Ab E — 15

F. E. Server.
Co G 2nd Cav
Fort Ellis
Montana
Territory

W. L. McIntosh
Helena P. O.
Beaver Head Co
Montana

56 Buff Drawn
41 Flour

Bacon 22½
Pork 12

14 Flour

Applegate 26.66
Davis 27.36
Starr 46.90
Brannen 166.66
White 82.62



S. M. Kingsbury
Walcott P. O.
Beaverhead Co
Montana

THE STANDARD DIARY



PUBLISHED FOR THE TRADE.

Calendar.

1876.

JANUARY.

S.	M.	T.	W.	T.	F.	S.
..	..	..	..	..	..	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	..	..	..	..	..

FEBRUARY.

..	..	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	..	..	..	..
..	..	..	..	..	..	..

MARCH.

..	..	..	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	..
..	..	..	..	..	..	..

APRIL.

..	..	..	..	..	..	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	..	..	..	..	..	..

MAY.

..	..	..	..	..	..	..
..	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	..	..	..

JUNE.

..	..	..	..	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	..
..	..	..	..	..	..	..

JULY.

S.	M.	T.	W.	T.	F.	S.
..	..	..	..	..	..	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	..	..	..	..	..

AUGUST.

..	..	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	..	..
..	..	..	..	..	..	..

SEPTEMBER.

..	..	..	..	..	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
..	..	..	..	..	..	..

OCTOBER.

..	..	..	..	..	..	..
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	..	..	..	..

NOVEMBER.

..	..	..	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	..	..
..	..	..	..	..	..	..

DECEMBER.

..	..	..	..	..	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	..	..	..	..	..	..

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DIFFERENCE OF TIME.

When it is twelve o'clock, mean noon, at HARVARD COLLEGE OBSERVATORY, it will be morning at all places WEST, and afternoon at all places EAST, as shown in the following table.

MORNING.	H.	M.	S.
Albany, N. Y.	11	49	31
Annapolis, Md.	11	38	34
Astoria, Oregon	8	29	52
Baltimore, Md.	11	38	3
Brooklyn, N. Y	11	48	36
Buffalo, N. Y.	11	28	50
Burlington, Vt.	11	51	50
Canton, China.	12	17	38
Charleston, S. C.	11	24	48
Chicago, Ill.	10	53	59
Cincinnati, Ohio.	11	6	32
Cleveland, Ohio.	11	17	6
Columbus, Ohio.	11	12	18
Concord, N. H.	11	58	34
Denver, Col.	9	44	31
Detroit, Mich.	11	12	20
Galveston, Texas.	10	25	24
Hartford, Conn.	11	53	47
Indianapolis, Ind.	10	59	53
Iowa City, Ia.	10	38	31
Key West, Fla.	11	17	20
Leavenworth, Kan.	10	25	34
Lima, Peru.	11	36	1
Little Rock, Ark.	10	35	42
Louisville, Ky.	11	2	30
Memphis, Tenn.	10	43	58
Milwaukee, Wis.	10	52	53
Mobile, Ala.	10	52	24
Montpelier, Vt.	11	54	6
Montreal, C. E.	11	50	19
Nashville, Tenn.	10	57	14
Newark, N. J.	11	47	50
New Haven, Conn.	11	52	48
New Orleans, La.	10	44	30
Newport, R. I.	11	59	16
New York City	11	48	30
Niagara Falls, N. Y.	11	28	14
Omaha City, Ne.	10	20	48
Oswego, N. Y.	11	38	6
Philadelphia, Pa.	11	43	50
Pittsburg, Pa.	11	24	22
Providence, R. I.	11	58	55
Quebec, C. E.	11	59	42
Raleigh, N. C.	11	29	18
Richmond, Va.	11	34	49
Rochester, N. Y.	11	33	6
Salt Lake City, U.	9	16	56
San Francisco, Cal.	8	34	53
Saratoga, N. Y.	11	49	30
Savannah, Ga.	11	20	9
Springfield, Ill.	10	46	18
Springfield, Mass.	11	54	7
St. Louis, Mo.	10	43	29
St. Paul, Minn.	10	32	11
Sydney, N. S. W.	2	49	27
Syracuse, N. Y.	11	39	42
Tallahassee, Fla.	11	6	6

MORNING.	H.	M.	S.
Terre Haute, Ind.	10	54	49
Toledo, Ohio.	11	10	13
Toronto, C. W.	11	26	58
Trenton, N. J.	11	45	54
Washington, D. C.	11	36	19
Wheeling, Va.	11	21	42
Wilmington, Del.	11	42	19
Worcester, Mass.	11	57	17
Yokohama, Japan.	2	3	9
AFTERNOON.			
Alexandria, Egypt.	6	43	57
Athens, Greece.	6	19	26
Augusta, Maine.	12	5	10
Bangor, Maine.	12	9	22
Berlin, Prussia.	5	38	6
Boston, Mass.	12	0	16
Cape Town, C. G. H.	5	38	27
Constantinople, Tur.	6	40	28
Copenhagen, Den.	5	34	51
Dover, N. H.	12	0	54
Dublin, Ireland.	4	19	9
Eastport, Maine.	12	16	46
Edinburgh, Scot.	4	31	48
Fall River, Mass.	12	0	2
Florence, Italy.	5	29	33
Geneva, Switz.	5	9	7
Gibraltar, Spain.	4	23	8
Glasgow, Scot.	4	35	33
Gloucester, Mass.	12	1	51
Greenwich, Eng.	4	44	31
Halifax, N. S.	12	30	3
Jerusalem, Pal.	7	5	24
Lisbon, Port.	4	7	57
Liverpool, Eng.	4	32	31
London, Eng.	4	44	31
Madras, India.	10	5	29
Madrid, Spain.	4	29	48
Marseilles, France.	5	5	59
Milan, Italy.	5	21	16
Naples, Italy.	5	41	33
Paris, France.	4	53	52
Portland, Me.	12	3	32
Portsmouth, N. H.	12	1	27
Queenstown, Irel'd.	4	11	30
Rio Janeiro, Brazil.	1	52	47
Rome, Italy.	5	34	21
Salem, Mass.	12	0	56
St. John, N. B.	12	20	17
St. Petersburg, Rus.	6	45	45
Stockholm, Swed.	5	56	46
Strasburg, Ger.	5	15	32
Taunton, Mass.	12	0	6
Trieste, Austria.	5	39	37
Turin, Italy.	5	15	20
Venice, Italy.	5	33	52
Vienna, Austria.	5	50	3

POPULATION OF PRINCIPAL NATIONS.

United States	38,546,699	Mexico	7,200,000
China	367,632,907	Tartary	6,350,000
British India	155,348,090	Sweden and Norway	5,460,000
Russia	68,196,920	Belgium	4,984,500
France	38,192,094	Portugal	4,000,000
German Empire,	38,514,046	Canada	3,835,348
Great Britain	31,817,108	Holland	3,735,682
Austria	37,000,000	Switzerland	2,511,000
Japan	30,000,000	Australasia	1,979,964
Italy	24,965,882	Denmark	1,900,000
Spain	16,302,625	Greece and Ionian Isles	1,348,412
Turkey	16,000,000	Cuba	1,200,000
Brazil	11,780,000	New South Wales	502,000
Persia	9,500,000		
Arabia	8,500,000		

POPULATION OF FOREIGN CITIES.

London, Eng.	3,251,804	Naples, Italy	447,500
Yeddo, Japan	2,500,000	Glasgow, Scotland	440,900
Paris, France	1,825,274	Madras, India	427,771
Pekin, China	1,800,000	Manchester, Eng.	383,843
Canton, China	1,230,029	Birmingham, Eng.	343,696
Constantinople	1,075,000	Lyons, France	324,000
Calcutta, India	1,000,000	Dublin, Ireland	319,000
Osaka, Japan	1,000,000	Madrid, Spain	317,217
Vienna, Austria	825,165	Marseilles, France	300,000
Bombay, India	816,562	Brussels, Belgium	287,241
Victoria, Aus.	729,868	Amsterdam, Hol.	274,931
Berlin, Prussia	702,437	Leeds, England	259,201
St. Petersburg	667,026	Rome, Italy	220,532
Rio de Janeiro, Braz.	600,000	Havana, Cuba	200,000
Liverpool, Eng.	500,000	Stockholm, Sweden	134,650

PRINCIPAL CITIES OF UNITED STATES.

POPULATION, CENSUS OF 1870.

Albany, N. Y.	69,422	Nashville, Tenn.	25,872
Alleghany City, Pa.	53,181	Newark, N. J.	105,078
Baltimore, Md.	267,354	New Haven, Conn.	50,840
Boston, Mass.	250,526	New Orleans, La.	191,322
Brooklyn, N. Y.	396,300	New York, N. Y.	942,292
Buffalo, N. Y.	117,715	Paterson, N. J.	33,582
Cambridge, Mass.	39,624	Philadelphia, Pa.	674,022
Charleston, S. C.	48,956	Pittsburgh, Pa.	86,235
Charlestown, Mass.	28,323	Portland, Me.	31,414
Chicago, Ill.	298,983	Providence, R. I.	68,906
Cincinnati, Ohio.	216,239	Reading, Pa.	33,932
Cleveland, Ohio.	92,846	Richmond, Va.	51,087
Columbus, Ohio.	33,745	Rochester, N. Y.	62,385
Detroit, Mich.	79,580	St. Louis, Mo.	310,864
Hartford, Conn.	37,180	San Francisco, Cal.	149,473
Indianapolis, Ind.	36,565	Savannah, Ga.	20,233
Jersey City, N. J.	81,744	Scranton, Pa.	35,093
Louisville, Ky.	100,754	Springfield, Mass.	26,703
Lowell, Mass.	40,928	Syracuse, N. Y.	43,051
Manchester, N. H.	23,536	Troy, N. Y.	46,471
Memphis, Tenn.	40,226	Washington, D. C.	109,204
Milwaukee, Wis.	71,499	Wilmington, Del.	30,841
Mobile, Ala.	32,084	Worcester, Mass.	41,105

WEIGHTS AND MEASURES.

MEASURE OF LENGTH.

4 In.	make 1 Hand.	3 Feet	make 1 Yard.
7 In.	" 1 Link.	5½ Yds.	" 1 Rod or Pole.
18 In.	" 1 Cubit.	40 Poles	" 1 Furlong.
12 In.	" 1 Foot.	8 Fur.	" 1 Mile.
6 Ft.	" 1 Fathom.	69 1-6 Miles	" 1 Degree.

60 Geographical Miles make 1 Degree.

MEASURE OF SURFACE.

144 Square Inches make 1 Square Foot.
9 Square Feet " 1 Square Yard.
30¼ Square Yards " 1 Rod, Perch or Pole.
40 Square Rods " 1 Square Rood.
4 Square Roods " 1 Square Acre.
10 Square Chains " 1 Square Acre.
640 Square Acres " 1 Square Mile.
Gunter's Chain equal to 22 Yards or 100 Links.

MEASURE OF SOLIDITY.

1728 Cubic Inches make 1 Cubic Foot.
27 Cubic Feet " 1 Cubic Yard.

AVOIRDUPOIS WEIGHT.

27 11/32	Grains	make 1 Drachm (dr.)	or	27 11/32	Grains.
16	Drachms	" 1 Ounce (oz.)	or	437½	"
16	Ounces	" 1 Pound (lb.)	or	7000	"
28	Pounds	" 1 Quarter (qr.)			
4	Quarters	" 1 Hundred-Weight (cwt.)			
20	Cwts.	" 1 Ton.			

TROY WEIGHT.

24	Grains	make 1 Pennyweight,	or	24	Grains.
20	Pennywts.	" 1 Ounce,	or	480	"
12	Ounces	" 1 Pound,	or	5760	"

APOTHECARIES' WEIGHT.

20 Grains	make 1 Scruple.	8 Drachms	make 1 Ounce.
3 Scruples	" 1 Drachm.	12 Ounces	" 1 Pound.

DIAMOND WEIGHT.

16 Parts make 1 Grain (8-10ths Grain Troy.)
14 Grains " 1 Carat (3 1-5th Grains Troy.)

LIQUID MEASURE.

4 Gills	make 1 Pint.	2 Gallons	make 1 Peck.
2 Pints	" 1 Quart.	31½ Gallons	" 1 Barrel.
4 Quarts	" 1 Gallon.	54 Gallons	" 1 Hhd.

DRY MEASURE.

8 Quarts	make 1 Peck.	8 Bushels	make 1 Quarter.
4 Pecks	" 1 Bushel.	36 Bushels	" 1 Chaldron.

1 Bushel equal to 2815½ cubic in. nearly.

A Bushel of Wheat is on an average 60 lbs.; Barley or Buckwheat, 46 lbs.; Indian Corn or Rye, 56 lbs.; Oats, 30 lbs.; Salt, 70 lbs.; Potatoes, 60 lbs.; Peas, 64 lbs.; Beans, 63 lbs.; Clover Seed, 60 lbs.; Flax Seed, 56 lbs.; Timothy Seed, 50 lbs. 14 lbs. of Lead or Iron make 1 Stone; 21½ Stone, 1 Pig. 1 Bbl. of Flour contains 196 lbs.; Beef or Pork, 200 lbs. The Imperial Gallon is 10 lbs. avoirdupois of pure water; the Pint 1 1-4 lbs.

RATE OF INCOME ON INVESTMENTS,

Par value being $100, bearing interest at

Price Paid.	5%	6%	7%	8%	10%
$50	10.00	12.00	14.00	16.00	20.00
55	9.09	10.90	12.72	14.55	18.18
60	8.33	10.00	11.66	13.33	16.66
65	7.69	9.23	10.76	12.30	15.38
70	7.14	8.57	10.00	11.42	14.28
75	6.66	8.00	9.33	10.66	13.35
80	6.25	7.50	8.75	10.00	12.50
82½	6.06	7.27	8.48	9.69	12.12
85	5.88	7.05	8.23	9.41	11.76
87½	5.71	6.85	8.00	9.14	11.42
90	5.55	6.66	7.77	8.88	11.11
92½	5.40	6.48	7.56	8.64	10.80
95	5.26	6.31	7.36	8.42	10.52
96	5.20	6.25	7.29	8.33	10.41
97	5.15	6.18	7.21	8.24	10.30
97½	5.12	6.15	7.17	8.20	10.25
98	5.10	6.12	7.14	8.16	10.20
99	5.05	6.06	7.07	8.08	10.10
100	5.00	6.00	7.00	8.00	10.00
101	4.95	5.94	6.93	7.92	9.90
102	4.90	5.88	6.86	7.84	9.80
103	4.85	5.82	6.79	7.76	9.70
104	4.80	5.76	6.73	7.69	9.61
105	4.76	5.71	6.66	7.61	9.52
110	4.54	5.45	6.36	7.27	9.09
115	4.34	5.21	6.08	6.95	8.69
120	4.16	5.00	5.83	6.66	8.33
125	4.00	4.80	5.60	6.40	8.00
130	3.84	4.61	5.38	6.15	7.69
135	3.70	4.44	5.18	5.92	7.40
140	3.57	4.28	5.00	5.71	7.14
145	3.44	4.13	4.82	5.51	6.89
150	3.33	4.00	4.66	5.33	6.66

TO ASCERTAIN THE LENGTH OF THE DAY AND NIGHT.

At any time of the year add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising for the length of the day. Subtract the time of setting from 12 hours, and to the remainder add the time of rising next morning for the length of the night. These rules are equally true for apparent time.

INTEREST TABLE.

SIX PER CENT.

TIME.	$1	$2	$3	$4	$5	$6	$7	$8	$9	$10	$100	$1000
1 DAY.	0	0	0	0	0	0	0	0	0	0	2	17
2 "	0	0	0	0	0	0	0	0	0	0	3	33
3 "	0	0	0	0	0	0	0	0	0	1	5	50
4 "	0	0	0	0	0	0	0	1	1	1	7	67
5 "	0	0	0	0	0	1	1	1	1	1	8	83
6 "	0	0	0	0	1	1	1	1	1	1	10	1 00
7 "	0	0	0	0	1	1	1	1	1	1	12	1 17
8 "	0	0	0	1	1	1	1	1	1	1	13	1 33
9 "	0	0	0	1	1	1	1	1	1	2	15	1 50
10 "	0	0	1	1	1	1	1	1	2	2	17	1 67
11 "	0	0	1	1	1	1	1	1	2	2	18	1 83
12 "	0	0	1	1	1	1	1	2	2	2	20	2 00
13 "	0	0	1	1	1	1	2	2	2	2	22	2 17
14 "	0	0	1	1	1	1	2	2	2	2	23	2 33
15 "	0	1	1	1	1	2	2	2	2	3	25	2 50
16 "	0	1	1	1	1	2	2	2	2	3	27	2 67
17 "	0	1	1	1	1	2	2	2	3	3	28	2 83
18 "	0	1	1	1	2	2	2	2	3	3	30	3 00
19 "	0	1	1	1	2	2	2	3	3	3	32	3 17
20 "	0	1	1	1	2	2	2	3	3	3	33	3 33
21 "	0	1	1	1	2	2	2	3	3	4	35	3 50
22 "	0	1	1	1	2	2	3	3	3	4	37	3 67
23 "	0	1	1	2	2	2	3	3	3	4	38	3 83
24 "	0	1	1	2	2	2	3	3	4	4	40	4 00
25 "	0	1	1	2	2	3	3	3	4	4	42	4 17
26 "	0	1	1	2	2	3	3	3	4	4	43	4 33
27 "	0	1	1	2	2	3	3	4	4	5	45	4 50
28 "	0	1	1	2	2	3	3	4	4	5	47	4 67
29 "	0	1	1	2	2	3	3	4	4	5	48	4 83
1 MON.	1	1	2	2	3	3	4	4	5	5	50	5 00
2 "	1	2	3	4	5	6	7	8	9	10	1 00	10 00
3 "	2	3	5	6	8	9	11	12	14	15	1 50	15 00
4 "	2	4	6	8	10	12	14	16	18	20	2 00	20 00
5 "	3	5	8	10	13	15	18	20	23	25	2 50	25 00
6 "	3	6	9	12	15	18	21	24	27	30	3 00	30 00
7 "	4	7	11	14	18	21	25	28	32	35	3 50	35 00
8 "	4	8	12	16	20	24	28	32	36	40	4 00	40 00
9 "	5	9	14	18	23	27	32	36	41	45	4 50	45 00
10 "	5	10	15	20	25	30	35	40	45	50	5 00	50 00
11 "	6	11	17	22	28	33	39	44	50	55	5 50	55 00
1 YEAR.	6	12	18	24	30	36	42	48	54	60	6 00	60 00

EIGHT PER CENT.

