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Kirkland Heritage Society

BANCROFT'S

PACIFIC COAST

D I A R Y

FOR

1874,

CONTAINING

Useful Memoranda,

AND

TABLES FOR REFERENCE.

Published Annually.

SAN FRANCISCO:

A. L. BANCROFT & COMPANY,

BOOKSELLERS & STATIONERS,

721 MARKET STREET.

MDCCCLXXIV.

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Calendar.

1874.

	S	M	T	W	T	F	S		S	M	T	W	T	F	S
JAN.	1	2	3	JULY	1	2	3	4
	4	5	6	7	8	9	10		5	6	7	8	9	10	11
	11	12	13	14	15	16	17		12	13	14	15	16	17	18
	18	19	20	21	22	23	24		19	20	21	22	23	24	25
	25	26	27	28	29	30	31		26	27	28	29	30	31	..
FEB.	..	..	..	..	..	..	..	AUG.	..	..	..	..	..	..	1
	1	2	3	4	5	6	7		2	3	4	5	6	7	8
	8	9	10	11	12	13	14		9	10	11	12	13	14	15
	15	16	17	18	19	20	21		16	17	18	19	20	21	22
	22	23	24	25	26	27	28		23	24	25	26	27	28	29
MAR.	..	..	..	..	..	..	..	SEP.	..	..	1	2	3	4	5
	1	2	3	4	5	6	7		6	7	8	9	10	11	12
	8	9	10	11	12	13	14		13	14	15	16	17	18	19
	15	16	17	18	19	20	21		20	21	22	23	24	25	26
	22	23	24	25	26	27	28		27	28	29	30	..	..	..
APR.	..	..	..	1	2	3	4	OCT.	..	..	..	..	1	2	3
	5	6	7	8	9	10	11		4	5	6	7	8	9	10
	12	13	14	15	16	17	18		11	12	13	14	15	16	17
	19	20	21	22	23	24	25		18	19	20	21	22	23	24
	26	27	28	29	30	..	..		25	26	27	28	29	30	31
MAY.	..	..	..	..	..	1	2	NOV.	..	..	..	..	..	..	..
	3	4	5	6	7	8	9		1	2	3	4	5	6	7
	10	11	12	13	14	15	16		8	9	10	11	12	13	14
	17	18	19	20	21	22	23		15	16	17	18	19	20	21
	24	25	26	27	28	29	30		22	23	24	25	26	27	28
JUNE	31	..	..	..	..	..	..	29	30	..	..	..	..	..
	..	1	2	3	4	5	6	..	..	1	2	3	4	5	
	7	8	9	10	11	12	13	6	7	8	9	10	11	12	
	14	15	16	17	18	19	20	13	14	15	16	17	18	19	
	21	22	23	24	25	26	27	20	21	22	23	24	25	26	
28	29	30	..	..	..	..	27	28	29	30	31	..	..

THE LENGTH OF DAYS.

At San Francisco the longest day has 14 $\frac{3}{4}$ hours; at Boston, 15 $\frac{1}{4}$; at Berlin and London, 16 $\frac{1}{2}$; at Stockholm and Upsal, 16 $\frac{1}{2}$; at Hamburg, Dantzic, and Stettin, 17, and the shortest 7. At St. Petersburg and Tobolsk the longest day has 19, and the shortest 5 hours. At Bornea, in Finland, the longest day has 21 $\frac{1}{2}$, and the shortest 2 $\frac{1}{2}$ hours.

Entered according to Act of Congress, A. D. 1873,
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In the office of the Librarian of Congress, at Washington.

FESTIVALS AND FASTS OF THE CHURCH.

Dates italicized apply only to 1874.

EPIPHANY is twelve days after Christmas, January 6th.
SHROVE SUNDAY, the first Sunday before Shrove Tuesday. — *February 15th.*

SHROVE TUESDAY is the first Tuesday after the first change of the moon in February. — *February 17th.*

ASH WEDNESDAY, the day after Shrove Tuesday. — *February 18th.*

The Fast of LENT is from Ash Wednesday to the feast of Easter, forty days.

The FIRST SUNDAY IN LENT is *February 22d.*

ST. PATRICK. — March 17th.

MIDLENT is the fourth Sunday from Shrove Tuesday. — *March 15th.*

CARLE SUNDAY, the fifth Sunday from Shrove Tuesday. — *March 22d.*

PALM SUNDAY, the 6th Sunday from Shrove Tuesday. — *March 29th.*

PASSION WEEK, the week after Palm Sunday. — *March 29th to April 5th.*

GOOD FRIDAY, the Friday in Passion Week. — *April 3d.*

EASTER DAY, the festival appointed in commemoration of Christ's Resurrection, is the seventh Sunday after Shrove Tuesday, or the first after the full moon, which happens on or after the 21st of March. — *April 5th.*

LOW SUNDAY is the first after Easter. — *April 12th.*

ROGATION SUNDAY is the fifth after Easter. — *May 10th.*

ASCENSION DAY, or HOLY THURSDAY, is the Thursday in Rogation Week, the fortieth day from Easter. — *May 14th.*

PENTECOST, or WHITSUNTIDE, is the forty-ninth day, or seventh Sunday after Easter. — *May 24th.*

TRINITY SUNDAY is the next after Pentecost. — *May 31st.*

ST. JOHN BAPTIST'S DAY. — June 24th.

ST. PETER. — June 29th.

ST. MICHAEL. — September 29th.

ALL SAINTS' DAY. — November 1st.

ADVENT SUNDAY, the nearest Sunday to the feast of St. Andrew. — *November 29th.*

ST. ANDREW. — November 30th.

ST. THOMAS. — December 21st.

CHRISTMAS. — December 25th.

ST. STEPHEN. — December 26th.

ST. JOHN, EVANGELIST. — December 27th.

FASTS AND FEASTS FOR 1874.

Septuagesima Sunday	Feb. 1.
Shrove Sunday	" 15.
Ash Wednesday	" 18.
First Sunday in Lent	" 22.
Palm Sunday	March 29.
Good Friday	April 3.
Easter Sunday	" 5.
Low Sunday	" 12.
Rogation Sunday	May 10.
Ascension Day	" 14.
Whit Sunday	" 24.
Trinity Sunday	" 31.
First Sunday in Advent	Nov. 29.
Christmas Day	Dec. 25.

HEBREW CALENDAR.

5634-5635.

[Prepared by Rev. Dr. H. A. Henry.]

COMMENCEMENT { 5634, SEPTEMBER 22-23, 1873.
OF THE YEAR { 5635, SEPTEMBER 12-13, 1874.

	NEW MOONS.	FASTS AND FEASTS.	DATES.
5634	<i>Shevat</i>		Mon., Jan. 19 1874.
"	<i>Adar</i>	Tues. & Wed.,	Feb. 17-18, "
"	<i>Adar 13</i>	Fast of Esther	Mon., March 2, "
"	<i>Adar 14-15</i>	Purim	Tu. & We., March 3-4, "
"	<i>Neson</i>		Thur., March 19, "
"	<i>Neson 15-22</i>	Pesach	Thur. to Thur., Apr. 2 to 9, "
"	<i>Iyar</i>		Fri & Sat., April 17-18, "
"	<i>Iyar, 18</i>	Lag Laomer	Tues., May 5, "
"	<i>Sivan</i>		Sun., May 17, "
"	<i>Sivan, 6-7</i>	Shebuot	Fri. & Sat., May 22-23, "
"	<i>Tammooz</i>		Mon & Tues., June 15-16, "
"	<i>Tammooz, 17</i>	Fast	Thurs., July 2, "
"	<i>Ab</i>		Wed., July 15, "
"	<i>Ab, 9</i>	Fast of Tishabeab	Thurs., July 23, "
"	<i>Ellool</i>		Thurs & Fri., Aug. 13-14, "
5635	<i>Tishree, 1-2</i>	New Year	Sat. & Sun., Sept. 12-13, "
"	<i>Tishree, 3</i>	Fast of Gedaliah	Mon., Sept. 14, "
"	<i>Tishree, 10</i>	Fast of Yom-Kippur	Mon., Sep. 21, "
"	<i>Tishree, 15-16</i>	Succoth-Tab. Sa.	Su., Sep 26-27, "
"	<i>Tishree, 21</i>	Hoshaanah Rabbah	Fri., Oct. 2, "
"	<i>Tishree, 22</i>	Sheminee Atzareth	Sat., Oct. 3, "
"	<i>Tishree, 23</i>	Simchat Torah	Sun., Oct. 4, "
"	<i>Heshvan</i>		Sun & Mon., Oct. 11-12, "
"	<i>Kislive</i>		Tues., Nov. 10, "
"	<i>Kislive, 25</i>	Hanucah, (first day)	Fri., Dec. 4, "
"	<i>Tivise</i>		Wed., Dec. 9, "
"	<i>Tivise, 10</i>	Fast	Fri., Dec. 18, "

DIVISIONS OF TIME.

A SOLAR DAY is measured by the rotation of the earth upon its axis, and is of different lengths, owing to the ellipticity of the earth's orbit and other causes; but a mean solar day, recorded by the time-piece, is twenty-four hours long. An ASTRONOMICAL DAY commences at noon, and is counted from the first to the twenty-fourth hour. A CIVIL DAY commences at midnight, and is counted from the first to the twelfth hour, when it is recounted again from the first to the twelfth hour. A NAUTICAL DAY is counted as a civil day, but commences like an Astronomical Day, from noon.

A CALENDAR MONTH varies in length from 28 to 31 days. A MEAN LUNAR MONTH is 29 days, 12 hours, 44 minutes, 2 seconds, and 5.24 thirds.

A YEAR is divided into 365 days. A SOLAR YEAR, which is the time occupied by the Sun in passing from one Vernal Equinox to another, consists of 365.24244 solar days, or 365 days, 5 hours, 48 minutes, and 49.536 seconds. A JULIAN YEAR is 365 days. A GREGORIAN YEAR is 365.2425 days. Every fourth year is BISSEXTILE, or LEAP YEAR, and is 366 days.

LOCATIONS
OF
Public Offices and Buildings
IN
SAN FRANCISCO.

ACADEMY OF NATURAL SCIENCES, 622 Clay street.
ARMY HEADQUARTERS, 703 Market and 509 Kearney, streets.
ASSAY OFFICES:
California Assay Office, 512 California st.
Eureka Works, east side 12th street, bet. Howard and Folsom.
Louis Falkenau, State Assayer, 421 Montgomery street.
Henry G. Hanks, 649 Clay street.
Hentsch & Berton, cor. Clay and Leidesdorff streets.
W. A. Langley, 334 Montgomery street.
Leopold Kuh, 611 Commercial street.
J. A. Mars, 512 California street.
J. S. Phillips, 423 Washington street.
F. Reichling & Co., 334 Montgomery street.
Riehn, Hemme & Co., 404 Montgomery street.
Riotte & Luckhardt, 21 First street
S. F. Assaying and Refining Works, 416 Montgomery st.
John Scott, 423 Mission street.
W. L. Strong & Co., 10 Stevenson street.
B. B. Thayer, 1 New Montgomery street.

ASYLUMS:
Protestant Orphan, Laguna and Haight streets, near Market street R. R.
Roman Catholic Orphan, Market st., bet. Second and Third.
Magdalen, Potrero Avenue, near Twenty-first street.

BANCROFT'S BOOK, STATIONERY AND MUSIC MERCANTILE AND MANUFACTURING ESTABLISHMENT, 721 Market street.

BANKS AND BANKERS:
Bank of British Columbia, S. E. cor. California and Sansome streets.
Bank of British North America, N. E. cor. California and Sansome sts.
Bank of California, cor. California and Sansome sts.
Belloc Freres, 524 Montgomery street.
A. Borel & Co., cor. Montgomery and Clay sts.
B. Davidson & Co., N. W. cor. Montgomery and Commercial streets.
Donohoe, Kelly & Co., S.E. cor. Montgomery and Sacramento streets.
First National Bank, (Gold.) N. W. cor. Montgomery and Sacramento sts.
Hentsch & Berton, cor. Clay and Leidesdorff streets.
Hickox & Spear, 500 Montgomery street.
London and San Francisco Bank, 423 California st.
Merchant's Exchange Bank, 415 California street.
NATIONAL GOLD AND TRUST Co., N. E. cor. California and Sansome Streets.
Pacific Bank, N. W. cor. Sansome and Pine sts.

BANKS AND BANKERS: *Continued.*

Sather & Co., N.E. c. Montgomery and Commercial sts.
J. Seligman & Co., 412 California street.
Tallant & Co., N. E. cor. California and Battery Streets.
Wells, Fargo & Co., N.W. c. Montgomery and California streets.

BIBLE DEPOSITORY, 757 Market street.
BOARD OF BROKERS, San Francisco Stock and Exchange, 411 California st.
BOARD OF EDUCATION, 22 City Hall, 2nd floor, op. the Plaza.
BOARD OF SUPERVISORS, Room 3 City Hall, op. the Plaza.
CALIFORNIA STEAM NAVIGATION Co., N. E. cor. Front and Jackson streets.
CHAMBER OF COMMERCE, New Merchants' Exchange, cor. California and Leidesdorff sts.
CHINA AND JAPAN STEAMERS, cor. First and Bryant sts.

