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Harry Duval French
Seattle
Jan 1st W.F.
1873





BANCROFT'S

DIARY

FOR

1873;

CONTAINING

USEFUL MEMORANDA

AND

TABLES FOR REFERENCE.

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1872

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Calendar, 1873.

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

Festivals and Fasts of the Church.

Dates italicized apply only to 1873.

- EPIPHANY is twelve days after Christmas, January 6th.
- SHROVE SUNDAY, the first Sunday before Shrove Tuesday. — *February 23d.*
- SHROVE TUESDAY is the first Tuesday after the first change of the moon in February. — *February 25th.*
- ASH WEDNESDAY, the day after Shrove Tuesday. — *February 26th.*
- The Fast of LENT is from Ash Wednesday to the feast of Easter, forty days.
- The FIRST SUNDAY IN LENT is *March 2d.*
- ST. PATRICK. — *March 17th.*
- MIDLENT is the fourth Sunday from Shrove Tuesday. — *March 23d.*
- CARLE SUNDAY, the fifth Sunday from Shrove Tuesday. — *March 30th.*
- PALM SUNDAY, the 6th Sunday from Shrove Tuesday. — *April 6th.*
- PASSION WEEK, the week after Palm Sunday. — *April 6th to April 13th.*
- GOOD FRIDAY, the Friday in Passion Week. — *April 11th.*
- 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 13th.*
- LOW SUNDAY is the first after Easter. — *April 20th.*
- ROGATION SUNDAY is the fifth after Easter. — *May 18th.*
- ASCENSION DAY, or HOLY THURSDAY, is the Thursday in Rogation Week, the fortieth day from Easter. — *May 22d.*
- PENTECOST, or WHITSUNTIDE, is the forty-ninth day, or seventh Sunday after Easter. — *June 1st.*
- TRINITY SUNDAY is the next after Pentecost. — *June 8th.*
- 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 30th.*
- ST. ANDREW. — *November 30th.*
- ST. THOMAS. — *December 21st.*
- CHRISTMAS. — *December 25th.*
- ST. STEPHEN. — *December 26th.*
- ST. JOHN, EVANGELIST. — *December 27th.*

HEBREW CALENDAR.

5633-5634.

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

COMMENCEMENT { 5633, OCTOBER 3-4, 1872.
OF THE YEAR { 5634, SEPTEMBER 22-23, 1873.

NEW MOONS.	FASTS AND FEASTS.	DATES.
5633: <i>Tivise</i> 10.	Fast.	Thurs., Jan. 9, 1873
" <i>Shevat</i> .		Wed., Jan. 29 "
" <i>Adar</i>		Thurs. & Fri., Feb. 27-28, "
" <i>Adar</i> 13.	Fast of Esther.	Wed., March 12, "
" <i>Adar</i> 14-15.	Purim.	Th. & Fri., March 13-14, "
" <i>Neson</i> .		Satur., March 29, "
" <i>Neson</i> 15-22.	Pesach.	Sat. to Sat., April 12 to 19, "
" <i>Iyar</i> .		Sun. & Mon., April 27-28, "
" <i>Iyar</i> , 18.	Log Laomer.	Thurs., May 15, "
" <i>Sivan</i> .		Tues., May 27, "
" <i>Sivan</i> , 6-7.	Shebuot.	Sun. & Mon., June 1-2, "
" <i>Tammaoz</i> .		Wed. & Thurs., June 25-26, "
" <i>Tammaoz</i> , 17.		Sun., July 13, "
" <i>Av</i> .		Fri., July 25, "
" <i>Av</i> , 9.	Tishabeab—Fast.	Sun., Aug. 3, "
" <i>Ellool</i> .		Sat. & Sun., Aug. 23-24, "
5634 <i>Tishie</i> , 1-2.	New Year.	Mon. & Tues., Sept. 22-23, "
" <i>Tishie</i> , 4.	Fast of Gedaliah.	Wed., Sept. 24, "
" <i>Tishie</i> , 10.	Yom - Kippur—Fast.	Wed., Oct. 1, "
" <i>Tishie</i> , 15-16.	Succoth—Tabernacles.	Mon. & Tues., Oct. 6-7, "
" <i>Tishie</i> , 21.	Hoshaanah Rabbah.	Sun., Oct. 12, "
" <i>Tishie</i> , 22.	Shemene Atzareth.	Mon., Oct. 13, "
" <i>Tishie</i> , 23.	Simchat Torah.	Tues., Oct. 14, "
" <i>Heshvan</i> .		Tues. & Wed., Oct. 21-22, "
" <i>Kisive</i> .		Thurs. & Fri., Nov. 20-21, "
" <i>Kisive</i> , 25.	Hanueah, (first day,).	Mon., Dec. 15, "
" <i>Tevise</i> .		Sat. & Sun., Dec. 20-21, "
" <i>Tevise</i> , 10.	Fast.	Tues., Dec. 30, "

CHINESE FESTIVALS, 1873-4.