TIME.	$1	$2	$3	$4	$5	$6	$7	$8	$9	$10	$100	$1000
4 DAYS.	0	0	0	0	0	1	1	1	1	1	9	89
8 "	0	0	1	1	1	1	2	2	2	3	18	1 78
12 "	0	1	1	1	1	2	2	2	3	3	27	2 67
16 "	0	1	1	1	2	2	2	3	3	4	36	3 56
20 "	0	1	1	2	2	3	3	4	4	4	44	4 44
24 "	1	1	2	2	3	3	4	4	5	5	53	5 33
28 "	1	1	2	2	3	4	4	5	5	6	62	6 22
1 MON.	1	1	2	3	3	4	5	5	6	7	67	6 67
2 "	1	3	4	5	7	8	9	11	12	13	1 33	13 33
3 "	2	4	6	8	10	12	14	16	18	20	2 00	20 00
4 "	3	5	8	11	13	16	19	21	24	27	2 67	26 67
5 "	3	7	10	13	17	20	23	27	30	33	3 33	33 33
6 "	4	8	12	16	20	24	28	32	36	40	4 00	40 00
7 "	5	9	14	19	23	28	33	37	42	47	4 67	46 67
8 "	5	11	16	21	27	32	37	43	48	53	5 33	53 33
9 "	6	12	18	24	30	36	42	48	54	60	6 00	60 00
10 "	7	13	20	27	33	40	47	53	60	67	6 67	66 67
11 "	7	15	22	29	37	44	51	59	66	73	7 33	73 33
1 YEAR.	8	16	24	32	40	48	56	64	72	80	8 00	80 00

INTEREST TABLE.

SEVEN PER CENT.

TIME.	$1	$2	$3	$4	$5	$6	$7	$8	$9	$10	$100	$1000
1 DAY.	0	0	0	0	0	0	0	0	0	0	2	19
2 "	0	0	0	0	0	0	0	0	0	0	4	39
3 "	0	0	0	0	0	0	0	0	0	1	6	58
4 "	0	0	0	0	0	0	1	1	1	1	8	78
5 "	0	0	0	0	0	1	1	1	1	1	10	97
6 "	0	0	0	0	1	1	1	1	1	1	12	1 17
7 "	0	0	0	1	1	1	1	1	1	1	14	1 36
8 "	0	0	0	1	1	1	1	1	1	2	16	1 56
9 "	0	0	1	1	1	1	1	1	2	2	18	1 75
10 "	0	0	1	1	1	1	1	2	2	2	19	1 94
11 "	0	0	1	1	1	1	1	2	2	2	21	2 14
12 "	0	0	1	1	1	1	2	2	2	2	23	2 33
13 "	0	1	1	1	1	2	2	2	2	3	25	2 53
14 "	0	1	1	1	1	2	2	2	2	3	27	2 72
15 "	0	1	1	1	1	2	2	2	3	3	29	2 92
16 "	0	1	1	1	2	2	2	2	3	3	31	3 11
17 "	0	1	1	1	2	2	2	3	3	3	33	3 31
18 "	0	1	1	1	2	2	2	3	3	4	35	3 50
19 "	0	1	1	1	2	2	3	3	3	4	37	3 69
20 "	0	1	1	2	2	2	3	3	4	4	39	3 89
21 "	0	1	1	2	2	2	3	3	4	4	41	4 08
22 "	0	1	1	2	2	3	3	3	4	4	43	4 28
23 "	0	1	1	2	2	3	3	4	4	4	45	4 47
24 "	0	1	1	2	2	3	3	4	4	5	47	4 67
25 "	0	1	1	2	2	3	3	4	4	5	49	4 86
26 "	1	1	2	2	3	3	4	4	5	5	51	5 06
27 "	1	1	2	2	3	3	4	4	5	5	53	5 25
28 "	1	1	2	2	3	3	4	4	5	5	54	5 44
29 "	1	1	2	2	3	3	4	5	5	6	56	5 64
1 MON.	1	1	2	2	3	4	4	5	5	6	58	5 83
2 "	1	2	4	5	6	7	8	9	11	12	1 17	11 67
3 "	2	4	5	7	9	11	12	14	16	18	1 75	17 50
4 "	2	5	7	9	12	14	16	19	21	23	2 33	23 33
5 "	3	6	9	12	15	18	20	23	26	29	2 92	29 17
6 "	4	7	11	14	18	21	25	28	32	35	3 50	35 00
7 "	4	8	12	16	20	25	29	33	37	41	4 08	40 83
8 "	5	9	14	17	23	28	33	37	42	47	4 67	46 67
9 "	5	11	16	21	26	32	37	42	47	53	5 25	52 50
10 "	6	12	18	23	29	35	41	47	53	58	5 83	58 33
11 "	6	13	19	26	32	39	45	51	58	64	6 42	64 17
1 YEAR.	7	14	21	28	35	42	49	56	63	70	7 00	70 00

TEN PER CENT.

TIME.	$1	$2	$3	$4	$5	$6	$7	$8	$9	$10	$100	$1000
4 DAYS.	0	0	0	0	1	1	1	1	1	1	11	1 11
8 "	0	0	1	1	1	1	2	2	2	2	22	2 22
12 "	0	1	1	1	2	2	2	3	3	3	33	3 33
16 "	0	1	1	2	2	3	3	4	4	4	44	4 44
20 "	1	1	2	2	3	3	4	4	5	5	56	5 56
24 "	1	1	2	3	3	4	5	5	6	7	67	6 67
28 "	1	2	2	3	4	5	5	6	7	8	78	7 78
1 MON.	1	2	3	3	4	5	6	7	8	8	83	8 33
2 "	2	3	5	7	8	10	12	13	15	17	1 67	16 67
3 "	3	5	8	10	12	15	18	20	23	25	2 50	25 00
4 "	3	7	10	13	17	20	23	27	30	33	3 33	33 33
5 "	4	8	13	17	21	25	29	33	38	42	4 17	41 67
6 "	5	10	15	20	25	30	35	40	45	50	5 00	50 00
7 "	6	12	18	23	29	35	41	47	53	58	5 83	58 33
8 "	7	13	20	27	33	40	47	53	60	67	6 67	66 67
9 "	8	15	23	30	38	45	53	60	68	75	7 50	75 00
10 "	8	17	25	33	42	50	58	67	75	83	8 33	83 33
11 "	9	18	28	37	46	55	64	73	83	92	9 17	91 67
1 YEAR.	10	20	30	40	50	60	70	80	90	$1	$10	$100

VALUES IN UNITED STATES MONEY

OF THE

PURE GOLD OR SILVER,

REPRESENTING RESPECTIVELY THE MONETARY UNITS AND STANDARD COINS OF FOREIGN COUNTRIES.

The first section of the Act of March 3, 1873, provides "that the value of foreign coin, as expressed in the money of account of the United States, shall be that of the pure metal of such coin of standard value," and that "the values of the standard coins in circulation of the various nations of the world shall be estimated annually by the Director of the Mint, and be proclaimed on the first day of January by the Secretary of the Treasury."

The estimates of values contained in the following table are those made by the Director of the Mint, January 1st, 1875, in compliance with the above stated provisions of law.

COUNTRY.	MONETARY UNIT.	STANDARD.	VALUE. D. C. M.
Argentine Repub.	Peso fuerte	Gold	1 00
Austria	Florin	Silver	0 45 3
Belgium	Franc	Gold & silv.	0 19 3
Bolivia	Dollar	Gold & silv.	0 96 5
Brazil	Milreis of 1000 reis.	Gold	0 54 5
British America	Dollar	Gold	1 00
Bogota	Peso	Gold	0 91 2
Central America	Dollar	Silver	0 91 8
Chili	Peso	Gold	0 91 2
Cuba	Peso	Gold	0 92 5
Denmark	Crown	Gold	0 26 8
Ecuador	Dollar	Silver	0 91 8
Egypt	Pound of 100 piast's.	Gold	4 97 4
France	Franc	Gold & silv.	0 19 3
Great Britain	Pound sterling	Gold	4 86 6½
Greece	Drachma	Gold & silv.	0 19 3
German Empire	Mark	Gold	0 23 8
Hayti	Dollar	Silver	0 95 2
India	Rupee of 16 annas	Silver	0 43 6
Italy	Lira	Gold & silv.	0 19 3
Japan	Yen	Gold	0 99 7
Liberia	Dollar	Gold	1 00
Mexico	Dollar	Silver	0 99 8
Netherlands	Florin	Silver	0 38 5
Norway	Crown	Gold	0 26 8
Paraguay	Peso	Gold	1 00
Peru	Dollar	Silver	0 91 8
Porto Rico	Peso	Gold	0 92 5
Portugal	Milreis of 1000 reis.	Gold	1 8 4
Russia	Roubl. of 100 cop'ks.	Silver	0 73 4
Sandwich Islands	Dollar	Gold	1 00
Spain	Peseta of 100 centim.	Gold & silv.	0 19 3
Sweden	Crown	Gold	0 26 8
Switzerland	Franc	Gold & silv.	0 19 3
Tripoli	Mahbub of 20 piast's	Silver	0 82 9
Tunis	Piaster of 16 caroubs	Silver	0 11 8
Turkey	Piaster	Gold	0 4 3
U.S. of Colombia	Peso	Silver	0 91 8
Uruguay	Patacon	Gold	0 94 9

VALUE OF

FOREIGN COINS

AS DETERMINED BY

U. S. MINT ASSAYS.

			D. C. M.
AUSTRIA	Gold,	Quadruple Ducat	9 13 2
	"	Ducat	2 28 3
	"	Sovereign (no lon'r coin'd)	6 75 4
	Silver,	Rix Dollar	1 0 2
BELGIUM	Gold,	Twenty-five Franc piece	4 82 5
	Silver,	Five Francs	0 96 5
	"	Two Francs	0 38 6
BOLIVIA	Gold,	Doubloon	15 50 3
BRAZIL	Silver,	Double Milreis	1 0 4
CEN. AMERICA	Gold,	Escudo	1 84 4
	"	Dollar	0 98 1
	"	Four Reals	0 48 8
CHILI	Gold,	Doubloon (before 1835)	15 50 3
	Silver,	Dollar	0 96 2
DENMARK	Gold,	Dble. Fred. or 10-Thaler	7 90 0
	Silver,	Rigsbank Daler	0 54 2
EGYPT	Silver,	Twenty Piasters	0 96 5
	"	Piaster (new)	0 4 0
FRANCE	Gold,	Twenty Francs	3 84 7
	Silver,	Five Francs	0 96 5
GERMAN EMPIRE	Silver,	Five Marks (new)	0 96 5
	"	Thaler (no longer coined)	0 71 5
GREAT BRITAIN	Gold,	Sovereign	4 86 6
	Silver,	Half Crown	0 56 3
	"	Shilling	0 22 5
	"	Sixpence	0 11 3
GREECE	Gold,	Twenty Drachmas	3 44 2
HINDOSTAN	Silver,	Rupee	0 45 7
ITALY	Gold,	Twenty Lire	3 84 7
	Silver,	Five Lire	0 96 0
JAPAN	Gold,	Twenty Yen (new)	19 94 4
	"	Chobang (obsolete)	3 57 6
	Silver,	Fifty Sen	0 42 8
MEXICO	Gold,	Doubloon (average)	15 59 3
NETHERLANDS	Gold,	Ducat	2 26 5
	"	Ten Guilders	3 99 7
	Silver,	Two-and-a-half Guilders	1 1 2
	"	Guilder	0 40 5
NEW GRANADA	Silver,	Dollar, usual weight	0 96 0
NORWAY	Silver,	Specie Daler	1 8 4
PERU	Silver,	Old Dollar	1 4 3
	"	Dollar (1858)	0 92 8
	"	Half Dollar (1838)	0 37 5
	"	Sol	0 96 0
PORTUGAL	Gold,	Crown	5 80 7
	Silver,	Crown of 1000 Reis	0 97 2
	"	Half Crown (500 Reis)	0 48 6
RUSSIA	Gold,	Five Roubles	3 97 6
	Silver,	Rouble	0 77 8
SPAIN	Gold,	Ten Escudos	5 1 5
	"	One Hundred Reals	4 96 4
	Silver,	One Peseta	0 19 3
	"	Pistareen (4 Reals Vellon)	0 17 8
SWEDEN	Gold,	Five Pesetas (Dollar)	0 96 0
	Silver,	Half Daler	0 52 0
	"	Rixdaler	0 27 3
TURKEY	Gold,	Hundred Piasters	4 37 0
	"	Twenty Piasters (new)	0 85 2

RATES OF POSTAGE.

POSTAL CARDS, costing 1 cent each, on which short communications may be written, can be purchased at any Post Office, and sent to any part of the United States or Dominion of Canada.

LETTERS TO ANY PART OF THE UNITED STATES or DOMINION OF CANADA, 3 cents for each 1-2 ounce or part thereof.— DROP LETTERS, 2 cents for each 1-2 ounce, at all letter-carrier offices; at other offices, 1 cent. — VALUABLE LETTERS may be registered on application at the office of mailing, and the payment of a registration fee of 8 cents on domestic letters. Fees on foreign letters variable.

TRANSIENT NEWSPAPERS, Periodicals, Pamphlets, Proof Sheets, Books, Book Manuscripts, Circulars, Engravings, Blanks, Articles of Merchandise, Seeds, Cuttings, Bulbs, Roots, and other mailable matter, 1 cent for each 2 ounces or part thereof.— Newspaper, Magazine, and Music Manuscripts are subject to letter postage.

NEWSPAPERS AND PERIODICALS, mailed from a known office of publication or news agency, and addressed to regular subscribers or news agents, issued weekly and oftener, two cents a pound and fraction thereof; less frequently, three cents a pound and fraction thereof. One copy of a newspaper to each actual subscriber within the County where the same is wholly or partly printed and published, FREE, except at letter carrier offices.

ALL PACKAGES of mail matter not charged with letter postage must be so arranged that the same can be conveniently examined by Postmasters; if not, letter postage will be charged. — No package will be forwarded by mail which weighs over 4 pounds.

ALL POSTAL MATTER, for delivery within the United States and Dominion of Canada, must be prepaid by stamps.

LETTERS TO GREAT BRITAIN OR IRELAND, 6 cents for each 1-2 ounce. Prepayment optional, but subject to a fine of 6 cents in addition to postage, if wholly or partly unpaid.

LETTERS TO FRANCE, 9 cents for each 1-2 ounce. Prepayment optional.

LETTERS TO GERMANY, direct, 6 cents; by closed mail, via England, 7 cents for each 1-2 ounce. Prepayment optional. Double rates if unpaid.

POSTAL CARDS may be sent to Germany or Switzerland by adding a 1-cent postage stamp.

LETTERS TO OTHER FOREIGN COUNTRIES vary in rate according to the route by which they are sent, and the proper information can be obtained of any Postmaster in the United States.

MONEY ORDERS.

MONEY ORDER POST OFFICES are established in most of the large cities and towns, at which orders can be obtained upon any other office at the following rates of commission:

On orders not exceeding	$10,	. . .	5 cents.		
Over $10	"	"	$20,	. . .	10 "
" $20	"	"	$30,	. . .	15 "
" $30	"	"	$40,	. . .	20 "
" $40	"	"	$50,	. . .	25 "

No single order issued for more than $50. Parties desiring to remit a larger sum must obtain additional money orders.

FESTIVALS AND FASTS FOR 1876.

Epiphany	Jan'y 6
Septuagesima Sunday	Feb'y 13
Quinquagesima — Shrove Sunday	Feb'y 27
Ash Wednesday	March 1
First Sunday in Lent	March 5
St. Patrick	Mar. 17
Palm Sunday	April 9
Good Friday	April 14
Easter Sunday	April 16
Low Sunday	April 23
St. George	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
St. Thomas	Dec. 21
Christmas Day	Dec. 25

MORNING AND EVENING STARS.

MERCURY will be Evening Star about January 28th, May 21st, and September 17th; and Morning Star about March 10th, July 8th, and October 28th.

VENUS will be Evening Star till July 14th, and Morning Star the rest of the year.

JUPITER will be Morning Star till May 17th, then Evening Star till December 4th; and Morning Star again the rest of the year.

THE SEASONS.

Spring begins	March	20d.	1h.	2m. A.M.
Summer "	June	20d.	9h.	23m. P.M.
Autumn "	Sept.	22d.	11h.	33m. A.M.
Winter "	Dec.	21d.	5h.	46m. A.M.