CHURCHES:
Baptist, First, north side Washington street, near Stockton.
Baptist, Second, Columbia Square, west side Russ st., bet. Howard and Folsom.
Baptist, Third, (colored), east side Powell st., bet. Bush and Sutter.
Baptist, Tabernacle, Post street, near Larkin.
Baptist, Union Square, Post street, near Powell.
Baptist, Fifth, Twenty-second st., near Howard.
Baptist Mission Chapel, Tenth street, near I street, South San Francisco.
Chinese Mission House, N. E. cor. Sacramento and Stockton streets.
Chinese Mission House of the M. E. Church, Washington street, bet. Stockton and Powell.
Congregationalist, First, cor. Mason and Post streets.
Congregationalist, Second, Taylor street, near Geary.
Congregationalist, Third, Fifteenth street, near Mission.
Congregationalist, Fourth, S. side Green, near Stockton street.
Disciples Church of Christ, Druid's Hall, 413 Sutter st.
Episcopal, Grace, S. E. cor. California and Stockton sts.
Episcopal, Trinity, N. E. cor. Post and Powell sts.
Episcopal, St. John's, cor. Fifteenth and Valencia sts.
Episcopal, Advent, Howard st., op. New Montgomery.
Episcopal, St. James', Post street, near Mason.
Episcopal, St. Luke's, Pacific st., near Polk.
Episcopal, St. Peters, cor. Stockton and Filbert streets.
Episcopal, St. Albans, Corinthan Hall, Mechanics' Institute Building.
Hebrew, Emanu El, Sutter, b. Stockton and Powell sts.
Hebrew, Sherith Israel, N. E. cor. Post and Taylor sts.
Hebrew, Ohabai Shalome, Mason, bet. Geary and Post streets.
Hebrew, Beth Israel, Sutter street, near Stockton.
Hebrew, Shaarey Tzedek, Stockton street, between Pacific and Broadway.
Lutheran, First, German, Mission street, b. Second and Third.
Lutheran, St. Paul's, German, Mission st, b. Fifth and Sixth.

CHURCHES: *Continued.*

Lutheran, St. Mark's, German, south side of Geary Street, bet. Stockton and Powell.
 Lutheran, Emanuel, German, N. side Jessie street, b. Sixth and Seventh.
 Mariner's Church, cor. Sacramento and Drumm sts.
 Methodist Episcopal, Powell Street, west side Powell st. bet. Washington and Jackson.
 Methodist, Howard Street, Howard street, bet. Second and Third.
 Methodist, Central, Mission st., bet. Sixth and Seventh.
 Methodist, Bush street, Bush street, near Divisadero.
 Methodist, Minna St., Minna st., bet. Fourth and Fifth.
 Methodist, Kentucky St., on the Potrero, n. L. Bridge.
 Methodist, Mission Street, Mission st., bet. Eighteenth and Nineteenth.
 Methodist, Seaman's Bethel, Mission street, bet. First and Second.
 Methodist, Bernal Wesleyan, Prospect Avenue, Bernal Heights.
 Methodist, South San Francisco, on Fifteenth avenue, S. S. F.
 Methodist, German, Folsom st., bet. Fourth and Fifth.
 Methodist, German, north side Broadway, bet. Stockton and Powell sts.
 Methodist, African (colored), west side Powell, bet. Jackson and Pacific streets.
 Methodist, Zion Wesleyan, (colored), Stockton st., near Sacramento.
 Presbyterian, First, Stockton street, near Clay.
 Presbyterian, Calvary, cor. Geary and Powell sts.
 Presbyterian, Howard, S. side Mission st., near Third.
 Presbyterian, Larkin Street, c. Larkin and Pacific sts.
 Presbyterian, Central, Tyler st., near Taylor.
 Presbyterian, Howard st., Howard st., bet. Twenty-first and Twentysècond.
 Presbyterian, St. Johns, Post Street, bet. Mason and Taylor.
 Presbyterian, Olivet, Tennessee street, near Siena, South San Francisco.
 Presbyterian, Memorial, Eighteenth Avenue, near Railroad, South San Francisco.
 Presbyterian, First German Mission, 524 Greenwich st., near Stockton.
 Presbyterian, Emanuel, Harrison, st., bet. Fifth and Sixth.
 Presbyterian, Westminster, Fell street, b. Octavia and Laguna.
 Presbyterian, United, Mason st., bet. Ellis and Eddy.
 Reformed Protestant, Excelsior Hall, 711 Mission st.
 Roman Catholic, St. Mary's Cathedral, N. E. c. California and Dupont sts.
 Roman Catholic, St. Francis, Vallejo street, b. Dupont and Stockton sts.
 Roman Catholic, St. Patrick's, Mission st., bet. Third and Fourth.
 Roman Catholic, St. Rose's, Brannan st., near Fourth.
 Roman Catholic, St. Boniface, (German,) Tyler st., bet. Jones and Leavenworth.

CHURCHES, (*continued.*)

Roman Catholic, St. Ignatius, Market, bet. Fourth and Fifth streets.
 Roman Catholic, Notre Dame, (French), Bush, between Dupont and Stockton streets.
 Roman Catholic, Mission Dolores, S.W. cor. Sixteenth and Dolores sts.
 Roman Catholic, St. Joseph's, Tenth street, bet. Folsom and Howard sts.
 Roman Catholic, St. Bridget's, S.W. cor. Van Ness Avenue and Broadway.
 Russian Church, 911 Jackson street.
 St. Peter's, Columbia street, near Twenty-fourth.
 Spiritualists, Mechanics' Institute Hall, 29 Post st.
 Swedenborgian, New Jerusalem, O'Farrell street, bet. Mason and Taylor.
 Unitarian, First, Geary street, near Stockton.
 CITY HALL, Kearney street, opposite the Plaza.
 COAST SURVEY, 629 Kearney street.
 COMMISSIONER OF IMMIGRATION, 614 Merchant street.
 COURTS:
 Federal, U. S. Court Building, N. E. cor. Washington and Battery sts.
 District, County, and Probate, City Hall, op. the Plaza.
 Justices of the Peace, N. E. cor. Jackson and Montgomery sts., 2d floor.
 CUSTOM HOUSE, N.W. cor. Battery and Washington streets.
 DASHAWAY HALL, Post street, near Dupont.
 EXPRESSES:
 Alameda and Contra-Costa, (Bamber & Co.) S. W. cor. Jackson and Davis streets.
 Oakland and San Francisco, N. W. cor. Pacific and Davis streets.
 San Francisco Transfer Company, 6 New Montgomery st.
 Wells, Fargo & Co., N. W. cor. California and Montgomery sts.
 GAS COMPANIES:
 Metropolitan, office 304 Pine street.
 City, office 411½ California street.
 San Francisco, office S. E. cor. First and Natoma sts.
 HARBOR COMMISSIONERS, 414 Montgomery street.
 HOSPITALS AND BENEVOLENT SOCIETIES:
 Alms House, near Lake Honda.
 British, 730 Montgomery street.
 County, S.W. cor. Francisco and Stockton streets.
 French Mutual Benevolent Society, 808 Montgomery st.
 German, 732 Washington street.
 Italian, 430 Jackson street.
 Marine, Rincon Point, cor. Mission and Fifteenth sts.
 San Francisco Female, 917 Clay street, cor. Prospect pl.
 S. F. Lying-in Hospital and Foundling Asylum, 269 Jessie street.
 St. Luke's, cor. Esmeralda and Prospect Avenues.
 St. Mary's Sisters of Mercy, cor. Bryant and First sts.
 INDIAN AGENT, 224 Kearney street.
 INDUSTRIAL SCHOOL, Office, City Hall, No. 9, third floor.
 INTERNAL REVENUE: Office, U. S. Court building.
 LADIES' PROTECTION AND RELIEF SOCIETY, Franklin street, between Post and Geary streets.
 LAND OFFICE, 506 Jackson street.

LIBRARIES:

Mercantile, N. side Bush street, near Montgomery.
 Odd Fellows, 327 Montgomery, near California street.
 Mechanics' Institute, 27 Post st.
 San Francisco Law Library, 16 Exchange Building, N. E. cor. Montgomery and Washington sts.
 MARSHAL, U. S., 13 and 14 U. S. Court Building, N. E. cor. Washington and Battery streets.
 MASONIC HALL, cor. Montgomery and Post streets.
 MECHANICS' INSTITUTE, 27 Post street.
 MERCHANTS' EXCHANGE, south side California street, near Montgomery.
 MEXICAN STEAMSHIP LINE, Office, 217 Sansome street.
 MINT, U. S. Branch, north side Commercial street, near Montgomery.

NEWSPAPER AND PERIODICAL OFFICES:

Abend Post, (German, daily,) 521 Clay street.
 Advocate, (Methodist, weekly), 711 Mission street.
 Alaska Herald, 611 Clay street.
 Alta California, (daily,) 529 California street.
 Bancroft's Guide for Travellers in the Pacific States and Territories, 721 Market street.
 California Demokrat, (German, daily,) N.W. cor. Sacramento & Kearney sts.
 California Farmer, (weekly,) 320 Clay street.
 California Horticulturist, 622 Clay street.
 California Police Gazette, N. E. Montgomery and Jackson streets.
 California Teacher, (monthly), 637 Kearney street.
 Catholic Guardian, 407 Sansome street.
 Commercial Herald, 409 Washington Street.
 Courier de San Francisco, (French,) 515 Jackson st.
 El Hispano Americano, (Spanish, tri-weekly,) 603 Washington street.
 Elevator, (colored, weekly,) 616 Battery street.
 Evangel, (Baptist, weekly,) 414 Clay street.
 Evening Bulletin, (daily,) 622 Montgomery street.
 Examiner, (daily,) 533 Washington street.
 Figaro, (daily,) 532 Merchant street.
 Golden Era, (weekly,) 543 Clay street.
 Guide, 521 Clay street.
 Hebrew, (weekly,) 612 Commercial street.
 Hebrew Observer, (weekly,) 502 Montgomery street.
 Irish News, 432 Montgomery street.
 L'Alouette, (French), 621 Sansom street.
 La Voce del Popolo, (Italian,) 603 Washington street.
 La Voz Nuevo Mondo, 728 Montgomery street.
 L' Eco Della Patria, (Italian, semi-weekly,) 637 Washington street.
 Masonic Mirror, (weekly,) 608 Market street.
 Monitor, (Catholic, weekly,) 622 Clay street.
 Morning Call, (daily,) 523 Montgomery street.
 New Age, (I. O. O. F., weekly,) 421 Montgomery street.
 Occident, (Presbyterian, weekly,) 326 Sansome street.
 Overland Monthly, 409 Washington street.
 Pacific, (Congregationalist, weekly,) 536 Clay street.
 Pacific Appeal, (colored, weekly,) S. W. cor. Sansome and Commercial sts.
 Pacific Churchman, (Episcopal, weekly,) 536 Market st.

NEWSPAPER AND PERIODICAL OFFICES, *Continued.*

Pacific Medical and Surgical Journal, (monthly,) 409 Washington st.
 Pacific Methodist, (weekly,) 721 Market street.
 Pacific Rural Press, (weekly,) 338 Montgomery st.
 Pioneer, (weekly,) 420 Montgomery street.
 Real Estate Circular, (monthly,) 338 Montgomery st.
 San Francisco Chronicle, 504 Montgomery street.
 San Francisco News Letter, 623 Montgomery street.
 Scientific Press, (weekly,) 338 Montgomery street.
 Spirit of the Times, (weekly,) cor. Sansom and Jackson streets.
 Transcript of Records, (daily,) 317 California street.
 Western Lancet, (monthly,) 721 Market street.
 ODD FELLOWS HALL, S.W. c. Montgomery and California sts.
 OLYMPIC CLUBS, California, cor. New Montgomery and Howard streets, San Francisco, 35 Sutter street, near Montgomery.
 OREGON STEAMSHIP LINE, Office, 217 Sansome street.
 PACIFIC MAIL STEAMSHIP COMPANY, cor. First and Brannan streets.
 PIONEER HALL, 808 Montgomery street, cor. Gold.
 POLICE OFFICE, City Hall, opposite the Plaza.
 POST OFFICE, Custom House, cor. Battery and Washington streets.
 RAILROAD COMPANIES:
 California Pacific, cor. Front and Vallejo streets; Office, 635 Market st.
 Central Pacific, cor. Davis and Pacific; Office, 635 Market street.
 S. F., San Jose and Gilroy, 635 Market street.
 RECORDER'S OFFICE, City Hall.
 REGISTRAR IN BANKRUPTCY, 10 Court Block, 636 Clay street.
 SAVINGS BANKS:
 Farmers' and Mechanics' Bank of Savings, 225 Sansom street.
 French Savings and Loan Mutual, 411 Bush st.
 Germania Savings and Loan, 526 California street.
 Hibernia Savings and Loan, N.E. cor. Montgomery and Market streets.
 Humboldt Savings and Loan, 16 Geary street.
 Land Mortgage Union, 123 Post street.
 Masonic Savings and Loan, 6 Post Street.
 Odd Fellows' Savings and Loan, S.W. cor. Montgomery and California sts.
 San Francisco Savings Union, 532 California street.
 Savings and Loan Society, 619 Clay street.
 Security Savings Bank, 304 Sansome street,
 STEAMBOAT LANDINGS, Broadway Street Wharf.
 STEAMER (Ocean) LANDINGS, cor. First and Brannan streets.
 STREET RAILWAYS:
 Central, (Davis, Bush, Turk, and Sixth,) Office, 116 Taylor st., near Turk.
 City, (New Montgomery and Mission,) S. W. corner Mission and Fourteenth sts.
 Front Street, Mission, and Ocean, 1336 Bush street.
 Market Street, cor. Market and New Montgomery sts.
 North Beach and Mission, Fourth street, near Bryant. cor. Louisa.

LOCATIONS OF PUBLIC OFFICES, ETC.

STREET RAILWAYS *Continued.*

Omnibus, 721 Howard street, bet. Third and Fourth.
 Potrero and Bay View, Kentucky and Sonoma streets.
 SURVEYOR GENERAL'S OFFICE, U. S., N. W. cor. Pine and Sansome streets.

