9 30
12	11 37	8 27	.....	9 0	0 49	10 16
13	.....	9 16	0 25	9 49	1 34	11 3
14	0 47	10 5	1 13	10 38	2 20	11 50
15	1 37	10 57	2 0	11 29	3 6	.....
16	2 27	11 52	2 48	.....	3 54	0 32
17	3 18	0 13	3 38	0 31	4 43	1 20
18	4 10	1 11	4 30	1 25	5 35	2 12
19	5 5	2 14	5 22	2 23	6 28	3 10
20	6 1	3 16	6 16	3 20	7 20	4 5
21	6 56	4 12	7 9	4 12	8 12	4 58
22	7 50	5 2	8 0	5 2	9 3	5 47
23	8 41	5 47	8 50	5 47	9 51	6 33
24	9 27	6 26	9 37	6 28	10 38	7 17
25	10 12	7 3	10 23	7 6	11 24	8 2
26	10 54	7 36	11 6	7 42	.....	8 47
27	11 35	8 7	11 52	8 18	0 25	9 33
28	.....	8 37	0 3	8 56	1 13	10 22
29	0 30	9 7	0 47	9 38	2 4	11 14
30	1 10	9 44	1 33	10 24	2 58	.....
31	.....	.....	2 22	11 17	.....	.....

HIGH TIDE.

(STANDARD TIME.)

Day of Mo.	JULY		AUGUST		SEPTEMBER	
	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.
	Morning.	Morning.	Morning.	Morning.	Morning.	Morning.
1	3 55	0 20	5 37	2 24	7 20	4 23
2	4 53	1 25	6 39	3 33	8 19	5 18
3	5 56	2 36	7 41	4 37	9 11	6 8
4	6 57	3 46	8 40	5 35	9 57	6 51
5	7 58	4 52	9 33	6 29	10 39	7 32
6	8 56	5 51	10 22	7 17	11 18	8 8
7	9 51	6 46	11 6	8 0	11 57	8 43
8	10 42	7 37	11 47	8 41	0 15	9 14
9	11 29	8 24	0 0	9 19	0 54	9 43
10	.....	9 8	0 40	9 54	1 33	10 11
11	0 25	9 51	1 22	10 28	2 15	10 42
12	1 8	10 31	2 2	11 0	2 58	11 22
13	1 51	11 11	2 46	11 31	3 45	.....
14	2 33	11 50	3 30	.....	4 36	0 33
15	3 18	.....	4 19	0 15	5 31	1 36
16	4 6	0 18	5 10	1 5	6 28	2 51
17	4 55	1 2	6 5	2 7	7 26	4 5
18	5 48	1 53	6 59	3 17	8 22	5 8
19	6 40	2 54	7 55	4 29	9 16	6 5
20	7 34	4 0	8 48	5 33	10 8	6 58
21	8 27	5 5	9 42	6 29	10 59	7 49
22	9 18	6 0	10 33	7 21	11 50	8 40
23	10 7	6 53	11 24	8 12	0 18	9 33
24	10 58	7 44	.....	9 2	1 10	10 25
25	11 47	8 32	0 36	9 54	2 2	11 22
26	0 5	9 21	1 29	10 47	2 57	.....
27	0 56	10 11	2 22	11 44	3 53	0 56
28	1 46	11 4	3 17	0 6	4 52	2 1
29	2 40	.....	4 15	1 8	5 53	3 5
30	3 37	0 14	5 16	2 14	6 54	4 3
31	4 35	1 17	6 18	3 20	.....	.....

HIGH TIDE.

(STANDARD TIME.)

Day of Mo.	OCTOBER		NOVEMBER		DECEMBER	
	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.
	Morning.	Morning.	Morning.	Morning.	Morning.	Morning.
1	7 51	4 55	8 50	5 50	8 56	5 54
2	8 42	5 41	9 33	6 27	9 40	6 27
3	9 27	6 22	10 15	7 0	10 23	7 1
4	10 7	7 0	10 53	7 30	11 4	7 32
5	10 46	7 35	11 33	7 59	11 45	8 4
6	11 25	8 6	0 0	8 27	0 16	8 39
7	.....	8 34	0 40	8 59	0 59	9 18
8	0 26	9 1	1 22	9 36	1 44	10 3
9	1 6	9 30	2 6	10 20	2 30	10 53
10	1 47	10 4	2 53	11 10	3 22	11 50
11	2 30	10 45	3 43	.....	4 15	0 50
12	3 16	11 34	4 38	1 4	5 14	2 2
13	4 7	0 10	5 36	2 19	6 13	3 9
14	5 3	1 17	6 35	3 28	7 12	4 12
15	6 1	2 34	7 34	4 29	8 11	5 9
16	6 59	3 46	8 31	5 24	9 6	6 3
17	7 57	4 47	9 25	6 18	10 0	6 55
18	8 52	5 43	10 18	7 9	10 51	7 44
19	9 46	6 36	11 10	8 0	11 41	8 32
20	10 37	7 28	11 59	8 50	0 14	9 18
21	11 29	8 19	0 32	9 40	1 1	10 5
22	0 0	9 10	1 22	10 32	1 47	10 51
23	0 50	10 2	2 12	11 25	2 33	11 38
24	1 42	10 57	3 2	0 11	3 19	0 25
25	2 35	11 56	3 54	1 9	4 7	1 19
26	3 29	0 38	4 46	2 7	4 56	2 14
27	4 25	1 40	5 39	3 0	5 47	3 4
28	5 23	2 40	6 31	3 50	6 38	3 53
29	6 20	3 37	7 22	4 35	7 28	4 37
30	7 14	4 26	8 11	5 15	8 18	5 19
31	8 4	5 11	.....	.....	9 5	5 58

IMPORTANT DATES OF THE WORLD WAR.

1914

- JUNE 28—Assassination of Archduke Ferdinand and the Duchess of Hohenburg at Sarajevo, Bosnia.
- JULY 28—Austria declares war on Servia.
- JULY 28—Hostilities begin after Germany and Austria refuse England's invitation to a conference.
- JULY 31—General Russian mobilization ordered. Martial law declared in Germany. Stock markets throughout the world close their doors.
- AUG. 1—Germany declares war on Russia.
- AUG. 3—Germany declares war on France and Belgium. German troops invade Belgium.
- AUG. 3—Italy proclaims her neutrality.
- AUG. 4—England declares war on Germany.
- AUG. 6—Austria declares war on Russia.
- AUG. 9—Servia declares war on Germany.
- AUG. 11—France declares war on Austria-Hungary.
- AUG. 12—England declares war on Austria.
- AUG. 23—Japan declares war on Germany.
- AUG. 28—First naval battle off Heligoland.
- SEPT. 3—French government withdrawn from Paris to Bordeaux.
- NOV. 5—England declares war on Turkey. Servia severs relations with Turkey.

1915

- FEB. 2—Great Britain makes food contraband.
- MAY 7—Liner *Lusitania* sunk, over 1000 lives lost.
- MAY 13—President Wilson sends note on sinking of *Lusitania* to Germany.
- MAY 22—Italy declares war on Austria.
- OCT. 10—Bulgaria declares war on Servia.
- OCT. 12—Edith Cavell, English nurse, executed by Germans.
- OCT. 15—Great Britain declares war on Bulgaria.
- OCT. 16—France declares war on Bulgaria.

1916

- MAR. 8—Germany declares war on Portugal.
- APR. 1—First Zeppelin raid in England, 28 killed.
- JUNE 7—Earl Kitchener and staff drowned.
- JULY 1—Allies begin grand offensive on the Somme.
- AUG. 3—Roger Casement hanged for high treason.
- AUG. 27—Roumania declares war on Austria-Hungary.
- AUG. 27—Germany declares war on Roumania.
- OCT. 7—U-53, German submarine, arrives at Newport, R. I.
- OCT. 8—U-53 sinks five ships off Nantucket.
- DEC. 12—Germany and her allies propose peace.

1917

- FEB. 1—Germany declares U-boat blockade of Great Britain.
- FEB. 3—President Wilson severs relations with Germany.
- MAR. 6—Austrian note to United States asserts the ruthless U-boat campaign to be justified.
- APR. 4—Senate votes for war, 82 to 6.

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1917

- APR. 6—House votes for war, 373 to 50.
- APR. 6—President Wilson signs declaration of war.
- APR. 9—Austria severs relations with U. S.
- MAY 12—British smash so-called Hindenburg line.
- JUNE 5—Registration day for 10,000,000 men.
- JUNE 14—First Liberty Loan of \$2,000,000,000 announced oversubscribed.
- JUNE 27—First American troops arrive at St. Nazaire, France.
- JULY 10—President Wilson calls National Guard into Federal service.
- JULY 13—Formal call for 687,000 men in first draft.
- JULY 20—Drafting takes place in Washington.
- AUG. 15—American troops, marching through London, are given tremendous ovation.
- OCT. 1—Second Liberty Loan of \$3,000,000,000 begins.
- OCT. 26—American troops enter battle line and shell German positions.
- NOV. 5—Italians begin general retreat on Trentino and Tagliamento fronts.
- NOV. 8—Premier Kerensky deposed in Russia and Bolsheviks seize control of government.
- DEC. 28—American government takes charge of all railroads.

1918

- JAN. 31—Strikes in Germany assume nation-wide proportions; great war plants affected.
 - FEB. 6—Bonar Law announces U-boats have caused death of 14,120 British non-combatants.
 - MAR. 21—Great German drive against British begins over 50-mile front, from Arras to St. Quentin.
 - MAR. 28—General Foch named as generalissimo of Entente forces.
 - APR. 6—Third Liberty Loan.
 - APR. 23—Naval squadrons raid Zeebrugge and Ostend, blocking U-boat channel.
 - MAY 2—Secretary of War Baker asks Congress for power to raise unlimited number of troops.
 - JUNE 3—U-boats raid New Jersey coast.
 - JUNE 4—American troops aid in hurling back Germans in Chateau Thierry region.
 - JUNE 7—Lights out in New York because of U-boat raids.
 - AUG. 15—American troops arrive in Vladivostock.
 - AUG. 23—British start extensive drive on the Somme.
 - AUG. 24—Third draft, men 21 years since June 5.
 - SEPT. 7—Germany and Austria officially propose armistice.
 - SEPT. 12—Fourth draft, 18 to 45 years.
 - SEPT. 28—Fourth Liberty Loan.
 - OCT. 31—Turkey unconditionally surrenders.
 - NOV. 9—Kaiser and Crown Prince abdicate. Revolution in Germany.
 - NOV. 11—Armistice signed and hostilities cease.
- Length of war 1,567 days.

1919

- APR. 21—Fifth Victory Liberty Loan.
- JUNE 28—Germany signs peace terms.

 In this Almanac the risings and settings of the Sun and Moon are given in local mean time, as heretofore. The Tides are given in Standard Time. Light face figures indicate A. M. time, heavy face P. M. time.

The Calendars for the Latitude of Boston and Chicago

May be used for Central and Southern New England, Central New York, Southern Michigan, Southern Wisconsin, Northern Iowa, Northern Nebraska, South Dakota, and Wyoming.

The Calendars for the Latitude of New York and Philadelphia

May be used for Southern New York, New Jersey, Pennsylvania, Northern Ohio, Northern Indiana, Northern Illinois, Southern Iowa, and Southern Nebraska.

The Calendars for the Latitude of Washington, Cincinnati, etc.

May be used for Delaware, Maryland, the Virginias, Southern Ohio, Southern Indiana, Southern Illinois, Kentucky, Missouri, Kansas, and Colorado.

THE SIZE OF THE SEAS.

	Miles long.
Mediterranean	2,000
Caribbean	1,800
Red	1,400
Black	932
Baltic	600

AREA OF OCEANS IN SQUARE MILES.

Pacific	70,000,000
Atlantic	35,000,000
Indian	23,000,000
Southern	7,000,000
Arctic	4,000,000

SIZE OF THE GREAT LAKES.

	Miles long.	Miles wide.
Superior	380	120
Michigan	330	60
Ontario	170	40
Champlain	123	12
Erie	270	50
Huron	250	90
Winnipeg	240	40
Athabaska	200	20



MOON'S PHASES.
(In Standard Time.)

EAST'N DIVISION

CENT. DIVISION.

FIRST QUARTER..	6d. 5h. 24m. M.	6d. 4h. 24m. M.
FULL MOON	13d. 9h. 36m. M.	13d. 8h. 36m. M.
LAST QUARTER ..	20d. 1h. 0m. M.	20d. 0h. 0m. M.
NEW MOON.....	27d. 6h. 48m. A.	27d. 5h. 48m. A.

**LATITUDE OF BOSTON
AND CHICAGO.**

**LAT. OF NEW YORK
AND PHILA.**

**LAT. OF WASH.
CIN. & ST. LOUIS**

Day.	Day of W'k.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.
1	S	r7 30	8 16	r7 24	8 18	r7 19	8 21
2	Mo.	s4 39	9 13	s4 44	9 14	s4 49	9 17
3	Tu.	r7 30	10 10	r7 25	10 11	r7 19	10 12
4	We.	s4 40	11 7	s4 45	11 7	s4 51	11 8
5	Th.	r7 30	morn	r7 25	morn	r7 19	morn
6	Fr.	s4 42	0 5	s4 47	0 4	s4 52	0 4
7	Sa.	r7 30	1 4	r7 25	1 2	r7 19	1 1
8	S	s4 44	2 4	s4 49	2 1	s4 54	2 0
9	Mo.	r7 29	3 6	r7 25	3 3	r7 19	3 0
10	Tu.	s4 46	4 9	s4 51	4 5	s4 56	4 2
11	We.	r7 29	5 11	r7 24	5 7	r7 19	5 4
12	Th.	s4 48	6 9	s4 53	6 5	s4 58	6 2
13	Fr.	r7 28	rises	r7 24	rises	r7 18	rises
14	Sa.	s4 50	6 36	s4 55	6 39	s5 0	6 43
15	S	r7 28	7 49	r7 23	7 51	r7 18	7 54
16	Mo.	s4 53	9 2	s4 58	9 3	s5 2	9 5
17	Tu.	r7 27	10 13	r7 22	10 13	r7 17	10 14
18	We.	s5 55	11 23	s5 0	11 22	s5 5	11 22
19	Th.	r7 25	morn	r7 21	morn	r7 16	morn
20	Fr.	s4 58	0 31	s5 2	0 29	s5 7	0 28
21	Sa.	r7 24	1 36	r7 20	1 33	r7 15	1 31
22	S	s5 0	2 38	s5 4	2 34	s5 9	2 32
23	Mo.	r7 23	3 37	r7 19	3 33	r7 14	3 30
24	Tu.	s5 3	4 31	s5 7	4 27	s5 11	4 24
25	We.	r7 21	5 20	r7 17	5 16	r7 13	5 13
26	Th.	s5 5	6 3	s5 9	5 59	s5 13	5 56
27	Fr.	r7 20	sets	r7 16	sets	r7 12	sets
28	Sa.	s5 8	6 8	s5 12	6 10	s5 16	6 14
29	S	r7 18	7 4	r7 14	7 6	r7 10	7 8
30	Mo.	s5 10	8 1	s5 14	8 2	s5 18	8 4
31	Tu.	r7 17	8 58	r7 12	8 58	r7 8	8 59

February 1922

PISCES.