Given in Washington time.

ECLIPSES IN THE YEAR 1876.

In the year 1876 there will be four eclipses; two of the Sun, and two of the Moon.

I. A Partial Eclipse of the Moon, night of March 9–10. Visible to the world generally, except to Asia and Australia; occurring as follows:

	N. York.	Boston.	Chicago.
Enters Penumbra.	9 11 1 A.	9 11 13 A.	9 10 7 A.
Enters Shadow...	10 0 25 M.	10 0 37 M.	9 11 31 A.
Middle of Eclipse.	10 1 25 M.	10 1 37 M.	10 0 31 M.
Leaves Shadow...	10 2 25 M.	10 2 37 M.	10 1 31 M.
Leaves Penumbra.	10 3 49 M.	10 4 1 M.	10 2 55 M.

Magnitude of Eclipse = 0.298; (Moon's diameter = 1.)

II. An Annular Eclipse of the Sun, March 25th. Visible to North America and Northern Pacific Ocean. To Vancouver Island, it will be nearly central and annular. To the following places it will be visible, at the times given, as a partial Eclipse only:

	Eclipse begins.	Eclipse ends.
Boston	25d. 4h. 14m. A.	25d. 5h. 52m. A.
New York . . .	25d. 4h. 0m. A.	25d. 5h. 38m. A.
Chicago	25d. 2h. 45m. A.	25d. 4h. 38m. A.
Philadelphia . .	25d. 3h. 57m. A.	25d. 5h. 31m. A.
Washington . .	25d. 3h. 50m. A.	25d. 5h. 21m. A.
Charleston . . .	25d. 3h. 48m. A.	25d. 4h. 43m. A.
New Orleans . .	25d. 2h. 58m. A.	25d. 3h. 43m. A.
St. Louis . . .	25d. 2h. 34m. A.	25d. 4h. 22m. A.
Denver	25d. 0h. 51m. A.	25d. 3h. 13m. A.
Salt Lake . . .	25d. 0h. 12m. A.	25d. 2h. 48m. A.

III. A Partial Eclipse of the Moon, September 3d; invisible. Visible to the world generally, except to North America and Pacific Ocean.

IV. A Total Eclipse of the Sun, September 18th; invisible. Visible to Australia and Southern Pacific Ocean.

CHRONOLOGICAL CYCLES, 1876.

Dominical Letters	B.A.
Epact	4
Lunar Cycle or Golden Number	15
Solar Cycle	9
Roman Indiction	4
Julian Period	6589



Moon's Phases.	Day.	Boston. H. M.	New York. H. M.
First Quarter..	4	10 40 A. M.	10 28 A. M.
Full Moon.....	11	1 39 A. M.	1 27 A. M.
Last Quarter...	18	4 5 A. M.	3 53 A. M.
New Moon.....	26	8 58 A. M.	8 46 A. M.

Day of Mo.	Day of W'k.	Boston. Sun R.&S. H. M.	Boston. Moon R.&S. H. M.	Boston. High Tide. H. M.	New York. Sun R.&S. H. M.	New York. Moon R.&S. H. M.	New York. High Tide. H. M.
1	Sa.	r7 30	9 32	2 26	r7 25	9 34	11 29
2	☽	s4 39	10 39	3 5	s4 44	10 40	.....
3	Mo.	r7 30	11 47	3 47	r7 25	11 46	0 33
4	Tu.	s4 41	morn.	4 32	s4 46	morn.	1 19
5	We.	r7 30	0 58	5 24	r7 25	0 56	2 10
6	Th.	s4 43	2 13	6 20	s4 48	2 9	3 6
7	Fr.	r7 30	3 33	7 26	r7 25	3 28	4 11
8	Sa.	s4 45	4 54	8 35	s4 50	4 48	5 20
9	☽	r7 29	6 11	9 43	r7 24	6 4	6 29
10	Mo.	s4 47	7 19	10 48	s4 52	7 12	7 32
11	Tu.	r7 29	rises.	11 44	r7 24	rises.	8 27
12	We.	s4 49	6 35	0 11	s4 54	6 39	9 25
13	Th.	r7 28	7 53	1 3	r7 23	7 56	10 12
14	Fr.	s4 51	9 7	1 50	s4 56	9 9	10 54
15	Sa.	r7 27	10 17	2 34	r7 23	10 17	11 38
16	☽	s4 54	11 24	3 15	s4 58	11 23	0 0
17	Mo.	r7 26	morn.	3 57	r7 22	morn.	0 44
18	Tu.	s4 56	0 30	4 42	s5 1	0 27	1 29
19	We.	r7 25	1 35	5 32	r7 21	1 31	2 18
20	Th.	s4 59	2 40	6 27	s5 3	2 35	3 12
21	Fr.	r7 24	3 44	7 23	r7 20	3 38	4 8
22	Sa.	s5 1	4 45	8 20	s5 5	4 38	5 4
23	☽	r7 23	5 41	9 16	r7 18	5 34	6 1
24	Mo.	s5 3	6 30	10 8	s5 8	6 23	6 54
25	Tu.	r7 21	sets.	10 56	r7 17	sets.	7 40
26	We.	s5 6	5 10	11 39	s5 10	5 15	8 21
27	Th.	r7 20	6 18	.....	r7 15	6 22	9 5
28	Fr.	s5 8	7 25	0 39	s5 12	7 27	9 45
29	Sa.	r7 18	8 32	1 17	r7 14	8 33	10 20
30	☽	s5 11	9 40	1 55	s5 15	9 40	10 56
31	Mo.	r7 16	10 49	2 34	r7 12	10 47	11 37



MOON'S PHASES.		BOSTON.		NEW YORK.	
	DAY.	H.	M.	H.	M.
First Quarter.	2	9	P.M.	8	57 P.M.
Full Moon.....	9	1	3 P.M.	0	51 P.M.
Last Quarter..	17	0	12 A.M.	0	0 A.M.
New Moon.....	25	1	36 A.M.	1	24 A.M.

Day of Mo.	Day of W'k.	BOSTON. Sun R.&S. H. M.	BOSTON. Moon R.&S. H. M.	BOSTON. High Tide. H. M.	NEW YORK. Sun R.&S. H. M.	NEW YORK. Moon R.&S. H. M.	NEW YORK. High Tide. H. M.
1	Tu.	r7 15	MORN.	3 14	r7 11	11 58	.....
2	We.	s5 15	0 1	3 59	s5 18	MORN.	0 46
3	Th.	r7 13	1 17	4 53	r7 9	1 12	1 40
4	Fr.	s5 18	2 35	5 59	s5 21	2 29	2 45
5	Sa.	r7 10	3 51	7 12	r7 7	3 44	3 57
6	S	s5 20	5 1	8 26	s5 23	4 53	5 10
7	Mo.	r7 8	6 0	9 37	r7 5	5 53	6 23
8	Tu.	s5 23	6 46	10 38	s5 26	6 40	7 23
9	We.	r7 6	RISES.	11 30	r7 2	RISES.	8 12
10	Th.	s5 25	6 42	.....	s5 28	6 44	9 1
11	Fr.	r7 3	7 54	0 37	r7 0	7 55	9 44
12	Sa.	s5 28	9 4	1 18	s5 31	9 3	10 22
13	S	r7 0	10 12	1 57	r6 58	10 10	10 59
14	Mo.	s5 31	11 19	2 36	s5 33	11 12	11 40
15	Tu.	r6 58	MORN.	3 16	r6 55	MORN.	0 2
16	We.	s5 33	0 26	4 0	s5 36	0 21	0 47
17	Th.	r6 55	1 32	4 50	r6 53	1 26	1 37
18	Fr.	s5 36	2 35	5 48	s5 38	2 28	2 33
19	Sa.	r6 52	3 34	6 49	r6 50	3 27	3 35
20	S	s5 38	4 26	7 50	s5 40	4 19	4 35
21	Mo.	r6 49	5 10	8 49	r6 47	5 3	5 33
22	Tu.	s5 41	5 46	9 42	s5 43	5 40	6 28
23	We.	r6 46	6 16	10 30	r6 44	6 11	7 15
24	Th.	s5 43	SETS.	11 13	s5 45	SETS.	7 56
25	Fr.	r6 43	6 20	11 51	r6 41	6 22	8 34
26	Sa.	s5 46	7 29	0 9	s5 48	7 29	9 13
27	S	r6 40	8 39	0 46	r6 38	8 38	9 52
28	Mo.	s5 48	9 52	1 25	s5 50	9 49	10 29
29	Tu.	r6 37	11 8	2 5	r6 35	11 4	11 9
..	....	.....	.....	.....	.....	.....	.....
..	....	.....	.....	.....	.....	.....	.....



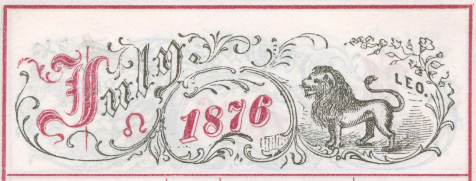
MOON'S PHASES.		BOSTON.		NEW YORK.	
	DAY.	H.	M.	H.	M.
First Quarter..	3	5	4 A.M.	4	52 A.M.
Full Moon.....	10	1	28 A.M.	1	16 A.M.
Last Quarter...	17	8	40 P.M.	8	28 P.M.
New Moon.....	25	3	28 P.M.	3	16 P.M.

Day of Mo.	Day of W'k.	BOSTON. Sun R.&S. H. M.	BOSTON. Moon R.&S. H. M.	BOSTON. High Tide. H. M.	NEW YORK. Sun R.&S. H. M.	NEW YORK. Moon R.&S. H. M.	NEW YORK. High Tide. H. M.
1	We.	r6 35	MORN.	2 50	r6 34	MORN.	11 59
2	Th.	s5 52	0 25	3 40	s5 53	0 19	0 26
3	Fr.	r6 32	1 41	4 40	r6 31	1 34	1 27
4	Sa.	s5 54	2 51	5 53	s5 55	2 43	2 39
5	S	r6 28	3 52	7 9	r6 28	3 45	3 54
6	Mo.	s5 57	4 41	8 23	s5 57	4 35	5 7
7	Tu.	r6 25	5 18	9 26	r6 24	5 13	6 12
8	We.	s5 59	5 47	10 21	s6 0	5 43	7 7
9	Th.	r6 22	RISES.	11 7	r6 21	RISES.	7 50
10	Fr.	s6 1	6 44	11 46	s6 2	6 44	8 29
11	Sa.	r6 18	7 52	0 5	r6 18	7 51	9 10
12	S	s6 4	9 0	0 43	s6 4	8 47	9 48
13	Mo.	r6 15	10 9	1 21	r6 15	10 5	10 25
14	Tu.	s6 6	11 17	2 0	s6 6	11 12	11 3
15	We.	r6 12	MORN.	2 42	r6 11	MORN.	11 48
16	Th.	s6 8	0 22	3 27	s6 8	0 16	0 12
17	Fr.	r6 8	1 22	4 17	r6 8	1 15	1 4
18	Sa.	s6 10	2 17	5 15	s6 11	2 9	2 2
19	S	r6 5	3 5	6 18	r6 5	2 58	3 4
20	Mo.	s6 13	3 45	7 19	s6 13	3 39	4 4
21	Tu.	r6 1	4 17	8 18	r6 1	4 12	5 3
22	We.	s6 15	4 43	9 10	s6 15	4 39	5 55
23	Th.	r5 58	5 6	9 56	r5 58	5 3	6 42
24	Fr.	s6 17	5 26	10 39	s6 17	5 25	7 24
25	Sa.	r5 54	SETS.	11 18	r5 55	SETS.	8 0
26	S	s6 19	7 36	11 57	s6 19	7 34	8 41
27	Mo.	r5 51	8 53	0 17	r5 51	8 49	9 24
28	Tu.	s6 22	10 11	0 59	s6 21	10 6	10 6
29	We.	r5 47	11 30	1 44	r5 48	11 24	10 52
30	Th.	s6 24	MORN.	2 36	s6 23	MORN.	11 47
31	Fr.	r5 44	0 44	3 33	r5 45	0 37	0 19



MOON'S PHASES.	DAY.	BOSTON. H. M.	NEW YORK. H. M.
FULL MOON.....	6	7 53 P. M.	7 41 P. M.
LAST QUARTER...	14	10 30 P. M.	10 18 P. M.
NEW MOON.....	21	5 33 P. M.	5 21 P. M.
FIRST QUARTER..	28	10 30 A. M.	10 18 A. M.

Day of Mo.	Day of W'k.	BOSTON. Sun R.&S. H. M.	BOSTON. Moon R.&S. H. M.	BOSTON. High Tide. H. M.	NEW YORK. Sun R.&S. H. M.	NEW YORK. Moon R.&S. H. M.	NEW YORK. High Tide. H. M.
1	TH.	r4 25	1 29	7 1	r4 31	1 30	3 46
2	FR.	s7 31	1 48	7 52	s7 26	1 50	4 37
3	SA.	r4 25	2 9	8 41	r4 30	2 12	5 26
4	♋	s7 32	2 33	9 28	s7 27	2 37	6 14
5	MO.	r4 24	3 1	10 14	r4 29	3 7	7 0
6	TU.	s7 34	RISES.	11 0	s7 28	RISES.	7 43
7	WE.	r4 23	8 47	11 43	r4 29	8 40	8 25
8	TH.	s7 35	9 34	0 4	s7 29	9 27	9 12
9	FR.	r4 23	10 13	0 47	r4 28	10 7	9 56
10	SA.	s7 36	10 45	1 32	s7 30	10 40	10 37
11	♋	r4 22	11 12	2 16	r4 28	11 8	11 19
12	MO.	s7 37	11 35	2 57	s7 31	11 32	.....
13	TU.	r4 22	11 55	3 40	r4 28	11 53	0 25
14	WE.	s7 38	MORN.	4 22	s7 32	MORN.	1 9
15	TH.	r4 22	0 14	5 10	r4 28	0 14	1 56
16	FR.	s7 38	0 32	6 1	s7 33	0 33	2 47
17	SA.	r4 22	0 53	6 55	r4 28	0 55	3 41
18	♋	s7 39	1 19	7 54	s7 34	1 23	4 38
19	MO.	r4 23	1 51	8 54	r4 28	1 56	5 39
20	TU.	s7 40	2 33	9 57	s7 34	2 39	6 43
21	WE.	r4 23	SETS.	10 58	r4 29	SETS.	7 42
22	TH.	s7 40	9 4	11 56	s7 35	8 57	8 40
23	FR.	r4 24	9 49	0 24	r4 29	9 44	9 39
24	SA.	s7 40	10 23	1 20	s7 35	10 19	10 30
25	♋	r4 24	10 50	2 12	r4 30	10 47	11 19
26	MO.	s7 40	11 13	3 1	s7 35	11 12	.....
27	TU.	r4 25	11 33	3 47	r4 31	11 33	0 33
28	WE.	s7 40	11 53	4 35	s7 35	11 55	1 22
29	TH.	r4 26	MORN.	5 25	r4 31	MORN.	2 11
30	FR.	s7 40	0 13	6 18	s7 35	0 16	3 4
..	....	.....	.....	.....	.....	.....	.....



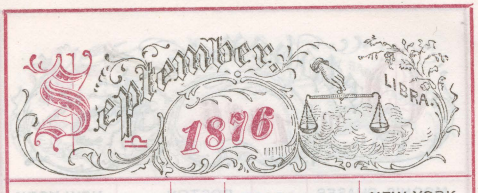
MOON'S PHASES.	DAY.	BOSTON. H. M.	NEW YORK. H. M.
FULL MOON.....	6	10 54 A. M.	10 42 A. M.
LAST QUARTER...	14	9 12 A. M.	9 0 A. M.
NEW MOON.....	20	.....	11 57 P. M.
NEW MOON.....	21	0 9 A. M.	....
FIRST QUARTER..	27	10 35 P. M.	10 23 P. M.