TELEGRAPH OFFICES:

Western Union, 522 California street. Branches, Grand Hotel, Cosmopolitan Hotel, S. W. cor. Sacramento and Front streets.

Atlantic and Pacific, 507 California street. Branches, Occidental Hotel, Grand Hotel, 538 Market street, foot of Pacific and foot of Second street.

UNION HALL, Howard street, near Third.

UNITED STATES SUB-TREASURY, 428 Montgomery street.

WATER WORKS, Spring Valley, 516 California street.

YOUNG MEN'S CHRISTIAN ASSOCIATION, North side Sutter st., bet Kearney and Dupont.

STAMP DUTIES.

PROPRIETARY MEDICINES, Perfumery, Cosmetics, Preparations, &c., each package retailed at not over

25 cents,	\$0 1
Over 25 cents and not over 50 cents,	0 2
Over 50 cents and not over 75 cents,	0 3
Over 75 cents and not over \$1,	0 4
Every additional 50 cents or part thereof 2 cents more,	

FRICTION MATCHES, or lucifer matches, or other articles made in part of wood, and used for like purposes, each package of 100 matches, or part thereof, ...

0 1	
Packages of more than 100 matches, for each 100 or part thereof,	0 1

CIGAR LIGHTS, made in part of wood, wax, glass, paper, or other materials, in packages containing twenty-five lights or less, each package,

0 1	
Every additional twenty-five lights, or part thereof, 1 cent more.	

PLAYING CARDS, for and upon every pack, not exceeding fifty-two cards in number, irrespective of price or value,

0 5

No stamps are required upon any papers or documents except the two cent stamps upon bank checks, drafts or orders; all others, except as above specified, having been repealed by act of Congress. To take effect October 1 1872.

THE SEASONS.

Vernal Equinox,	March 20th	1h. ... 30 m P. M.
Autumnal Equinox,	Sept. 23d	0h. ... 15m A. M.
Summer Solstice,	June 21st	10h. ... 0m A. M.
Winter Solstice,	Dec. 21st	6h. ... 14m P. M.

SAN FRANCISCO

FIRE ALARM STATIONS.

FIRE ALARM BOXES are located at the corners of the following streets:

- | | |
|--|----------------------------------|
| 1. Stockton and Francisco. | 62. Mission and Fourth. |
| 2. Mason and Lombard. | 63. Harrison and Fourth. |
| 3. Stockton and Greenw'h. | 64. Howard and Fifth. |
| 4. Sansome and Greenw'h. | 65. Mission and Sixth. |
| 5. Battery and Union. | 67. Harrison & Hawthorne. |
| 6. Montgomery and Green. | 68. Brannan and Fourth. |
| 7. Kearney and Union. | 69. Bryant and Third. |
| 8. Powell and Union. | 71. Mission and Eleventh. |
| 9. Dupont and Vallejo. | 72. Mission and Thirteenth. |
| 12. California and Kearney. | 73. Howard and Eighth. |
| 13. Front and Broadway | 74. Engine No. 7, Sixteenth. |
| 14. Stockton and Broadw'y. | 75. Market, opp. Seventh. |
| 15. Clay and East. | 76. Market and Hayes. |
| 16. Pacific and Mason. | 78. Folsom and Ninth. |
| 17. Pacific and Kearney. | 79. Folsom and Twelfth. |
| 18. Sansome and Jackson. | 81. Franklin and Hayes. |
| 19. Washington and Davis. | 82. Fulton and Gough. |
| 21. City Hall. | 83. Octavia and Oak. |
| 23. Clay and Taylor. | 84. Market and Valencia. |
| 24. Clay and Powell. | 85. Laguna and Hayes. |
| 25. Washington & Dupont. | 91. Hyde and Turk. |
| 26. Clay and Battery. | 92. Franklin and Turk. |
| 27. Montgomery and Commercial. | 93. Jones and Turk. |
| | 94. Polk and Ellis. |
| 28. Pine and Dupont. | 123. Hyde and Union. |
| 29. Stockton and California. | 124. Pioneer Woolen Mills. |
| 31. Halleck and Sansome. | 125. Filbert and Jones. |
| 32. California and Drumm. | 126. Hyde and Washington. |
| 34. Mission and Stewart. | 127. Broadway and Polk. |
| 35. Montgomery and Pine. | 128. Sacramento and Leavenworth. |
| 36. Folsom and Stewart. | 129. Pacific & Leavenw'th. |
| 37. Battery and Bush. | 132. Pine and Mason. |
| 38. Market and Second. | 134. Bush and Hyde. |
| 39. Howard and Spear. | 135. Bush and Polk. |
| 41. Sutter, near Jones. | 136. Post and Van Ness av. |
| 42. Geary and Mason. | 137. Post and Larkin. |
| 43. O'Farrell, near Dupont. | 138. California and Larkin. |
| 45. O'Farrell and Jones. | 139. O'Farrell and Hyde. |
| 46. Kearney and Sutter. | 142. Valencia and Twent'th. |
| 47. Market and Powell. | 143. Mission and Twenty-second. |
| 48. Market and Kearney. | 145. Folsom and Twenty-second. |
| 49. Stockton and Sutter. | 146. Folsom and Sixteenth. |
| 51. Folsom and Beale. | 147. Howard and Twent'th. |
| 52. Mission and Fremont. | 148. Mission and Sixteenth. |
| 53. Townsend and Third. | 149. Folsom and Eight'nth. |
| 54. Engine House, No. 4, Second st. | 152. Brannan and Eighth. |
| 56. Bryant, west of First. | 153. Harrison and Seventh. |
| 57. Brannan and Second. | 154. Bryant and Sixth. |
| 58. Folsom and First. | 156. Fourth and Berry. |
| 59. P. M. S. S. Co.'s wharf, foot of Second. | 157. Folsom, east of Fourth. |
| 61. Howard and Third. | |

FIRE ALARM STATIONS.

- | | |
|--|--|
| 158. Folsom, east of Fifth.
159. Engine House, No. 6,
Sixth, near Folsom.
162. Pacific and Franklin.
163. Sacramento and Frank-
lin.
164. Clay and Polk.
172. McAllister and Buch-
anan.
173. Ellis and Buchanan. | 174. Turk and Fillmore.
213. Bush and Buchanan.
214. Bush and Steiner.
215. Washington & Webster
216. Sacramento & Fillmore.
231. Howard and Twenty-
fourth.
234. Harrison and Twenty-
fourth. |
|--|--|

HACK FARES IN SAN FRANCISCO.

*ORDER No. 285, amending Section 4 of Order No. 43,
regulating Hacks, Cabs, and other Vehicles in Public
Streets.*

RATES OF FARE.

For a Hack for one person, not exceeding one mile.	\$1 50
For a Hack for two or more persons, not exceeding one mile.	2 50
For each additional mile, for each passenger.	50
For a Cab for one person, not exceeding one mile.	1 00
For a Cab for two or more persons, not exceeding one mile.	1 50
For each passenger for each additional mile.	25
For a Cab for two persons, when engaged by the hour, to be computed for the time occupied in going and returning, including detention, for the first hour.	1 50
For each subsequent hour so used.	1 00
For a Hack or Cab for four or less persons, when engaged by the hour, to be computed for the time occupied in going and returning, includ- ing detention, for the first hour.	3 00
For each subsequent hour so used.	2 00

*No extra charge to any passenger shall be made for the
ordinary amount of baggage.*

SEC. 5 OF ORDER 43.—“From the landing of any steamboat
to any point east of the west line of Mason street, and north of
the south line of Brannan street east of Third street, shall in all
cases be estimated not to exceed one mile.”

The penalty for the violation of any of the provision
of the above Order shall not be less than five dollars, no^s
more than ten dollars for each offence, exclusive of costs. †

DISTANCES FROM SAN FRANCISCO

To various points in the vicinity of San Francisco Bay.

-
- FORT POINT, 4 miles north-west of City Hall, Street Railway
passing through the Presido.
- SEAL ROCK, 6 miles west, Street Railway to the Cemeteries,
three miles then Omnibus.
- DRY DOCK, on Hunters Point, 6 miles south, Street Railway.
- SAN MATEO, 20 miles south, Southern Pacific Railroad.
- CRYSTAL SPRINGS, 3 miles west of San Mateo, Stage.
- PESCADERO, 30 miles southerly of San Mateo, Stage.
- REDWOOD CITY, 30 miles south, S. P. R. R.
- MENLO PARK, 33 miles south, S. P. R. R.
- SANTA CLARA, 47 miles south-east, S. P. R. R.
- SAN JOSE, 50 miles south-east, S. P. R. R.
- CONGRESS SPRINGS, or Saratoga, 11 miles south-west of
Santa Clara, Stage.
- NEW ALMADEN MINES, 14 miles south of San Jose, Stage.
- GILROY, 80 miles south-east, S. P. R. R.
- WATSONVILLE, 30 miles west of Gilroy, Branch Railroad.
- SANTA CRUZ, 20 miles north-west of Watsonville, Stage.
- SANTA CRUZ, 80 miles south, Ocean Steamer.
- MONTEREY, 100 miles south, Ocean Steamer.
- OAKLAND, 7 miles east, Ferry passing Goat Island and Rail-
road.
- ALAMEDA, 10 miles east, Ferry and Railroad.
- SAN LEANDRO, 15 miles easterly, Ferry and Central Pacific
Railroad.
- WARM SPRINGS, 33 miles south-east, Ferry and C. P. R. R.
- STOCKTON, 90 miles east, Ferry and C. P. R. R.
- SAN PABLO, 12 miles north of Oakland, Stage.
- BENICIA, 30 miles north-east, River Steamer.
- MARTINEZ, 3 miles south of Benicia, Ferry.
- MT. DIABLO COAL MINES, 11 miles east of Martinez, Stage.
- STOCKTON, 117 miles via San Joaquin River, River Steamer.
- SACRAMENTO, 117 miles north-east, via Sacramento River,
River Steamer.
- VALLEJO AND MARE ISLAND, 28 miles north-east, Bay
Steamer.
- SUISUN AND FAIRFIELD, 20 miles north-east of Vallejo, Cal.
Pac. R. R.
- SACRAMENTO, 68 miles north-east of Vallejo, C. P. R. R.
- NAPA CITY, 15 miles north of Vallejo, C. P. R. R.
- CALISTOGA, 41 miles north of Vallejo, C. P. R. R.
- GEYSER SPRINGS, 28 miles north west of Calistoga, Stage.
- SAN QUENTIN, (State Prison,) 12 miles north, Bay Steamer.
- SAN RAFAEL, 4 miles west of San Quentin, Railroad.
- PETALUMA, 48 miles north, Bay Steamer.
- SANTA ROSA, 15 miles north of Petaluma, Railroad.
- HEALDSBURG, 30 miles north of Petaluma, Railroad.
- GEYSERS, 20 miles north-east of Healdsburg, Stage.
- SAUCILITO, 6 miles north-west, Ferry passing Alcatraz.
- FARALLONE ISLANDS, 21 miles west, in the Ocean.

WEIGHTS AND MEASURES.

WEIGHT OF UNITED STATES COINS.

	Grains.	Ounces.	Grains.	Ounces.
Double Eagle	= 516	= 1.075	3-Dollar piece	= 77.4 = .16125
Eagle	= 258	= 0.5375	Quarter Eagle	= 64.5 = .144375
Half-Eagle	= 129	= 0.26875	Dollar piece	= 25.8 = .05375

The ounce of Gold is valued at \$18.6046.
The ounce of Silver is valued at \$1.25.

TROY WEIGHT.

Pound.	Ounces.	Pennyweights.	Grains.	Pounds Avoir.
1	= 12	= 240	= 5,760	= .822861
..	1	= 20	= 480	= .068571
..	..	1	= 24	= .0034285

AVOIRDUPOIS WEIGHT.

Ton.	Cwt.	Pounds.	Ounces.	Drams.
1	= 20	= 2,240	= 35,840	= 573,440
..	1	= 112	= 1,792	= 28,672
..	..	1	= 16	= 256
..	..	..	1	= 16

APOTHECARIES' WEIGHT.

Pound.	Ounces.	Drams.	Scruples.	Grains.
1	= 12	= 96	= 288	= 5,760
..	1	= 8	= 24	= 480
..	..	1	= 3	= 60
..	..	..	1	= 20

LIQUID CAPACITY.

Gallon.	Quarts.	Pints.	Gills.	Cubic Inches.
1	= 4	= 8	= 32	= 231.
..	1	= 2	= 8	= 57.75
..	..	1	= 4	= 28.875
..	..	..	1	= 7.2175

A cylinder 7 inches in diameter and 6 inches high, holds a gallon.

A cubic foot contains 6.232 gallons.

DRY CAPACITY.

1 Bushel = 4 Pecks = 8 Gallons = 32 Quarts = 2150.42 Cubic Inches.

A cylinder 18.5 inches in diameter and 8 inches deep, holds a bushel.

WEIGHTS AND MEASURES.

MEASURES OF LENGTH.

Mile.	Furlongs.	Chains.	Rods.	Yards.	Feet.	Inches.
1	= 8	= 80	= 320	= 1,760	= 5,280	= 63,360
..	1	= 10	= 40	= 220	= 660	= 7,920
..	..	1	= 4	= 22	= 66	= 792
..	..	..	1	= 5.5	= 16.5	= 198
..	..	..	..	1	= 3	= 36
..	..	..	..	..	1	= 12

1 Statute Mile = 5,280 feet = .86275 Nautical Miles.

1 Nautical Mile = 6,120 feet = 1.15068 Statute Miles.

60 Nautical Miles = 69,545 Statute Miles.

1 Cable Length = 120 Fathoms = 240 Yards = 720 Feet.

MEASURES OF SURFACE.