MOON'S PHASES. (In Standard Time.)

FIRST QUARTER..
FULL MOON.....
LAST QUARTER..
NEW MOON.....

EAST'N DIVISION

4d. 11h. 52m. A.
11d. 8h. 17m. A.
18d. 1h. 18m. A.
26d. 1h. 48m. A.

CENT: DIVISION

4d. 10h. 52m. A.
11d. 7h. 17m. A.
18d. oh. 18m. A.
26d. oh. 48m. A.

LATITUDE OF BOSTON AND CHICAGO.

LAT. OF NEW YORK AND PHILA.

LAT. OF WASH. GIN. & ST. LOUIS

Day.	Day of W'k.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.
1	We.	r7 15	9 55	r7 11	9 54	r7 8	9 55
2	Th.	s5 14	10 53	s5 18	10 51	s5 22	10 51
3	Fr.	r7 13	11 52	r7 10	11 50	r7 6	11 48
4	Sa.	s5 17	morn	s5 20	morn	s5 24	morn
5	S	r7 11	0 51	r7 7	0 48	r7 4	0 46
6	Mo.	s5 19	1 51	s5 23	1 47	s5 26	1 45
7	Tu.	r7 9	2 52	r7 5	2 48	r7 2	2 45
8	We.	s5 22	3 51	s5 25	3 47	s5 28	3 44
9	Th.	r7 6	4 46	r7 3	4 42	r7 0	4 39
10	Fr.	s5 25	5 37	s5 28	5 33	s5 31	5 31
11	Sa.	r7 4	rises	r7 1	rises	r6 58	rises
12	S	s5 27	6 36	s5 30	6 37	s5 33	6 40
13	Mo.	r7 1	7 51	r6 58	7 51	r6 55	7 53
14	Tu.	s5 30	9 4	s5 32	9 3	s5 35	9 4
15	We.	r6 58	10 15	r6 56	10 13	r6 53	10 13
16	Th.	s5 32	11 24	s5 35	11 21	s5 38	11 20
17	Fr.	r6 56	morn	r6 53	morn	r6 50	morn
18	Sa.	s5 35	0 30	s5 37	0 27	s5 40	0 24
19	S	r6 53	1 31	r6 50	1 27	r6 48	1 24
20	Mo.	s5 37	2 27	s5 40	2 23	s5 42	2 20
21	Tu.	r6 50	3 17	r6 48	3 13	r6 45	3 10
22	We.	s5 40	4 2	s5 42	3 58	s5 44	3 55
23	Th.	r6 47	4 42	r6 45	4 38	r6 43	4 36
24	Fr.	s5 43	5 19	s5 45	5 16	s5 46	5 14
25	Sa.	r6 44	5 53	r6 42	5 51	r6 40	5 49
26	S	s5 45	sets	s5 47	sets	s5 49	sets
27	Mo.	r6 41	6 52	r6 39	6 52	r6 37	6 54
28	Tu.	s5 47	7 48	s5 49	7 48	s5 51	7 48
..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..



MOON'S PHASES.
(In Standard Time.)

EAST'N DIVISION

CENT. DIVISION.

FIRST QUARTER ..	6d. 2h. 22m. A.	6d. 1h. 22m. A.
FULL MOON.....	13d. 6h. 14m. M.	13d. 5h. 14m. M.
LAST QUARTER ..	20d. 3h. 43m. M.	20d. 2h. 43m. M.
NEW MOON.....	28d. 8h. 3m. M.	28d. 7h. 3m. M.

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AND CHICAGO.**

**LAT. OF NEW YORK
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**LAT. OF WASH.
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Day.	Day of W'k.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.
1	We.	r6 38	8 45	r6 36	8 44	r6 34	8 43
2	Th.	s5 50	9 43	s5 51	9 41	s5 53	9 40
3	Fr.	r6 34	10 42	r6 33	10 39	r6 31	10 37
4	Sa.	s5 52	11 41	s5 54	11 38	s5 55	11 35
5	S	r6 31	morn	r6 30	morn	r6 29	morn
6	Mo.	s5 55	0 40	s5 56	0 36	s5 57	0 33
7	Tu.	r6 28	1 37	r6 27	1 33	r6 26	1 30
8	We.	s5 57	2 32	s5 58	2 28	s5 59	2 25
9	Th.	r6 24	3 24	r6 24	3 20	r6 23	3 18
10	Fr.	s5 59	4 11	s6 0	4 8	s6 1	4 6
11	Sa.	r6 21	4 55	r6 20	4 53	r6 20	4 51
12	S	s6 2	5 35	s6 2	5 34	s6 3	5 33
13	Mo.	r6 18	rises	r6 17	rises	r6 16	rises
14	Tu.	s6 4	7 51	s6 5	7 50	s6 5	7 50
15	We.	r6 14	9 4	r6 14	9 2	r6 13	9 1
16	Th.	s6 6	10 13	s6 7	10 10	s6 7	10 8
17	Fr.	r6 11	11 18	r6 11	11 14	r6 10	11 12
18	Sa.	s6 9	morn	s6 9	morn	s6 9	morn
19	S	r6 7	0 18	r6 7	0 14	r6 7	0 11
20	Mo.	s6 11	1 12	s6 11	1 8	s6 11	1 5
21	Tu.	r6 4	2 0	r6 4	1 56	r6 4	1 53
22	We.	s6 13	2 42	s6 13	2 38	s6 13	2 36
23	Th.	r6 0	3 20	r6 1	3 17	r6 1	3 15
24	Fr.	s6 15	3 54	s6 15	3 51	s6 15	3 50
25	Sa.	r5 57	4 25	r5 57	4 23	r5 58	4 22
26	S	s6 18	4 54	s6 17	4 53	s6 17	4 53
27	Mo.	r5 53	5 23	r5 54	5 23	r5 54	5 23
28	Tu.	s6 20	sets	s6 19	sets	s6 19	sets
29	We.	r5 50	7 38	r5 51	7 36	r5 51	7 35
30	Th.	s6 22	8 37	s6 21	8 35	s6 20	8 33
31	Fr.	r5 46	9 36	r5 47	9 33	r5 48	9 31



MOON'S PHASES.
(In Standard Time.)

	EAST'N DIVISION		CENT. DIVISION.	
FIRST QUARTER...	5d.	oh. 46m. M.	4d. 11h. 46m. A.	
FULL MOON.....	11d.	3h. 44m. A.	11d. 2h. 44m. A.	
LAST QUARTER..	18d.	7h. 54m. A.	18d. 6h. 54m. A.	
NEW MOON.....	27d.	oh. 4m. M.	26d. 11h. 4m. A.	

**LATITUDE OF BOSTON
AND CHICAGO.**

**LAT. OF NEW YORK
AND PHILA.**

**LAT. OF WASH.
CIN. & ST. LOUIS**

Day.	Day of W'k.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.
1	Sa.	r5 45	10 34	r5 45	10 30	r5 47	10 28
2	S	s6 26	11 31	s6 24	11 27	s6 23	11 24
3	Mo.	r5 41	morn	r5 42	morn	r5 44	morn
4	Tu.	s6 28	0 25	s6 27	0 21	s6 25	0 18
5	We.	r5 38	1 17	r5 39	1 13	r5 40	1 10
6	Th	s6 30	2 5	s6 29	2 2	s6 27	1 59
7	Fr.	r5 34	2 48	r5 36	2 45	r5 37	2 44
8	Sa.	s6 32	3 28	s6 31	3 26	s6 29	3 25
9	S	r5 31	4 6	r5 32	4 5	r5 34	4 5
10	Mo.	s6 34	4 43	s6 33	4 43	s6 31	4 44
11	Tu.	r5 28	rises	r5 29	rises	r5 31	rises
12	We.	s6 37	7 49	s6 35	7 46	s6 33	7 45
13	Th.	r5 24	8 58	r5 26	8 55	r5 28	8 52
14	Fr.	s6 39	10 2	s6 37	9 58	s6 35	9 55
15	Sa.	r5 21	11 1	r5 23	10 57	r5 25	10 54
16	S	s6 41	11 54	s6 39	11 50	s6 37	11 47
17	Mo.	r5 18	morn	r5 20	morn	r5 22	morn
18	Tu.	s6 44	0 39	s6 41	0 35	s6 39	0 32
19	We.	r5 15	1 18	r5 17	1 15	r5 19	1 12
20	Th.	s6 46	1 54	s6 43	1 51	s6 41	1 49
21	Fr.	r5 12	2 27	r5 14	2 25	r5 17	2 24
22	Sa.	s6 48	2 57	s6 45	2 56	s6 43	2 55
23	S	r5 8	3 26	r5 11	3 26	r5 14	3 26
24	Mo.	s6 50	3 55	s6 47	3 55	s6 44	3 56
25	Tu.	r5 5	4 23	r5 8	4 24	r5 11	4 26
26	We.	s6 52	sets	s6 49	sets	s6 46	sets
27	Th.	r5 2	7 28	r5 5	7 25	r5 9	7 23
28	Fr.	s6 54	8 29	s6 51	8 25	s6 48	8 23
29	Sa.	r5 0	9 28	r5 3	9 24	r5 6	9 22
30	S	s6 57	10 23	s6 53	10 19	s6 50	10 16



MOON'S PHASES.
(In Standard Time.)

EAST'N DIVISION

CENT. DIVISION.

FIRST QUARTER...	4d.	7h.	56m.	M.	4d.	6h.	56m.	M.
FULL MOON	11d.	1h.	6m.	M.	11d.	0h.	6m.	M.
LAST QUARTER ..	18d.	1h.	17m.	A.	18d.	0h.	17m.	A.
NEW MOON.....	26d.	1h.	4m.	A.	26d.	0h.	4m.	A.

**LATITUDE OF BOSTON
AND CHICAGO.**

**LAT. OF NEW YORK
AND PHILA.**

**LAT. OF WASH.
CIN. & ST. LOUIS**

Day.	Day of W'k.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.
1	Mo.	r4 57	11 15	r5 0	11 11	r5 4	11 8
2	Tu.	s6 59	morn	s6 55	11 59	s6 52	11 57
3	We.	r4 54	0 3	r4 58	morn	r5 1	morn
4	Th.	s7 1	0 47	s6 58	0 44	s6 54	0 42
5	Fr.	r4 51	1 27	r4 55	1 25	r4 59	1 24
6	Sa.	s7 3	2 4	s7 0	2 3	s6 56	2 2
7	S	r4 49	2 39	r4 53	2 39	r4 57	2 39
8	Mo.	s7 6	3 15	s7 2	3 16	s6 58	3 17
9	Tu.	r4 46	3 52	r4 50	3 54	r4 54	3 56
10	We.	s7 8	4 31	s7 4	4 34	s7 0	4 37
11	Th.	r4 44	rises	r4 48	rises	r4 52	rises
12	Fr.	s7 10	8 45	s7 6	8 41	s7 1	8 38
13	Sa.	r4 42	9 41	r4 46	9 37	r4 50	9 34
14	S	s7 12	10 32	s7 8	10 28	s7 3	10 25
15	Mo.	r4 40	11 16	r4 44	11 12	r4 48	11 10
16	Tu.	s7 14	11 54	s7 10	11 51	s7 5	11 49
17	We.	r4 38	morn	r4 42	morn	r4 47	morn
18	Th.	s7 16	0 27	s7 12	0 25	s7 7	0 23
19	Fr.	r4 36	0 58	r4 40	0 56	r4 45	0 56
20	Sa.	s7 18	1 27	s7 14	1 26	s7 9	1 26
21	S	r4 34	1 55	r4 38	1 55	r4 43	1 56
22	Mo.	s7 20	2 24	s7 15	2 25	s7 10	2 27
23	Tu.	r4 32	2 54	r4 37	2 56	r4 42	2 58
24	We.	s7 22	3 26	s7 17	3 28	s7 12	3 32
25	Th.	r4 30	4 2	r4 35	4 5	r4 41	4 9
26	Fr.	s7 24	sets	s7 19	sets	s7 14	sets
27	Sa.	r4 29	8 17	r4 34	8 13	r4 39	8 10
28	S	s7 26	9 12	s7 21	9 8	s7 15	9 5
29	Mo.	r4 28	10 3	r4 33	9 59	r4 38	9 56
30	Tu.	s7 27	10 48	s7 22	10 45	s7 17	10 42
31	We.	r4 27	11 29	r4 32	11 26	r4 37	11 25



MOON'S PHASES.
(In Standard Time.)

EAST'N DIVISION

CENT. DIVISION.

FIRST QUARTER ..	2d. 1h. 10m. A.	2d. 0h. 10m. A.
FULL MOON.....	9d. 10h. 58m. M.	9d. 9h. 58m. M.
LAST QUARTER ..	17d. 7h. 3m. M.	17d. 6h. 3m. M.
NEW MOON.....	24d. 11h. 20m. A.	24d. 10h. 20m. A.