Day of Mo.	Day of W'k.	BOSTON. Sun R.&S. H. M.	BOSTON. Moon R.&S. H. M.	BOSTON. High Tide. H. M.	NEW YORK. Sun R.&S. H. M.	NEW YORK. Moon R.&S. H. M.	NEW YORK. High Tide. H. M.
1	SA.	r4 27	0 35	7 12	r4 32	0 39	3 57
2	♋	s7 40	1 2	8 6	s7 34	1 7	4 50
3	MO.	r4 28	1 35	8 59	r4 33	1 41	5 44
4	TU.	s7 40	2 15	9 51	s7 34	2 22	6 37
5	WE.	r4 29	3 2	10 40	r4 35	3 9	7 25
6	TH.	s7 39	RISES.	11 26	s7 33	RISES.	8 8
7	FR.	r4 30	8 48	.....	r4 36	8 42	8 52
8	SA.	s7 38	9 16	0 28	s7 33	9 11	9 34
9	♋	r4 32	9 39	1 8	r4 38	9 36	10 13
10	MO.	s7 37	9 59	1 48	s7 32	9 57	10 50
11	TU.	r4 33	10 18	2 25	r4 39	10 17	11 26
12	WE.	s7 36	10 37	3 3	s7 31	10 38	.....
13	TH.	r4 35	10 56	3 43	r4 40	10 58	0 29
14	FR.	s7 35	11 19	4 27	s7 30	11 22	1 14
15	SA.	r4 36	11 47	5 19	r4 41	11 52	2 6
16	♋	s7 34	MORN.	6 20	s7 29	MORN.	3 5
17	MO.	r4 38	0 23	7 26	r4 43	0 29	4 11
18	TU.	s7 32	1 9	8 38	s7 28	1 16	5 23
19	WE.	r4 40	2 10	9 47	r4 45	2 17	6 33
20	TH.	s7 31	SETS.	10 51	s7 26	SETS.	7 35
21	FR.	r4 42	8 19	11 48	r4 46	8 14	8 31
22	SA.	s7 29	8 48	0 13	s7 25	8 45	9 24
23	♋	r4 44	9 13	1 2	r4 48	9 11	10 10
24	MO.	s7 28	9 36	1 47	s7 23	9 36	10 51
25	TU.	r4 45	9 56	2 30	r4 50	9 57	11 34
26	WE.	s7 26	10 16	3 12	s7 21	10 18	.....
27	TH.	r4 47	10 39	3 55	r4 52	10 43	0 42
28	FR.	s7 23	11 5	4 43	s7 19	11 10	1 30
29	SA.	r4 49	11 35	5 37	r4 54	11 41	2 23
30	♋	s7 21	MORN.	6 35	s7 17	MORN.	3 21
31	MO.	r4 51	0 12	7 36	r4 56	0 19	4 21



MOON'S PHASES.	DAY.	BOSTON. H. M.	NEW YORK. H. M.
FULL MOON.....	5	1 54 A. M.	1 42 A. M.
LAST QUARTER...	12	5 15 P. M.	5 3 P. M.
NEW MOON.....	19	7 42 A. M.	7 30 A. M.
FIRST QUARTER..	26	1 34 P. M.	1 22 P. M.

Day of Mo.	Day of W'k.	BOSTON. SUN R.&S. H. M.	BOSTON. MOON R.&S. H. M.	BOSTON. HIGH TIDE. H. M.	NEW YORK. SUN R.&S. H. M.	NEW YORK. MOON R.&S. H. M.	NEW YORK. HIGH TIDE. H. M.
1	TU.	r4 52	0 57	8 35	r4 57	1 4	5 20
2	WE.	s7 18	1 51	9 28	s7 14	1 58	6 14
3	TH.	r4 54	2 52	10 19	r4 58	2 58	7 5
4	FR.	s7 15	RISES.	11 4	s7 12	RISES.	7 47
5	SA.	r4 57	7 45	11 44	r5 0	7 41	8 26
6	♌	s7 13	8 6	0 3	s7 9	8 4	9 7
7	MO.	r4 59	8 25	0 40	r5 2	8 24	9 44
8	TU.	s7 10	8 43	1 16	s7 7	8 43	10 19
9	WE.	r5 1	9 2	1 52	r5 4	9 3	10 54
10	TH.	s7 8	9 24	2 30	s7 4	9 27	11 32
11	FR.	r5 3	9 49	3 10	r5 6	9 53	.....
12	SA.	s7 5	10 20	3 55	s7 1	10 25	0 43
13	♌	r5 5	11 0	4 52	r5 8	11 7	1 39
14	MO.	s7 2	11 52	6 0	s6 59	11 59	2 46
15	TU.	r5 7	MORN.	7 16	r5 10	MORN.	4 1
16	WE.	s6 59	0 59	8 32	s6 56	1 6	5 17
17	TH.	r5 9	2 18	9 40	r5 12	2 24	6 26
18	FR.	s6 56	3 42	10 39	s6 53	3 47	7 24
19	SA.	r5 11	SETS.	11 30	r5 14	SETS.	8 13
20	♌	s6 53	7 36	.....	s6 50	7 35	8 59
21	MO.	r5 14	7 57	0 35	r5 16	7 57	9 42
22	TU.	s6 50	8 19	1 16	s6 47	8 21	10 21
23	WE.	r5 16	8 41	1 56	r5 18	8 44	10 59
24	TH.	s6 47	9 5	2 38	s6 44	9 10	11 42
25	FR.	r5 18	9 34	3 20	r5 20	9 40	0 5
26	SA.	s6 43	10 9	4 7	s6 41	10 16	0 54
27	♌	r5 20	10 52	5 2	r5 22	10 59	1 48
28	MO.	s6 40	11 43	6 3	s6 38	11 50	2 49
29	TU.	r5 22	MORN.	7 7	r5 24	MORN.	3 52
30	WE.	s6 37	0 41	8 7	s6 35	0 48	4 51
31	TH.	r5 24	1 44	9 2	r5 26	1 50	5 47



MOON'S PHASES.	DAY.	BOSTON. H. M.	NEW YORK. H. M.
FULL MOON.....	3	4 29 P. M.	4 17 P. M.
LAST QUARTER...	10	11 37 P. M.	11 25 P. M.
NEW MOON.....	17	5 10 P. M.	4 58 P. M.
FIRST QUARTER..	25	7 19 A. M.	7 7 A. M.

Day of Mo.	Day of W'k.	BOSTON. SUN R.&S. H. M.	BOSTON. MOON R.&S. H. M.	BOSTON. HIGH TIDE. H. M.	NEW YORK. SUN R.&S. H. M.	NEW YORK. MOON R.&S. H. M.	NEW YORK. HIGH TIDE. H. M.
1	FR.	r5 25	2 49	9 52	r5 27	2 54	6 38
2	SA.	s6 32	3 56	10 35	s6 30	4 0	7 20
3	♍	r5 27	RISES.	11 15	r5 29	RISES.	7 57
4	MO.	s6 28	6 50	11 50	s6 27	6 50	8 33
5	TU.	r5 29	7 9	0 7	r5 31	7 10	9 11
6	WE.	s6 25	7 29	0 43	s6 24	7 31	9 48
7	TH.	r5 32	7 52	1 21	r5 33	7 56	10 26
8	FR.	s6 22	8 21	2 2	s6 20	8 26	11 7
9	SA.	r5 34	8 58	2 48	r5 35	9 4	11 57
10	♍	s6 18	9 46	3 39	s6 17	9 53	0 26
11	MO.	r5 36	10 46	4 42	r5 37	10 54	1 29
12	TU.	s6 14	11 58	5 55	s6 14	MORN.	2 41
13	WE.	r5 38	MORN.	7 12	r5 39	0 5	3 57
14	TH.	s6 11	1 17	8 24	s6 10	1 23	5 9
15	FR.	r5 40	2 39	9 26	r5 41	2 43	6 11
16	SA.	s6 7	3 58	10 18	s6 7	4 1	7 4
17	♍	r5 42	SETS.	11 5	r5 43	SETS.	7 47
18	MO.	s6 4	6 21	11 44	s6 4	6 22	8 27
19	TU.	r5 44	6 42	0 3	r5 45	6 45	9 9
20	WE.	s6 0	7 5	0 43	s6 0	7 9	9 50
21	TH.	r5 46	7 33	1 24	r5 47	7 38	10 29
22	FR.	s5 57	8 7	2 6	s5 57	8 13	11 11
23	SA.	r5 49	8 47	2 51	r5 49	8 54	11 59
24	♍	s5 53	9 34	3 39	s5 54	9 42	0 25
25	MO.	r5 51	10 29	4 34	r5 51	10 36	1 21
26	TU.	s5 50	11 30	5 33	s5 50	11 36	2 19
27	WE.	r5 53	MORN.	6 35	r5 53	MORN.	3 21
28	TH.	s5 46	0 35	7 33	s5 47	0 40	4 18
29	FR.	r5 55	1 41	8 26	r5 55	1 45	5 10
30	SA.	s5 43	2 47	9 14	s5 43	2 50	6 0
..	....	.....	.....	.....	.....	.....	.....



MOON'S PHASES.	DAY.	BOSTON. H. M.	NEW YORK. H. M.
FULL MOON.....	3	6 12 A. M.	6 0 A. M.
LAST QUARTER...	10	5 36 A. M.	5 24 A. M.
NEW MOON.....	17	5 13 A. M.	5 1 A. M.
FIRST QUARTER..	25	3 10 A. M.	2 58 A. M.

Day of Mo.	Day of W'k.	BOSTON. Sun R.&S. H. M.	BOSTON. Moon R.&S. H. M.	BOSTON. High Tide. H. M.	NEW YORK. Sun R.&S. H. M.	NEW YORK. Moon R.&S. H. M.	NEW YORK. High Tide. H. M.
1	S	r5 57	3 53	9 58	r5 57	3 55	6 44
2	MO.	s5 39	4 59	10 39	s5 40	4 59	7 24
3	TU.	r6 0	RISES.	11 18	r5 59	RISES.	8 0
4	WE.	s5 36	5 56	11 55	s5 37	5 59	8 39
5	TH.	r6 2	6 24	0 15	r6 1	6 29	9 22
6	FR.	s5 33	6 59	0 57	s5 33	7 5	10 6
7	SA.	r6 4	7 44	1 45	r6 3	7 51	10 54
8	S	s5 29	8 40	2 37	s5 30	8 48	11 50
9	MO.	r6 6	9 48	3 35	r6 5	9 55	0 21
10	TU.	s5 26	11 4	4 41	s5 27	11 10	1 28
11	WE.	r6 9	MORN.	5 53	r6 7	MORN.	2 38
12	TH.	s5 23	0 22	7 1	s5 24	0 27	3 47
13	FR.	r6 11	1 40	8 5	r6 9	1 43	4 50
14	SA.	s5 19	2 55	9 0	s5 21	2 57	5 45
15	S	r6 14	4 8	9 47	r6 11	4 8	6 34
16	MO.	s5 16	5 19	10 32	s5 18	5 18	7 17
17	TU.	r6 16	SETS.	11 14	r6 14	SETS.	7 56
18	WE.	s5 13	5 33	11 53	s5 15	5 38	8 36
19	TH.	r6 18	6 3	0 13	r6 16	6 9	9 21
20	FR.	s5 10	6 40	0 56	s5 12	6 47	10 3
21	SA.	r6 20	7 25	1 40	r6 18	7 32	10 47
22	S	s5 7	8 18	2 28	s5 9	8 25	11 35
23	MO.	r6 23	9 18	3 15	r6 20	9 25	0 0
24	TU.	s5 4	10 21	4 5	s5 6	10 27	0 52
25	WE.	r6 25	11 25	5 0	r6 23	11 30	1 46
26	TH.	s5 1	MORN.	5 55	s5 4	MORN.	2 41
27	FR.	r6 28	0 30	6 50	r6 25	0 33	3 35
28	SA.	s4 58	1 35	7 40	s5 1	1 37	4 25
29	S	r6 30	2 41	8 29	r6 27	2 42	5 13
30	MO.	s4 56	3 48	9 15	s4 59	3 47	6 1
31	TU.	r6 33	4 58	10 0	r6 30	4 56	6 46



MOON'S PHASES.	DAY.	BOSTON. H. M.	NEW YORK. H. M.
FULL MOON.....	1	6 47 P. M.	6 35 P. M.
LAST QUARTER...	8	0 33 P. M.	0 21 P. M.
NEW MOON.....	15	8 4 P. M.	7 52 P. M.
FIRST QUARTER..	23	11 42 P. M.	11 30 P. M.

Day of Mo.	Day of W'k.	BOSTON. Sun R.&S. H. M.	BOSTON. Moon R.&S. H. M.	BOSTON. High Tide. H. M.	NEW YORK. Sun R.&S. H. M.	NEW YORK. Moon R.&S. H. M.	NEW YORK. High Tide. H. M.
1	WE.	r6 34	6 11	10 46	r6 31	6 8	7 30
2	TH.	s4 52	RISES.	11 30	s4 55	RISES.	8 12
3	FR.	r6 36	5 38	.....	r6 33	5 45	9 4
4	SA.	s4 49	6 31	0 43	s4 53	6 38	9 55
5	S	r6 39	7 39	1 37	r6 36	7 46	10 49
6	MO.	s4 47	8 55	2 35	s4 50	9 1	11 48
7	TU.	r6 41	10 13	3 33	r6 38	10 18	0 19
8	WE.	s4 45	11 30	4 35	s4 48	11 34	1 21
9	TH.	r6 44	MORN.	5 37	r6 41	MORN.	2 23
10	FR.	s4 43	0 44	6 37	s4 46	0 46	3 22
11	SA.	r6 46	1 56	7 34	r6 43	1 57	4 18
12	S	s4 41	3 6	8 26	s4 44	3 5	5 10
13	MO.	r6 49	4 16	9 15	r6 45	4 14	6 1
14	TU.	s4 39	5 26	10 1	s4 43	5 22	6 47
15	WE.	r6 52	6 35	10 45	r6 47	6 30	7 30
16	TH.	s4 37	SETS.	11 29	s4 41	SETS.	8 11
17	FR.	r6 54	5 19	.....	r6 50	5 26	8 57
18	SA.	s4 35	6 9	0 34	s4 40	6 16	9 43
19	S	r6 56	7 6	1 19	r6 52	7 13	10 27
20	MO.	s4 34	8 8	2 5	s4 38	8 14	11 10
21	TU.	r6 59	9 13	2 50	r6 55	9 18	11 57
22	WE.	s4 33	10 17	3 35	s4 37	10 21	0 21
23	TH.	r7 1	11 21	4 20	r6 57	11 24	1 7
24	FR.	s4 32	MORN.	5 8	s4 36	MORN.	1 54
25	SA.	r7 4	0 24	5 57	r6 59	0 25	2 43
26	S	s4 31	1 29	6 49	s4 36	1 29	3 34
27	MO.	r7 6	2 36	7 39	r7 1	2 35	4 24
28	TU.	s4 30	3 46	8 31	s4 35	3 43	5 15
29	WE.	r7 8	5 1	9 23	r7 3	4 57	6 9
30	TH.	s4 29	6 20	10 18	s4 34	6 14	7 4
..	....	.....	.....	.....	.....	.....	.....



MOON'S PHASES.	DAY.	BOSTON. H. M.	NEW YORK. H. M.
Full Moon.....	1	6 20 A. M.	6 8 A. M.
Last Quarter...	7	9 39 P. M.	9 27 P. M.
New Moon.....	15	1 30 P. M.	1 18 P. M.
First Quarter..	23	6 57 P. M.	6 45 P. M.
Full Moon.....	30	5 15 P. M.	5 3 P. M.

Day of Mo.	Day of W'k.	BOSTON. Sun R.&S. H. M.	BOSTON. Moon R.&S. H. M.	BOSTON. High Tide. H. M.	NEW YORK. Sun R.&S. H. M.	NEW YORK. Moon R.&S. H. M.	NEW YORK. High Tide. H. M.
1	Fr.	r7 10	RISES.	11 13	r7 5	RISES.	7 55
2	Sa.	s4 28	5 21	.....	s4 33	5 28	8 52
3	☽	r7 12	6 37	0 35	r7 7	6 43	9 50
4	Mo.	s4 28	7 58	1 33	s4 33	8 3	10 44
5	Tu.	r7 14	9 18	2 28	r7 9	9 22	11 38
6	We.	s4 28	10 35	3 21	s4 33	10 37	0 6
7	Th.	r7 16	11 48	4 13	r7 11	11 49	1 0
8	Fr.	s4 28	MORN.	5 7	s4 33	MORN.	1 54
9	Sa.	r7 18	0 58	6 2	r7 13	0 58	2 48
10	☽	s4 28	2 7	6 56	s4 33	2 5	3 41
11	Mo.	r7 20	3 16	7 49	r7 15	3 13	4 33
12	Tu.	s4 28	4 25	8 41	s4 33	4 20	5 26
13	We.	r7 21	5 33	9 32	r7 16	5 27	6 18
14	Th.	s4 29	6 39	10 22	s4 34	6 32	7 8
15	Fr.	r7 23	SETS.	11 10	r7 18	SETS.	7 52
16	Sa.	s4 29	4 57	11 54	s4 34	5 4	8 38
17	☽	r7 24	5 59	0 16	r7 19	6 5	9 24
18	Mo.	s4 29	7 3	0 59	s4 35	7 8	10 6
19	Tu.	r7 25	8 7	1 41	r7 20	8 11	10 44
20	We.	s4 31	9 10	2 21	s4 36	9 13	11 23
21	Th.	r7 26	10 12	3 0	r7 21	10 14	.....
22	Fr.	s4 32	11 15	3 39	s4 37	11 15	0 25
23	Sa.	r7 27	MORN.	4 21	r7 22	MORN.	1 8
24	☽	s4 33	0 18	5 6	s4 38	0 17	1 52
25	Mo.	r7 28	1 23	5 57	r7 23	1 23	2 43
26	Tu.	s4 34	2 36	6 52	s4 39	2 32	3 37
27	We.	r7 29	3 51	7 54	r7 23	3 46	4 39
28	Th.	s4 35	5 9	8 56	s4 41	5 3	5 41
29	Fr.	r7 29	6 27	10 0	r7 24	6 20	6 46
30	Sa.	s4 37	RISES.	11 2	s4 42	RISES.	7 45
31	☽	r7 30	5 29	11 59	r7 24	5 35	8 43

1876.

JANUARY.

MOON'S PHASES.	
First Q'ter,	4d. 9h. 34m. A.M.
Full Moon,	11d. 0h. 33m. A.M.
Last Q'ter,	18d. 2h. 59m. A.M.
New Moon,	26d. 7h. 52m. A.M.