Sq. Mile.	Acres.	Sq. Chains.	Sq. Rods.	Sq. Yards.	Sq. Feet.
1	= 640	= 6,400	= 102,400	= 3,097,600	= 27,878,400
..	1	= 10	= 160	= 4,840	= 43,560
..	..	1	= 16	= 484	= 4,356
..	..	..	1	= 30.25	= 272.25
..	..	..	..	1	= 9

A lot 220 by 198 feet = 1 Acre.

A 50-vara lot, San Francisco measurement, is 137½ feet square.

A 100-vara lot is 275 feet square. The San Francisco Vara is 2 feet 9 inches. The true Vara is 2.781 feet. A San Francisco 100-vara lot = 1.7367 Acres.

DRAWING PAPER.

Cap	13 × 16 in.	Columbier	23 × 33½ in.
Demy	15½ × 19½ "	Atlas	26 × 33 "
Medium	18 × 22 "	Theorem	28 × 34 "
Royal	19 × 24 "	Double Elephant	26 × 40 "
Super-royal	19 × 27 "	Antiquarian	31 × 52 "
Imperial	21¼ × 29 "	Emperor	40 × 60 "
Elephant	22¾ × 27¾ "	Uncle Sam	48 × 120 "

SPECIFIC GRAVITY OF SUBSTANCES.

Barometer, 30 in.; Fahren. Thermometer, 60 deg.

Platinum, wire	21.04	Aluminium	2.56
Gold, British standard	17.49	Glass, flint	2.8 to 3.6
Mercury	13.57	Limestone	2.4 to 3.0
Lead	11.35	Slate	2.1 to 2.9
Silver	10.51	Marble, Parian	2.84
Copper	8.8 to 8.9	Granite	2.65 to 2.75
Brass	7.8 to 8.7	Chalk	2.2 to 2.7
Steel	7.83	Ivory	1.83
Iron, wrought	7.79	Mahogany	1.06
Iron, cast	7.21	India Rubber	0.93
Tin	7.30	Proof Spirit	0.92
Zinc	6.2 to 7.2	Alcohol, pure	0.79
Antimony	6.7	Cork	0.24

VALUE OF FOREIGN GOLD AND SILVER COINS.

		D.	C.	M.
AUSTRIA	Gold, Quadruple Ducat	9	12	0
"	Ducat	2	27	5
"	Sovereign (for Lombardy)	6	75	0
"	Silver, Rix Dollar	0	97	0
"	Florin	0	48	5
"	Twenty Kreuzers	0	16	0
"	Lira (for Lombardy)	0	16	0
"	Five Gulden	2	04	0
BADEN	Gold, Crown	1	07	0
"	Silver, Gulden, or Florin	0	39	5
"	Ducat	2	27	0
BAVARIA	Gold, Crown	1	06	5
"	Silver, Florin	0	39	5
"	Six Kreuzers	0	03	0
"	Twenty-franc piece	3	83	2
BELGIUM	Gold, Twenty-five-franc piece	4	72	0
"	Silver, Five Francs	0	93	0
"	Two-and-a-half Francs	0	46	5
"	Two Francs	0	37	0
"	Franc	0	18	5
BOLIVIA	Gold, Doubloon	15	58	0
"	Silver, Dollar	1	00	6
"	Half Dollar (debased, 1830)	0	37	5
"	Quar. Dollar (debased, 1830)	0	18	7
BRAZIL	Gold, Piece of 6400 Reis	8	72	0
"	Silver, Twelve hundred Reis	0	99	2
"	Eight hundred Reis	0	66	0
"	Four Hundred Reis	0	33	0
BREMEN	Silver, Thirty-six Grote	0	35	6
BRITAIN	Gold, Sovereign	4	84	5
"	Silver, Half Crown	0	54	0
"	Shilling	0	21	7
"	Sixpence	0	10	8
"	Fourpence	0	07	1
BRUNSWICK	Gold, Ten Thaler	7	89	0
"	Silver, Thaler	0	68	0
CENT'L AMERICA	Gold, Doubloon	14	96	0
"	Silver, Escudo	1	67	0
"	Dollar (about)	0	67	0
COSTA RICA	Gold, Half Doubloon (1850)	7	62	0
"	Silver, New Real	0	05	8
CHILI	Gold, Doubloon (before 1835)	15	57	0
"	Doubloon (1835, and since)	15	66	0
"	Silver, Dollar	1	01	0
"	Quarter Dollar	0	22	4
"	Eighth Dollar, or Real	0	11	2
DENMARK	Gold, Double Fred. or Ten Thaler	7	88	0
"	Silver, Rigsbank Daler	0	52	3
"	Specie Daler	1	04	7
"	Thirty-two Skillings	0	17	0
EQUADOR	Gold, Half Doubloon	7	60	0
"	Silver, Quarter Dollar	0	18	7
EGYPT	Gold, Hundred Piastres	4	97	0
"	Silver, Twenty Piastres	0	96	0
FRANCE	Gold, Twenty Francs	3	85	0
"	Silver, Five Francs	0	93	2
"	Franc	0	18	5
FRANKFORT	Silver, Florin	0	39	5
GREECE	Gold, Twenty Drachms	3	45	0
"	Silver, Drachm	0	10	5
GUYANA, BRITISH	Silver, Guilder	0	23	2
HANOVER	Gold, Ten Thaler	7	89	0
"	Silver, Thaler (fine silver)	0	39	2
"	Thaler (750 fine)	0	68	0
HAYTI	Silver, Dollar, or 100 Centimes	0	25	7

VALUE OF FOREIGN COINS.

		D.	C.	M.
HESSE CASSEL	Silver, Thaler	0	67	5
"	One-sixth Thaler	0	11	0
HESSE DARMSTADT	Florin, or Gulden	0	39	0
HINDOSTAN	Gold, Mohur (E. I. Co.)	7	10	0
"	Silver, Rupee	0	44	5
MECKLENBURG	Gold, Ten Thaler	7	89	0
MEXICO	Gold, Doubloon (average)	15	53	0
"	Silver, Dollar (average)	1	00	7
NAPLES	Silver, Scudo	0	94	0
NETHERLANDS	Gold, Ducat	2	20	5
"	Ten Guilders	4	00	7
"	Silver, Three Guilders	1	20	0
"	Guilder	0	40	0
"	Twenty-five Cents	0	09	5
"	Two-and-a-half Guilders	0	98	2
NEW GRANADA	Gold, Doubloon, 21 carat stand.	15	61	0
"	" includ'g the silver	15	66	0
"	" nine-tenths stand.	15	31	0
"	" includ'g the silver	15	36	0
"	Silver, Dollar, usual weight	1	02	0
"	Dollar, or Ten Reals, 1851.	0	93	0
NORWAY	Silver, Rigsdaler	1	05	0
PERSIA	Gold, Tomann	2	23	0
"	Silver, Sahib Koran	0	21	5
PERU	Gold, Doubloon, Lima, to 1833	15	55	0
"	Doubloon, Cuzco, to 1833	15	62	0
"	Doubloon, Cuzco, 1837	15	53	0
"	Silver, Dollar, Lima mint	1	00	6
"	Dollar, Cuzco	1	00	8
"	Half Dollar, Cuzco, debased	0	36	0
"	Half Dollar, Arequipa	0	36	0
"	Half Dollar, Pasco	0	49	5
"	"	0	11	2
POLAND	Silver, Zloty	8	65	0
PORTUGAL	Gold, Half Joe (full weight)	5	81	0
"	Crown	0	55	2
"	Silver, Cruzado	1	12	0
"	Crown of 1000 Reis	0	56	0
"	Half Crown	0	56	0
PRUSSIA	Gold, Double Frederick	8	00	0
"	Silver, Thaler, average	0	68	0
"	One-sixth Thaler, average	0	11	0
"	Double Thaler, or 3½ Gulden	1	39	0
ROME	Gold, Ten Scudi	10	37	0
"	Silver, Scudo	1	00	5
"	Teston (3-10 Scudo)	0	30	0
"	"	3	96	7
RUSSIA	Gold, Five Roubles	0	75	0
"	Silver, Rouble	0	75	0
"	Ten Zloty	1	13	5
"	Thirty Copecks	0	22	0
"	"	3	84	5
SARDINIA	Gold, Twenty Lire	0	93	2
"	Silver, Five Lire	7	94	0
SAXONY	Gold, Ten Thaler	2	26	0
"	Ducat	0	96	0
"	Silver, Specie Thaler	0	68	0
"	Thaler (XIV. F.M.)	0	58	5
SIAM	Silver, Tical	3	90	5
SPAIN	Gold, Pistole (Quarter Doubloon)	0	19	5
"	Silver, Pistareen (4 Reals Vellon.)	1	04	2
SWEDEN	Silver, Specie Daler	0	52	0
"	Half Daler	4	37	4
TURKEY	Gold, Hundred Piastres	0	82	0
"	Twenty Piastres (new)	0	82	0
"	Silver, Twenty Piastres (new)	2	30	0
TUSCANY	Gold, Sequin	1	05	0
"	Silver, Leopoldone	0	26	2
"	Florin	0	38	5
WURTEMBERG	Silver, Gulden, 1824	0	39	5
"	Gulden, 1838, and since	0	39	5
"	Double Thaler, or 3½ Gulden	1	39	0

THE METRIC SYSTEM.

GERMANY.—The new German Empire has adopted a new and uniform system of coinage, which contemplates the gradual withdrawal of the coins of the various States composing the Empire, and the substitution of the new coinage as follows:

A pound of fine gold is divided into 139½ pieces. the one-tenth part of this gold coin is called a "Mark," and is subdivided into 100 Pennies, (Pfennige.)

A TEN MARK piece, the unit of the coinage is equal to 3¼ South German Thalers, or 3 1-93 Bremen Gold Thalers. Its value is \$2.43.

JAPAN.—The new system of coinage for Japan embraces four gold coins valued respectively at \$20, \$10, \$5, and \$2.

THE METRIC SYSTEM.

MEASURES OF LENGTH.

Metric Denominations and Values.	Equivalents in Denominations in use.
Myriameter = 10,000 meters	= 6,2137 miles.
Kilometer = 1,000 meters	= 0.62137 m., or 3,280 ft., 10 in.
Hectometer = 100 meters	= 328 feet and 1 inch.
Dekameter = 10 meters	= 393.7 inches.
Meter = 1 meter	= 39.37 inches.
Decimeter = .1 of a meter	= 3.937 inches.
Centimeter = .01 of a meter	= 0.3937 inch.
Millimeter = .001 of a meter	= 0.0394 inch.

MEASURES OF SURFACE.

Metric Denominations and Values.	Equivalents in Denominations in use.
Hectare = 10,000 square meters	= 2.471 acres.
Are = 100 square meters	= 119.6 square yards.
Centare = 1 square meter	= 1550 square inches.

MEASURES OF CAPACITY.

Metric Denominations and Values.	Equivalents in Denominations in use.
<small>NAME. NO. OF LITERS. CUBIC MEASURE. DRY MEASURE. WINE MEASURE.</small>	
Kiloliter or stere = 1,000	= 1 cubic meter = 1,308 cubic yds. = 264.17 galls.
Hectoliter = 100	= .1 cubic meter = 2 bush., 3.35 pks. = 26.417 galls.
Dekaliter = 10	= 10 c. decimet's = 9.08 quarts = 2.6417 galls.
Liter = 1	= 1 m. decimeter = 0.908 quart = 1.0567 qts.
Deciliter = .1	= .1 c. decimeter = 6.1022 cubic ins. = 0.845 gill.
Centiliter = .01	= 10 c. centimet's = 0.6102 cubic in. = 0.338 fluid oz.
Milliliter = .001	= 1 c. centimeter = 0.001 cubic inch = 0.27 fluid dr.

WEIGHTS.

Metric Denominations and Values.	Equivalents in Denominations in use.
<small>Names. No. grams. Weight of what quantity of water at maximum density. Avoirdupois Weight.</small>	
Millier or tonneau = 1,000,000	= 1 cubic meter = 2204.6 pounds.
Quintal = 100,000	= 1 hectoliter = 220.46 pounds.
Myriagram = 10,000	= 10 liters = 22.046 pounds.
Kilogram or kilo = 1,000	= 1 liter = 2.2046 pounds.
Hectogram = 100	= 1 deciliter = 3.5274 ounces.
Dekagram = 10	= 10 c. centimet's = 0.3527 ounce.
Gram = 1	= 1 c. centimeter = 15.432 grains.
Decigram = .1	= .1 c. centimeter = 1.5432 grains.
Centigram = .01	= 10 c. millimet's = 0.1543 grain.
Milligram = .001	= 1 c. millimeter = 0.0154 grain.

METEOROLOGICAL TABLE.

The following table shows the mean Fahrenheit temperature of January and July, the semi-annual range between them, and the average annual rain fall in inches of various towns in California as compared with other places.

LOCALITY.	Jan'y	July.	Range.	Rain-fall in inches
Sonoma.....	45°	66°	21°	25in
Vallejo.....	48	63	15	25
San Francisco.....	49	57	8	23
Monterey.....	52	58	6	20
Santabarbara.....	54	71	17	15
Los Angeles.....	52	75	23	12
San Diego.....	51	72	21	10
Humboldt Bay.....	40	58	18	30
Sacramento.....	45	73	28	20
St. Augustine.....	57	80	23	55
St. Paul.....	13	73	60	30
Mentone.....	40	73	33	23
Funchal.....	60	70	10	—
New York.....	31	73	42	43
London.....	37	62	25	34

SPECIFIC GRAVITY OF SUBSTANCES.