**LATITUDE OF BOSTON
AND CHICAGO.**

**LAT. OF NEW YORK
AND PHILA.**

**LAT. OF WASH.
CIN. & ST. LOUIS**

Day.	Day of W'k.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.
1	Th.	r4 26	morn	r4 31	morn	r4 37	morn
2	Fr.	s7 30	0 7	s7 24	0 5	s7 19	0 5
3	Sa.	r4 25	0 42	r4 30	0 41	r4 36	0 42
4	S	s7 31	1 16	s7 26	1 16	s7 20	1 18
5	Mo.	r4 24	1 51	r4 30	1 52	r4 35	1 55
6	Tu.	s7 33	2 28	s7 27	2 30	s7 22	2 33
7	We.	r4 24	3 7	r4 29	3 10	r4 35	3 14
8	Th.	s7 34	3 51	s7 28	3 55	s7 23	3 59
9	Fr.	r4 23	rises	r4 29	rises	r4 34	rises
10	Sa.	s7 35	8 22	s7 30	8 18	s7 24	8 15
11	S	r4 22	9 9	r4 28	9 5	r4 34	9 2
12	Mo.	s7 36	9 50	s7 31	9 47	s7 25	9 44
13	Tu.	r4 22	10 27	r4 28	10 24	r4 34	10 23
14	We.	s7 37	11 0	s7 32	10 58	s7 26	10 57
15	Th.	r4 22	11 30	r4 28	11 29	r4 34	11 28
16	Fr.	s7 38	11 58	s7 32	11 58	s7 27	11 58
17	Sa.	r4 22	morn	r4 28	morn	r4 34	morn
18	S	s7 39	0 26	s7 33	0 26	s7 27	0 28
19	Mo.	r4 22	0 55	r4 28	0 56	r4 34	0 58
20	Tu.	s7 39	1 25	s7 34	1 27	s7 28	1 30
21	We.	r4 23	1 58	r4 28	2 1	r4 34	2 4
22	Th.	s7 40	2 35	s7 34	2 39	s7 28	2 43
23	Fr.	r4 23	3 19	r4 29	3 23	r4 35	3 28
24	Sa.	s7 40	sets	s7 35	sets	s7 29	sets
25	S	r4 24	7 57	r4 29	7 53	r4 35	7 50
26	Mo.	s7 40	8 44	s7 35	8 40	s7 29	8 38
27	Tu.	r4 24	9 28	r4 30	9 25	r4 36	9 23
28	We.	s7 40	10 8	s7 35	10 6	s7 29	10 5
29	Th.	r4 25	10 45	r4 31	10 44	r4 36	10 44
30	Fr.	s7 40	11 20	s7 35	11 20	s7 29	11 21



MOON'S PHASES.
(In Standard Time.)

EAST'N DIVISION

CENT. DIVISION.

FIRST QUARTER ..	1d. 5h. 52m. A.	1d. 4h. 52m. A.
FULL MOON.....	8d. 10h. 7m. A.	8d. 9h. 7m. A.
LAST QUARTER ..	17d. 0h. 11m. M.	16d. 11h. 11m. A.
NEW MOON.....	24d. 7h. 47m. M.	24d. 6h. 47m. M.
FIRST QUARTER ..	30d. 11h. 22m. A.	30d. 10h. 22m. A.

**LATITUDE OF BOSTON
AND CHICAGO.**

**LAT. OF NEW YORK
AND PHILA.**

**LAT. OF WASH.
CIN. & ST. LOUIS**

Day.	Day of W'k.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.
1	Sa.	r4 26	11 54	r4 32	11 55	r4 37	11 57
2	S	s7 40	morn	s7 35	morn	s7 29	morn
3	Mo.	r4 27	0 29	r4 33	0 31	r4 38	0 34
4	Tu.	s7 40	1 7	s7 34	1 10	s7 29	1 13
5	We.	r4 28	1 48	r4 34	1 52	r4 39	1 56
6	Th.	s7 39	2 33	s7 34	2 37	s7 28	2 42
7	Fr.	r4 29	3 22	r4 35	3 26	r4 40	3 31
8	Sa. *	s7 39	rises	s7 33	rises	s7 28	rises
9	S	r4 31	7 46	r4 37	7 42	r4 42	7 40
10	Mo.	s7 38	8 25	s7 33	8 22	s7 27	8 20
11	Tu.	r4 32	8 59	r4 38	8 57	r4 43	8 55
12	We.	s7 37	9 31	s7 32	9 29	s7 26	9 29
13	Th.	r4 33	10 1	r4 39	10 0	r4 44	10 00
14	Fr.	s7 36	10 29	s7 31	10 29	s7 26	10 30
15	Sa.	r4 35	10 57	r4 40	10 58	r4 46	11 0
16	S	s7 35	11 25	s7 30	11 27	s7 24	11 29
17	Mo.	r4 37	11 56	r4 42	11 58	r4 47	morn
18	Tu.	s7 34	morn	s7 29	morn	s7 23	0 2
19	We.	r4 38	0 31	r4 43	0 34	r4 49	0 38
20	Th.	s7 32	1 11	s7 27	1 15	s7 22	1 19
21	Fr.	r4 40	1 57	r4 45	2 1	r4 50	2 6
22	Sa.	s7 30	2 49	s7 26	2 53	s7 21	2 58
23	S	r4 42	3 48	r4 47	3 52	r4 52	3 57
24	Mo.	s7 29	sets	s7 24	sets	s7 19	sets
25	Tu.	r4 44	8 5	r4 49	8 3	r4 53	8 1
26	We.	s7 27	8 44	s7 22	8 43	s7 18	8 42
27	Th.	r4 46	9 20	r4 50	9 20	r4 55	9 20
28	Fr.	s7 25	9 56	s7 21	9 57	s7 16	9 58
29	Sa.	r4 48	10 32	r4 52	10 34	r4 57	10 36
30	S	s7 23	11 9	s7 19	11 12	s7 14	11 15
31	Mo.	r4 50	11 49	r4 54	11 52	r4 59	11 56



MOON'S PHASES.
(In Standard Time.)

EAST'N DIVISION

CENT. DIVISION.

FULL MOON	7d. 11h. 19m. M.	7d. 10h. 19m. M.
LAST QUARTER ..	15d. 3h. 46m. A.	15d. 2h. 46m. A.
NEW MOON.....	22d. 3h. 34m. A.	22d. 2h. 34m. A.
FIRST QUARTER..	29d. 6h. 55m. M.	29d. 5h. 55m. M.

**LATITUDE OF BOSTON
AND CHICAGO.**

**LAT. OF NEW YORK
AND PHILA.**

**LAT. OF WASH.
CIN. & ST. LOUIS**

Day.	Day of W'k.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.
1	Tu.	r4 51	morn	r4 55	morn	r5 0	morn
2	We.	s7 20	0 32	s7 16	0 36	s7 11	0 40
3	Th.	r4 53	1 19	r4 57	1 23	r5 1	1 28
4	Fr.	s7 17	2 10	s7 13	2 14	s7 9	2 19
5	Sa.	r4 55	3 3	r4 59	3 7	r5 3	3 12
6	S	s7 15	3 59	s7 11	4 3	s7 7	4 7
7	Mo.	r4 57	rises	r5 1	rises	r5 5	rises
8	Tu.	s7 12	7 33	s7 9	7 31	s7 5	7 30
9	We.	r4 59	8 2	r5 3	8 1	r5 6	8 1
10	Th.	s7 10	8 31	s7 6	8 31	s7 2	8 31
11	Fr.	r5 1	8 59	r5 5	8 59	r5 8	9 1
12	Sa.	s7 7	9 28	s7 4	9 29	s7 0	9 32
13	S	r5 3	9 57	r5 7	9 59	r5 10	10 2
14	Mo	s7 4	10 29	s7 1	10 32	s6 57	10 35
15	Tu.	r5 5	11 6	r5 9	11 9	r5 12	11 14
16	We.	s7 1	11 48	s6 58	11 52	s6 55	11 57
17	Th.	r5 8	morn	r5 11	morn	r5 14	morn
18	Fr.	s6 58	0 36	s6 55	0 40	s6 52	0 45
19	Sa.	r5 10	1 30	r5 13	1 34	r5 16	1 39
20	S	s6 55	2 32	s6 52	2 36	s6 50	2 41
21	Mo.	r5 12	3 41	r5 15	3 44	r5 17	3 48
22	Tu.	s6 52	sets	s6 50	sets	s6 47	sets
23	We.	r5 14	7 18	r5 17	7 17	r5 19	7 17
24	Th.	s6 49	7 54	s6 47	7 54	s6 44	7 55
25	Fr.	r5 16	8 31	r5 19	8 32	r5 21	8 34
26	Sa.	s6 46	9 9	s6 43	9 11	s6 41	9 14
27	S	r5 18	9 49	r5 21	9 52	r5 23	9 56
28	Mo.	s6 43	10 31	s6 40	10 35	s6 39	10 39
29	Tu.	r5 20	11 17	r5 23	11 21	r5 25	11 26
30	We.	s6 39	morn	s6 37	morn	s6 35	morn
31	Th.	r5 22	0 7	r5 24	0 11	r5 27	0 16



MOON'S PHASES.
(In Standard Time.)

FULL MOON.....	6d. 2h. 47m. M.	6d. 1h. 47m. M.
LAST QUARTER ..	14d. 5h. 20m. M.	14d. 4h. 20m. M.
NEW MOON.....	20d. 11h. 38m. A.	20d. 10h. 38m. A.
FIRST QUARTER ..	27d. 5h. 40m. A.	27d. 4h. 40m. A.

EAST'N DIVISION

CENT. DIVISION.

**LATITUDE OF BOSTON
AND CHICAGO.**

**LAT. OF NEW YORK
AND PHILA.**

**LAT. OF WASH.
CIN. & ST. LOUIS**

Day.	Day of W'k.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.
1	Fr.	r5 23	1 0	r5 25	1 4	r5 28	1 9
2	Sa.	s6 34	1 54	s6 32	1 58	s6 31	2 2
3	S	r5 26	2 51	r5 27	2 54	r5 29	2 58
4	Mo.	s6 31	3 49	s6 29	3 51	s6 27	3 55
5	Tu	r5 28	4 46	r5 29	4 48	r5 31	4 51
6	We.	s6 28	rises	s6 26	rises	s6 24	rises
7	Th.	r5 30	7 2	r5 31	7 2	r5 33	7 3
8	Fr.	s6 24	7 30	s6 23	7 31	s6 21	7 33
9	Sa.	r5 32	8 0	r5 33	8 2	r5 35	8 4
10	S	s6 21	8 32	s6 19	8 34	s6 18	8 38
11	Mo.	r5 34	9 6	r5 35	9 9	r5 37	9 13
12	Tu.	s6 17	9 44	s6 16	9 48	s6 15	9 52
13	We.	r5 36	10 28	r5 37	10 32	r5 38	10 37
14	Th.	s6 14	11 19	s6 13	11 23	s6 12	11 28
15	Fr.	r5 38	morn	r5 39	morn	r5 40	morn
16	Sa.	s6 10	0 16	s6 9	0 20	s6 9	0 25
17	S	r5 40	1 19	r5 41	1 23	r5 42	1 27
18	Mo.	s6 7	2 27	s6 6	2 30	s6 6	2 34
19	Tu.	r5 43	3 39	r5 43	3 41	r5 44	3 44
20	We.	s6 3	4 53	s6 3	4 54	s6 2	4 56
21	Th.	r5 45	sets	r5 45	sets	r5 45	sets
22	Fr.	s6 0	7 2	s5 59	7 4	s5 59	7 6
23	Sa.	r5 47	7 43	r5 47	7 46	r5 47	7 49
24	S	s5 56	8 26	s5 56	8 29	s5 56	8 34
25	Mo.	r5 49	9 12	r5 49	9 16	r5 49	9 21
26	Tu.	s5 52	10 2	s5 53	10 6	s5 53	10 11
27	We.	r5 51	10 55	r5 51	10 59	r5 51	11 4
28	Th.	s5 49	11 50	s5 49	11 54	s5 49	11 59
29	Fr.	r5 53	morn	r5 53	morn	r5 53	morn
30	Sa.	s5 45	0 46	s5 46	0 49	s5 46	0 54

October 1922

MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION		CENT. DIVISION	
FULL MOON	5d.	7h. 58m. A.	5d.	6h. 58m. A.
LAST QUARTER ..	13d.	4h. 55m. A.	13d.	3h. 55m. A.
NEW MOON	20d.	8h. 40m. M.	20d.	7h. 40m. M.
FIRST QUARTER ..	27d.	8h. 26m. M.	27d.	7h. 26m. M.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.		LAT. OF WASH. CIN. & ST. LOUIS	
Day.	Day of W'k.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.
1	S	r5 56	1 43	r5 55	1 46	r5 54	1 50
2	Mo.	s5 42	2 40	s5 42	2 42	s5 43	2 45
3	Tu.	r5 58	3 37	r5 57	3 38	r5 56	3 41
4	We.	s5 38	4 34	s5 39	4 35	s5 40	4 36
5	Th.	r6 0	5 31	r5 59	5 31	r5 58	5 31
6	Fr.	s5 35	rises	s5 36	rises	s5 37	rises
7	Sa.	r6 2	6 34	r6 1	6 36	r6 0	6 40
8	S	s5 32	7 7	s5 33	7 10	s5 34	7 14
9	Mo.	r6 4	7 44	r6 3	7 47	r6 2	7 52
10	Tu.	s5 28	8 26	s5 29	8 30	s5 31	8 35
11	We.	r6 7	9 13	r6 6	9 17	r6 4	9 22
12	Th.	s5 25	10 6	s5 26	10 10	s5 28	10 15
13	Fr.	r6 9	11 6	r6 8	11 10	r6 6	11 14
14	Sa.	s5 22	morn	s5 23	morn	s5 25	morn
15	S	r6 12	0 10	r6 10	0 13	r6 8	0 17
16	Mo.	s5 18	1 17	s5 20	1 20	s5 22	1 23
17	Tu.	r6 14	2 28	r6 12	2 30	r6 10	2 32
18	We.	s5 15	3 41	s5 17	3 41	s5 19	3 43
19	Th.	r6 16	4 55	r6 14	4 54	r6 12	4 55
20	Fr.	s5 12	sets	s5 14	sets	s5 16	sets
21	Sa.	r6 18	6 15	r6 16	6 18	r6 14	6 22
22	S	s5 9	7 1	s5 11	7 5	s5 14	7 9
23	Mo.	r6 21	7 50	r6 19	7 54	r6 16	7 59
24	Tu.	s5 6	8 43	s5 8	8 47	s5 11	8 52
25	We.	r6 23	9 39	r6 21	9 43	r6 18	9 48
26	Th.	s5 3	10 37	s5 6	10 41	s5 8	10 45
27	Fr.	r6 26	11 35	r6 23	11 38	r6 21	11 42
28	Sa.	s5 0	morn	s5 3	morn	s5 6	morn
29	S	r6 28	0 32	r6 25	0 35	r6 23	0 38
30	Mo.	s4 58	1 30	s5 0	1 32	s5 3	1 34
31	Tu.	r6 31	2 27	r6 28	2 28	r6 25	2 30



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION			CENT: DIVISION.		
FULL MOON.....	4d.	1h.	36m. A.	4d.	oh.	36m. A.
LAST QUARTER ..	12d.	2h.	52m. M.	12d.	1h.	52m. M.
NEW MOON.....	18d.	7h.	6m. A.	18d.	6h.	6m. A.
FIRST QUARTER ..	26d.	3h.	15m. M.	26d.	2h.	15m. M.