Mo.	D. of W'k.	Sun Rises	Sun Sets.	Moon R.& S.
1	Sa.	7 29	4 38	9 34
2	☽	7 29	4 39	10 41
3	Mo.	7 29	4 40	11 49
4	Tu.	7 29	4 41	MORN
5	We.	7 29	4 42	0 59
6	Th.	7 29	4 43	2 14
7	Fr.	7 29	4 44	3 34
8	Sa.	7 28	4 45	4 55
9	☽	7 28	4 46	6 11
10	Mo.	7 28	4 47	7 19
11	Tu.	7 28	4 48	RISES
12	We.	7 27	4 49	6 38
13	Th.	7 27	4 51	7 56
14	Fr.	7 26	4 52	9 9
15	Sa.	7 26	4 53	10 19
16	☽	7 26	4 54	11 26
17	Mo.	7 25	4 55	MORN
18	Tu.	7 25	4 57	0 31
19	We.	7 24	4 58	1 36
20	Th.	7 24	4 59	2 41
21	Fr.	7 23	5 0	3 45
22	Sa.	7 22	5 1	4 45
23	☽	7 22	5 3	5 41
24	Mo.	7 21	5 4	6 30
25	Tu.	7 20	5 5	SETS
26	We.	7 19	5 6	5 13
27	Th.	7 18	5 7	6 21
28	Fr.	7 18	5 9	7 28
29	Sa.	7 17	5 10	8 34
30	☽	7 16	5 11	9 42
31	Mo.	7 15	5 12	10 51

FEBRUARY.

MOON'S PHASES.	
First Q'ter,	2d. 8h. 3m. P.M.
Full Moon,	9d. 11h. 57m. A.M.
Last Q'ter,	16d. 11h. 6m. P.M.
NewMoon,	25d. oh. 30m. A.M.

Mo.	D. of W'k.	Sun Rises	Sun Sets.	Moon R.& S.
1	Tu.	7 14	5 14	MORN
2	We.	7 13	5 15	0 2
3	Th.	7 12	5 17	1 18
4	Fr.	7 11	5 18	2 36
5	Sa.	7 10	5 19	3 51
6	☽	7 9	5 20	5 1
7	Mo.	7 7	5 22	6 0
8	Tu.	7 6	5 23	6 47
9	We.	7 5	5 24	RISES
10	Th.	7 4	5 25	6 45
11	Fr.	7 2	5 27	7 56
12	Sa.	7 1	5 28	9 6
13	☽	6 59	5 30	10 14
14	Mo.	6 58	5 31	11 20
15	Tu.	6 57	5 32	MORN
16	We.	6 55	5 33	0 27
17	Th.	6 54	5 35	1 33
18	Fr.	6 52	5 36	2 35
19	Sa.	6 51	5 37	3 34
20	☽	6 50	5 38	4 26
21	Mo.	6 48	5 39	5 10
22	Tu.	6 47	5 41	5 47
23	We.	6 45	5 42	6 17
24	Th.	6 44	5 43	SETS
25	Fr.	6 42	5 44	6 22
26	Sa.	6 41	5 46	7 31
27	☽	6 39	5 47	8 41
28	Mo.	6 37	5 48	9 53
29	Tu	6 36	5 50	11 9
..	.....	.....	.....	.....
..	.....	.....	.....	.....

MARCH.

MOON'S PHASES.

First Q'ter, 3d. 3h. 58m. A.M.
Full Moon, 10d. 0h. 22m. A.M.
Last Q'ter, 17d. 7h. 34m. P.M.
New Moon, 25d. 2h. 22m. P.M.

Mo.	D. of W'k.	Sun Rises	Sun Sets	Moon R. & S.
1	We.	6 34	5 51	MORN
2	Th.	6 32	5 52	0 26
3	Fr.	6 31	5 53	1 41
4	Sa.	6 29	5 55	2 51
5	☉	6 28	5 56	3 52
6	Mo.	6 26	5 57	4 42
7	Tu.	6 24	5 58	5 19
8	We.	6 23	5 59	5 48
9	Th.	6 21	6 0	RISES
10	Fr.	6 20	6 1	6 46
11	Sa.	6 18	6 2	7 54
12	☉	6 16	6 3	9 1
13	Mo.	6 14	6 4	10 10
14	Tu.	6 13	6 6	11 18
15	We.	6 11	6 7	MORN
16	Th.	6 9	6 8	0 23
17	Fr.	6 7	6 9	1 22
18	Sa.	6 5	6 10	2 17
19	☉	6 4	6 12	3 5
20	Mo.	6 2	6 13	3 46
21	Tu.	6 0	6 14	4 18
22	We.	5 58	6 15	4 44
23	Th.	5 57	6 16	5 7
24	Fr.	5 55	6 17	5 28
25	Sa.	5 54	6 18	SETS
26	☉	5 52	6 19	7 37
27	Mo.	5 50	6 20	8 54
28	Tu.	5 49	6 21	10 12
29	We.	5 47	6 23	11 31
30	Th.	5 46	6 24	MORN
31	Fr.	5 44	6 25	0 44

APRIL.

MOON'S PHASES.

First Q'ter, 1d. 10h. 22m. A.M.
Full Moon, 8d. 1h. 49m. P.M.
Last Q'ter, 16d. 2h. 47m. P.M.
New Moon, 24d. 1h. 13m. A.M.
First Q'ter, 30d. 4h. 37m. P.M.

Mo.	D. of W'k.	Sun Rises	Sun Sets	Moon R. & S.
1	Sa.	5 42	6 26	1 48
2	☉	5 40	6 27	2 41
3	Mo.	5 39	6 28	3 21
4	Tu.	5 37	6 29	3 52
5	We.	5 35	6 30	4 16
6	Th.	5 33	6 31	4 39
7	Fr.	5 32	6 32	4 59
8	Sa.	5 30	6 34	RISES
9	☉	5 29	6 35	7 51
10	Mo.	5 27	6 36	9 0
11	Tu.	5 25	6 37	10 7
12	We.	5 24	6 38	11 9
13	Th.	5 22	6 39	MORN
14	Fr.	5 21	6 40	0 7
15	Sa.	5 19	6 41	0 59
16	☉	5 17	6 42	1 42
17	Mo.	5 16	6 43	2 17
18	Tu.	5 14	6 45	2 44
19	We.	5 13	6 46	3 8
20	Th.	5 11	6 47	3 31
21	Fr.	5 9	6 48	3 52
22	Sa.	5 8	6 49	4 12
23	☉	5 6	6 50	4 34
24	Mo.	5 5	6 51	SETS
25	Tu.	5 3	6 52	9 12
26	We.	5 2	6 53	10 29
27	Th.	5 1	6 54	11 39
28	Fr.	4 59	6 55	MORN
29	Sa.	4 58	6 56	0 37
30	☉	4 57	6 57	1 22
..	....	....	....	.....

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1876.

MAY.

MOON'S PHASES.

Full Moon, 8d. 4h. 3m. A.M.
Last Q'ter, 16d. 7h. 37m. A.M.
New Moon, 23d. 9h. 35m. A.M.
First Q'ter, 29d. 11h. 59m. P.M.

Mo.	D. of W'k.	Sun Rises	Sun Sets	Moon R. & S.
1	Mo.	4 56	6 58	1 56
2	Tu.	4 54	6 59	2 22
3	We.	4 53	7 1	2 45
4	Th.	4 51	7 2	3 5
5	Fr.	4 50	7 3	3 25
6	Sa.	4 49	7 4	3 45
7	☉	4 48	7 5	4 7
8	Mo.	4 46	7 6	RISES
9	Tu.	4 45	7 7	8 59
10	We.	4 44	7 8	9 58
11	Th.	4 43	7 9	10 52
12	Fr.	4 42	7 10	11 38
13	Sa.	4 41	7 11	MORN
14	☉	4 40	7 12	0 16
15	Mo.	4 39	7 13	0 45
16	Tu.	4 38	7 14	1 10
17	We.	4 37	7 15	1 32
18	Th.	4 37	7 16	1 53
19	Fr.	4 36	7 17	2 12
20	Sa.	4 35	7 18	2 33
21	☉	4 34	7 19	2 58
22	Mo.	4 33	7 20	3 27
23	Tu.	4 33	7 20	SETS
24	We.	4 32	7 21	9 21
25	Th.	4 31	7 22	10 26
26	Fr.	4 30	7 23	11 17
27	Sa.	4 30	7 24	11 55
28	☉	4 29	7 25	MORN
29	Mo.	4 29	7 26	0 25
30	Tu.	4 28	7 27	0 50
31	We.	4 28	7 28	1 11

JUNE.

MOON'S PHASES.

Full Moon, 6d. 6h. 47m. P.M.
Last Q'ter, 14d. 9h. 24m. P.M.
New Moon, 21d. 4h. 27m. P.M.
First Q'ter, 28d. 9h. 24m. A.M.

Mo.	D. of W'k.	Sun Rises	Sun Sets	Moon R. & S.
1	Th.	4 27	7 28	1 31
2	Fr.	4 27	7 29	1 50
3	Sa.	4 26	7 29	2 12
4	☉	4 26	7 30	2 36
5	Mo.	4 26	7 31	3 4
6	Tu.	4 26	7 31	RISES
7	We.	4 25	7 32	8 47
8	Th.	4 25	7 32	9 34
9	Fr.	4 25	7 33	10 14
10	Sa.	4 25	7 34	10 46
11	☉	4 25	7 34	11 13
12	Mo.	4 24	7 35	11 36
13	Tu.	4 24	7 35	11 57
14	We.	4 24	7 36	MORN
15	Th.	4 24	7 36	0 16
16	Fr.	4 24	7 36	0 34
17	Sa.	4 25	7 37	0 56
18	☉	4 25	7 37	1 22
19	Mo.	4 25	7 37	1 54
20	Tu.	4 25	7 37	2 36
21	We.	4 25	7 37	SETS
22	Th.	4 26	7 38	9 5
23	Fr.	4 26	7 38	9 50
24	Sa.	4 26	7 38	10 24
25	☉	4 26	7 38	10 51
26	Mo.	4 27	7 38	11 15
27	Tu.	4 27	7 38	11 35
28	We.	4 28	7 38	11 55
29	Th.	4 28	7 38	MORN
30	Fr.	4 28	7 38	0 16
..	....	....	....	.....

1876.

JULY.

MOON'S PHASES.

Full Moon, 6d. 9h. 48m. A.M.
Last Q'ter, 14d. 8h. 6m. A.M.
New Moon, 20d. 11h. 3m. P.M.
First Q'ter, 27d. 9h. 29m. P.M.

Mo.	D. of W'k.	Sun Rises	Sun Sets.	Moon R. & S.
1	Sa.	4 29	7 38	0 38
2	♋	4 29	7 38	1 5
3	Mo.	4 30	7 38	1 38
4	Tu.	4 30	7 38	2 19
5	We.	4 31	7 38	3 6
6	Th.	4 32	7 37	RISES
7	Fr.	4 32	7 37	8 49
8	Sa.	4 33	7 36	9 17
9	♋	4 34	7 36	9 40
10	Mo.	4 35	7 35	10 1
11	Tu.	4 36	7 35	10 20
12	We.	4 36	7 34	10 39
13	Th.	4 37	7 34	10 58
14	Fr.	4 38	7 33	11 22
15	Sa.	4 39	7 32	11 50
16	♋	4 40	7 32	MORN
17	Mo.	4 40	7 31	0 26
18	Tu.	4 41	7 31	1 13
19	We.	4 42	7 30	2 14
20	Th.	4 43	7 29	SETS
21	Fr.	4 44	7 28	8 19
22	Sa.	4 44	7 28	8 49
23	♋	4 45	7 27	9 15
24	Mo.	4 46	7 26	9 38
25	Tu.	4 47	7 25	9 58
26	We.	4 48	7 24	10 19
27	Th.	4 49	7 23	10 42
28	Fr.	4 50	7 22	11 8
29	Sa.	4 51	7 21	11 38
30	♋	4 52	7 20	MORN
31	Mo.	4 53	7 19	0 16

AUGUST.

MOON'S PHASES.

Full Moon, 5d. 0h. 48m. A.M.
Last Q'ter, 12d. 4h. 9m. P.M.
New Moon, 19d. 6h. 36m. A.M.
First Q'ter, 26d. 0h. 28m. P.M.

Mo.	D. of W'k.	Sun Rises	Sun Sets.	Moon R. & S.
1	Tu.	4 54	7 18	1 1
2	We.	4 55	7 17	1 55
3	Th.	4 56	7 16	2 55
4	Fr.	4 57	7 15	RISES
5	Sa.	4 58	7 14	7 46
6	♋	4 59	7 12	8 7
7	Mo.	5 0	7 11	8 27
8	Tu.	5 1	7 10	8 45
9	We.	5 2	7 9	9 4
10	Th.	5 3	7 7	9 27
11	Fr.	5 4	7 6	9 52
12	Sa.	5 5	7 4	10 23
13	♋	5 6	7 3	11 3
14	Mo.	5 7	7 1	11 56
15	Tu.	5 8	7 0	MORN
16	We.	5 9	6 58	1 3
17	Th.	5 10	6 57	2 21
18	Fr.	5 11	6 55	3 45
19	Sa.	5 12	6 54	SETS
20	♋	5 13	6 52	7 38
21	Mo.	5 15	6 51	7 59
22	Tu.	5 16	6 49	8 21
23	We.	5 17	6 48	8 44
24	Th.	5 18	6 46	9 8
25	Fr.	5 19	6 45	9 37
26	Sa.	5 20	6 43	10 12
27	♋	5 21	6 42	10 56
28	Mo.	5 22	6 40	11 47
29	Tu.	5 23	6 38	MORN
30	We.	5 24	6 37	0 45
31	Th.	5 25	6 35	1 47

1876.

SEPTEMBER.

MOON'S PHASES.

Full Moon, 3d. 3h. 23m. P.M.
Last Q'ter, 10d. 10h. 31m. P.M.
New Moon, 17d. 4h. 4m. P.M.
First Q'ter, 25d. 6h. 13m. A.M.

Mo.	D. of W'k.	Sun Rises	Sun Sets.	Moon R. & S.
1	Fr.	5 26	6 34	2 52
2	Sa.	5 27	6 32	3 59
3	♋	5 28	6 30	RISES
4	Mo.	5 29	6 28	6 52
5	Tu.	5 30	6 27	7 11
6	We.	5 31	6 25	7 32
7	Th.	5 32	6 23	7 55
8	Fr.	5 33	6 21	8 24
9	Sa.	5 34	6 20	9 1
10	♋	5 35	6 18	9 50
11	Mo.	5 36	6 17	10 50
12	Tu.	5 37	6 15	MORN
13	We.	5 38	6 13	0 2
14	Th.	5 39	6 11	1 20
15	Fr.	5 41	6 10	2 42
16	Sa.	5 42	6 8	4 1
17	♋	5 43	6 6	SETS
18	Mo.	5 44	6 4	6 23
19	Tu.	5 45	6 2	6 45
20	We.	5 46	6 1	7 8
21	Th.	5 46	5 59	7 36
22	Fr.	5 47	5 57	8 10
23	Sa.	5 48	5 55	8 51
24	♋	5 49	5 53	9 38
25	Mo.	5 51	5 52	10 33
26	Tu.	5 52	5 50	11 33
27	We.	5 53	5 48	MORN
28	Th.	5 54	5 46	0 38
29	Fr.	5 55	5 45	1 44
30	Sa.	5 57	5 43	2 50
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OCTOBER.

MOON'S PHASES.

Full Moon, 3d. 5h. 6m. A.M.
Last Q'ter, 10d. 4h. 30m. A.M.
New Moon, 17d. 4h. 7m. A.M.
First Q'ter, 25d. 2h. 4m. A.M.

Mo.	D. of W'k.	Sun Rises	Sun Sets.	Moon R. & S.
1	♋	5 58	5 42	3 55
2	Mo.	5 59	5 40	5 1
3	Tu.	6 0	5 38	RISES
4	We.	6 1	5 36	5 59
5	Th.	6 2	5 35	6 27
6	Fr.	6 3	5 33	7 2
7	Sa.	6 4	5 31	7 48
8	♋	6 5	5 29	8 44
9	Mo.	6 6	5 28	9 52
10	Tu.	6 8	5 26	11 7
11	We.	6 9	5 25	MORN
12	Th.	6 10	5 23	0 25
13	Fr.	6 11	5 21	1 43
14	Sa.	6 12	5 20	2 57
15	♋	6 14	5 18	4 10
16	Mo.	6 15	5 17	5 21
17	Tu.	6 16	5 15	SETS
18	We.	6 17	5 14	5 36
19	Th.	6 18	5 12	6 6
20	Fr.	6 19	5 11	6 44
21	Sa.	6 20	5 9	7 29
22	♋	6 21	5 8	8 22
23	Mo.	6 22	5 6	9 21
24	Tu.	6 24	5 5	10 24
25	We.	6 25	5 3	11 28
26	Th.	6 27	5 2	MORN
27	Fr.	6 28	5 0	0 33
28	Sa.	6 29	4 59	1 37
29	♋	6 30	4 58	2 43
30	Mo.	6 32	4 56	3 50
31	Tu.	6 33	4 55	5 0

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1876.

NOVEMBER.

MOON'S PHASES.

Full Moon, 1d. 5h. 41m. P.M.
Last Q'ter, 8d. 11h. 27m. A.M.
New Moon, 15d. 6h. 58m. P.M.
First Q'ter, 23d. 10h. 36m. P.M.