Barometer, 30 in. ; Fahren. Thermometer, 60 deg.

Platinum, wire.....	21.04	Aluminium.....	2.56
Gold, British standard.....	17.49	Glass, flint.....	2.8 to 3.6
Mercury.....	13.57	Limestone.....	2.4 to 3.0
Lead.....	11.35	Slate.....	2.1 to 2.9
Silver.....	10.51	Marble, Parian.....	2.84
Copper.....	8.8 to 8.9	Granite.....	2.65 to 2.75
Brass.....	7.8 to 8.7	Chalk.....	2.2 to 2.7
Steel.....	7.83	Ivory.....	1.83
Iron, wrought.....	7.79	Mahogany.....	1.06
Iron, cast.....	7.21	India Rubber.....	0.93
Tin.....	7.30	Proof Spirit.....	0.92
Zinc.....	6.2 to 7.2	Alcohol, pure.....	0.79
Antimony.....	6.7	Cork.....	0.24

CHRONOLOGICAL CYCLES, 1874.

Dominical Letter.....	D.	Lunar Cycle or Golden No.	13
Epact.....	12	Roman Indiction.....	2
Solar Cycle.....	7	Julian Period.....	6,587

Rates of Postage.

MAILABLE MATTER is divided into three classes, viz: 1. Letters. 2. Regular Printed Matter. 3. Miscellaneous Matter.

I. LETTERS. This class embraces all correspondence, wholly or partially in writing except book manuscripts and corrected proof sheets.

LETTERS TO ANY PART OF THE UNITED STATES, 3 cents for each 1-2 ounce or fraction thereof.

DROP LETTERS at letter carrier offices, 2 cents for each half ounce; at other than letter-carrier offices, one cent for each half ounce.

POSTAL CARDS with stamp impressed upon them, 1 cent each.

MANUSCRIPTS for publication in newspapers and periodicals are subject to letter postage.

LETTERS PREPAID shall be forwarded from one post office to another at the request of the party addressed, without additional postage.

LETTERS containing the address of the writer on the envelope, will be returned to the writer in 30 days if not called for, instead of being sent to the dead letter office.

II. REGULAR PRINTED MATTER. This class embraces all newspapers and periodicals regularly issued at stated periods from a known office. Rates vary according to frequency of issue and weight of paper.

III. MISCELLANEOUS MATTER. This class embraces pamphlets, occasional publications, transient newspapers, handbills, circulars, prospectuses, books, book manuscripts, proof sheets, corrected proof sheets, maps, prints, engravings, blanks, flexible patterns, samples of merchandise not exceeding 12 ounces, sample cards, letter envelopes, plain and ornamental paper, seeds, cuttings, bulbs, roots, scions, samples of ores, metals, mineralogical specimens, and all other articles which are not, from their form or nature, liable to destroy, deface, or injure the contents of the mail bag. All liquids, poisons, glass, explosive materials and obscene books shall be excluded from the mails.

All matter of this class, excepting books and other printed matter, and book manuscripts, shall not exceed 12 ounces.

On mailable matter of the III class, except as herein stated, the postage is one cent for each 2 ounces or fraction thereof. Double these rates is charged for books, metals, ores, minerals and merchandise.

ALL MAILABLE MATTER, for delivery within the United States, except newspapers sent to regular subscribers, must be *prepaid* by stamps, except duly certified letters of soldiers and sailors.

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.

FOREIGN POSTAGE.

LETTERS TO MEXICO, JAPAN, CHINA, MANILA, PANAMA, ASPENWALL, AUSTRALIA, TASMANIA AND FIJI ISLANDS, 10 cents for each 1-2 ounce. Postage on newspapers 2 cents each.

LETTERS TO BRITISH COLUMBIA, AND THE HAWAIIAN ISLANDS 6 cents for each 1-2 ounce.

LETTERS TO PERU, CHILI and other Pacific South American Ports, 22 cents for each 1-2 ounce.

LETTERS TO NEW ZEALAND, 12 cents for each 1-2 ounce.

LETTERS TO THE DOMINION OF CANADA, 6 cents for each 1-2 ounce if prepaid, and 10 cents if unpaid.

LETTERS TO GREAT BRITAIN OR IRELAND, 6 cents for each 1-2 ounce. Prepayment optional; but, if unpaid, subject to a *fine*.

LETTERS TO GERMANY, 6 cents for each 1-2 ounce by the Bremen mail, and 7 cents by the English closed mail. Prepayment optional, but if unpaid subject to fine.

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.

TIDES AT SAN FRANCISCO.

NOTE.—The tables of Tides for San Francisco are obtained from the latest data of the United States Coast Survey. These Tides are extremely irregular, both as regards interval and height. The two daily tides may occur either during the same morning, or during the same afternoon. In the tide columns of these pages the asterisk (*) denotes the second morning tide, and the obelisk (†) the first afternoon tide of the day when so occurring. Finally, the larger tide of the day is distinguished by the letter (l), and the smaller by (s.)

IMPORTANT EPOCHS AND ERAS,

WITH THE PERIODS OF THEIR COMMENCEMENT.

Grecian Year of the World.....	September 1, B. C. 5508.
Julian Period.....	January 1, B. C. 4713.
Jewish Mundane Era.....	Vernal Equinox, B. C. 3761.
Destruction of Troy.....	June, B. C. 1184.
Building of Solomon's Temple.....	May, B. C. 1015.
Era of Olympiads.....	New Moon, Summer Solstice, B. C. 776.
Roman Era.....	April 24, B. C. 753.
Era of Nabonasser.....	February 26, B. C. 747.
Metonic Cycle.....	July 15, B. C. 432.
Julian Year.....	January 1, B. C. 45.
Augustan Era.....	February 14, B. C. 27.
Indiction of Constantinople.....	September 1, B. C. 3.
Christian Era.....	January 1, A. D. 1; A. M. 4004.
Destruction of Jerusalem.....	September 21, A. D. 69.
Era of Diocletian.....	September 17, A. D. 284.
Era of Hegira.....	July 16, A. D. 622.
Persian Era.....	June 16, A. D. 632.
Conquest of England.....	October 14, A. D. 1066.
Declaration American Independence.....	July 4, A. D. 1776.

THE SOLAR SYSTEM.

The Sun, the centre of the Solar System, has a diameter of 885,680 miles, its bulk is 1,400,000 times greater than that of the Earth, and 700 times greater than that of all the bodies revolving around it.

THE PLANETS.

Name.	Diameter in Miles.	Volume.	Distance from Sun.	Period of Revolution.
Mercury,	2,950	1-19	36,000,000	3 mos.
Venus,	7,800	9-10	67,000,000	7½ mos.
Earth,	7,912	1	92,000,000	1 yr.
Mars,	4,500	1-6	140,000,000	2 yrs.
Asteroids,	(approximate)		250,000,000	4½ yrs.
Jupiter,	89,000		1,400,480,000,000	12 yrs.
Saturn,	79,000	1,000	876,000,000	29 yrs.
Uranus,	35,000	86	1,762,000,000	84 yrs.
Neptune,	31,000	60	2,760,000,000	164 yrs.

The Moon's diameter is 2,160 miles, and her volume one forty-ninth of that of the Earth. She revolves in her orbit once in 29½ days, at a distance of 240,000 miles from the Earth.

The Asteroids exceed one hundred in number. Leverrier estimates that their aggregate mass does not exceed one-third of that of the Earth.

VELOCITY OF THE EARTH'S MOTION.—The Earth moves forward in its orbit, 1,640,000 miles per day, 68,000 miles per hour, 1,100 miles per minute, and nearly 19 miles every second.

APPARENT TIME is reckoned by the revolutions of the Sun from the meridian to the meridian again. These intervals being unequal, of course the apparent solar days are unequal to each other.

MEAN TIME is time reckoned by the average length of all the solar days throughout the year. This is the period which constitutes the civil day of 24 hours.

TIME TABLE.

Time of day at various places on the globe when it is 12 o'clock (noon) at San Francisco.

A. M.	H	M	S	P. M.	H	M	S
Astoria, Oregon..	11	54	12	Halifax, N. S.....	3	55	36
Calcutta, India....	1	35	56	Havana, Cuba.....	2	41	00
Canton, China....	3	43	00	Jerusalem, Pal....	10	31	24
Honolulu, H. I....	9	39	8	Lima, Peru.....	3	1	36
Melbourne, Aust..	5	48	00	London, Eng.....	8	9	31
Pekin, China.....	3	56	00	Los Angeles, Cal..	12	16	30
Sydney, Australia..	6	14	00	Louisville, Ky....	2	27	4
Singapore, E. I....	3	8	00	Mexico, Mex.....	1	33	44
Shanghai, China... 4	12	40		Mecca, Ara.....	10	50	00
Tobolsk, Siberia... 12	43	00		Montreal, Canada..	3	15	44
Yedo, Japan.....	5	30	00	New Orleans, La... 2	9	40	
Yreka, Cal.....	11	59	30	New York City....	3	14	00
				Nevada, Cal.....	12	5	15
				Oregon City, Ore..	12	0	40
				Panama, Isthmus..	2	52	40
				Paris, France.....	8	19	24
				Philadelphia, Pa... 3	9	22	
				Placerville, Cal....	12	6	18
				Portland, Me.....	3	29	8
				Rio Janeiro, Brazil.	5	17	8
				Rome, Italy.....	9	0	3
				Sacramento, Cal... 12	3	58	
				Santa Fe, N. Mex..	12	55	44
				Salt Lake City....	12	41	40
				St. Louis, Mo.....	2	9	4
				St. Petersburg....	10	11	20
				Stockholm, Swd'n..	9	22	20
				Toronto, Canada... 2	52	00	
				Vienna, Austria... 9	15	35	
				Washington, D.C..	3	2	00

At the Isle of France, Indian Ocean, it is midnight, when it is noon at San Francisco.

List of Sundays in 1874.

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

ECLIPSES IN THE YEAR 1874.

In the year 1874 there will be four Eclipses, two of the Sun and two of the Moon; and a transit of Venus over the Sun's disc.

I. A Total Eclipse of the Sun, April 16, invisible. Visible to the southern portions of South America and Africa.

II. A Partial Eclipse of the Moon, May 1, invisible. Visible to parts of Asia, Africa, Australia and Sandwich Islands.

III. An Annular Eclipse of the Sun, October 10th, invisible. Visible to Europe and parts of Asia and Africa.

IV. A Total Eclipse of the Moon, night of October 24,—25. Visible as follows:

	D	H	M
Moon enters Penumbra,	24	8	34 P.M.
Moon enters Shadow,	24	9	32 "
Total Phase begins,	24	10	50 "
Middle of the Eclipse,	24	11	7 "
Total Phase ends,	24	11	23 "
Moon leaves Shadow,	25	0	41 A.M.
Moon leaves Penumbra,	25	1	39 "

Magnitude of Eclipse = 1.053 (Moon's diameter = 1).

NOTE. To find time of occurrence at any other place correct by difference of time between the place and San Francisco.

V. A Transit of Venus over the Sun's disc, December 8th, invisible. Visible entire to Eastern Asia and Australia, and in part to Africa and Sandwich Islands.

A Transit of Venus furnishes the most accurate method for determining the distance of the earth from the Sun. The last occurrence of this phenomenon happened in 1769, when expeditions on the most extensive scale were fitted out by the larger civilized governments of the world for the purpose of observing it. The highest interest attaches to this present occurrence, as from some independent reasons it is suspected that the Sun's accepted distance is too large by about two millions of miles.

ALMANAC FOR 1874.

January.

MOON'S PHASES.

Full Moon, 2d. 10h. 53m. M.
Last Quarter, 10d. 11h. 45m. M.
New Moon, 17d. 11h. 50m. A.
First Quarter, 24d. 4h. 32m. A.

February.

MOON'S PHASES.

Full Moon, 1d. 3h. 26m. M.
Last Quarter, 9d. 8h. 19m. M.
New Moon, 16d. 11h. 5m. M.
First Quarter, 23d. 2h. 35m. M.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m	D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Th	7 16	4 51	9 35	6 33	1	S	7 45	5 24	10 20	rises
2	Fr	7 16	4 52	9 36	rises	2	Mo	7 35	5 25	10 22	6 46
3	Sa	7 16	4 54	9 38	5 52	3	Tu	7 25	5 26	10 24	7 46
4	S	7 16	4 55	9 39	6 55	4	We	7 25	5 28	10 26	8 45
5	Mo	7 16	4 56	9 40	7 57	5	Th	7 15	5 29	10 28	9 43
6	Tu	7 16	4 57	9 41	8 58	6	Fr	7 05	5 29	10 29	10 40
7	We	7 16	4 58	9 42	9 57	7	Sa	6 59	5 30	10 31	11 37
8	Th	7 16	4 59	9 43	10 55	8	S	6 58	5 32	10 34	morn
9	Fr	7 16	4 59	9 43	11 51	9	Mo	6 57	5 33	10 36	0 38
10	Sa	7 15	5 0	9 45	morn	10	Tu	6 55	5 34	10 39	1 40
11	S	7 15	5 1	9 46	0 49	11	We	6 54	5 35	10 41	2 45
12	Mo	7 15	5 2	9 47	1 49	12	Th	6 53	5 36	10 43	3 48
13	Tu	7 15	5 3	9 48	2 52	13	Fr	6 52	5 38	10 46	4 48
14	We	7 15	5 4	9 49	3 56	14	Sa	6 51	5 39	10 48	5 42
15	Th	7 14	5 5	9 51	5 2	15	S	6 50	5 39	10 49	6 29
16	Fr	7 14	5 6	9 52	6 6	16	Mo	6 49	5 40	10 51	sets
17	Sa	7 14	5 8	9 54	7 4	17	Tu	6 48	5 42	10 54	7 4
18	S	7 14	5 9	9 55	sets	18	We	6 47	5 43	10 56	8 21
19	Mo	7 13	5 10	9 57	6 56	19	Th	6 46	5 44	10 58	9 35
20	Tu	7 13	5 11	9 58	8 12	20	Fr	6 45	5 44	10 59	10 47
21	We	7 12	5 12	10 0	9 26	21	Sa	6 44	5 45	11 1	morn
22	Th	7 12	5 13	10 1	10 39	22	S	6 42	5 46	11 4	0 0
23	Fr	7 11	5 14	10 3	11 49	23	Mo	6 41	5 48	11 7	1 10
24	Sa	7 11	5 15	10 4	morn	24	Tu	6 39	5 49	11 10	2 18
25	S	7 10	5 16	10 6	0 59	25	We	6 37	5 49	11 12	3 21
26	Mo	7 9	5 17	10 8	2 10	26	Th	6 36	5 50	11 14	4 16
27	Tu	7 8	5 18	10 10	3 18	27	Fr	6 35	5 52	11 17	5 1
28	We	7 7	5 19	10 12	4 24	28	Sa	6 34	5 53	11 19	5 38
29	Th	7 7	5 20	10 13	5 24	...	...	...	...	...	...
30	Fr	7 6	5 22	10 16	6 17	...	...	...	...	...	...
31	Sa	7 5	5 23	10 18	7 2	...	...	...	...	...	...