LATITUDE OF BOSTON AND CHICAGO.			LAT. OF NEW YORK AND PHILA.			LAT. OF WASH. GIN. & ST. LOUIS		
Day.	Day of W'k	Local Mean Time.		Local Mean Time.		Local Mean Time.		
		SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.	
1	We.	r6 32	3 24	r6 29	3 24	r6 26	3 25	
2	Th.	s4 54	4 20	s4 57	4 19	s5 0	4 19	
3	Fr.	r6 34	5 17	r6 31	5 15	r6 28	5 15	
4	Sa.	s4 51	rises	s4 54	rises	s4 58	rises	
5	S	r6 37	5 44	r6 34	5 47	r6 30	5 52	
6	Mo.	s4 49	6 24	s4 52	6 28	s4 55	6 33	
7	Tu.	r6 40	7 10	r6 36	7 14	r6 33	7 19	
8	We.	s4 46	8 2	s4 50	8 6	s4 53	8 11	
9	Th.	r6 42	8 59	r6 38	9 3	r6 35	9 8	
10	Fr.	s4 44	10 0	s4 48	10 3	s4 51	10 8	
11	Sa.	r6 45	11 4	r6 41	11 7	r6 37	11 10	
12	S	s4 42	morn	s4 46	morn	s4 50	morn	
13	Mo.	r6 47	0 11	r6 43	0 13	r6 39	0 16	
14	Tu.	s4 40	1 21	s4 44	1 22	s4 48	1 24	
15	We.	r6 50	2 33	r6 46	2 33	r6 42	2 34	
16	Th.	s4 39	3 45	s4 42	3 44	s4 46	3 44	
17	Fr.	r6 52	4 57	r6 48	4 55	r6 44	4 54	
18	Sa.	s4 37	6 10	s4 41	6 7	s4 45	6 5	
19	S	r6 55	sets	r6 50	sets	r6 46	sets	
20	Mo.	s4 35	6 28	s4 39	6 32	s4 44	6 37	
21	Tu.	r6 57	7 24	r6 53	7 28	r6 48	7 33	
22	We.	s4 34	8 22	s4 38	8 26	s4 43	8 31	
23	Th.	r6 59	9 21	r6 55	9 24	r6 50	9 29	
24	Fr.	s4 32	10 21	s4 37	10 23	s4 42	10 27	
25	Sa.	r7 2	11 19	r6 57	11 21	r6 52	11 24	
26	S	s4 31	morn	s4 36	morn	s4 41	morn	
27	Mo.	r7 4	0 16	r6 59	0 17	r6 55	0 20	
28	Tu.	s4 30	1 14	s4 35	1 14	s4 40	1 16	
29	We.	r7 6	2 11	r7 1	2 11	r6 57	2 11	
30	Th.	s4 29	3 9	s4 35	3 8	s4 39	3 7	

December 1922

CAPRICORNUS.

MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION			CENT. DIVISION.		
FULL MOON	4d.	6h.	24m. M.	4d.	5h.	24m. M.
LAST QUARTER ..	11d.	11h.	41m. M.	11d.	10h.	41m. M.
NEW MOON	18d.	7h.	20m. M.	18d.	6h.	20m. M.
FIRST QUARTER ..	26d.	0h.	53m. M.	25d.	11h.	53m. A.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.		LAT. OF WASH. GIN. & ST. LOUIS	
Day.	Day of W'k.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.	SUN R. & S.	MOON R. & S.
1	Fr.	r7 8	4 6	r7 3	4 4	r6 58	4 3
2	Sa.	s4 29	5 3	s4 34	5 0	s4 39	4 59
3	S	r7 10	6 2	r7 5	5 58	r7 0	5 56
4	Mo.	s4 28	rises	s4 33	rises	s4 38	rises
5	Tu.	r7 13	5 56	r7 7	6 0	r7 2	6 5
6	We.	s4 28	6 52	s4 33	6 56	s4 38	7 1
7	Th.	r7 15	7 52	r7 9	7 56	r7 4	8 0
8	Fr.	s4 28	8 56	s4 33	8 59	s4 38	9 3
9	Sa.	r7 17	10 3	r7 11	10 5	r7 6	10 8
10	S	s4 28	11 11	s4 33	11 12	s4 38	11 14
11	Mo.	r7 18	morn	r7 13	morn	r7 8	morn
12	Tu.	s4 28	0 19	s4 33	0 19	s4 38	0 21
13	We.	r7 20	1 29	r7 15	1 28	r7 9	1 29
14	Th.	s4 28	2 39	s4 33	2 37	s4 39	2 37
15	Fr.	r7 22	3 49	r7 16	3 47	r7 11	3 45
16	Sa.	s4 29	4 58	s4 34	4 55	s4 39	4 52
17	S	r7 23	6 5	r7 18	6 1	r7 12	5 58
18	Mo.	s4 29	sets	s4 34	sets	s4 40	sets
19	Tu.	r7 24	6 5	r7 19	6 9	r7 14	6 14
20	We.	s4 30	7 5	s4 35	7 9	s4 41	7 13
21	Th.	r7 26	8 6	r7 20	8 9	r7 15	8 13
22	Fr.	s4 31	9 6	s4 36	9 8	s4 42	9 12
23	Sa.	r7 27	10 5	r7 21	10 6	r7 16	10 9
24	S	s4 32	11 2	s4 37	11 3	s4 43	11 4
25	Mo.	r7 27	11 59	r7 22	11 59	r7 17	morn
26	Tu.	s4 33	morn	s4 38	morn	s4 44	0 0
27	We.	r7 28	0 56	r7 23	0 55	r7 17	0 55
28	Th.	s4 34	1 53	s4 40	1 51	s4 45	1 51
29	Fr.	r7 29	2 51	r7 24	2 48	r7 18	2 47
30	Sa.	s4 36	3 49	s4 41	3 46	s4 47	3 44
31	S	r7 29	4 47	r7 24	4 43	r7 19	4 41

Ther

SUN. JAN. 1, 1922

Wea

Ther

MONDAY 2

Wea

2

Ther

TUESDAY 3

Wea

Ther

WED. JAN. 4, 1922

Wea

Blizzard all day

White Breasted Nuthatch
Downy Woodpecker

Ther

THURSDAY 5

Wea

10 below

Clear

Hairy Woodpecker
Chickadee

Ther Zero

FRIDAY 6

Wea

Clear

2 Blue Jays

Ther

SAT. JAN. 7, 1922

Wea

Ther

35

SUNDAY 8

Wea

Clear

Ground covered with snow

Tramped through woods

Saw 1 Flicker

15 Tree Sparrows

15 Juncos

2 Hairy Woodpeckers

6 White or Nuthatches

3 Crows

10 Chickadees

Ther

MONDAY 9

Wea

Ther TUES. JAN. 10, 1922 Wea

Ther WEDNESDAY 11 Wea

One pair Downy Woodpecker
One pair White Br Nuthatches
One pair Chickadees

Ther THURSDAY 12 Wea

Ther

FRI. JAN. 13, 1922

Wea

Ther

SATURDAY 14

Wea

Ther

SUNDAY 15

Wea

clear

Chickadees assume control of our food shelter and drive off White breasted Nuthatches, Hairy Woodpeckers, Brown Creepers and English Sparrows. Saw the Downy Woodpecker today also

Ther

MON. JAN. 16, 1922

Wea

Ther

TUESDAY 17

Wea

Ther

WEDNESDAY 18

Wea

20

Cloudy

Chickadees
Downy Woodpecker
Nuthatches
Brown Creeper

Ther THURS., JAN. 19, 1922 Wea
10 below Clear

Chicadees
Blue Jays
✓ Brown Creeper
Nuthatches
Downy Woodpecker

Ther FRIDAY 20 Wea

Ther SATURDAY 21 Wea

Ther

SUN. JAN. 22, 1922

Wea

Ther

MONDAY 23

Wea

10 *fulow*

Clear

2 Downy Woodpeckers

2 Blue Jays

2 White Breasted Nuthatches

2 Chickadees

Ther

TUESDAY 24

Wea

Ther

WED. JAN. 25, 1922

Wea

Ther

THURSDAY 26

Wea

Ther

FRIDAY 27

Wea

Ther

SAT. JAN. 28, 1922

Wea

Ther

SUNDAY 29

Wea

Ther

MONDAY 30

Wea

Ther TUES. JAN. 31, 1922 Wea

Ther WEDNESDAY, FEB. 1 Wea

Ther THURSDAY 2 Wea

Ther

FRI. FEB. 3, 1922

Wea

Ther

SATURDAY 4

Wea

GE Bark reported
that he saw a flock
of ducks going north

Ther

35

SUNDAY 5

Wea

Cloudy

Brown Creeper
Chicadees
Downy Woodpecker

Ther

MON. FEB. 6, 1922

Wea

Chicadees
Nuthatches - W. B.

Chicadee chasing the
Nuthatches away from
nuts in food shelter

Ther

TUESDAY 7

Wea

Blue Jays
Chicadees

Ther

WEDNESDAY 8

Wea

35

Clear

Brown Creeper
Downy Woodpecker
Tree Sparrow

Ther

THURS. FEB. 9, 1922

Wea

Ther

FRIDAY 10

Wea

Ther

SATURDAY 11

Wea

Ther

SUN. FEB. 12, 1922

Wea

Very few birds have
visited our feeding
station this winter.

We presume it is on
account of the open
winter. No snow and
plenty of feed elsewhere.
We have not seen a single
Junco there this winter.

Ther

MONDAY 13

Wea

Ther

TUESDAY 14

Wea

4 Blue Jays together

Ther

WED. FEB. 15, 1922

Wea

Ther

THURSDAY 16

Wea

Ther

FRIDAY 17

Wea

Weather so warm that
I sat on the porch
and settled the sale
at L W Christoffersons
to day which is very
unusual for Feb.

Ther SAT. FEB. 18, 1922

Wea
warm

Chicadees

Downy Woodpecker

Weather spring like
no snow and
roads are fine

Ther

SUNDAY 19

Wea

warm

Drove to Ledges this P. M.
1 Horned Lark on road
5 Juncos, 1 Downy Woodpecker
2 White Breasted Nuthatches
about 50 Crows, 8 or 10
Chicadees, 3 Cardinals

3 female Redpolls?

3

Ther

MONDAY 20

Wea

Ther TUES. FEB. 21, 1922 Wea

Ther WEDNESDAY 22 Wea

Very Warm
Meadow Larks singing
this morning in the rain
Weather very unusual.
Very warm and springlike
Violent thunderstorm this
morning so that one
of our fuel plugs flew
out and our motor was
also burned out

Ther THURSDAY 23 Wea

A drop of about 50 degrees
in temperature since
yesterday. High wind

Downy Woodpecker
Hairy Woodpecker
Blue Jay

Ther

FRI FEB. 24, 1922

Wea

Ther

SATURDAY 25

Wea

Harry Woodpecker

Ther

30 to 40 SUNDAY 26

Wea

cloudy

Very light snow this eve
Between 9 and 10 P.M.

I listened to many bird
notes evidently by birds
in migration but could
not distinguish what
they were. All were alike.
Some fog this eve and
weather fairly freezing.
Downy - Harry Woodpeckers

Ther MON. FEB. 27, 1922 Wea

Ther TUESDAY 28 Wea

Ther WEDNESDAY, MAR. 1 Wea

Clear
Light snow fell last night
Drove to Boone this a.m.
Saw Horned Larks on road

Blue Jay - Chickadees

Ther THURS. MAR. 2, 1922 Wea

4 Horned Larks on road
Blue Jay

Ther 40 FRIDAY 3

Wea clear

Brown Creeper
Blue Jay
Downy Woodpecker
Meadowlark
Horned Lark

Ther SATURDAY 4

Wea

Ther

SUN. MAR. 5, 1922

Wea

Weather warm & Clear

Robin - first one

Bluebird - first one

6 Horned Larks

Crows

Chicadee

Ther

MONDAY 6

Wea

Snow and much colder

Ther

TUESDAY 7

Wea

Ther

WED. MAR. 8, 1922

Wea

Robin

Ther

THURSDAY 9

Wea

30 to 40

Cloudy

Went to his Momies with
Frank Partin in his car
saw flock of 27 ducks
going northwest
1 Bluebird
3 Meadowlarks
Chickadee
Robin

Ther

FRIDAY 10

Wea

Ther

SAT. MAR. 11, 1922

Wea

Warm

Robins plentiful

Ther

SUNDAY 12

Wea

Warm and windy
Drove to the river.

Pair of Horned Larks

2 Bluebirds

plenty of Crows

meadowlark - Robins.

Pussywillows out.

Huge cakes of ice

floating down the river

Ther

MONDAY 13

Wea

Flock of 6 Juncos near the
house singing sweetly.About 12 Prairie Chickens
flew over town about 7.30

this morning going north.