Mo.	D. of W'k.	Sun Rises	Sun Sets	Moon R. & S.
1	WE.	6 34	4 54	6 12
2	TH.	6 35	4 53	RISES
3	FR.	6 36	4 52	5 41
4	SA.	6 38	4 50	6 35
5	S	6 39	4 49	7 43
6	MO.	6 40	4 48	8 58
7	TU.	6 41	4 47	10 16
8	WE.	6 42	4 46	11 33
9	TH.	6 44	4 44	MORN
10	FR.	6 45	4 43	0 46
11	SA.	6 46	4 42	1 58
12	S	6 47	4 41	3 8
13	MO.	6 48	4 40	4 17
14	TU.	6 50	4 40	5 27
15	WE.	6 51	4 39	6 36
16	TH.	6 52	4 38	SETS
17	FR.	6 53	4 37	5 23
18	SA.	6 54	4 36	6 13
19	S	6 56	4 36	7 10
20	MO.	6 57	4 35	8 11
21	TU.	6 58	4 34	9 16
22	WE.	6 59	4 33	10 20
23	TH.	7 0	4 33	11 24
24	FR.	7 2	4 32	MORN
25	SA.	7 3	4 32	0 26
26	S	7 4	4 31	1 31
27	MO.	7 5	4 31	2 38
28	TU.	7 6	4 30	3 47
29	WE	7 8	4 30	5 2
30	TH.	7 9	4 29	6 21

DECEMBER.

MOON'S PHASES.

Full Moon, 1d. 5h. 14m. A.M.
Last Q'ter, 7d. 8h. 33m. P.M.
NewMoon, 15d. oh. 24m. P.M.
First Q'ter, 23d. 5h. 51m. P.M.
Full Moon, 30d. 4h. 9m. P.M.

Mo.	D. of W'k.	Sun Rises	Sun Sets	Moon R. & S.
1	FR.	7 10	4 29	RISES
2	SA.	7 11	4 29	5 25
3	S	7 12	4 29	6 40
4	MO.	7 13	4 28	8 1
5	TU.	7 14	4 28	9 21
6	WE.	7 15	4 28	10 38
7	TH.	7 16	4 28	11 50
8	FR.	7 17	4 28	MORN
9	SA.	7 17	4 28	1 0
10	S	7 18	4 28	2 9
11	MO.	7 19	4 28	3 17
12	TU.	7 20	4 28	4 26
13	WE.	7 21	4 28	5 34
14	TH.	7 21	4 29	6 40
15	FR.	7 22	4 29	SETS
16	SA.	7 23	4 29	5 1
17	S	7 24	4 29	6 2
18	MO.	7 24	4 30	7 6
19	TU.	7 25	4 30	8 10
20	WE.	7 25	4 31	9 13
21	TH.	7 26	4 31	10 14
22	FR.	7 26	4 32	11 17
23	SA.	7 27	4 32	MORN
24	S	7 27	4 33	0 20
25	MO.	7 28	4 33	1 26
26	TU.	7 28	4 34	2 37
27	WE.	7 28	4 35	3 52
28	TH.	7 28	4 36	5 10
29	FR.	7 29	4 36	6 27
30	SA.	7 29	4 37	RISES
31	S	7 29	4 38	5 32

~~SATURDAY, JANUARY 1, 1876.~~

1876

Wednesday Oct 11

Left Fort Ellis for Snake River Survey. Weather Fine Traveled 16 Miles Camped at Brooks Ranche and Camped. The Party consists of Sergt Seiber Pt Applegate Co G Pt White & Starr Co F & Davis Co L

18 Miles ✓

~~SUNDAY 2~~

Thursday Oct 12. 1876

Left Camp at 6.30 A.M. Weather fine Roads dusty Camped at Bullers

17 Miles. ✓

2

~~MONDAY 3~~

Friday Oct 13 1876

Left camp at 7. A.M. got around Point of Rocks all right but broke the wagon all to pieces on top of the big hill in the Canon The boat alright Morgan caught about fifty lbs of fine Trout weather fine

16 Miles ✓

Saturday Oct 14th 1876

Laid over to repair damage
Teamsters Ward and myself
went back to Bufloe Ranch
North Four mile to mud
Lt Doane to see if he would
to get another wagon returned
to camp at 9 P. M. Lt Doane
camped with us all night
Weather fine

Sunday Oct 15th 1876

Lt Roland left us about 9 A. M.
weather fine. We laid over waiting
for Lt Doane to come up.
Lt Doane arrived in camp
at 8.30 P. M and we immediately
prepared our packs to start
in the morning.

Monday Oct 16

Left Camp at 8 A M weather
fine. Packs sent on pack
arrived in camp at
4 P. M. John Warren
arrived shortly after
from Fort Ellis. Davis
Applegate went to camp Sp
15 Miles

Tuesday Oct 17th 1876

Left Camp 8 A.M. Weather damp and
misty. One mule hurt himself
across the kidneys and Lt Doane
put some boiling water on him
and the hair pulled off just like
a chicken when scalded. The mule
was abandoned.

15 Miles

Wednesday Oct 18th 1876

Left Camp at 8 A. M weather
disagreable. Commenced snowing
about nine A. M and continued
all day and all night. Camped
at Lower Falls on account of
the trail soaking.

6 Miles

Thursday Oct 19th 1876

Left Camp at 9 A M with half
of our stuff leaving the rest
to bring over day after to
morrow. Camped at the bottom
of the Washburn Divide
Snowing off and on all day.

13 Miles

MONDAY, JANUARY 10, 1876.

Friday Oct 20th 1876
Left camp at 10 a.m. to come back to Tower Creek after the rest of the stuff it was snowing all day arrived at Tower Creek about 3. P. M.

13 Miles

TUESDAY 11

Saturday Oct 21st 1876
Left camp at 10 a.m. Snowing hard all day but it was not cold abandoned a mule at Tower Creek camped at Blind Trail

18 Miles

WEDNESDAY 12

Sunday Oct 22nd 1876
Left four men here over at Blind Trail while myself and three men went back to Mt Washburn after the rest of our stuff Snowing hard all day
10 Miles

THURSDAY, JANUARY 13, 1876.

Oct 1876
Monday 23rd 1876
Left camp at 9 a.m and Traveled to Yellowstone Lake abandoned a mule at Mud Volcano weather fine Camped at Yellowstone Lake and had a delightful time in the evening. Great excitement in camp mysterious noises heard in the mts 20 Miles Left 9 oars aggregate went to assertain the cause of it.

FRIDAY 14

Tuesday 24th 1876
Myself and two men left camp to go back and make the second trip back to Blind Trail weather fine

20 Miles

SATURDAY 15

Wednesday 25th 1876
Left Camp at 9 a.m. for Lake with second load picked up the mule that we abandoned on the 23rd and brought it in to camp just the boat all together by fine light at night weather fine

20 Miles

Oct

SUNDAY, JANUARY 16, 1876.

Thursday 26th 1876

Laid over at Lake occupied ourselves by finishing the boat and making a Tepee & grinding up allaw Tools

Weather fine.

Laid Over

V

MONDAY 17

Friday 27th 1876

Left Camp at 10 a.m. weather fine. Launched the boat and she sailed splendidly every thing went well until the boat was going around the last rocky point when she swamped on account of such a heavy sea running had fine all arrive at night dogging the gorge. Left 3 Saddle and 1 mule at Coffin Rapids 15 Miles V

TUESDAY 18

Saturday 28th 1876

Left Camp at 10 a.m. Weather Cloudy Commenced snowing about 12 M and continued all day went to the foot of the Snake River Rapids and Camped. The boat did not arrive at all great anxiety was felt for the safety of the men

25 Miles V

Oct

WEDNESDAY, JANUARY 19, 1876.

Sunday 29th 1876

Left Camp 11 a.m. Snowing hard went to top of Divide and built a fire and warmed started again and travelled until 9 P.M. when we went in to camp one mile from Heart Lake Saw one Bear and a Herd of Elk

V

13 Miles

THURSDAY 20

Monday 30th 1876

Lt Doane & Myself started back for Yellowstone Lake to bring the boat over and make a new trail. arrived in camp on Yellowstone Lake but no signs of boat great apprehension felt for the safety of the men in here. The boat arrive at 9. P. M. great joy was felt in camp. Weather fine 18 Miles

FRIDAY 21

Tuesday 31st 1876

Left Camp at 8.30 A.M. and started for Heart Lake with the boat but was unable to get it over brought the packs in and left the boat on the trail arrived in Camp at 9 P.M. Weather fine

Boat over the Divide

V

17 Miles

Nov 1876

~~Saturday, January 22, 1876.~~

Wednesday November 1st 1876

Left camp at 9 A.M. to go back after the boat arrived at the boat about 12 Noon started with the boat for Heart Lake came about 4 miles and left the boat to come into camp arrived about 8 P.M. Weather fine

10 Miles V

~~Sunday 23~~

Thursday Nov 2nd 1876

Left camp at 10 a.m. to go after the boat brought it to the top of the hill and left it. Osborn and Ward left us to return to Fort Ellis. Weather fine. Put the tepee up for the first time after it was remodeled it worked splendidly.

6 Miles V

~~Monday 24~~

Friday Nov 3rd 1876

Left Camp at 10 a.m. to go after boat. arrived at boat and portaged like horses to get it in arrived in camp at 5 P.M. Caught a duck alive on the way. Swimming off and on all day

6 Miles V

Nov 1876

~~Tuesday, January 25, 1876.~~

Saturday Nov 4th 1876

Laid Over put the boat on the stocks and repaired it and worked until 10 P.M. Swimming hard all day had a porcupine baked for supper and it was splendid

V

Laid Over.

~~Wednesday~~ 26

Sunday Nov 5th 1876

Laid Over finished the boat and launched her on Heart Lake Lt Doane and 3 men went around the Lake to find the outlet but did not succeed. Weather Fine

Laid Over V

~~Thursday~~ 27

Monday Nov 6th 1876

Left camp at 7 A.M. weather fine started around Heart Lake for mouth of Snake River arrived there at 3 P.M. Great excitement in camp on account of arriving on Snake River

12 Miles V

FRIDAY, JANUARY 28 1876.

Tuesday Nov 7th 1876
Left Camp at 8 a.m started down Snake River with the boat loaded but had to take it all out and pack it camped in the canon 3 miles below weather fine

3 Miles V

SATURDAY 29

Wednesday Nov 8th 1876
Left Camp 10 a.m Weather fine Abandoned Applegates horse at camp great trouble with the boat and packs abandoned one mule on the road.

6 Miles. V

SUNDAY 30

Thursday Nov 9th 1876
Laid over 3 men went back after boat myself and man took all the stuff down to the mouth of the Canon on the mules and returned to camp at 6 P.M. the boat arrived a short time after. Weather Fine Laid Over V

MONDAY, JANUARY 31, 1876.

Friday Nov 10th 1876
Left Camp at 11 a.m. Weather Fine Went to mouth of Canon and got the stuff and packed it and started through Canon camped on a small spring in Canon, but the boat did not arrive commenced snowing at about midnight

9 Miles V

TUESDAY, FEBRUARY 1

Saturday Nov 11th 1876
Left Camp at 10 a.m. Cleared up in the morning and sunny and a fine day no trouble with packs traveled until 2 P.M. and camped to wait for arrival of boat Clouded up about 4 P.M and commenced snowing P.M. did not arrive 9 Miles V

WEDNESDAY 2

Sunday Nov 12th 1876
Left Camp 10 a.m. Stopped snowing early in the morning and cleared up splendidly St Denne came in to camp just as we were leaving but no boat water getting deeper all the way down

10 Miles V

Nov 1876

THURSDAY, FEBRUARY 3, 1876.

Monday Nov 13th 1876

Left Camp at 10 a.m. Weather fine Struck stream from Twin Lakes great rejoicing on account of plenty of water to float the boat and all the load camped at mouth of Canon to wait for boat but she did not arrive.

V

8 Mls

FRIDAY 4

Tuesday Nov 14th 1876

Laid Over waiting for boat commenced snowing in the night some time and kept it up off and on all day very disagreeable Splendid grub for the boat did not arrive

Laid Over.

V

SATURDAY 5

Wednesday Nov 15th 1876

Laid Over waiting for boat Snowing hard all day and blowing very disagreeable Warren caught a magnificent mess of trout. I went up River to see if I could see boat but could not Boat did not arrive Rained for about an hour in the evening

Laid Over.

V

Nov 1876

SUNDAY, FEBRUARY 6, 1876.

Thursday Nov 16th 1876

Laid Over waiting for the arrival of the boat. Snowed hard all day I went back to our last camp looking for the boat but could not find it. The boat did not arrive at all. Warren caught a magnificent mess of Trout

Laid Over.

V

MONDAY 7

Friday Nov 17th 1876

Laid Over waiting for boat Cleared up and turned out a magnificent day. I went up the river to hunt for boat and found it at the Hot Springs but it was not able to come down to camp to day

Laid Over.

V

TUESDAY 8

Saturday Nov 18th 1876

Laid Over waiting for the boat which arrived about 11 a.m. weather fine Warren caught a magnificent mess of Trout.

V

Laid Over.

Nov 1876

WEDNESDAY, FEBRUARY 9, 1876.

Sunday Nov 19th 1876
Laid Over to repair boat but was unable to work on account of Storm, Snowing hard all day Davis killed a duck

V

Laid Over.

THURSDAY 10

Monday Nov 20 1876
Laid Over to repair boat Weather clear in the morning but clouded up in the afternoon and commenced Snowing in the evening repaired boat so as to be able to launch her in the morning

V

Laid Over.

FRIDAY 11

Tuesday Nov 21 1876
Left Camp at 11 M. Weather fine Snow very deep very hard to travel through Magnificent night boat did not arrive at camp at all Abandoned 1 Mule and a pack Saddle

8 Miles V

Nov 1876

SATURDAY, FEBRUARY 12, 1876.

Wednesday Nov 22 1876
Left Camp at 8 A. M. Weather fine Had great trouble to get along with the animals on account of Swamps Three Flocks of Swans flew over camp in the morning Boat arrived in camp at Sun down

15 Miles V

SUNDAY 13

Thursday Nov 23 1876
Left 10 A. M Snowing hard all day Had great trouble to get the animals along One mule got caught in the timber and was unable to get out she killed herself in her efforts to release herself Cleared up in the evening and had a fine night

12 Miles V

MONDAY 14

Friday Nov 24 1876.
Left Camp at 8 A. M. Weather misty and slight Snow. Had great trouble to get the Animals through the timber. Abandoned Davis Horse One Riding Saddle Complete One Pack Saddle Complete Two Halters One Axe One Hatchet. Had a magnificent view of the mountains. Cut our Last Flour 10 Miles.

V

Nov 1876

TUESDAY, FEBRUARY 15, 1876.

Saturday Nov 25 1876

Laid Over to repair boat
Weather Cloudy but no snow
Lt Doane killed a black Tail
Deer My first one on the
trip. Finished boat and she
worked splendidly Had First
glance of the Tetons magnificent
view of it.

Laid Over

WEDNESDAY 16

Sunday Nov 26 1876

Left Camp at 9 a.m. Weather
Raining all day Had great trouble
to get the animals through the
timber Abandoned Lt Doane's horse
on the road The stock could hardly
get in to camp for fatigue

10 Miles

THURSDAY 17

Monday Nov 27 1876

Left Camp at 9 a.m. Weather
Snowing Hard all day Had
great trouble to get the
Animals through the timber
Arrived in camp at dusk
Abandoned Davis' Gun on account
of it being broken Animals
very near a case grass
grass

15 Miles

Nov 1876

FRIDAY, FEBRUARY 18, 1876.

Tuesday Nov 28

Left Camp at 10 a.m. Weather
Blowing Hard and snowing
hard all day cleared up
in the evening and had
a magnificent view
of the Teton Foot Hills
which was gorgeous.
was forced to go in
to camp on account
of the lake running so
high

2 Miles 15 below zero

SATURDAY 19

Wednesday Nov 29 1876

Laid Over on account of
Lt Doane and myself being
to sick to travel Made a
boat of stuff down from the
Head of Lake weather
magnificent

Laid Over

3

SUNDAY 20

Thursday Nov 30th 1876

Left Camp at 10 a.m
Weather fine Warmer
Came to the Elk but was
unable to get any I was
unable to ride my
horse so I went to
the boat

17 Miles

MONDAY, FEBRUARY 21, 1876.

~~Dec 1876~~
Friday Dec 1 1876

Left Camp at 9 A. M Weather magnificent I was forced to ride in boat by reason of my Feet Warren and White went out after Elk and returned after dark but was unable to get any.

12 Miles

TUESDAY 22

~~Saturday~~ Dec 2 1876

Laid Over to get some fresh meat Weather magnificent Shot Warrens Horse for meat in the afternoon Warren caught 16 magnificent Trout and we had a fine gorge eat every one of them for supper.

Laid Over.

WEDNESDAY 23

~~Sunday~~ Dec 3 1876

Left Camp at ~~10~~ 10 A.M Weather Magnificent ~~and~~ made 18 miles rode my horse to-day and it was a splendid time for it was water and ~~sand~~ [illegible]

18 Miles

THURSDAY, FEBRUARY 24, 1876.

~~Dec 1876~~
Monday Dec 4 1876

Left Camp at 9 A. M Weather Magnificant Warm very shallow forced a hole in the bottom of the boat Warren caught 15 Trout.

18 Miles

FRIDAY 25

Tuesday Dec 6

Laid Over to repair the hole in the boat Warren caught 15 Trout Weather magnificent While was taken sick.

~~Rolled up Horse~~

Laid Over.

SATURDAY 26

Wednesday Dec 6 1876

Left Camp 10 A.M Weather Magnificent Broke a hole in the bottom of the boat and fixed it after supper was forced to camp on a Island on the middle of the river on account of the hole in the bottom

14 Miles

SUNDAY, FEBRUARY 27, 1876.