HIGH TIDES :: JANUARY.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	0 14s	9 52t*	17	0 19s	10 21t*
2	0 52s	10 32t*	18	1 4s	11 16t*
3	1 30s	10 25t*	19	1 51s	0 17t
4	2 13s	0 16t	20	2 30s	1 16t
5	2 50s	1 6t	21	3 6s	2 10t
6	3 20s	2 11t	22	3 44s	3 20t
7	3 51s	3 11t	23	4 31s	4 35t
8	4 25s	4 5t	24	5 12t	6 2s
9	5 19t	4 46s	25	5 50t	7 25s
10	5 28t	5 53s	26	6 42t	8 42s
11	6 3t	6 57s	27	7 27t	9 53s
12	6 31t	8 6s	28	8 15t	11 9s
13	7 6t	9 18s	29	8 55t	11 55s
14	7 52t	10 23s	30	9 38t	
15	8 29t	11 28s	31	0 36s	10 20t*
16	9 28t				* F or expla

HIGH TIDES :: FEBRUARY.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	1 8s	11 14t*	16	0 37s	11 13t
2	1 48s	0 3t	17	1 16s	0 26t*
3	2 17s	0 50t	18	1 39s	1 25t
4	2 40s	1 37t	19	2 17s	2 21t
5	3 1s	2 28t	20	2 41t	3 31s
6	3 10t	3 17s	21	3 19t	4 45s
7	3 27t	4 22s	22	4 6t	6 6s
8	3 56t	5 32s	23	4 57t	7 23s
9	4 32t	6 45s	24	5 50t	8 44s
10	5 19t	7 54s	25	6 45t	9 45s
11	6 0t	9 10s	26	7 45t	10 43s
12	7 10t	10 17s	27	8 40t	11 28s
13	8 19t	11 13s	28	9 27t	
14	9 25t	11 59s			
15	10 25t				

ALMANAC FOR 1874.

March.

MOON'S PHASES.

Full Moon, 2d. 9h. 11m. A.
 Last Quarter, 11d. 1h. 24m. M.
 New Moon, 17d. 8h. 52m. A.
 First Quarter, 24d. 2h. 21m. A.

D of M	D of W	Sun Rise h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Mo	6 32	5 54	11 22	6 11
2	Mo	6 31	5 54	11 23	rises
3	Tu	6 30	5 55	11 25	6 37
4	We	6 28	5 57	11 29	7 35
5	Th	6 27	5 58	11 31	8 31
6	Fr	6 25	5 58	11 33	9 29
7	Sa	6 24	5 59	11 35	10 28
8	Mo	6 22	6 1	11 39	11 30
9	Mo	6 20	6 2	11 42	morn
10	Tu	6 19	6 2	11 43	0 33
11	We	6 17	6 3	11 46	1 35
12	Th	6 16	6 5	11 49	2 35
13	Fr	6 14	6 6	11 52	3 29
14	Sa	6 13	6 6	11 53	4 18
15	Mo	6 11	6 7	11 56	5 0
16	Mo	6 10	6 8	11 58	5 35
17	Tu	6 8	6 9	12 1	6 7
18	We	6 7	6 10	12 3	sets
19	Th	6 5	6 11	12 6	8 24
20	Fr	6 4	6 12	12 8	9 40
21	Sa	6 2	6 12	12 10	10 55
22	Mo	6 1	6 13	12 12	morn
23	Mo	5 59	6 14	12 15	0 7
24	Tu	5 57	6 16	12 19	1 13
25	We	5 55	6 17	12 22	2 11
26	Th	5 54	6 17	12 23	3 1
27	Fr	5 52	6 18	12 26	3 42
28	Sa	5 51	6 19	12 28	4 15
29	Mo	5 50	6 20	12 30	4 44
30	Mo	5 48	6 21	12 33	5 8
31	Tu	5 47	6 22	12 35	5 30

April.

MOON'S PHASES.

Full Moon, 1d. 3h. 9m. A.
 Last Quarter, 9d. 2h. 10m. A.
 New Moon, 16d. 5h. 43m. M.
 First Quarter, 23d. 3h. 53m. M.

D of M	D of W	Sun Rise h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	We	5 46	6 22	12 36	rises
2	Th	5 44	6 23	12 39	7 23
3	Fr	5 43	6 24	12 41	8 22
4	Sa	5 41	6 25	12 44	9 23
5	Mo	5 40	6 26	12 46	10 24
6	Mo	5 38	6 27	12 49	11 26
7	Tu	5 36	6 28	12 52	morn
8	We	5 35	6 29	12 54	0 27
9	Th	5 33	6 30	12 57	1 22
10	Fr	5 32	6 31	12 59	2 12
11	Sa	5 31	6 32	13 1	2 55
12	Mo	5 30	6 33	13 3	3 32
13	Mo	5 28	6 34	13 6	4 4
14	Tu	5 27	6 35	13 8	4 33
15	We	5 25	6 35	13 10	5 2
16	Th	5 23	6 36	13 13	sets
17	Fr	5 22	6 37	13 15	8 30
18	Sa	5 21	6 38	13 17	9 45
19	Mo	5 19	6 39	13 20	10 56
20	Mo	5 18	6 40	13 22	morn
21	Tu	5 16	6 41	13 25	0 0
22	We	5 15	6 42	13 27	0 56
23	Th	5 14	6 43	13 29	1 41
24	Fr	5 13	6 44	13 31	2 17
25	Sa	5 11	6 45	13 34	2 48
26	Mo	5 10	6 46	13 36	3 13
27	Mo	5 10	6 47	13 37	3 35
28	Tu	5 9	6 48	13 39	3 56
29	We	5 7	6 49	13 42	4 17
30	Th	5 6	6 49	13 43	4 39

HIGH TIDES::MARCH.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	0 4s	10 14s	17	0 10s	11 23s
2	0 28s	11 54s	18	0 40s	0 10t
3	0 55s	11 58s	19	1 10s	1 14t
4	1 22s	0 45t	20	1 14t	2 40s
5	1 59t	1 7s	21	1 40t	3 40s
6	1 49t	1 54s	22	2 15t	4 41s
7	2 41	2 47s	23	3 04	6 3s
8	2 21t	3 51s	24	4 10t	7 10s
9	2 51t	5 3s	25	5 18t	8 16s
10	3 37t	6 20s	26	6 27t	9 15s
11	4 20t	7 38s	27	7 34t	10 8s
12	5 38t	8 50s	28	8 31t	10 45s
13	6 52t	9 58s	29	9 22t	11 12s
14	8 10t	10 52s	30	10 10t	11 34s
15	9 18t	11 37s	31	10 54t	11 50s
16	10 23t				

HIGH TIDES::APRIL.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	11 39t		17	0 7t	1 33s
2	0 58t	0 17s	18	0 31t	2 33s
3	0 59t	1 7s	19	1 2t	3 28s
4	1 17t	1 57s	20	1 41t	4 35s
5	1 31t	2 50s	21	2 35t	5 35s
6	1 50t	3 48s	22	3 46t	6 44s
7	2 23t	5 0s	23	4 58t	7 46s
8	3 6t	6 12s	24	6 5t	8 39s
9	4 12t	7 23s	25	7 8t	9 22s
10	5 25t	8 28s	26	8 9t	9 59s
11	6 40t	9 27s	27	9 1t	10 25s
12	7 53t	10 15s	28	9 49t	10 43s
13	9 1t	10 51s	29	10 35t	11 3s
14	10 1t	11 22s	30	11 13s	11 23t
15	11 40s	11 40t			
16		0 30s			

ALMANAC FOR 1874.

May.

MOON'S PHASES.

Full Moon, 1d. 7h. 59m. M.
 Last Quarter, 8d. 11h. 3m. A.
 New Moon, 15d. 2h. 7m. A.
 First Quarter, 22d. 7h. 9m. A.
 Full Moon, 30d. 10h. 36m. M.

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

June.

MOON'S PHASES.

Last Quarter, 7d. 5h. 8m. M.
 New Moon, 13d. 10h. 42m. A.
 First Quarter, 21d. 11h. 50m. M.
 Full Moon, 29d. 10h. 38m. M.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Mo	4 40	7 16	14 36	9 13
2	Tu	4 39	7 17	14 38	10 7
3	We	4 39	7 18	14 39	10 54
4	Th	4 39	7 18	14 39	11 33
5	Fr	4 39	7 19	14 40	morn
6	Sa	4 38	7 19	14 41	0 7
7	Mo	4 38	7 20	14 42	0 37
8	Mo	4 38	7 20	14 42	1 3
9	Tu	4 37	7 21	14 44	1 28
10	We	4 37	7 21	14 44	1 56
11	Th	4 37	7 21	14 44	2 27
12	Fr	4 37	7 22	14 45	3 2
13	Sa	4 37	7 22	14 45	3 45
14	Mo	4 37	7 23	14 46	sets
15	Mo	4 37	7 23	14 46	9 23
16	Tu	4 37	7 23	14 46	10 9
17	We	4 37	7 24	14 47	10 45
18	Th	4 37	7 24	14 47	11 15
19	Fr	4 38	7 24	14 47	11 41
20	Sa	4 38	7 25	14 47	morn
21	Mo	4 38	7 25	14 47	0 5
22	Mo	4 38	7 25	14 47	0 26
23	Tu	4 38	7 25	14 47	0 48
24	We	4 39	7 26	14 47	1 10
25	Th	4 39	7 26	14 47	1 34
26	Fr	4 39	7 26	14 47	2 2
27	Sa	4 39	7 26	14 47	2 37
28	Mo	4 40	7 26	14 46	3 19
29	Mo	4 40	7 26	14 46	rises
30	Tu	4 41	7 26	14 45	8 50

HIGH TIDES::MAY.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	0 1s†	11 35t	17		2 40s
2		1 11s	18	0 20t	3 20s
3	0 11t	2 2s	19	1 9t	4 7s
4	0 30t	2 57s	20	2 11t	4 50s
5	1 3t	3 45s	21	3 25t	5 59s
6	1 45t	4 44s	22	4 30t	6 50s
7	2 45t	5 51s	23	5 42t	7 32s
8	4 3t	6 54s	24	6 45t	8 0s
9	5 20t	7 49s	25	7 46t	8 42s
10	6 35t	8 40s	26	8 44t	9 12s
11	7 50t	9 24s	27	9 31s	9 41t
12	9 42s	9 52t	28	10 24s	9 58t
13	10 42s	10 21t	29	11 17s	10 17t
14	11 47s	10 43t	30	0 9s†	10 43t
15	0 43s†	11 11t	31	1 2s†	11 8t
16	1 37s†	11 46t			

HIGH TIDES::JUNE.

D	Morn'g	Even'g	D	Morn'g	Even'g
1		2 2s	17	0 58t	3 32s
2	0 21t	2 45s	18	1 57t	4 9s
3	0 47t	3 29s	19	3 2t	4 52s
4	1 41t	4 18s	20	4 12t	5 36s
5	2 44t	5 10s	21	5 17t	6 13s
6	4 21t	6 10s	22	6 10t	6 47s
7	5 20t	6 58s	23	7 51t	7 30t
8	7 16s	7 35t	24	8 1s	8 11t
9	8 25s	8 16t	25	9 4s	8 38t
10	9 23s	8 52t	26	10 7s	9 7t
11	10 52s	9 23t	27	11 7s	9 41t
12	11 40s	9 57t	28	0 3s†	10 8t
13	0 51s†	10 28t	29	0 59s†	10 59t
14	1 28s†	11 16t	30	1 40s†	11 51t
15		2 14s			
16	0 6t	2 54s			

ALMANAC FOR 1874.

July.

MOON'S PHASES.

Last Quarter, 6d. 9h. 52m. M.
New Moon, 13d. 8h. 18m. M.
First Quarter, 21d. 5h. 21m. M.
Full Moon, 28d. 8h. 33m. A.

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

HIGH TIDES::JULY.