Saw first Kildeer

Red Wing Black Berds going north

Ther TUES. MAR. 14, 1922 Wea

4 Blue Jays together

Ther WEDNESDAY 15 Wea

Robins plentiful
3 Bluebirds
Blackbirds flying
Chicadee

7:

Ther THURSDAY 16 Wea

Several flocks of
robins from 12 to
25 in each flock

Ther

FRI. MAR. 17, 1922

Wea

Bronzed Grackle

about 25 robins in
one flock

Ther

SATURDAY 18

Wea

Cloudy and misty this forenoon
At noon there was such a lot
of sweet singing and twittering
in the trees near home
went to investigate, and
found it to be all juncos
The air was fairly filled
with their sweet music
There must have been
25 or 30 of them. Rain all P.M.

Ther

SUNDAY 19

Wea

Blizzard from daybreak
until about 2 P.M.
Flock of about 15 or 20
juncos eating on the
ground. One pair of
tree sparrows were
with them.

Ther MON. MAR. 20, 1922 Wea

Flock of about 20 Juncos

Downy Woodpecker
Chicadee

Ther TUESDAY 21 Wea

Flock of about 20 Juncos

Snow melting

Started shooting
sparrows. Got 2 today

Ther WEDNESDAY 22 Wea

Blue Birds

Snow all gone. Wind South
Flock of Juncos still here
singing sweetly

Plenty of robins, Grackles
& meadowlarks. Discovered
the roosting place of the flock
of Juncos to be up in C.E.
Johnsons cedar trees this eve.
about 25 were in there

Ther THURS. MAR 23, 1922 Wea

First Flicker to give rain call
Last night was clear and
star bright and during
the night Freda and I
were both awakened by
the loud honking of
the wild geese flying
north

Ther

FRIDAY 24

Wea

Rain this evening
with thunder and
lightning

Ther

SATURDAY 25

Wea

Colder - north wind Cloudy

Brown Creeper

Blue jays

Junco

Plenty of robins

Large flocks of Grackles

Ther SUN. MAR. 26, 1922 Wea
Cool east wind Clear
Drove to woods both a.m. & p.m.
1 Hermit Lark - 1 Sparrow Hawk
1 Blue Heron - 1 Kingfisher
5 or 6 Hermit Thrush. Flicker
W.B. Nuthatch - 1 Cardinal
many Bluebirds. Flock of Red
wing Blackbirds. Chickadees
50 to 100 Juncos singing sweetly
Meadow Larks, Grackles, Blue jays

Ther MONDAY 27 Wea

Started to get misty this
morning and about 11:30
the wild geese were
honking again.
Saw 17 kinds of birds
yesterday

Ther TUESDAY 28 Wea

Colder
Turned colder during last
night and a slight trace
of snow fell.
Wind northwest and freezing
Downy Woodpecker
Hairy "
Chickadee - W.B. Nuthatch
30 or 40 Juncos in trees
near home all singing
sweetly

Ther

WED. MAR. 29, 1922

Wea

Snow storm this afternoon
Ground covered with
about an inch this eve

Downy and Hairy Woodpeckers
Robins - Meadowlarks

Ther

THURSDAY 30

Wea

The wet snow which
came yesterday froze
to a coating of ice
during the night

Ther

FRIDAY 31

Wea

Cloudy

Snow all melted.
Juncos - Robins
Meadowlarks

Ther

SAT. APRIL 1, 1922

Wea

Mourning dove

Ther

SUNDAY 2

Wea

Sick all day

Ther

MONDAY 3

Wea

Still sick

Ther TUES. APRIL 4 1922 Wea

Recovering from the
flu and unable to
go out

Ther WEDNESDAY 5 Wea

Still at home and
while watching the birds
through the window I
saw Grackles gathering
nesting materials.

Robins are not at it yet

Very foggy this evening

Ther THURSDAY 6 Wea

warm

Cloudy this morning
but early this forenoon
it cleared up and
and it was unusually
warm and humid
until about 5:30 when
it came a thundercloud
and it rained a little.
Grackles started to build in
Crosman's arbutus vitae

Ther FRI. APRIL 7, 1922 Wea Cooler

Saw first shrike this
we while on our way
to Boone to hear the
lecture of Chas B Hutchins
on Why birds sing.

It was illustrated by
crayon drawings and by
whistling bird songs and
was excellent

Ther SATURDAY 8 Wea

Started raining this
afternoon and continued
raining until late in
the night. Rain was
accompanied by wind

Ther SUNDAY 9 Wea Cooler north wind

First chipping sparrow
Towhee and Kinglets. Could
not see which kind they were
Song Sparrow, Cardinal,
Snail, Horned Lark, Blue Jay
Mourning Dove, Chickadee, James
Shrike, Flicker, Hairy and
Downy Woodpeckers, Blue Birds
Grackles, Crow, Meadow Lark
Robin, English Sparrow

Ther MON. APRIL 10, 1922 Wea

Chas B Hutchins bird
lecture at High school
assembly this eve.
Heavy rain but the
receipts were 40.25
anyway 1/3 of which went
to the Super Class
2 pr Kinglets - Golden

Ther TUESDAY 11 Wea
colder

Snow fell during the night
Hutchins and I saw the
Ruby Crown Kinglet this
morning also some Lincoln
sparrows with a large
flock of juncos
1 Kinglet - Ruby

Ther WEDNESDAY 12 Wea

Froze 1/2 in ice last night
Watched a fine pair of
Golden Crown Kinglets
working in Mrs Crossmans
arbor vitae this morning

Rain and had this eve
after supper

Ther THURS. APRIL 13, 1922 Wea

Cool

Cloudy

Spent the day in Dr. Monro
going down on the
Interurban. Saw an
unusual number of
Flickers and literally
thousands of blackbirds
and Grackles

Ther

FRIDAY 14

Wea

Saw 8 Cowbirds this
morning. Robins are now
building nests. One pair
of Chipping Sparrows are
singing around our house

Ther

SATURDAY 15

Wea

With Hitchins at Lidger - Clear
3 Cardinals - 3 Towhees - 6 Fox Sparrows
1 Field Sparrow - 1 Song Sparrow - Eng. Spar.
1 Barred Owl - 1 Horned Owl - Crows
3 Golden Crown Kinglets - 2 Juncos - 3 Flickers
2 Hairy Woodpeckers - 1 Wood Pewee
Robins, Grackles - Chickadees - 6 Blue birds
6 Blue Jays - 1 Red Tail Hawk
1 Eastern Meadow Lark
1 Yellow Throat Vireo
A great day 10 a.m. to 5 p.m.

Ther SUN. APRIL 16, 1922 Wea

Warm this forenoon but suddenly changed to cool north wind. This 4 PM funeral of J. R. Swain this afternoon so I was not out to observe. Saw one Ruby Crown Kinglet in our birch tree at noon.

Ther

MONDAY 17

Wea

Cloudy

Cold

Brown Creeper and Chipping Sparrow both working the same box alder tree this eve close together.

Ther

TUESDAY 18

Wea

Cloudy & Windy

1 Ruby Crowned Kinglet
1 Sparrow Hawk

It froze quite thick ice last night

Ther WED. APRIL 19, 1922 Wea

Extremely windy last night
and today. Broke glass
in front door & window
Drove to Gilroy's this eve
and saw a young horned
owl he had captured

1 Ruby Crown Kinglet, 2 Towhees
3 Mourning Doves, 2 Chickadees
Plenty of Robins and Grackles

Ther THURSDAY 20 Wea

Warmer

Clear

Drove to Boone this forenoon
Saw one Horned Lark (?)
in the road

Saw one Ruby Crown Kinglet
at home also the two
first Purple Martins of the
season at Boone and a
pair of large hawks in a
tree in the woods

Ther FRIDAY 21 Wea

Ther SAT. APRIL 22, 1922 Wea
Clear Warm
First Chimney Swifts today
saw 8 of them so they
must have all come
at once. Watched a female
Ruby Crown Knight in our
apple tree today. Junior
reports he found a Robin's
nest with 3 eggs in it

Ther SUNDAY 23 Wea
Cool-Cloudy Windy
Broken bridge and North Bridge
This afternoon 2 Sawankees
6 White Throat Sparrows. Eng Spar
1 Red Head Woodpecker. Robins
2 Hermit Thrush. 3 Hair Woodpecker
Chicadees, Crows, Meadowlarks
50 Red Wing Blackbirds 1 Junco
6 Bluebirds 2 Shrikes. 1 Nighthawk
1 Barred Owl. 1 Titmouse. Grackles
Mourning Dove. 1 RC Knight, Blue Jay

Ther MONDAY 24 Wea
Rainy

Ther TUES. APRIL 25, 1922 Wea

House cleaning and
gardening

Ther WEDNESDAY 26 Wea

One Kinglet

Housecleaning.

Ther THURSDAY 27 Wea

Cold East Wind
Heard first Brown Thrasher
at noon I had the rare
fortune to hear the very
beautiful song of the
Kinglet. I could not see
which kind it was but
its song was like a
combination of the Wren
and Goldfinch. It was fine
and the first in my experience

Ther

FRI. APRIL 28, 1922

Wea

Ther

SATURDAY 29

Wea

^{Ther} ~~Myself~~ and I ^{drove to} SUNDAY 30 ^{Wea}
 Beaver Bayou 6 A.M. Cool & windy
 Magnolia Warbler. Thrasher. Blue Jay
 Quail. Eastern & Western Meadowlarks
 Wilsons Snipe. 3 Cots. Cowbirds
 Grackles. Red Wing Blackbirds
 Bluebirds. 1 Ruby Crown Knight
 W.B. Nuthatch. Chickadee. Flicker
 Red Head Woodpecker. Crows
 Brown Thrasher, Robins
 Song Sparrows. Mourning Dove
 2 Waders and some sparrows?

Ther

MON. MAY 1, 1922

Wea

Cool

cloudy

Just when arrived this morning and started in at once to clean out the old nest in the box in the cherry tree by the east kitchen window. ~~He~~ seemed to be alone as we did not see more than one at a time.

Ther

TUESDAY 2

Wea

Ther

WEDNESDAY 3

Wea

afternoon to Bosholm
Ther THURS. MAY 4, 1922 Wea

5 a.m. Swans timber pasture

Robins - Crows - Bluebirds - Red Wing BB
Thrasher - Western Meadowlark
Mourning Dove - Towhee - Cowbird
Ground Sarks - Cowbird - Blue Jay
Field Sparrow - Song Sparrow
Chicadee - Goldfinch - Red Headed
Woodpecker - English Sparrow
Kingbird - Grackle - Sparrow Hawk
Shrike - Flicker - Barn Swallow

Ther FRIDAY 5 Mail Wea

Warm, clear and sultry

I talked to 4th - 5th 7th & 8th
Grades at North Grade Bldg
here this afternoon

Boys brought in a dead
Saka Rail they had found
Saw plenty of Brown Thrashers
yesterday. Nail storm at
7 P.M. some as large as
5 1/4 in in circumference

Ther SATURDAY 6 Wea
Cool Windy

Saw a pair of white throat
sparrows in our apple
trees this eve

Ther

SUN. MAY 7, 1922

Wea

First pair of Rose Breasted
Grosbeaks feeding on elm
seeds. Also saw one male
at Ledges this afternoon
White Throat Sparrows
Cardinal. Saw pair of
Rough Wing Swallows
skimming over the river

Ther

MONDAY 8

Wea

Damp & Cloudy & Windy
apple blossoms in full bloom
and trees are full of Vireos
Warblers and Kinglets many
of which I could not classify
1 Solitary Vireo. 1 Cape May
Warbler. 1 Baltimore Oriole
1 Ruby Crown Kinglet.
Chipping Sparrow building nest

Ther

TUESDAY 9

Wea

Do Mowies all day
at Graft Meeting

Warm - Windy and dusty
Ther WED MAY 10, 1922 Wea

Dead Mans Gulch 50m
Cat Bird House Wren - Goldfinches
Thrasher - Maryland Yellowthroat
Downy W.P. - Chickadees - Robin -
Bluebirds - 2 Phoebe - Kingbirds -
Meadowlark - Yellow Warbler - Hairy W.P.
Returning by South Pond - Coot
Yellow Head B.B. - Quail - Red Wing
Mourning Dove - Red Head - Swift
Flicker - Eng Sp. - Lots of Cat Birds

Ther THURSDAY 11 Wea

Cool and windy

To Swans pasture 6 a.m.
Several Yellow Warblers also
more Maryland Yellowthroats
Harris Sparrow - Wood Pewee
Goldfinches very plentiful.
Phoebe on her nest in 1st
stone arch. Cat Birds Thrasher
Red Head W.P. - Towhee - Wrens in
woods also. Field Sparrow - Cowbird

Ther FRIDAY 12 Wea

Cool - North Bridge 5³⁰ a.m. Clear

First Redstarts - several of them
8 Kingbirds on fence together
Towhee - Cardinals whistling
Ovenbird - Wood Pewee - Veery (1)
Female Ruby Crown Kinglet
First Parula Warbler - First Indigo
Bunting (2) - Black and White Warbler
36 varieties noted in 2 hrs this a.m.
Saw American Bittern at South
Pond this evening also a Sora Rail

Ther SAT. MAY 13, 1922 Wea

Month of Bluff Creek 5³⁰ a m

31 varieties in 12 hrs time

First Scarlet Tanager (1)

" Crested Flycatcher (1)

Rose Breasted Grosbeaks plentiful

Maryland Yellowthroats - Yellow

Warblers Redstarts - Goldfinches

Indigo Bunting (3) Dickcissel (3)

Heavy fog over the river was a

grand sight at sunrise

Ther SUNDAY 14 5³⁰ to 9³⁰ a m Wea

Cool - North Bridge 3³⁰ to 7⁰⁰ p m Cloudy

36 varieties today First pair of

Ruby Throat Humming birds

First pair of Pine Warblers near river

Crested Flycatchers - Redstarts

Yellow Warblers - Indigo Buntings

Cardinals - Towhee - Wood Pewee

Barn Swallow - Rough Wing Swallow

Field Sparrow nest - 4 eggs

4 cowbirds eggs in the other sparrow
nest with one of hers - nest abandoned

Ther MONDAY 15 Wea

Chipping Sparrows nest in
Gooseberry bush at home
with no eggs in it

Ther TUES. MAY 16, 1922 Wea

Rain this evening
Made a quick trip to
the M K Nolan Farm
at noon and saw
three green herons on
Bluff Creek also 17
Scaupfens in a pond
which I could not
classify. Harris Sparrow ^{at home}