Thursday Dec 7th 1876

Left Camp at 10 a. M. Weather Magnificent Davis and myself found a trapper cabin and had a fine meal of flour found out all particulars about the road a head got some salt from him

8 Mile ✓

MONDAY 28

Friday Dec 8 1876

Left Camp at 11 a. M. Weather Magnificent John Pierce an old Trapper came to camp and gave us some flour and quarter of Elk we gave him in Return some clothes I went up to his ranche and had a splendid meal

15 Mile ✓

TUESDAY 29

Saturday Dec 9th 1876

Left Camp at 8 a. M. Weather Magnificent entered the Canon and had a regular Sheep Trail to follow with the stock lots of water in the Canon for the boat

20 Mile ✓

WEDNESDAY, MARCH 1, 1876.

Sunday Dec 10 1876

Left Camp at 9 a. M Weather magnificent Had to ford Lives twice both times where very deep, Warren, Davis, and myself did not reach camp at all but had to sleep out without bidding or any thing to eat There was 10 degree below Zero very cold comfort

15 Mile ✓

THURSDAY 2

Monday Dec 11th 1876

Davis, Warren and myself waited for the boat to come up with us. got nothing to eat until night the boat came along just after sun down and we started to find it had an awful time Shot Rabbits broke up a collection to by rations with ✓

FRIDAY 3 6 mile

Tuesday Dec 12 1876

Left Camp at 9 a. M Weather fine started down the rapids with the boat when about half way down the boat swamped and the only things saved was the bundles of bedding Warren and myself started with the animals to get rations all public property was lost.

6 mile ✓

Dec 1876

SATURDAY, MARCH 4, 1876.

Wednesday 13th 1876
Left Camp at 6 a.m weather fine but cold had to stop in Canon to build a fire to warm by arrive at lower end of Canon about 3 P.M had a magnificent bottom before us to travel on Camped at Alderson Ranche 12 miles ✓

SUNDAY 5

Thursday Dec 14th 1876
Left Camp at 7 a.m Weather fine started to find that mineing Creek but did not succeed Had a very cold night last night

15 Miles ✓

MONDAY 6

Friday Dec 15 1876
Left Camp at 8 a.m in search of a mineing town At prepare rations but did not succeed in finding it Camped on a small Creek which we are in hopes is the one that the town is on about 7 miles from its mouth Weather fine

13 Miles ✓

Dec 1876

TUESDAY, MARCH 7, 1876.

Saturday Dec 16th 1876
Left Camp at 7 a.m Weather fine continued our journey up creek in search of mining town went up creek about 14 miles but did not see any signs of spring so we turned back and came to water to find boat

16 Miles ✓

WEDNESDAY 8

Sunday Dec 17th 1876
Left Camp at 7 a.m Weather fine started up river to find boat arrived at mouth of a creek which we took it be the mineing Creek and started up it arrived at miners Cabin about 6 P.M and found Rest of party their a head of us had a fine Supper

THURSDAY 9 25 Miles

Monday Dec 18 1876
Left Camp at noon Weather fine started from Mr Bailey's Ranch for Kenan City arrived their about 4 P.M set in a stock of provisions and got a ranche to rest in for a few days and got a Chinaman to cut wood for us run out of wood during the night and played Euchre all night

25 Miles

Dec 1876

FRIDAY, MARCH 10, 1876.

Tuesday 19th 1876

Laid Over to rest ourselves
Weather Fine, Warren very
sick rest of men feeling very
bad. Clouded up in the evening
had a slight Snow cleared
up again before morning
Had a very comfortable night
rest with a fine fire going
all night

Laid Over

SATURDAY 11

Wednesday 20th 1876

Laid Over to rest ourselves
Weather Fine in the morning
clouded up in the afternoon
and commenced snowing
about midnight continued
off and on until morning
Lt. Doane hired a man
to make slide to take our
stuff to the river on

Laid Over

SUNDAY 12

Thursday 21st 1876

Laid Over to rest ourselves
Weather Cloudy slight snow
off and on all day making
preperations to start away
was unable to find the
horses Man finished the slides
for us

Laid Over.

Dec 1876

MONDAY, MARCH 13, 1876.

Friday Dec 22 1876

Laid Over for more rest
Weather Cloudy in the morning
and slight Snow cleared up
in the afternoon and turned
Cold found horses and Comanches
them so that they could not
get away again drew the rest
of our Rations & made out the
bills and got ready to leave in
the morning Laid Over ✓

TUESDAY 14

Saturday Dec 23rd 1876

Left Keenah City at 10 a.m
for Mr Bailey's Ranche Weather
fine Clouded up in the evening
and snowed off and on all
night. Arrived at Mr Bailey's
about 4 P.M Party all in
good spirits

6 Miles ✓

WEDNESDAY 15

Sunday Dec 24th 1876

Left Mr Bailey's at 10 a.m Weather
Snowing hard until about 5
P.M when it cleared up &
went back to Keenah City to
see if I could get a bake oven
but did not succeed I stopped
at Mr Bailey's all night rest
of party went down to
Snake River

6 Miles ✓

Dec 1876

THURSDAY, MARCH 16, 1876.

Monday Dec 26th 1876
Left camp 10 a.m. Weather
Cloudy and slight snow I
started down McCoy Creek to
find the rest of the party saw
them within about 3 miles of
the mouth with one sled broke
packed two horse and brought
the stuff down to the mouth
camped in a Cabin at the mouth
of McCoy Creek on Snake River
15 miles

FRIDAY 17

Tuesday Dec 26 1876
Laid Over to rest the Animals
Weather Cloudy Snowing off
and on all day Camped in
a Cabin at the mouth of
McCoy Creek had a very
pleasant day Cleared up
in the evening Lt Hall &
4 men arrived in camp
(See note on Back) Laid Over

SATURDAY 18

Wednesday 27 1876
Left Camp at 10 a.m Weather
Cloudy but no snow my
self and 4 men started up
after the boat arrived there
at 2 P.M and found that
it was a Total wreck
ice piled up from 20 feet high
all around
15 Miles

SUNDAY, MARCH 19, 1876.

Thursday 28th 1876
Left Camp 10 a.m Weather
Cloudy but no snow Started
down the Canyon with all
the stuff arrived in camp
at 4 P.M and Commenced
immediately to dry up
our Clothes camp look
like a Laundry.
15 Miles

MONDAY 20

Friday 29 1876
Left Camp at 8 a.m. Weather
Cloudy and slight snow
started on our first days
walking it came very hard
on all hands snow about
2 feet deep camped at point
of rocks on Snake River
12 miles

TUESDAY 21

Saturday 30th 1876
Left camp at 9 a.m Weather
fine followed the River
down all hands where
very tired when encamped
in camp on account of
having to climb over a
divide Camped on a small
creek about ½ a mile from
the river 11 Miles

Dec 1876

WEDNESDAY, MARCH 22, 1876.

Sunday 31st 1876

Left Camp at 9 a.m Weather Cloudy but no snow Started to make a cut off and went about five miles out of our way and the most of the way was up hill passed sulphur Creek and camped in a small bottom at the mouth of it we arrived in Camp at 7 P.m [redacted] came in about 9 P.M had supper just as the new year was coming in all hands where nearly played out it being the severest days march that we have had since we commenced walking

16 Miles

FRIDAY 24

[redacted] DAY, MARCH 25, 1876.

Notes of the Sulphur Springs

I went up to head of Sulphur Creek to see Springs of which there was 6 in number. Four of them where in one basin covering an area of about one Hundred yds Square and ran under ground for about 5 yds the other two where on a side hill above the

SUNDAY 26

first formed has a crater of yellowish rock about 4 feet high around them the rest had no crater around them. The water from them all tasted of Sulphur

January 1877

MONDAY 29

Left Camp at 10 a.m weather Cloudy but no snow had a very hard days travel passed three small creeks I went to the head of Sulphur Creek to look at the Springs (see notes above) arrived in camp at 10 P.M with the packs

20 miles

Tuesday, March 28, 1876. 2nd

Left Camp at 10 a.m. Weather fine Passed two Creeks and camped on Birch Creek at the Hiram's Ranche. Road very fair. Lt Doane left here to ride up the river and we took a straight line for it

18 miles

Wednesday 29 3rd

abandoned Applegate Saddle
Left Camp at 9 a.m. Weather Cloudy and cold but no snow left Hirams Ranche and went to Beche or Willow Creek stopped there about an hour and went to Eagle Rock Bridge and Camped arrived there about 5 P.M. and found some mail waiting for us 22 Miles

Thursday 30 4th

Left Camp 9 a.m. Weather Cloudy but no snow met the ambulance about half way between Eagle Rock Bridge and Fort Hall. arrived at Fort Hall at 2 P.M. The party returned all agreed to get in a Post Office more for me than any nearly played out

25 Miles

Friday, March 31, 1876. 5th

Laid Over at Fort Hall Weather Cloudy and Rainy Rained all night and part of the day drew a Sheet & Wall Tent and fixed up a place to live and had it fixed up very comfortable

Laid Over

Saturday, April 1 6th

Laid Over at Fort Hall Weather fine drew rations for Meat for the month of December Had a little Spree in the evening drank it dry Heard a very nice time

Laid Over

Sunday 2 7th

Laid Over at Fort Hall Weather Fine finished Muster Rolls had a blow out in the evening drank

Laid Over

Jan 1877

MONDAY, APRIL 3, 1876. 8 lbs

Laid Over at Ft Hall Weather Wind blowing hard all day and night and cloudy received telegram for Lt to join Com Station at Ft Ellis all hands very much down in the mouth in consequence

Laid Over

TUESDAY 4 9 lbs

Laid Over at Ft Hall Weather Cloudy and very windy Lt Doane was very mad in consequence of me having to return and so where all the men but me tried to make the best of it. Applegate got 1 Gal of Whiskey to have a good time at night. Laid Over

WEDNESDAY 5 10 lbs

Laid Over at Fort Hall Weather cloudy and very windy blew our stove pipe down several times Lt Doane started to make a Sibley Tent for Co A 14th Inf. had Applegate & Warren to help sew it up

Laid Over

Jan 1877

THURSDAY, APRIL 6, 1876. 11 lbs

Laid Over at Fort Hall Weather Fine Got telegraphic order for our party to proceed to Fort Ellis by stage at once Lt Doane gave me order to take one man and get ready to go to Ellis with a cart to take all the extra baggage Got ready to start in the morning

Laid Over

FRIDAY 7 12 lbs

Left Fort Hall at 10 a.m. with a cart and our three animals Weather Fine and very cold Camped at Schremakers Ranche on Backfoot Creek gave receipt for Hay and Lodging

8 Miles

4 SATURDAY 8 13 lbs

Left Camp at 9 a. m Weather fine and cold arrived at Eagle Rock Bridge at 3.30 P.M and went into Camp.

20 Miles

SUNDAY, ~~August 9, 1876~~ Jan 14 1877 14

Left Camp at 9.30 a. m. Weather Cloudy and snow off and on all day Traveled to Adams Ranche on North Fork of Snake River and Camped

18 miles

MONDAY ~~15~~ 15

Left Camp at 10 a. m. Weather Fine and very Cold Traveled to Sand Hole Station and Camped While found a letter waiting for me

20 miles

TUESDAY ~~16~~ 16

Left Camp at 10 a m Weather Cloudy & Snowing all day Cleaned up the Irrigating ditch to crossing of Dry Creek and Camped

20 miles

WEDNESDAY, ~~August 16, 1876~~ Jan 15 1877 17

Left Camp at 9 a. m Weather Cloudy and snowing all day Snow about 1 foot deep very hard pulling Went to Dry Creek Station and Camped

18 miles

THURSDAY ~~18~~ 18

Left Camp at 9 a. m Weather Cloudy and Windy Snow Drifting Terrible, Had great trouble to get across the divide the Snow was about 3 feet on the level and had drifted Terrible arrived at Pleasant Valley at 11 A M and Camped

8 miles

FRIDAY ~~19~~ 19

Left Camp at 9 A. M Weather Clear, Cold and Windy had great trouble to get across the range stopped and shoveled Many drifts 9 or 10 times Arrived at Williams Junction about midnight and camped

18 miles

Left Camp at 9 a. M Weather Clear, Cold and Windy had great trouble to get over the big hill had to shovel through 2 drifts arrived at Allerdice's Ranche at 3 P.M and went in to Camp

6 Miles

SUNDAY 21

Left Camp at 10 a.m Weather Fine and Cold Snow not quite so deep as yesterday Traveled to Rifle Station and Camped station called Red Rock Station

17 miles

MONDAY 22

Left Camp at 9 a. M. Weather fine and Cold Snow about 1½ feet deep Traveled to Mc Intosh's Ranche and Camped

12 Mile

Left Camp at 10 a. M Weather Fine and cold Traveled through Red Rock Canyon and went to Wakeb P. O and Camped Snow very deep in the Canyon

18 Miles

WEDNESDAY 24

Left Camp at 10 a. m. Weather Fine and not so Cold little better roads than we have been having. Traveled to Martins and Camped

24 Miles

THURSDAY 25

Laid Over at Point of Rocks on account of animals having sore Shoulders Weather Fine and Cold.

Laid Over

FRIDAY, APRIL 23, 1876. 26

Left Camp at 9 a.m. Weather Fine and Cold Roads a little better started to find bench road but missed it and went about 10 miles out of our road Traveled about 22 miles Altogether went to Gainey and Camped

14 Miles

SATURDAY 27

Left Camp at 9 a.m Weather Fine and cold Roads about the same Gray horse very nearly played out unable to go around by the Jefferson on account of them being no travel that way went to Gainey and camped

18 Miles

SUNDAY 28

Left Camp a 9 a.m Weather Fine and Cold Roads very heavy created quite an excitement going in to Virginia City with our Capt Camped in Virginia over night

12 Miles

MONDAY, APRIL 24, 1876. 29

Left Camp at 9 a.m Weather Fine Roads very heavy but not as bad as I had expected Went to Meadow Creek Station and Camped

18 Miles

TUESDAY 25 30

Left Camp at 9 a.m. Weather Clear Cold and windy Snow very heavy almost unable to get over the Devide went to Sterling and Camped

9 Miles

WEDNESDAY 26 31

Left Camp at 9 a.m Weather Fine and Cold Roads not quite as heavy as yesterday went to Blacks Station and Camped

15 Miles

THURSDAY, ~~APRIL 27, 1876.~~ Feb 1877 1st

Left Camp at 9 a.m Weather
Cloudy Roads very Heavy
went to Cockrille Bridge
and Camped

18 Miles

FRIDAY ~~28~~ 2

Left Camp at 9 a.m
Weather fine Roads
lighter than yesterday
Went to Fort Ellis
and Camped

17 Miles

SATURDAY ~~29~~ 3

SUNDAY, ~~APRIL 30, 1876.~~ Feb 1877 4

MONDAY, ~~MAY 1~~ 5

TUESDAY ~~2~~ 6

FRIDAY, NOVEMBER 17, 1876.

Paid for Meals

at	Sand Hole	$4.00
"	Red Rock	$2.00
"	Mc Intoshes	$2.50

SATURDAY 18

SUNDAY 19

MONDAY, NOVEMBER 20, 1876.

TUESDAY 21

WEDNESDAY 22

THURSDAY, NOVEMBER 23, 1876.

Liste of Roads Inn

1/12 Schoemaker for Hay & Lodging
1/13 Andrews for Grain, Hay & Toll
1/14 Adams " Hay, Wood, & Lodging
1/15 Jenkins " Hay & 2 Sacks Oats
1/18 Hankins " Hay, 2 Sacks Grain, & meals, Toll
1/20 Miller " Hay, Grain & feed Stabeling
1/21 Allerdice " Hay, Meals & Stabeling
1/22 Rife " Hay, Stabeling
1/23 Mrs Endreck " " 1 night
1/23 Barrett " Toll $1.00

FRIDAY 24

1/24 Estes " Hay, Oats, meals, Stabeling
1/25 Martin " Hay, Oats, Meals, Stabeling
1/26 Martin " " " " "
1/27 Easton " " " " "
1/28 Beanfie For Lodging, and Meals
1/28 Laurins For Stabeling and Grain
1/29 Perkins " " " "
1/29 Webb " Toll " $1.25

1/30 Berry for Meals, Lodging, Stabeling, Grain
1/31 Gain for " " " "
1/31 Haywood for Toll

SATURDAY 25

2/1 Black for Hay & Grain & Stabeling
2/2 Rockenal " " " " & Toll

SUNDAY, NOVEMBER 26, 1876.

MONDAY 27

Lodging
$3.10
$3.75
$3.75
$3.50

TUESDAY 28

WEDNESDAY, NOVEMBER 29, 1876.