D	Morn'g	Even'g	D	Morn'g	Even'g
1		2 30a	17	1 32a	3 22a
2	0 42a	3 9a	18	2 20a	3 50a
3	1 35a	3 49a	19	3 20a	4 25a
4	2 35a	4 36a	20	4 33a	5 1a
5	3 46a	5 25a	21	5 31a	5 41a
6	5 43a	6 6a	22	6 36a	6 19a
7	6 56a	6 47a	23	7 46a	6 40a
8	8 13a	7 30a	24	8 58a	7 32a
9	9 30a	8 17a	25	10 7a	8 13a
10	10 30a	8 56a	26	11 12a	9 12a
11	11 50a	9 31a	27	0 3a	10 5a
12	0 33a	10 10a	28	0 47a	10 59a
13	1 14a	11 0a	29	1 23a	11 49a
14	1 54a	11 51a	30		1 58a
15		2 28a	31	0 44a	2 28a
16	0 42a	2 56a			

August.

MOON'S PHASES.

Last Quarter, 4d. 2h. 37m. A.
New Moon, 11d. 7h. 50m. A.
First Quarter, 19d. 10h. 43m. A.
Full Moon, 27d. 5h. 19m. M.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Sa	5 37	8 14	5 9	9 36
2	Su	5 47	7 14	3 10	3
3	Mo	5 57	7 14	2 10	31
4	Tu	5 67	6 14	0 11	1
5	We	5 77	5 13	58	11 39
6	Th	5 77	3 13	56	morn
7	Fr	5 87	2 13	54	0 23
8	Sa	5 97	0 13	51	1 14
9	Su	5 106	6 59	13 49	2 13
10	Mo	5 116	6 59	13 48	3 19
11	Tu	5 126	6 58	13 46	sets
12	We	5 136	6 56	13 43	7 44
13	Th	5 136	6 54	13 41	8 8
14	Fr	5 146	6 53	13 39	8 30
15	Sa	5 156	6 52	13 37	8 52
16	Su	5 166	6 51	13 35	9 13
17	Mo	5 176	6 50	13 33	9 36
18	Tu	5 186	6 49	13 31	10 1
19	We	5 196	6 48	13 29	10 31
20	Th	5 206	6 47	13 27	11 5
21	Fr	5 216	6 45	13 24	11 47
22	Sa	5 226	6 43	13 21	morn
23	Su	5 226	6 42	13 20	0 39
24	Mo	5 236	6 40	13 17	1 42
25	Tu	5 246	6 39	13 15	2 53
26	We	5 256	6 38	13 13	4 7
27	Th	5 266	6 36	13 10	rises
28	Fr	5 276	6 35	13 8	7 37
29	Sa	5 286	6 33	13 5	8 4
30	Su	5 296	6 32	13 3	8 31
31	Mo	5 296	6 31	13 2	9 3

HIGH TIDES::AUGUST.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	1 38a	2 59a	17	2 56a	3 6a
2	3 17a	3 30a	18	3 50a	3 33a
3	4 20a	4 14a	19	5 10a	4 10a
4	5 40a	5 0a	20	6 23a	4 57a
5	7 0a	5 47a	21	7 35a	5 41a
6	8 13a	6 40a	22	8 52a	6 52a
7	9 34a	7 34a	23	9 59a	8 11a
8	10 34a	8 30a	24	10 56a	9 31a
9	11 28a	9 23a	25	11 42a	10 31a
10	0 11a	10 11a	26	0 20a	11 6a
11	0 45a	10 59a	27	0 41a	11 51a
12	1 13a	11 48a	28		1 11a
13		1 38a	29	1 20a	1 31a
14	0 35a	1 50a	30	2 21a	1 55a
15	1 22a	2 18a	31	3 31a	2 26a
16	2 11a	2 30a			

ALMANAC FOR 1874.

September.

MOON'S PHASES.

Last Quarter, 2d. 8h. 44m. A.
New Moon, 10d. 10h. 0m. M.
First Quarter, 18d. 2h. 55m. A.
Full Moon, 25d. 1h. 57m. A.

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

HIGH TIDES::SEPTEMBER.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	4 26a	3 9a	17	4 42a	3 16a
2	5 35a	4 8a	18	5 59a	4 5a
3	7 2a	5 6a	19	7 19a	5 19a
4	8 6a	6 14a	20	8 29a	6 30a
5	9 12a	7 24a	21	9 35a	7 47a
6	10 12a	8 27a	22	10 31a	8 57a
7	11 1a	9 21a	23	11 16a	10 2a
8	11 35a	10 11a	24	11 49a	10 50a
9	0 1a	10 55a	25	0 16a	11 52a
10	0 19a	11 43a	26		0 9a
11		0 39a	27	0 53a	0 32a
12	0 30a	0 58a	28	1 58a	0 58a
13	0 52a	1 34a	29	2 58a	1 33a
14	1 40a	1 50a	30	3 59a	2 23a
15	2 31a	2 5a			
16	3 31a	2 31a			

October.

MOON'S PHASES.

Last Quarter, 2d. 5h. 23m. M.
New Moon, 10d. 2h. 51m. M.
First Quarter, 18d. 5h. 19m. M.
Full Moon, 24d. 11h. 11m. A.
Last Quarter, 31d. 5h. 39m. A.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Th	5 56	5 43	11 47	9 59
2	Fr	5 56	5 41	11 45	11 3
3	Sa	5 57	5 40	11 43	morn
4	Su	5 58	5 38	11 40	0 9
5	Mo	5 59	5 37	11 38	1 16
6	Tu	6 0	5 35	11 35	2 20
7	We	6 1	5 34	11 33	3 22
8	Th	6 2	5 32	11 30	4 21
9	Fr	6 3	5 31	11 28	5 19
10	Sa	6 4	5 30	11 26	6 16
11	Su	6 5	5 28	11 23	sets
12	Mo	6 5	5 27	11 22	6 32
13	Tu	6 6	5 25	11 19	7 3
14	We	6 7	5 24	11 17	7 39
15	Th	6 8	5 23	11 15	8 22
16	Fr	6 9	5 21	11 12	9 15
17	Sa	6 10	5 20	11 10	10 15
18	Su	6 11	5 18	11 7	11 22
19	Mo	6 12	5 17	11 5	morn
20	Tu	6 14	5 16	11 2	0 31
21	We	6 15	5 14	10 59	1 45
22	Th	6 16	5 13	10 57	2 59
23	Fr	6 17	5 11	10 54	4 14
24	Sa	6 18	5 10	10 52	5 28
25	Su	6 19	5 9	10 50	rises
26	Mo	6 20	5 8	10 48	6 3
27	Tu	6 21	5 6	10 45	6 51
28	We	6 22	5 5	10 43	7 47
29	Th	6 23	5 4	10 41	8 50
30	Fr	6 24	5 4	10 40	9 57
31	Sa	6 24	5 3	10 39	11 6

HIGH TIDES::OCTOBER.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	5 17a	3 38a	17	5 49a	3 51a
2	6 38a	4 45a	18	6 58a	5 10a
3	7 43a	5 0a	19	8 0a	6 26a
4	8 57a	7 19a	20	8 59a	7 45a
5	9 53a	8 24a	21	9 48a	8 58a
6	10 38a	9 18a	22	10 26a	10 2a
7	11 8a	10 8a	23	10 58a	11 2a
8	11 32a	10 54a	24	11 17a	
9	0 8a	11 14a	25	0 7a	11 38a
10	11 56a		26	1 4a	11 53a
11	0 3a	0 13a	27	1 53a	0 27a
12	0 51a	0 25a	28	2 53a	1 6a
13	1 43a	0 43a	29	4 0a	2 7a
14	2 36a	1 10a	30	5 7a	3 24a
15	3 31a	1 37a	31	6 22a	4 40a
16	4 40a	2 40a			

ALMANAC FOR 1874.

November.

MOON'S PHASES.

New Moon, 8d. 9h. 24m. A.
 First Quarter, 16d. 5h. 44m. A.
 Full Moon, 23d. 9h. 24m. M.
 Last Quarter, 30d. 10h. 19m. M.

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

December.

MOON'S PHASES.

New Moon, 8d. 3h. 56m. A.
 First Quarter, 16d. 4h. 14m. M.
 Full Moon, 22d. 8h. 46m. A.
 Last Quarter, 30d. 6h. 26m. M.

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

HIGH TIDES :: NOVEMBER.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	7 28a	5 59l	17	7 17a	6 27l
2	8 24a	6 57l	18	8 4a	7 40l
3	9 11a	8 1a	19	8 46a	8 50l
4	9 51a	8 56l	20	9 21l	10 11a
5	10 29a	9 49l	21	9 52l	11 18a
6	10 31l	10 28a	22	10 20l	
7	10 38l	11 15a	23	0 20a	10 40l*
8	10 49l		24	1 12a	11 51l*
9	0 4a	11 41*	25	2 3a	11 58l*
10	0 58a	11 32l*	26	2 58a	0 51l
11	1 49a	11 55l*	27	3 49a	1 54l
12	2 48a	0 43l	28	4 42a	3 9l
13	3 30a	1 32l	29	5 43a	4 24l
14	4 22a	2 34l	30	6 38a	5 33l
15	5 23a	3 49l			
16	6 21a	5 7l			

HIGH TIDES :: DECEMBER.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	7 23a	6 37l	17	6 54l	7 44a
2	8 1a	7 40l	18	7 36l	9 2a
3	8 22l	8 32a	19	8 16l	10 10a
4	8 42l	9 30a	20	8 53l	11 10a
5	9 41l	10 25a	21	9 32l	
6	9 29l	11 21a	22	0 26a	10 6l*
7	9 55l		23	1 6a	10 57l*
8	0 10a	10 10l*	24	1 55a	11 53l*
9	1 3a	11 3l*	25	2 41a	0 47l
10	1 48a	11 50l*	26	3 21a	1 40l
11	2 30a	0 42l	27	4 0a	2 51l
12	3 10a	1 36l	28	4 41a	4 11l
13	3 52a	2 38l	29	5 25a	5 7l
14	4 41a	3 51l	30	5 49l	6 5a
15	5 32a	5 8l	31	6 15l	7 5a
16	6 10a	6 23l			

THURSDAY, JANUARY 1, 1873.

*Yours desired
 at home,
 stopping at Teaser
 Worked for Teaser.*

FRIDAY, JANUARY 2, 1874.

Worked at Yester.



Kirkland Heritage Society

SATURDAY, JANUARY 3, 1874.

Worked at Yester.

SUNDAY, JANUARY 4, 1874.

Worked at Yeshers.
and ...

MONDAY, JANUARY 5, 1874.

Worked at
Yeshers.



Kirkland Heritage Society

TUESDAY, JANUARY 6, 1874.

Worked at Goshue.

WEDNESDAY, JANUARY 7, 1874.

Worked at Goshue.



Kirkland Heritage Society

THURSDAY, JANUARY 8, 1874.

Worked at Yeller.

Yeller paid a
store bill for me
\$3.25 at Woodward.

FRIDAY, JANUARY 9, 1874.

Worked for
Yeller.

SATURDAY, JANUARY 10, 1874.

Worked at Geslers.

SUNDAY, JANUARY 11, 1874.

Worked at Geslers.



Kirkland Heritage Society

MONDAY, JANUARY 12, 1874.

Worked at Guelph

TUESDAY, JANUARY 13, 1874.

Worked for Yecker



Kirkland Heritage Society

WEDNESDAY, JANUARY 14, 1874.

Worked for Easter.

THURSDAY, JANUARY 15, 1874.

Worked for Easter.



Kirkland Heritage Society

FRIDAY, JANUARY 16, 1874.

Worked for Yester.

SATURDAY, JANUARY 17, 1874.

Worked for Yester.



Kirkland Heritage Society

SUNDAY, JANUARY 18, 1874.

Went ~~to~~ home.

MONDAY, JANUARY 19, 1874.

Worked for Giesler.



Kirkland Heritage Society

TUESDAY, JANUARY 20, 1874.

Worked for Yester.

WEDNESDAY, JANUARY 21, 1874.

Worked for Yester.



Kirkland Heritage Society

THURSDAY, JANUARY 22, 1874.

Worked for Geeler.

Geeler paid me
\$5. to day.

FRIDAY, JANUARY 23, 1874.

Worked for Geeler.

SATURDAY, JANUARY 24, 1874.

Worked for Leaser.

SUNDAY, JANUARY 25, 1874.



Kirkland Heritage Society

MONDAY, JANUARY 26, 1874

Worked for Yealer.

TUESDAY, JANUARY 27, 1874

Worked for Yealer.



Kirkland Heritage Society

WEDNESDAY, JANUARY 28, 1874.

Worked for Gesler.

THURSDAY, JANUARY 29, 1874.

Worked for Gesler.

Received a
letter from R. K. F.
of Chicago Ill's.

FRIDAY, JANUARY 30, 1874.

Worked for Yester.

Faint, illegible handwriting.

SATURDAY, JANUARY 31, 1874.

Worked for
Yester



Kirkland Heritage Society

SUNDAY, FEBRUARY 1, 1874.

Took dinner at home
Aunt & Uncle Smith
too.

MONDAY, FEBRUARY 2, 1874.

Worked for
Geelin. washed



Kirkland Heritage Society

TUESDAY, FEBRUARY 3, 1874.

Worked for
Leslie

WEDNESDAY, FEBRUARY 4, 1874.

Worked for Gellar



Kirkland Heritage Society

THURSDAY, FEBRUARY 5, 1874.

Worked for
Yealer.

FRIDAY, FEBRUARY 6, 1874.

Worked for
Yealer.



Kirkland Heritage Society

SATURDAY, FEBRUARY 7, 1874.

Worked for
Leah.

SUNDAY, FEBRUARY 8, 1874.

Went home



Kirkland Heritage Society

MONDAY, FEBRUARY 9, 1874.

Worked for
Yester.

TUESDAY, FEBRUARY 10, 1874.

Worked for
Yester.