Ther WEDNESDAY 17 Wea

Saw Mourning Dove nest
yesterday with two eggs
in it up in Nolan timber

Ther THURSDAY 18 Wea

Very Cold Cloudy
Harris Sparrow near our back door
this morning. Young Robins
are already flying.
Brown Thrasher nest has
one egg. Mourning Dove
nest in Box Alder tree in
Will Andersons pasture with
2 eggs in it

Ther

FRI. MAY 19, 1922

Wea

Harris Sparrow at home
 about 20 shore birds at
 Hildts pond. Crows
 and Sandpipers
 No positive identification

Ther

SATURDAY 20

Wea

Warmer

Clear

Saw one Red-backed
 Sandpiper alone at the
 pond near the north mine
 this evening. Saw him
 at close range and saw
 the black belly so I am
 sure of him

Donna Conway funeral today

Ther

SUNDAY 21

Wea

Clear Ledges 12 to 6 PM Warm

34 Starlings + 1 ~~Blackbird~~ Warbler

Redstarts - Indigo Buntings

Yellow Warbler Maryland

Yellowthroat - Cardinal - Doves

~~Field~~ Sparrow - Field Sparrow

Chipping Sparrow nest with

6 to 8 eggs in it

Thrasher nest with 4 eggs

Ther MON. MAY 22, 1922 Wea

Warm

Cloudy

Bluff Creek 5³⁰ a m

Wood Thrush nest with 1 egg
Young Hairy Woodpeckers crying
loudly in nest. 30 varieties
this morning. Went to
iron bridge this evening
and heard several tofolinks
singing in the Doran pasture
the best in several years

Ther TUESDAY 23 Wea

Rain all day

Ther WEDNESDAY 24 Wea

Rain all day

Ther THURS. MAY 25, 1922 Wea

Rain all day

Roads are frightful so
cannot get out

Saw a pair of Red Eye Vireos
in cherry tree near our
house at noon in rain

Also a pair of Yellow Warblers
are around our house every
day. Think they are nesting here

Ther

FRIDAY 26

Wea

Rain

Ther

SATURDAY 27

Wea

Weather clearing but
roads muddy & rough

Frida and Junior left
for Los Angeles this fore

No bird observations
today

Ther SUN. MAY 28, 1922 Wea
Warm Clear
Bluff Creek this eve.
Only 22 varieties. The nests
of Wood Thrush and Warbler
found May 27 were empty
except a few broken shells
Squirrels or Jays perhaps
Lots of whip-poor-wills
at Gelpays this eve. Cat Birds
nest in woods with 5 eggs

Ther MONDAY 29 Wea

Ther TUESDAY 30 Wea

Ther WED. MAY 31, 1922 Wea

Warm

Cloudy

Spiker and I go to Ledges this afternoon. R. B. Grosbeak-Wren

3 Bobolinks. Grackles. Goldfinch
Crested Flycatcher. Yellow Warbler
Indigo Bunting. Crow. Red Eye Vireo
Redstart. Catbird. Cardinal. Field
Sparrow. Chickadee. Towhee. King
fisher. Whippoorwill. Horned Owl
Eastern Meadow Lark

Ther THURSDAY, JUNE 1 Wea

Cloudy Ledges

Cool

See Memoranda for list

3 young Thrashers in nest in
gooseberry bush 3 ft up

3 young Phoebe in nest ready
to fly. Song Sparrow nest
by road to South Ledges in
thistle bush 6 m high. Hggs

Ther 38

FRIDAY 2

Wea

Cloudy

Cool

See Memoranda for list

Wrens nest in post

Yellow Warblers nest in

willows 7 ft high, yellow
feathers in nest lining 2 eggs

Wood Thrush in willows

sitting on her nest 7 ft

Sapsuckers nest in butternut

tree 18 m from flying squirrels
nest in same limb about 25 ft

Ther⁸ SAT. JUNE 3, 1922 Wea
Warmer Clear

See Memoranda for list
Family of young Nuthatches
just leaving the nest
Chicadees nest in post - 7 young
birds with black caps fly away
Indigo Bunting nest on river
bank 9m high in green woods
3 white eggs - Chipping Sparrow
nest on ground with 1 cow bird in
only Wea

Ther SUNDAY 4 Wea
Warmer Clear

See Memoranda for list
Red Eyed Vireo nest in Box
Alder 4 ft in Willow Thicket
3 Cow Birds eggs 2 Vireo Eggs
Redstarts nest in willow 10 ft
on river flats - no eggs -
nest of white down from
willow and cottonwood
Catbird nest 3 ft - 4 eggs Elderberry
Dusky
bird on Wea

Ther MONDAY 5 Wea

In Town

Warbling Vireo - Yellow Warbler
Western Meadowlark
Chipping Sparrow - Purple
Martin - Robins - Catbirds
Catbirds nest in our apple
tree with 4 eggs in 1st
nest about 10 ft high

Ther TUES. JUNE 6, 1922 Wea

Ther WEDNESDAY 7 Wea
Very Warm Clear

Still four eggs in the
Catbirds nest in the
apple tree in our chicken
yard

Ther THURSDAY 8 Wea
90 Very Sultry

South Pond 6:30 to 8:00 PM
Thrasher - Kingbird - Grackle
Western Meadowlark - Flicker
Mourning Dove - Red Wing B.B.
40 Yellow Head B.B. - Bobolink
10 Black Tern - Warbling Vireo
Barn Swallow - Eastern Meadowlark
Dickcissel - See Memoranda
for list of nests observed
this column

Ther
Cooler

FRI. JUNE 9, 1922

Very Windy
Wea
Cloudy

Gilroy 530 to 730 P.M.

En route - Robin - Grackle - Kingbird
Red Head W. P. - Dickcissel - Crow
Western Meadowlark - Shrike - Flicker
Bluebird - Cowbird - Chipping Sparrow
Catbird - Quail - In the woods - Thrasher
Goldfinch - Wren - Field Sparrow
Maryland Y. T. - Downy W. P. - Chickadee
Lark Sparrow - Crested Flycatcher - Wood Pewee
Grosbeak - Blue Jay - Junco - Wood Thrush

Ther

SATURDAY 10

Wea

Ledges

Ther

SUNDAY 11

Wea

Very Warm 4 to 6 P.M. Clear
Robin - Eng Sparrow - Thrasher - Red
Wing B. B. - Yellow Head B. B. - Black
Jerk - Grackle - Flicker - Red Head
Quail - Chippy - Western Meadowlark
Dickcissel - Indigo Bunting - Grosbeak
Blue Jay - Phoebe - Crested Flycatcher
Hairy Woodpecker - Field Sparrow
Cardinal - Redstart - Towhee - Towhee
Goldfinch - Chickadee - Tufted Titmouse
Wren - The last 15 only at Ledges

Ther MON. JUNE 12, 1922

Wea

Hot Clear
Young Grackles fallen from
their nest to the ground
crying to be fed as they
were unable to fly yet
Four eggs in Catbirds
nest in our apple tree
not hatched yet

Ther

TUESDAY 13

Wea

American Bittern
Coots - Yellow Head Black
Birds - Red Shoulder Black
Birds - Baltimore Oriole
1 Cedar Waxwing (near home)
4 Catbirds eggs not hatched
yet

Ther

WEDNESDAY 14

Wea

Ther THURS. JUNE 15, 1922 Wea

Very hot and windy

Farmers Picnic at Broom

Ther

FRIDAY 16

Wea

Two eggs and two young
birds in our Catbirds
nest this morning

Drove to the Country this
eve. to adjust a tornado
loss and saw a little
Screech Owl sitting on
a telephone pole

Ther

SATURDAY 17

Wea

Two eggs and two young
birds in our Catbirds
nest this morning
and the same this eve

Ledges - 3 to 6 P.M.

Ther

SUN. JUNE 18, 1922

Wea

Bombard - Maryland Y.I. Very Warm
 Eng Sparrow - Robin - Catbird - Crow
 Baltimore Oriole - Flicker - Red
 Head W.P. - Wren - Chipping Swift
 Grackle - Goldfinch - Grosbeak
 Kingbird - Thrasher - Red Wing BB
 Yellow Head BB - Mourning Dove
 Shrike - Lark Sparrow - Dick Cissel
 West M. Lark - Bluebird - Towhee - Phoebe
 Wood Thrush - Redstart - Cardinal - 4 B. Cuckoo
 Calliope Vireo - Crested Flyc. - Wood Pewee - Titmouse

Ther

MONDAY 19

Wea

Amaguan pond 7 P.M.
 Black Tern - Yellow Head BB
 Kildeer - Western Meadowlark
 Red Wing BB - Barn Swallow
 Mourning Dove - American Bittern
 10 empty Red Wing nests
 1 Red Wing nest with 2 eggs
 1 " " " " 4 "
 4 Yellow Head " " empty
 2 " " " " 4 eggs
 3 " " " " 3 broken

Ther

TUESDAY 20

Wea

En route to Ledges Very Warm
 Thrasher - Kingbird - Robin - Red Head W.P.
 M. Dove - Eng Sparrow - Grackle - Red Wing
 Yellow Head BB - Quail - Dick Cissel
 Shrike - Bluebird - Barn Swallow
 Chipping - Blue Jay - Crested Flycatcher
 Catbird - Wren - Phoebe - Wood Thrush
 Horned Owl - Screech Owl - Whippoorwill
 The last 8 being seen at the
 Ledges - also Lark Sparrow in route

Ther

Edgiz #30 to 6:30 a.m.
WED JUNE 21, 1922

Wea

Phoebe - R.B. Grosbeak - Wren
 Indigo B - Cardinal - W.B. Nuthatch
 Wood Thrush - Blue Jay - Crow
 Catbird - Custed Flycatcher -
 Redstart - Cowbird - Cowbird
 Red Eye Vireo - Dickcissel - Towhee
 Chipping - Field Sparrow - Quail
 Bluebird - Red Head - Maryland Y.S.
 Robin - White Eye Vireo - Goldfinch
 Chickadee - Y.B. Cuckoo - Thrasher

Ther

THURSDAY 22

Wea

Drove to Anagua pond
 about 4:30 P.M. and took
 two pictures of nest and
 eggs of the Pie Billed
 Grebe + 7 eggs

Ther

FRIDAY 23

Wea

Ther

SAT. JUNE 24, 1922

Wea

Two young catbirds hatched
June 16th flew out of nest
but I replaced them
They were gone this evening
Visited catbirds nest at North
Bridge this eve in a wild
oak tree about 3 1/2 ft up
with 3 eggs in it

Ther

SUNDAY 25

Wea

Went to Gilroy at 6:30 a.m.
McGilroy had located a large
hawk's nest for me and
when we came the hawk
flew off. We felled the tree
but nest was demolished
It was in a basswood about
40 ft up and out on a croton
I found no eggs nor young

Ther

MONDAY 26

Wea

Ther TUES. JUNE 27, 1922 Wea

Ther WEDNESDAY 28 Wea

Cooler - North Wind Clear
Photographed one young
Pied Billed Grebe at nest.
The others had all left.
Also saw American Bittern
Kelder Plover. Black Tern
Red Wing BB. Yellow Head BB
Grackles. Barn Swallows. Robin
Eastern and Western Meadowlark
Kingbird. Mourning Dove

Ther THURSDAY 29 Wea

Our worms left their nest
today.
Robins are nesting a
second time

Ther

FRI. JUNE 30, 1922

Wea

Ther

SATURDAY, JULY 1

Wea

Ther

SUNDAY 2

Wea

Ther

MON. JULY 3, 1922

Wea

Ther

TUESDAY 4

Wea

Cool and Clear

Sunday School picnic at the
old location on Bluff Creek
10 A.M. to 5 P.M.See Memoranda in back
of book for list of birds

Ther

WEDNESDAY 5

Wea

Terrible hail storm
about 7 P.M. Hail as large
as hen eggs. Heavy rain
about midnight.Found one robin nearly
dead from being pelted
by hail and rain.He revived and we put
him in farm to dry off

Ther THURS. JULY 6, 1922 Wea

Cloudy all day and
some more rain
after supper it started
to rain again and
rained hard all evening

Ther FRIDAY 7 Wea

Ther SATURDAY 8 Wea

Ther

SUN. JULY 9, 1922

Wea

Warm

Part Cloudy

Seen from auto this afternoon
 Robin - Thrasher - Kingbirds
 Grackle - Flicker - Red Head
 Kildeer - 3 Kingfishers - Eastern
 Meadowlark - Western Meadowlark
 Mourning Dove - Red Wing B B
 Dickcissel - Quail - Maryland Y I
 Crow - Eng sp. - Horn Lark - Barn Swallow
 Shrike - Bluebird - Catbird - Goldfinch - Wren

Ther

MONDAY 10

Wea

Ther

TUESDAY 11

Wea

Ther

WED. JULY 12, 1922

Wea

Ther

THURSDAY 13

Wea

Nest of young Red Headed
Woodpeckers in hole in
tree at cemetery also
a nest full of young
Kingbirds in an elm
tree about 20 ft up.