Keenan City Dec 22/76

1 Lieut S. C. Doane 2nd Cavalry.
Boat of Hez Morr. Corinne Utah
2. M. Stores = 1 Ape 2.25 = 3 Helves 2.25 = 1 S. Sc.
Shovel 2.25 = Rope 2.80 = 1 Cross Cut Saw Mayers
Pd $8.00. 17 Sde Canvas 17.00 = 2 Sleds 6.00 $23.00
1 Sack 3.00 = 2½ lbs Cut nails
Rope 2.15

THURSDAY 30

Camp & S. C.
2 Camp Kettles 3.00 = 1 Fry Pan 80 = 2 Mess Pans 80
1 Camp Kettle 1.25 4 Plates 1.20 = 4 Spoons 50 = 1 Pan 50
2 Pans 1.00 = 1 Fry Pan 1.00 1 Bowls 2.50 1 Ape 3.25
1 Bucket 1.00

FRIDAY, DECEMBER 1

Sut Stores.
120 lbs Bly 1.00 = 1½ lbs Mustard 1.50 4 Cans
Pepper 1.00 = 200 lbs Flour 12.00 = 50 lbs Oat Meal 8.00
8 ½ Bacon 26.00 1/4 Doz Yeast Powders 5.00 42½
Butter 17.00 30 Salt 2.40 40 lbs Sugar 10.00 90 Coffee 3.60
6 lbs Candles 2.00 6 lbs Tea 6.00 250 Potatoes
& Onions 12.50 1 Bot Chow Chow 1.50 20 lbs Sard 6.00
1 Can Honey 50 1 Can Tomatoes 60
15 2 lbs Beef 15.20

SATURDAY, DECEMBER 2, 1876.

Sundries
1 lb Tobacco Genl acct 1.00 = 6 Pipes 6.00 (all
except Davis) one each = 1 Doz Matches 1.25
1 Coffee mill 1.50 2 Pr Socks Doane 2.00 1 Pr
Shoes Doane 2.50 = 1 Pr Wool mittens Starr 1.25
1 Box Cigars Doane 5.00 Castor Oil Warren 50
1 Gal Whiskey 6.00 Party - 2 Towels Parry 1.00
Pills Warren 25 5 lbs Soap 1.00 1 Ape Stem
applegate 25 1 Pr Boots Starr 8.00 3 Pr Socks
Starr 1.50 1 Pr Boots Davis 17.00 3 Pr Socks
Davis 1.50 2 Butcher Knives 1.50 Thread Starr 25

SUNDAY 3

4 Canvas Needles Party 20 = Twine 60 2 M
4 Cans Fruit Server 3.00 Cards Server 30
Cigars Supper 1.00 Wire 2. M 25 Beswat
2. M 25 1 file 30 2 M. Gloves Applegate 2.25
Applegate Tobacco 1.50 2 Socks 1.20 Applegate
Server Gloves 2.25 White 2 Socks Starr
1 lb Tobacco 1.00 Server 1 lb Tobacco 1.00 2 Pr
Socks Server 1.20 1 Bot Ginger Starr 50
1 lb Tobacco Warren 1.00 1 Bot Ginger
Warren 50 1 Qt Whiskey 1.50 Doane

9 MONDAY 4

Tobacco 4.75 Qt Doane 5.20 & Cans Fruit
4 Paper Sacks 1.00

Total $279.87

TUESDAY, DECEMBER 5, 1876.

Grover

1	Pipe	$1.00
4	Cake Fruit	2.00
1	Pack Cards	30
	Cayenne	1.00
1 Pr	Gloves	2.25
1 lb	Tobacco	1.00
2 Pr	Socks	1.20
		$9.75

Pd

1645
1 yrd 14.73
24.50
3.00

WEDNESDAY 6

Applegate

1	Pipe	$1.00
1	Pipe Stem	25
1 Pr	Gloves	2.25
1½ lbs	Tobacco	1.50
2 Pr	Socks	1.20
		$6.20

Pd

THURSDAY 7

Davis

1 Pr	Boots	$7.00
3 "	Socks	1.50
		$8.50

Pd

FRIDAY, DECEMBER 8, 1876.

Starr

1	Pipe	$1.00
1 Pr	Mittens Work	1.25
1 Pr	Boots	8.00
3 "	Socks	1.50
	Thread	25
1 lb	Tobacco	1.00
1 Bot	Ginger	50
		$13.50

Pd

SATURDAY 9

Warren

1	Pipe	$1.00
1 Bot	Castor Oil	50
	Pills	25
1 lb	Tobacco	1.00
1 Bot	Ginger	50
		$2.75

Pd

SUNDAY 10

White

1	Pipe	$1.00
2 Pr	Socks	1.20
		$2.20

Pd

MONDAY, DECEMBER 11, 1876.

St Doane

1 Pipe	$1.00
2 Pr Socks	2.00
1 " Shoes	2.50
1 Box Segars	5.00
Tobacco	4.75
8 Cans Fruit	5.20
Collection	18.75
	$39.20

TUESDAY 12

Party.

1 lb Tobacco	$1.00
1 Doz Boxes Matches	1.25
1 Coffee Mill	1.50
1 Gal Whiskey	6.00
2 Towels	1.00
5 lbs Soap	1.00
3 Butcher Knives	1.80
4 Canvass Needles	.40
1 Qt Whiskey	1.50
	$15.45

WEDNESDAY 13

THURSDAY, DECEMBER 14, 1876.

2 lbs Sugar	40
1 Box Tobacco	25
St Doane	1.00
	1.65

FRIDAY 15

SATURDAY 16

SATURDAY, DECEMBER 23, 1876.

SUNDAY 24

MONDAY 25

TUESDAY, DECEMBER 26, 1876.

1 2 3 4 5 6 7 8 9 10 11 12

Sewer. Sgt. in charge
Applegate. Pvt
Davis. " Cook
Starr. "
Warren. "
White. "

Ward Teamsters
Osborn Carpenters

WEDNESDAY 27

THURSDAY 28

FRIDAY, DECEMBER 29, 1876.

Rations
5 Sacks Flour
1 " Sugar
1 " Coffee
1 " Beans
2 " Bacon
2 Sides
10 lbs Tobacco
24 Boxes Yeast Powders
14 lbs Soap
14 lbs Candles
15 " Salt

SATURDAY, 30

1 Box Matches 1 Gross
1 Coffee Mill (Broke Abandoned)

Rations up to 10 /76

1 Pick Axe. (Left with wagon)
1

SUNDAY, 31

Abandoned a mule on the morning of the 17th of Oct. /76 the one called Cammell.
Abandoned a mule on the morning of the 21st of Oct/76 at Tower Creek. Abandoned a mule at Toppin Ranche on the 27th
Abandoned Applegate Horse on the morning of Nov 8th 1876

MEMORANDA.

3 Axes
6 Axe Helves
4 Hatchet Camp.
4 Hatchet Helves
2 Camp Kettle
2 mess Pans
6 Com Tent Pins (Left with wagon)
1 Screw Driver
1 Draw Knife
1 Hand Saw
1 Auger
1 Whetstone
1 Sinker
3 wagon Sheet (1 stone from Wagon Tool H. 1 tent Fly with 2 Tent Flies Wards
19 Pack Saddles Complete
1 Coil Rope 1 inch
1 Rasp
1 Shoeing Hammer
1 Bucket.
600 Rounds Car. Cartridges #50
600 " " " #45
8 Sets Mule Shoes abandoned
1 Box of Medicine
4 Frying Pans
2 Bake Pans
18 Pack Blankets
3 Sets of Harness Abandoned
3 Collars Abandoned
3 Blind Bridles Abandoned
1 Set Cart Lines Abandoned
100 ft. Extra Rope.
1 Pr Pinchers.

MEMORANDA.

1 Grose of 2 in screws. Extra
15 Seamless Sacks. (Abandoned)
1 Long Handle Shovel.
2 Single Trees Abandoned

Sent 6 Pack Blankets 6 Pack Saddle Complete Pack with Hard

Sent One (1) Tent Fly Pack with Hard and kept his wagon sheet in the place of Fly.

1 Wagon Sheet } what we
1 Tent Fly. } kept

Sent Starrs Carbine Pack with Scabbard to be turned in to Sergt Anderson Dept we on Nov 2nd/76.

Abandoned One Nipple on the morning of the 21st of Nov 1876

Abandoned One pack Saddle on the morning of Nov 21st 1876

One Mule Killed itself in the timber on the 23 Nov 1876

MEMORANDA.

Abandoned Harris Horse on Nov 24/76 on Jackson Lake
Abandoned One Axe One Pack Saddle complete One Riding Saddle complete Two Halters One Jacket. On the 24th of Nov /76 on Jacksons Lake
Abandoned Lt Dognes Horse on Nov 26/76 on Jacksons Lake
Abandoned 6 Head Halters 6 Pr Hopples 11 Hose Bags all on Jackson Lake
6 Curry Combs & Brushes
Abandoned Dans Gun on Jackson's Lake Nov 27th/76
Short Warrens Horse for food Dec 2nd/76

Abandoned on the 3rd of Dec /76 15 Seamless Sacks Warrens Carbine & Riding Saddle
Starrs Riding Saddle
Three Sets of Harness Three Bird Bridles Three Collars
One Set of Cart Lines Three Single Trees Ten Pack Blankets
Abandoned on 8th Dec above Grand Canon One Axe One Pack Saw.
Abandoned Whites horse on Dec 11th 1876
All Public property aboard of the boat was left Dec 12/76

Fort Hall

MEMORANDA.

2 M. Stores drew Ar
Returned Jan 6th/76

One Hosp.t Tent ✓
One Wall " ✓
One Set Wall " Poles ✓
One " Hosp.t " " ✓
One " " " Pins ✓
One " Wall " " ✓
One Cook Stove ✓
One Heating Stove ✓
One Coffee Pot ✓
One Boiler ✓
Two Bake Pans ✓
Two Frying " ✓
Six Iron Bunks ✓
24 Bed Slats ✓
3 " Sacks ✓
Seven Joints Stove Pipe ✓
One Elbow ✓

Returned Jan 12/76

Abandoned Applegate Saddle on the Morning of Jan 9th/77 on account being broken on the pommel

MEMORANDA.

100 lbs Flour 5.00
85 " Bacon at 3¢ 5.00
4 Bopes Yeast Powders 2.00
Sugar 3.00
10 lbs Coffee
15 " Salt
2 " Tobacco ¼ lbs Pepper
if get Bull wranks up
Bacon follow up Left hand
fork

Warren $4.00 ✓
Davis $5.00 ✓
Sevier $5.00 ✓
Doane $4.00 ✓
$18.10
Applegate .75
18.75

Dec 1876 24 M

St Hall and 4 Men arrive from Ft Hall in search of us thinking that we where a lot of deserters that where advertisement for one had a great talk

CASH ACCOUNT. DECEMBER.

Date.		Received.	Paid
2	Hams		
2	lbs Flour		
1	Box Mustard		
1	" Yeast Powder		
10	lbs Brown Sugar		
6	lbs Butter		
1	Bot Lemon		
1	Bot Vanilla		
2	lbs Coffee		
1/2	" G. Tea		
1	" Chocolate		
4	Doz Eggs		
2	Qts Milk		
1	Lb Loaf Sugar		
30	Cups } Raisins		
20	Raisins }		
6	Cups } from		
4	Raisins } Corn		

CASH ACCOUNT. DECEMBER.

Date.		Received.	Paid
6	Cups } Molasses		
6	Ounces }		
	Money	26 00	
	Envelopes		1 00
	Eggs		1 60
	Butter		1 80
	Commissary		9 80
	Paper		25
	Antipyr	2 00	
	Milk		2 00
	Candy & Segar		4 00
	Sugar		87

SUMMARY OF CASH ACCOUNT.

		Received.	Paid.
	Starr		
JAN.	One Oven Coat		✓
	One Buffalo Robe		✓
FEB.	One Pr Socks		✓
	One Pr Drawers		✓
MAR	One Oven Shirt		✓
	One Gingham Shirt		✓
APR.	One Pr Boots #9		✓
	One Hat		✓
MAY	Wm Wile		
	One Buffalo Oven Coat		✓
JUN.	One Pr Field Glasses		25.00
	One Scarf		✓
JUL.	Two Pr Stockings		✓
	One Pr Buck Gloves		✓
AUG.			
	Warren		✓
SEP.	One Oven Coat		✓
	Two Blankets		✓
OCT.			
NOV.			
DEC.			

MEMORANDA.

Date.		Dolls.	Cts.

1847

MEMORANDA.

Days Out

Date.			Dolls.	Cts.
Jan	14	Traveled 18 Miles		96
"	16	" 20 "		97
"	16	" 20 "		98
"	17	" 18 "		99
"	18	" 8 "		100
"	19	" 18 "		101
"	20	" 6 "		102
"	21	" 17 "		103
"	22	" 12 "		104
"	23	" 13 "		105
"	24	" 24 "		106
"	25	Laid Over		107
"	26	Traveled 14 Miles		108
"	27	" 18 "		109
"	28	" 12 "		110
"	29	" 18 "		111
"	30	" 9 "		112
"	31	" 15		113
Feb	1	" 18 "		114
"	2	" 17		115
"	3			116
"	4			117
"	5			118
"	6			119
"	7			120
"	8			121
"	9			122
"	10			123
"	11			124
"	12			125
"	13			126
"	14			127

MEMORANDA.

Days Out

Date.		Dolls.	Cts.
Feb	15		128
"	16		129
"	17		130
"	18		131
"	19		132
"	20		133
"	21		134
"	22		135
"	23		136
"	24		137
"	25		138
"	26		139
"	27		140
"	28		141
Mar	1		142
"	2		143
"	3		144
"	4		145
"	5		146
"	6		147
"	7		148
"	8		149
"	9		150
"	10		151
"	11		152
"	12		153
"	13		154
"	14		155
"	15		156
"	16		157
"	17		158
"	18		159

1876

MEMORANDA.

Date.			Dolls.	Cts.	Days Out
Oct.	11	Traveled 18 Miles		1	
"	12	" 17 "		2	
"	13	" 16 "		3	
"	14	Laid Over		4	
"	15	Laid Over.		5	
"	16	Traveled 15 Miles		6	
"	17	" 15 "		7	
"	18	" 6 "		8	
"	19	" 13 "		9	
"	20	" 13 "		10	
"	21	" 18 "		11	
"	22	" 10 "		12	
"	23	" 20 "		13	
"	24	" 20 "		14	
"	25	" 20 "		15	
"	26	Laid Over.		16	
"	27	Traveled 15 Miles		17	
"	28	" 25 "		18	
"	29	" 15 "		19	
"	30	" 14 "		20	
"	31	" 10 "		21	
Nov	1	" 14 "		22	
"	2	" 6 "		23	
"	3	" 3 "		24	
"	4	Laid Over.		25	
"	5	" "		26	
"	6	Traveled 12 Miles		27	
"	7	" 8 "		28	
"	8	" 6 "		29	
"	9	Laid Over		30	
"	10	Traveled 9 Miles		31	
"	11	" 9 "		32	

1876

MEMORANDA.

Date.			Dolls.	Cts.	Days Out
Nov	12	Traveled 10 Miles			33
"	13	" 8 "			34
"	14	Laid Over			35
"	15	Laid Over			36
"	16	Laid Over			37
"	17	Laid Over			38
"	18	Laid Over.			39
"	19	Laid Over			40
"	20	Laid Over			41
"	21	Traveled 8 Miles			42
"	22	" 15 "			43
"	23	" 12 "			44
"	24	" 10 "			45
"	25	Laid Over			46
"	26	Traveled 10 Miles			47
"	27	" 15 "			48
"	28	" 2 "			49
"	29	Laid Over			50
"	30	Traveled 9 Miles			51
Dec	1	" 12 "			52
"	2	Laid Over			53
"	3	Traveled 18 Miles			54
"	4	" 18 "			55
"	5	Laid Over			56
"	6	Traveled 14 Miles			57
"	7	" 8 "			58
"	8	" 15 "			59
"	9	" 20 "			60
"	10	" 15 "			61
"	11	" 6 "			62
"	12	" 6 "			63
"	13	" 12 "			64

MEMORANDA.

1876

Days

Date.		Dolls.	Cts.
Dec	14 Traveled 15 Miles		65
"	15 " 13 "		66
"	16 " 15 "		67
"	17 " 25 "		68
"	18 " 5 "		69
"	19 Laid Over		70
"	20 Laid Over		71
"	21 Laid Over		72
"	22 Laid Over		73
"	23 Traveled 5 Miles		74
"	24 " 5 "		75
"	25 " 16 "		76
"	26 Laid Over		77
"	27 Traveled 15 Miles		78
"	28 " 15 "		79
"	29 " 12 "		80
"	30 " 11 "		81
"	31 " 11 "		82
January	1877		
Jan	1 Traveled 20 miles		83
"	2 " 18 "		84
"	3 " 22 "		85
"	4 " 28 "		86
"	5 Laid Over at Health		87
"	6 Laid Over " "		88
"	7 Laid Over " "		89
"	8 Laid Over " "		90
"	9 Laid Over " "		91
"	10 Laid Over " "		92
"	11 Laid Over " "		93
"	12 Traveled 8 Miles		94
"	13 " 20 "		95

11 days

83

Sat last from Nov 24
at Jacksons Store meals
straight from there to Ho

8 Tree Bags
6 Pr Hopples
4 Hatchets

Dec 1 Trout Caught 65
" 2 " " 16
" 3 " " 3
" 4 " " 10
" 5 " " 15
" 6 " " 19
" 7 " " 10
" 8 " " 01

139

Jos Boreere
Black Smith

1 Rail Chain
6 lbs Raisins

Lost on Jan 18th in a very heavy snow storm the following Articles of Sub. Stores

200 Lbs Flour.
30 " Sugar.
30 " Coffee.
25 " Beans.
60 " Bacon.

On the above mentioned date it was snowing and blowing so hard that it was almost impossible to see your hand before you and while the men where digging away for the wagon the animals (which where nearly dead with hunger) got at the rations and destroyed them.

On Dec 26th/76 Lt Hall and Four men of the 14th Regt. of Infantry joined us with no rations and remained with us until Jan 4th/77 receiving Eleven days rations from us.