MONDAY, FEBRUARY 9, 1874.

Worked for
Gardner, ...

TUESDAY, FEBRUARY 10, 1874.

Worked for
Gardner, ...



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WEDNESDAY, FEBRUARY 11, 1874.

Worked for
Dinner,

THURSDAY, FEBRUARY 12, 1874.

Worked for
Dinner



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FRIDAY, FEBRUARY 13, 1874.

Worked for
Yester.

SATURDAY, FEBRUARY 14, 1874.

Worked for
Yester.



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TUESDAY, FEBRUARY 17, 1874.

Worked for
M. W. L.

WEDNESDAY, FEBRUARY 18, 1874.

Worked for
M. W. L.
Worked for Yush



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THURSDAY, FEBRUARY 19, 1874.

Worked for
Gusler.

FRIDAY, FEBRUARY 20, 1874.

Worked for
Gusler.



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SATURDAY, FEBRUARY 21, 1874.

Worked for
Mesler,

SUNDAY, FEBRUARY 23, 1874.

Went home



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MONDAY, FEBRUARY 23, 1874.

Worked for Bester.

TUESDAY, FEBRUARY 24, 1874.

Worked for Bester.



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WEDNESDAY, FEBRUARY 25, 1874.

Worked for Gester.

THURSDAY, FEBRUARY 26, 1874.

Worked for Gester.

FRIDAY, FEBRUARY 27, 1874.

Worked for Sesler

SATURDAY, FEBRUARY 28, 1874

Worked for
Sesler.

SUNDAY, MARCH 1, 1874.

Staid at home.

MONDAY, MARCH 2, 1874.

Worked for
Yester

TUESDAY, MARCH 3, 1874.

Worked for
Yester

WEDNESDAY, MARCH 4, 1874.

Worked for
Yester.

THURSDAY, MARCH 5, 1874.

Worked for
as the
Cassler

FRIDAY, MARCH 6, 1874.

Worked for
Cassler

MONDAY, MARCH 9, 1874.

Worked for
Gates

TUESDAY, MARCH 10, 1874.

Worked for
Gates

WEDNESDAY, MARCH 11, 1874.

Worked for
yester

THURSDAY, MARCH 12, 1874.

Worked for
yester

FRIDAY, MARCH 13, 1874

Worked for
Sister

SATURDAY, MARCH 14, 1874

Worked for
Sister

SUNDAY, MARCH 15, 1874.

I laid at home

MONDAY, MARCH 16, 1874.

Worked for
Lesler

TUESDAY, MARCH 17, 1874.

Worked for
Lesler

WEDNESDAY, MARCH 18, 1874.

Worked for
Lesler

THURSDAY, MARCH 19, 1874.

Worked for
Gester

FRIDAY, MARCH 20, 1874.

Worked for
Gester

Went to
school
at
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31

SATURDAY, MARCH 21, 1874.

Worked for
Yeeler

I quit working
for Mr
Yeeler

to day.

I have worked six
months and 18 days

$$26 \times 6 = 156 + 18 = 174$$

\$155.75

H. L. Yeeler paid
me \$50.00, fifty
dollars in coin
to day.

SUNDAY, MARCH 22, 1874.

Spent the
Sunday at
home.

MONDAY, MARCH 23, 1874.

I have been
helping Father
on the land.

TUESDAY, MARCH 24, 1874.

I have been
putting outside
around the win-
dows and doors
to day.

WEDNESDAY, MARCH 25, 1874.

I have been
putting outside
and inside of the
house.

We all went and
heard Garfield
speak on Progress
at the Pavilion.

THURSDAY, MARCH 26, 1874.

I have been
putting in and
got through.

FRIDAY, MARCH 27, 1874.

*I have been
painting.*

SATURDAY, MARCH 28, 1874.

*I have been
painting.*



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SUNDAY, MARCH 29, 1874.

MONDAY, MARCH 30, 1874.

*I have been
painting*



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TUESDAY, MARCH 31, 1874.

Father was
taken sick
with Parityra
colic - had
severe pain -

Dr Bagley
attended and
helped him.

WEDNESDAY, APRIL 1, 1874.

I have been
painting

THURSDAY, APRIL 2, 1874.

I have been
painting

FRIDAY, APRIL 3, 1874

I have been
painting

SATURDAY, APRIL 4, 1874.

I have been
painting.

SUNDAY, APRIL 5, 1874.

I called on
Capt Penfield
for the

to determine
what
you
of
the
of
the

MONDAY, APRIL 6, 1874.

I have been
painting.

I received a
letter from
several of my
old school mates
in Dixfield Me.

TUESDAY, APRIL 7, 1874.

I have been
~~received~~
painting.

WEDNESDAY, APRIL 8, 1874.

I have been
painting.

THURSDAY, APRIL 9, 1874

I have
been painting.

FRIDAY, APRIL 10, 1874.

I have been
painting.

SATURDAY, APRIL 11, 1874.

I have been
painting.

SUNDAY, APRIL 12, 1874.

Did not go to
Church this
morning.

I went to Bagleys
Church in the eve.

MONDAY, APRIL 13, 1874

Finished paint-
ing. I have
done other work.

TUESDAY, APRIL 14, 1874.

We moved the
shed over our
well. Father
bought a pump.

WEDNESDAY, APRIL 15, 1874.

Have been
fixing up.

THURSDAY, APRIL 16, 1874.

I am stopping
at home.

FRIDAY, APRIL 17, 1874.

I am clearing
up around.

SATURDAY, APRIL 18, 1874.

I am digging
up bushes & stumps
in the garden.

SUNDAY, APRIL 19, 1874.

Father & Uncle
and myself
walked over
to Mr. Warren's
on Pontiac farm.
Father is going over
to pick out a
dog pup. &c. &c.

MONDAY, APRIL 20, 1874.

We are packing
up preparations
to moving over
the lake tomorrow.

We received
the first Nos
of our Semi
Weekly Tribune
Mar 27th 31st Apr 3rd.

Have got the
toothache repair.

TUESDAY, APRIL 21, 1874.

Got a Mr
Ganock to move
us over the lake
we got over all
right.

WEDNESDAY, APRIL 22, 1874.

Have been
putting things
to rights.

THURSDAY, APRIL 23, 1874.

Jobbing.



FRIDAY, APRIL 24, 1874.

Jobbing



SATURDAY, APRIL 25, 1874.

Jobbing

SUNDAY, APRIL 26, 1874.

Mr Hancock
staid with us
last night.

He has been
looking at Will
Andrew's pre-emptive
claim; it can be
bought for \$5000.

Mr H. stopped
this eve.

MONDAY, APRIL 27, 1874.

Chas. & Hancock
took our boat
and went to
town - also
carried Miss
Ella Payne home
on the other
side of the lake.

TUESDAY, APRIL 28, 1874.

I have been
spading.

WEDNESDAY, APRIL 29, 1874.

I have been
spading.

THURSDAY, APRIL 30, 1874.

I have been
spading.

FRIDAY, MAY 1, 1874.

Showery
Conrad & I went
to town.
The People of Seat-
-the Larungarated
S & W, W, R, R. by a
picnic and
a days work
thrown in.
A mile & one
half were graded
Leonard Smith
came home with
us.

Uncle L. P. S.
let our house
the 30th of April
to a Mr. Barnard
for \$10.00. per
month.

SATURDAY, MAY 2, 1874.

Cloudy &
very cold & wind

SUNDAY, MAY 3, 1874.

Pleasant

Father and I took
Uncle over to the
Gilman place.

I had the
toothache

MONDAY, MAY 4, 1874.

Cloudy & cold
wind.

I have been
spading.

TUESDAY, MAY 5, 1874.

Cloudy
I have been
spading.

WEDNESDAY, MAY 6, 1874.

At home.

THURSDAY, MAY 7, 1874.

At home.



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FRIDAY, MAY 8, 1874.

Father, O, Corner
by I went to
town & back
Father got a dog
pup of Mrs. Warren
on Pontine's place.

SATURDAY, MAY 9, 1874.

At Home.



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THURSDAY, MAY 10, 1876

Full moon of the
day.

MONDAY, MAY 11, 1876

Plains



TUESDAY, MAY 12, 1874.

Pleasant

WEDNESDAY, MAY 13, 1874.

Fair,

Mr Barnett
and Low came
across this morn
to look at the
land; they
staid staid
with us all night

THURSDAY, MAY 14, 1874.

Cloudy.

I showed the
Band son over
Hall & Andrews
presumption claim.

FRIDAY, MAY 15, 1874.

Cloudy.

Railroad picnic.

SATURDAY, MAY 16, 1874.

Warm & Cloudy.

SUNDAY, MAY 17, 1874.

Pleasant
Wind N.W.

Mrs Monahan
& three boys
came across to
day.

I wrote
two letters over
to G. D. Bartlett
and Fannie Hayward.

MONDAY, MAY 18, 1874.

Hot.

Mother planted
60 day corn.

TUESDAY, MAY 19, 1874.

Hot. commenced
raining at 5 P.M.
8 P.M. still rain.

Have finished
fixing our sail
out to day;
made it larger.

WEDNESDAY, MAY 20, 1874.

Warm, somewhat,
cloudy S, W, wind.

THURSDAY, MAY 21, 1874.

Warm.
Cloud in N. W.
in the morn, it chan-
ged to South at
5 P.M. and rained.
Father went to
town got a sack,
Beer Keg, &c.
Set out Carley
Cabbage,
Charles Pierce
is in town.
Father took my
letters to town.

FRIDAY, MAY 22, 1874.

Warm, wind
S. W. this morn
set in a heavy
N. W. about 4 P.M.

the digging out
sprouting & temp.

SATURDAY, MAY 23, 1874.

Light N. wind
early, changed
to S. W. 5 P.M.
rained some of
the night.

SUNDAY, MAY 24, 1874.

A wind, (westerly),
cleared off a fog,
wind in S.W.
Went to Chamber
after dinner.

Had the first
ripe 3 strawberries
of the season
to day.

MONDAY, MAY 25, 1874.

Frequent showers
and a hail
storm about 3 1/2
P.M.

TUESDAY, MAY 26, 1874.

Fine morning,
Shower at 9. another
at 5

WEDNESDAY, MAY 27, 1874.

Working.

THURSDAY, MAY 28, 1874.

at work

FRIDAY, MAY 29, 1874.

at work



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SATURDAY, MAY 30, 1874.

Strong N. W.
wind.
worse^k.

SUNDAY, MAY 31, 1874.

Pleasant.
Tom and I
went over to
church.

May has been
cloudy and
considerably
rain.

MONDAY, JUNE 1, 1874

worked

TUESDAY, JUNE 2, 1874

worked



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WEDNESDAY, JUNE 3, 1874.

Cloudy N. W. wind
worked.

I wrote to Dick
Mother to Aunt
G. N. S., G. A. A.,
mail them
tomorrow.

THURSDAY, JUNE 4, 1874.

Cloudy, S. W.
wind.

Planned I
went to town
saw Pierce
& Co.

I sold a gallon
of Strawberry \$1.25
I bot a straw
heat \$1.25-

L. P. Smith & son
Paid me the
Note of \$5.00 and
Lent \$1.

FRIDAY, JUNE 5, 1874

Pleasant part
of the day,

Worked,

SATURDAY, JUNE 6, 1874.

I however,

I got through
digging out
sprouting stumps
at present,

Tom took a gal
& a half of straw
to town for us
Wot \$1.50.

SUNDAY, JUNE 7, 1874.

South wind
some rain,

MONDAY, JUNE 8, 1874.

laboring as usual



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TUESDAY, JUNE 9, 1874.

labouring

WEDNESDAY, JUNE 10, 1874.

working



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THURSDAY, JUNE 11, 1874.

I carried over
two galls of Straw-
berries, 1.50
Uncle & Aunt came
back with me.

FRIDAY, JUNE 12, 1874.

Father, Uncle & I
visited Goldmyer's
farm on Sundry point
and Wamuta
bay.

SATURDAY, JUNE 13, 1874.

I went back
to Seattle with
Uncle. stopped
all night May 9
A C had a surprise
party.

SUNDAY, JUNE 14, 1874.

Went to Church
called on Capt
Penfield's folks.

MONDAY, JUNE 15, 1874.

Warm & Pleasant.

Clearner went to
town brought us
two letters one
from Clay Centre
and Boston. I
received one from
George.

TUESDAY, JUNE 16, 1874.

Clear & y

I answered
Gede's letter
Mother wrote to
Aunt Sarah.



WEDNESDAY, JUNE 17, 1874.

x Pleasant



THURSDAY, JUNE 18, 1874.

x Pleasant

FRIDAY, JUNE 19, 1874.

Warm.

SATURDAY, JUNE 20, 1874.

Cloudy.



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SUNDAY, JUNE 21, 1874.

Very hot.

MONDAY, JUNE 22, 1874.

Father & O'Brien
went to town

We settled
up with O'Brien
this morning.

SUNDAY, JUNE 21, 1874.

Very hot,

MONDAY, JUNE 22, 1874.

Father & O'Brien
went to town

We settled
up with O'Brien
this morning.



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TUESDAY, JUNE 23, 1874.

Pleasant.
It has rained
hard all day
the creek is
very high.

WEDNESDAY, JUNE 24, 1874.

~~It has rained~~
~~hard all day~~
~~the creek is~~
~~very high.~~

SATURDAY, JUNE 27, 1874.

I worked on
the road to
Sycok Slough.

SUNDAY, JUNE 28, 1874

I went to
Church.



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MONDAY, JUNE 29, 1874.

I sprained my
ankle while on
the way to work
on the road.

TUESDAY, JUNE 30, 1874.

I am considerable
lame and sore.