Also saw some young Red
Eyed Vireos flying and later
fed by the mother Vireo

Ther

FRIDAY 14

Wea

Warm

Clear

Awoke at 3:45 this morning.
Very bright moonlight and just
faint light appearing in the
east. Heard the clear call
of the Western Meadowlark
only but at about 4 o'clock
the robins began their
morning choruses

Ther

SAT. JULY 15, 1922

Wea

Ther

SUNDAY 16

Wea

Ther

MONDAY 17

Wea

Ther TUES. JULY 18, 1922 Wea

Ther WEDNESDAY 19 Wea

Ther THURSDAY 20 Wea

Ther

FRI. JULY 21, 1922

Wea

Ther

SATURDAY 22

Wea

Ther

SUNDAY 23

Wea

Very Warm

Clear

Female Battman Cnoll
visited our bird bath four
times, fathmg each time
also saw male Rose
Breasted Grosbeak fathmg
and as many as six
Eng sparrows at once
there

Ther

MON. JULY 24, 1922

Wea

Ther

TUESDAY 25

Wea

Ther

WEDNESDAY 26

Wea

Ther

FRI. JULY 21, 1922

Wea

Ther

SATURDAY 22

Wea

Ther

SUNDAY 23

Wea

Very Warm

Clear

Female Baltimore Oriole
visited our bird bath four
times, fathoming each time
also saw male Rose
Breasted Grosbeak fathoming
and as many as six
Eng sparrows at once
there

Ther

MON. JULY 24, 1922

Wea

Ther

TUESDAY 25

Wea

Ther

WEDNESDAY 26

Wea

Ther THURS. JULY 27, 1922 Wea

Ther FRIDAY 28 Wea

About 6 A.M. I observed one of our worms carefully going over the foundation and beneath the siding of the house searching for spiders and bugs. I found the outside cellar door and he even flew down in the laundry. He was so anxious to explore

Ther SATURDAY 29 Wea

Ther

SUN. JULY 30, 1922

Wea

Ther

MONDAY 31

Wea

Ther

TUESDAY, AUG. 1

Wea

Ther

WED. AUG. 2, 1922

Wea

Ther

THURSDAY 3

Wea

Ther

FRIDAY 4

Wea

Ther

SAT. AUG. 5, 1922

Wea

Ther

SUNDAY 6

Wea

Ther

MONDAY 7

Wea

Ther TUES. AUG. 8, 1922 Wea

Ther WEDNESDAY 9 Wea

Ther THURSDAY 10 Wea

Ther

FRI. AUG. 11, 1922

Wea

Ther

SATURDAY 12

Wea

Ther

SUNDAY 13

Wea

Ther

MON. AUG. 14, 1922

Wea

Ther

TUESDAY 15

Wea

Ther

WEDNESDAY 16

Wea

Ther THURS. AUG. 17, 1922

Wea

Ther

FRIDAY 18

Wea

Ther

SATURDAY 19

Wea

Ther SUN. AUG. 20, 1922 Wea

Ther MONDAY 21 Wea

Ther TUESDAY 22 Wea

Ther WED. AUG. 23, 1922 Wea

Ther THURSDAY 24 Wea

Ther FRIDAY 25 Wea

Ther

SAT. AUG. 26, 1922

Wea

Ther

SUNDAY 27

Wea

Ther

MONDAY 28

Wea

Ther TUES. AUG. 29, 1922 Wea

Ther WEDNESDAY 30 Wea

Ther THURSDAY 31 Wea

Ther

FRI. SEPT. 1, 1922

Wea

Ther

SATURDAY 2

Wea

Ther

SUNDAY 3

Wea

Ther

MON. SEPT. 4, 1922

Wea

Returned from Calif
at 8.30 this eve

Ther

TUESDAY 5

Wea

Baltimore Oriole
Red Head Woodpecker
Mourning Dove
Robin
Blue Jay

Ther

WEDNESDAY 6

Wea

Ther THURS. SEPT. 7, 1922 Wea *Clear*

Very hot all this week
but today it is the
hottest of all
98° in Opa Moines
101 at Ft Dodge

Ther FRIDAY 8 Wea

Cooler

Rain

Rain this afternoon and we
Brown Thrasher, Flicker
and about 15 or 20 Robins
in our bird bath today
just as it started to rain
Heard twittering of birds
overhead at 9 P.M. as if
they were migrating. Snow is
reported in Montana today

Ther SATURDAY 9 Wea

Brown Thrasher.
Black Birds congregating
Chimney Swifts
Night Hawks

Ther

SUN. SEPT. 10, 1922

Wea

Very Cool

Yellow Billed Cuckoo
Flicker. Blue jays

Ther

MONDAY 11

Wea

Ther

TUESDAY 12

Wea

Cool, clear, fresh weather as
fine as one can wish

Mourning Dove
Flicker

Chipping Sparrow

Ther WED. SEPT. 13, 1922 Wea
Cool

Local thunder showers
this afternoon

Meadowlark - Robin
Kingbird - Mourning Dove
Flicker - Downy Woodpecker

Ther THURSDAY 14 Wea

Ther FRIDAY 15 Wea

Ther

SAT. SEPT. 16, 1922 • Wea

Ther

SUNDAY 17

Wea

Cool

Clear

Sharrow Hawk

Robins

Mourning Dove

Meadow Lark

Red Head Woodpecker

Flicker

Barn Swallow

Kingfisher

Ther

MONDAY 18

Wea

Ther TUES. SEPT. 19, 1922 Wea

Ther WEDNESDAY 20 Wea

Pair of worms at home

Robins - Grackles

Blue Jay - Mourning Dove

Ther THURSDAY 21 Wea

Catbird - Blue Jays
Grackles - Robins
Meadowlark

Ther FRI. SEPT. 22, 1922

Wea

Warmer

Clear

Robins - Grackles
Wrens - Blue Jays
Brown Thrasher
Downy Woodpecker
Ruby Throated Hummer

Ther SATURDAY 23

Wea

Warmer

Clear

Robin - Grackle
Female Ruby Crown Kinglet
Mourning Dove
Chicadee - Flicker
Mallard - Blue Wing Teal

Ther SUNDAY 24

Wea

Ther MON. SEPT. 25, 1922 Wea

American Bittern at
South Pond

Robins - Grackles
Wren - R. I. Hummingbird
Flicker - Red Head Woodpecker
Tree Sparrow

Ther TUESDAY 26 Wea
Warm Clear

Chipping Sparrow
Ruby Throat Hummer
Robins - Blue Jays
Mourning Dove - Wren
Grackles

Ther WEDNESDAY 27 Wea
Warm Clear

Brown Thrasher - Wren
Robins - Grackles
6 wild ducks going north
Bluebirds

Attended the parade of G.A.R.
veterans at Des Moines at
their national encampment
Saw Mr. Steppan at the Museum

Ther THURS. SEPT. 28, 1922 Wea

White Breasted Nuthatch
Downy Woodpecker

Ther
Warm

FRIDAY 29

Wea
Clear

Wren - Meadowlark
Grackle - Chipping Sparrow
Robin

Ther

SATURDAY 30

Wea

Rain last night
Meadowlark - Robins
Wrens

Ther

SUN. OCT. 1, 1922

Wea

Warm

Clear

No frost so far this fall
a pair of Brown Creepers
working in our elm tree
today the first this fall
Robins - Grackles - Wren
Blue jays - Meadowlark
Killer - Flicker
Had dinner and supper
at John Thorens

Ther

MONDAY 2

Wea

Warm

Clear

Brown Thrasher
2 Chipping Sparrows
Chimney Swifts
Robins - Grackles
Blue jays

Ther

TUESDAY 3

Wea

Warm

Clear

Ruby Crowned Kinglet

Ther 86 WED. OCT. 4, 1922

Wea Clear

Hot and windy

Called to Chas MC Caskys
this eve to see a big
Horned Owl which he
caught in a trap. The
owl had been biting the
head and neck off
his large chickens.
~~Brown Thrasher - Meadowlark~~

Ther 86 THURSDAY 5

Wea Clear

Ther

FRIDAY 6

Wea

Cooler Thunder Showers
Flock of White Throated Sparrows
the first this fall - were eating
out ripe red raspberries this
morning. First pair of
Juncos this a.m. also
Robins - Grackles.

Mourning Dove
Heavy thunder shower this
afternoon between 5 and 6
Dig my potatoes this morning

Ther SAT. OCT. 7, 1922 Wea
Cooler Part Cloudy
Several White Throated
Sparrows in our apple
trees this morning also
a female Ruby Crowned
Kinglet with them
Robins flocking.
Downy Woodpecker.
Flicker

Ther

SUNDAY 8

Wea

Cooler
Ther MONDAY 9 Wea
Clear
First frost last night
Fowhee in our yard today
I shot a hen Pintail Duck this m.
Robins - Ruby Crown Kinglet
Grackles - White Throat Sparrows
Juncos - Flicker - Crow
Blue Jay - Meadow Lark
Blue Jay American Bittern

Ther TUES. OCT. 10, 1922 Wea

^{Cool} Frost last night again ^{clear}
but warmer today
Went duck hunting
this eve - no luck
American Bittern
Junco - Robins - Kildeer

Ther WEDNESDAY 11 Wea

^{Cool} - Windy ^{Part Cloudy}

Went hunting this eve again
but got nothing

Meadowlarks - Kildeer

Grackles - Red Wings

Ruby Crown Kinglet

Junco - Crows -

Ther THURSDAY 12 Wea

Very heavy killing frost last night
Had fresh ripe red raspberries
from our own vines for
dinner yesterday

3 Kildeer - Robins

Mourning Dove

Junco - White Throats

Ther

FRI. OCT. 13, 1922

Wea

Ther

SATURDAY 14

Wea

Ther

SUNDAY 15

Wea

Cool

Clear

4 Killdeer Plovers - Robins

1 Meadow Lark - Juncos

2 Blue Birds

Spent afternoon at Beaches
and had supper thereThe contents of Pintail Duck
gizzard shot Oct 9 reported
by Biological Survey to be
seed of Water Smartweed

Ther

MON. OCT. 16, 1922

Wea

Juncos - White Throats
Chipping Sparrow - Robin
Grackles - Cowbird
Blue Jay - Flicker

Ther

TUESDAY 17

Wea

Ice $\frac{3}{8}$ -in thick this a.m.
Meadow Lark - Robin - Red Wings
Blue Jay - White Throats
Juncos. Marsh Hawk
Went hunting this eve with
Ray Bass. He shot a Gulltail
and a Greater Scaup Duck
or Bluebell. I shot one but
could not find him.

Ther

WEDNESDAY 18

Wea

Song Sparrow - White Throats
Juncos - Robins - Blue Jay

Ther THURS. OCT. 19, 1922 Wea
Warmer Clear
Robins - White Throats
Meadowlarks - Junco
Chicadee - Grackles
Downy Woodpecker

Yellow Throated Vireo?
in bitter-sweet ones

Ther FRIDAY 20 Wea

2 Brown Creepers
3 Kinglets - no crowns visible
so they must be female ruby &
Bluebirds - Blue Jays - Crows
Juncos
Jay Leonard shot a young
Red Tail Hawk and has
mounted it

Ther SATURDAY 21 Wea
Warm Clear
Robin - Red Wing Blackbirds
Plicker - Juncos - White
Breasted Nuthatch - Chipping
sparrow - White Throats
Junco bathing in our bath 7³⁰ a.m.

Ther

SUN. OCT. 22, 1922

Wea

Cool

Light rain

Juncos - White Thrats

Ruby Crown Kinglets

White Breasted Nuthatch

Downy Woodpecker - Chickadee

Grackles - Robin

Cardinal - Bluebirds

Harry Woodpecker

Ther

MONDAY 23

Wea

Ther

TUESDAY 24

Wea

Warm

Clear

Large flock of Killdeer
in a meadow in Marey
Spr

Bluebirds - Juncos -

Sparrowhawk - Redwing
Blackbirds

Ther WED. OCT. 25, 1922 Wea

Very warm

Clear

Mourning Doves - Juncos

Blue Jays. Ch. eadles

Dorsey Woodpecker

one Kingfisher on Crak

Junas and I drove to
Beaver Crak Bayou this
eve to hunt and fish

All we saw was muskrats
swimming around there

Ther THURSDAY 26 Wea

Ther FRIDAY 27 Wea

Very Warm

Clear

Western Meadowlark

Robin - Juncos

Ther

SAT. OCT. 28, 1922

Wea

Ther

SUNDAY 29

Wea

Very Warm

Clear

One Robin near home this morning. On Bluff Creek this afternoon I saw Crows - Grackles - Chickadees Downy Woodpeckers White Breasted Nuthatches 2 Golden Crown Kinglets Blue Jay - Juncos - 1 Tree Sparrow 2 Fox Sparrows

Ther

MONDAY 30

Wea

Very fine clear and warm

Ther

TUES. OCT. 31, 1922

Wea

Rain this afternoon

Robins - Flicker - Juncos

Ther

WEDNESDAY, NOV. 1

Wea

Cloudy and rain

Heavy fog and mist
this morning.

Ther

THURSDAY 2

Wea

Weather cleared this
afternoon and clear
and cooler this eve.
Large flocks of black-
birds going south
this morning - flying
high. North wind
and some cooler

Ther

FRI. NOV. 3, 1922

Wea

Robin - Flicker - Blue Jay
Meadow Lark

Ther

SATURDAY 4

Wea

Some rain this
afternoon and very
windy

Ther

SUNDAY 5

Wea

Cooler today and partly
cloudy. Very windy
No birds observed at all

Ther

MON. NOV. 6, 1922

Wea

Clear, cool and some
wind

Junior and I drove
to John Wolf pond this
morning duck hunting
but got none. Saw two
Meadow Larks and two
very large flocks of ducks
going south flying high

Ther

TUESDAY 7

Wea

Colder

Partly Cloudy

Many large flocks of
ducks going southeast.
Wind northwest and ducks
flying high and fast
Papers today report snow
in South Dakota and
other northern points.

Archilly shot a black
duck on Beaver Creek

Ther

WEDNESDAY 8

Wea

Cool

Cloudy

Ray and I and Junior
went out to Wolf Pond.
I shot one duck but
could not find him in
the long grass

Ther THURS. NOV. 9, 1922 Wea

Ther FRIDAY 10 Wea

Warm

Cloudy

Left for Iowa City with
Elihu Peterson in their car
at 3 P. M.

Saw Meadowlarks and
Flickers on the road.
Reached Marquette at 9 P. M.
and staid at Hotel

Ther SATURDAY 11 Wea

Rain this forenoon. Saw
the Iowa team defeat Minn.
28 to 14 this afternoon and
this evening it rained
again and we did
not start for home.
Saw the Laysan Island
bird exhibit this A. M.
Could not find Harris Sparrow
in museum to date

Ther

SUN. NOV. 12, 1922

Wea

Still raining this am
so we came home
on train leaving car
at Iowa City

Ther

MONDAY 13

Wea

Cooler this eve Cloudy
Ducks are flying
and snow is reported
in Nebraska

Ther

TUESDAY 14

Wea

Ther Cold WED. NOV. 15, 1922 Wea Part Cloudy
Went to Des Moines with
Porter on Interurban

Saw One Mourning Dove
Two Meadow Larks
One Prairie Chicken
Three Geese. A flock of Quail
and a flock of at least
1,000 blackbirds.
Froze ice last night

Ther THURSDAY 16 Wea

Ray shot a Red Head Duck
last evening. I bought a pair
of hip boots in Des Moines
yesterday so I can now
hunt and explore ponds.

Vesta Peterson died today

Ther FRIDAY 17 Wea

Ther SAT. NOV. 18, 1922 Wea

Warmer

Cloudy

Rain again this evening
Robin - Blue Jay - Flicker
Chicadee - Meadow Lark

Ther

SUNDAY 19

Wea

Victor Petersens funeral

Ther

MONDAY 20

Wea

Ray and Roy Bass, Parker
Clark and myself drove
out to SE Parks and Well
Mangans this eve and
shot 78 quail. We dressed
out the breasts only and
will eat them all.
Saw a flock of about 25
prairie chickens on the way
to Boone this forenoon

Ther TUES. NOV. 21, 1922

Wea

Warmer

Clear

Ther

WEDNESDAY 22

Wea

Heavy frost last night

Ther

THURSDAY 23

Wea

Ther

FRI. NOV. 24, 1922

Wea

Ther

SATURDAY 25

Wea

A pair of Blue Jays
and a pair of Chickadees
visit our suet almost
every day and get their
lunch

Ther

SUNDAY 26

Wea

Barly freezing Part Cloudy
Juncos and I spent from
1 to 3:30 at Highway Gulch
and North Bridge.
Saw fine coveys of Quail
also lots of Chickadees.
Crows, Downy Woodpeckers
Hairy Woodpecker, Juncos
1 pair of Crested Titmouse
1 Sparrow Hawk - W. B. Nuthatch
1 R. Kinglet - could not see east

Ther

MON. NOV. 27, 1922

Wea

Ther

TUESDAY 28

Wea

Ther

WEDNESDAY 29

Wea

~~Weather moderated this morning and this afternoon it started to mist and rain which froze making it very slippery~~

Ther THURS. Nov. 30, 1922 Wea Cloudy

~~Everything coated with ice
this morning making it
very difficult to walk.
Downy Woodpecker, Blue
Jay and White Breasted
Nuthatch seen near home~~

Ther FRIDAY, DEC. 1 Wea

Ther SATURDAY 2 Wea

Ther

SUN. DEC. 3, 1922

Wea

Very beautiful clear
warm winter weather
and very few birds at
our feeding station
Thus far we have had
very little cool weather
or a very mild winter

Ther

MONDAY 4

Wea

Ther

TUESDAY 5

Wea

5 to 8 above zero this a.m.
Coldest of the winter so far

Ther

WED. DEC. 6, 1922

Wea

Wind southeast this am.
 Weather moderated and
 this afternoon it started
 to mist and rain
 which froze making it
 very slippery

Ther

THURSDAY 7.

Wea

Cloudy
 Everything coated with
 ice this morning
 making it very
 difficult to walk
 Downy Woodpecker, Blue
 Jay and White Breasted
 Nuthatch all near house

Ther

FRIDAY 8

Wea

38 5 above Clear
 Ice coating did not melt
 today and it is still
 very slippery
 at noon there was a Robin
 a Whitebreasted Nuthatch
 and a Downy Woodpecker
 all in our cherry tree
 at once

Ther

SAT. DEC. 9, 1922

Wea

Ther

SUNDAY 10

Wea

28 to 35

Clear

Ice melting on sunny side
 In woods along Moingona
 tracks this afternoon I saw
 1 Redtail Hawk 1 Cardinal
 6 Snail - 5 Juncos
 1 Chickadee 1 Downy Woodpecker
 Juncos caught 2 Grackles
 alive with his hands near
 home today

Ther

MONDAY 11

Wea

Turned much colder this
 forenoon and this eve it
 is very cold with strong
 northwest wind
 Downy Woodpecker
 Hairy Woodpecker
 Brown Creeper
 W. B. Nuthatch - Chickadee

Ther

TUES. DEC. 12, 1922

Wea

5 below zero this morning

Ther

WEDNESDAY 13

Wea

Slightly warmer S.E. wind

Four Blue Jays eating nuts
and suet and holding their
own at our feeding station

W.B. Nuthatch - Downy
Woodpecker

Started snowing this evening

Ther

THURSDAY 14

Wea

Nothing new - only Blue Jays
Downy Woodpeckers and
W. B. Nuthatches at our
feeding station

Ground covered with snow
this morning but hardly
enough for sleighing

Ther

FRI. DEC. 15, 1922

Wea

16 below

Gov report 2 1/2 in snow
fell yesterday

Ther

SATURDAY 16

Wea

Ther

SUNDAY 17

Wea

2 below Took 2 snow pictures in woods

Cold, clear and Cusp
Drove to woods right after
dinner but only saw
about a dozen each of
Tree Sparrows and Chickadees
at home the Blue Jays,
W.B. Nuthatches, Chickadees
and Downy Woodpecker have
been feasting on our suet
and nuts

Ther MON. DEC. 18, 1922 Wea

20 below

Albin Englen brought in
a gray squirrel which
he found frozen in his
straw stack. He had
hibernated there forming
himself in a round ball
10" x 12" which was
very curious. Only his tail
and hind legs were visible
13 in long when thawed out

Ther

TUESDAY 19

Wea

5 below

Ther 8 above

WEDNESDAY 20

Wea

Photographed the frozen
squirrel today

Ther THURS. DEC. 21, 1922 Wea

Almost all the snow
melted to day
Saw

Ther FRIDAY 22 Wea

Saw one meadowlark
sitting on telephone
wire as I drove out to
Gottschalk sale today

Ther SATURDAY 23 Wea

1 Brown Creeper 1 Blue Jay and
several Chickadees eating suet
and nuts here at daybreak

Ther

SUN. DEC. 24, 1922

Wea

Very warm - Clear - no snow
 Cracked a little full of our
 walnuts and filled the bird
 bath and food shelter
 also hung apples in tree
 Chickadees Nuthatches and
 Blue jays all eating
 On way to town saw a
 Brown Creeper and Hairy
 Woodpecker

Ther

MONDAY 25

Wea

50 at noon Part Cloudy
 Jimmie and I drove to Highway
 Gulch and North Bridge at 10m
 to take Christmas Bird Census
 Saw 1 Red Tail Hawk - 1 Barn Owl
 2 Hairy Woodpeckers - 1 Downy
 Woodpecker - 1 Flicker - 1 Blue Jay
 12 Crows - 6 Song Sparrows - 134 Tree
 Sparrows 1 Cardinal 1 Brown Creeper
 6 W. B. Nuthatches 1 Titmouse 23 Chickadees

Ther

TUESDAY 26

Wea

Sent my first letter in
 The Sparks Current at
 Corned Cobles

Ther

WED. DEC. 27, 1922

Wea

Ther

THURSDAY 28

Wea

Hoar frost this am

Junior and I drove to the
Ledges this afternoon to
see the Boy Scouts from
Ames in Camp

Saw flock of Juncos
also Chickadees. Downy
Woodpecker Crows
W.B. Nuthatches

Blue Jays at home

Ther

FRIDAY 29

Wea

Ther

SAT. DEC. 30, 1922

Wea

Ther

SUNDAY 31

Wea

Tree Sparrow

Crow

Blue Jay

Chickadee

W. B. Nuthatches

Eng Sparrow

Downy Woodpecker

Hairy Woodpecker

4³⁰ A M

MEMORANDA

Ledges List June 1 - 22

Phoebe - Crested Flycatcher
 Catbird - Indigo Bunting
 Wood Pewee - Blue Jay
 Rose Breasted Grosbeak
 Cowbird - Cardinal - Crow
 35 to 40 Cedar Waxwings
 Catbird - Field Sparrow
 Tufted Titmouse - Yellow
 Throated Vireo - White Breasted
 Nuthatch - Chickadee - Wood
 Thrush - Chimney Swift
 Brown Thrasher - Whip Poor
 Will 7 A M - Red Eyed Vireo
 Red Head Woodpecker -
 Maryland Yellowthroat
 Goldfinch - Kingbird - Wren
 Yellow Warbler - Mourning Dove
 Audubon's

Breakfast

Dickcissel - Humming Bird
 Bank Swallow

Noon

Snail - Spotted Sandpiper
 Yellow Billed Cuckoo
 Kingfisher - Rough Wing Swallow
 Bluebird - Hairy Woodpecker
 Flicker - Yellow Billed Cuckoo
 Downy Woodpecker - Robin

44 varieties listed today

Did not start until 8 A.M. $\frac{1}{2}$ rain

MEMORANDA

Ledges

June 2-22

Phoebe - Wood Thrush - Wren
Yellow Warbler - Indigo Bunting
Catbird - Tufted Titmouse
Red Bellied Woodpecker
Redstart - Maryland Yellowthroat
Cedar Waxwing - Chickadee
Rosebreasted Grosbeak
Goldfinch - Wood Pewee
Crow - Brown Thrasher

Cowbird - Cowbird - Towhee
Red Head Woodpecker
Song Sparrow - Grackle
Kingbird - Bluebird
Lark Sparrow - Chipping
Sparrow - Loggerhead Shrike
Prairie Horned Lark
Western Meadow Lark
Robin - Flicker - Bobolink
Dickcissel - Kingfisher

Rough Wing Swallow
Cardinal - Red Eyed Vireo
Blue Jay - Hairy Woodpecker
Orested Flycatcher -
Least Flycatcher - Yellow Bellied
Sapsucker - Scarlet Tanager
Downy Woodpecker - Chimney
Swift - Quail - Spotted
Sandpiper - Field Sparrow
Whip Poor Will

415 a m

MEMORANDA

Ledges

June 3-22

Whip Poor Will - Wood Pewee
Indigo Bunting - Wood Thrush
Phoebe - Rose Breasted Grosbeak
Chicadee - Towhee - Wren
Catbird - Yellow Warbler - Crow
Snail - Chipping Sparrow
Maryland Yellowthroat - Catbird
Crested Flycatcher - Field Sparrow
Cardinal - Cowbird - Mourning Dove
Goldfinch - Robin - Grackle
Thrasher - Flicker - Dickcissel
Bluebird - Red Wing Blackbird
Downy Woodpecker - Chipping
Sweat - Tanager - Blue Jay
Red Eyed Vireo - Broad Wing
Hawk - White Eyed Vireo
Cedar Waxwing - Red Head
Woodpecker - Lark Sparrow
White Breasted Nuthatch
Tufted Titmouse - Spotted
Audubon - Solitary Vireo
Bank Swallow - Turkey Vulture
Cowbird - Blackbelly Cuckoo
Hairy Woodpecker - Red Tail
Hawk - Yellow Bell Cuckoo
Redstart - Nighthawk
Warbling Vireo - Yellow
Bellied Sapsucker
Prairie Horned Lark

4:20 AM

MEMORANDA

June 4-22

Ledges

White Poor Will - Phoebe

Maryland Yellowthroat

Indigo Bunting - Rose

Breasted Grosbeak - Wren

Wood Thrush - Crow

Blue Jay - Cowbird - Yellow

Warbler - Wood Pewee - Towhee

Mourning Dove - Catbird

Cardinal - Crested Flycatcher

Chicadee - Field Sparrow

Goldfinch - Thrasher - Tanager

Hairy Woodpecker - Chipping

Sparrow - Kingbird - Veery

Sparrow - Lark Sparrow

Red Eyed Vireo - Quail

Cedar Waxwing - Bluebird

Eastern Meadowlark - White

Eyed Vireo - Chimney Swift

Red Head Woodpecker

Flicker - White Breasted Nuthatch

Rough Wing Swallow - Grackle

Spotted Sandpiper - Song

Sparrow - Least Flycatcher

Redstart - Openbill - Robin

Red Tail Hawk

Blue Wing Warbler

Young Thrashers left their

nest in gooseberry bush

this morning

6:30 to 8 PM

MEMORANDA

South Pond June 8-22

Using hip boots I waded all around the South Pond and found the following nests and eggs:-

1 Red Wing Black Bird - 2 eggs

1 " " " " 3 "

1 " " " " 4 "

3 Yellow Head " " 1 "

1 " " " " 3 "

8 " " " " 4 "

1 " " " " 4 young

3 empty nests presumably of all Yellow-head Blackbirds

1 floating nest with one dirty white egg which probably did not hatch

About 10 or 12 Black Terns circled about my head dropping drops of water (?)

on me and one came down striking the top of my cap

I found no nests of the Black Tern

Saw Yellow Billed Cuckoo and Baltimore Oriole at home today also

MEMORANDA

June 19-1922 7 PM
Large pond of rushes
near John Heffernans.

Found a floating nest
containing 7 eggs and it
was covered with dry
rushes so eggs were
not visible.

Kicked the top off and
one egg fell out which
I took with me. I then
replaced the cover
and left the nest.
Think it was the
Pine Billed Grebe but did
not see the bird.
Eggs are a dirty white
color.

MEMORANDA.

July 4-1922 Bluff Creek
10 a m to 5 p m

Enroute

On the Creek

Robin
Eng Sparrow
W. Meadowlark
Thrasher
Catbird
Red Head W. P.
Red Wing B B
Yellow Head
Dickcissel
Blue Jay
Flicker
Grackle
Kildeer
Baltimore Oriole
Shrike
Swift

Cowbird
Gowhee
Crested Flycatcher
Crow
Field Sparrow
Indigo B
Goldfinch
Chicadee
Barn Swallow
Kingbird
Sapsucker
Bluebird
W. B. Nuthatch
Mourning Dove
Chipping Sp
Hairy Wood P
Phoebe
Bank Swallow
Cedar Waxwing
Downy W. P.
Maryland Y. B
Wren
Yellow Warbler
Quail
Green Heron
Red Tail Hawk
Lark Sparrow
R B Grosbeak
Kingfisher

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south of Oak
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