1873.

- 1st Moon, 1st day, Jan. 28th.—New Year, Principal Holyday, Festival kept up for a week.
- 1st Moon, 7th day, Feb. 3d.—Beginning of Spring.
- 1st Moon, 21st day, Feb. 17th.—Rain and Water Festival.
- 2d Moon, 2d day, Feb. 27th.—Birth Day of the god of Land and Grain.
- 2d Moon, 22d day, March 19th.—Middle of Spring.
- 3d Moon, 3d day, March 29th.—Birth Day of Pak Tai, god of the extreme North. Ceremonies of three days duration, commencing on the evening of March 26th, at the temple on Dupont street, between Washington and Jackson streets, San Francisco.
- 3d Moon, 9th day, April 4th.—Tsing Ming, worship at the Tombs.
- 3d Moon, 23d day, April 18th.—Birth Day of the Queen of Heaven. Festival continues three days and three nights, at the temple on Mason Street, near Geary, San Francisco. The Emperor Tung Chi's Birth Day occurs at the same time.
- 4th Moon, 9th day, May 4th.—Beginning of Summer.
- 4th Moon, 17th day, May 12th.—Birthday of the goddess Golden Flower.
- 5th Moon, 5th day, May 29th.—May Festival, general feasting. Regattas.
- 5th Moon, 12th day, June 5th.—Planting and Sowing.
- 5th Moon, 13th day, June 6th.—Birth Day of Kwan Tai, god of war, celebrated at the temple on Pine street, above Kearney, San Francisco.
- 5th Moon, 27th day, June 20th.—Summer Solstice.
- 6th Moon, 14th day, July 7th.—Little Heat.
- 6th Moon, 29th day, July 22d.—Great Heat.
- 6th Moon, 15th day, Aug. 6th.—Beginning of Autum. [This is an Intercalary Month, the 6th month being repeated]
- 7th Moon, 1st day, Aug. 22d.—Decrease of Heat.
- 7th Moon, 14th day, Sept. 4th.—Feasting, Religious ceremonies in temple on Dupont Alley, San Francisco.
- 7th Moon, 16th day, Sept. 6th.—White dew. Birth Day of god of wealth. Ceremonies at Temple in Dupont Alley.
- 8th Moon, 2d day, Sept. 22d.—Autumnal Equinox.
- 8th Moon, 7th day, Sept. 27th.—Birth Day of How Wong. Ceremonies in Brooklyn Place.
- 8th Moon, 15th day, Oct. 5th.—Worship of the Moon. General Feasting.
- 8th Moon, 17th day, Oct. 7th.—Cold Dew.
- 8th Moon, 27th day, Oct. 17th.—Birth of Confucius.
- 9th Moon, 3d day, Oct. 22d.—Fall of Frost.
- 9th Moon, 9th day, Oct. 28th.—Worship at the tombs.
- 9th Moon, 18th day, Nov. 6th.—Beginning of Winter.
- 10th Moon, 3d day, Nov. 21st.—Little snow.
- 10th Moon, 18th day, Dec. 6th.—Great snow.
- 11th Moon, 3d day, Dec. 21st.—Winter Solstice. General Feasting.

1874.

- 11th Moon, 17th day, Jan. 4th.—Little cold.
- 12th Moon, 3d day, Jan. 19th.—Great cold.
- 12th Moon, 18th day, Feb. 3d.—Beginning of Spring.

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 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.

Bell & Freres, 524 Montgomery street.

A. Borel & Co., cor. Montgomery and Clay sts.

California Trust Co., 421 California street.

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, 416 California street.

Pacific Bank, N. W. cor. Sansome and Pine sts.

Sather & Co., N. E. c. Montgomery and Commercial sts.

J. Seligman & Co., 412 California street.

John Sime & Co., N. W. cor. Montgomery and Clay sts.

Tallant & Co., 321 Battery street.

Walker & Finnie, N. E. cor. California and Sansome.

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.

PUBLIC OFFICES AND BUILDINGS.

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 1 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 street.

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, Corinthian 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 sts.

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.

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, Mission Street, Mission st., bet. Eighteenth and Nineteenth.

Methodist, Seaman's Bethel, Mission street, bet. First and Second.

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, Bernal Wesleyan, Prospect Avenue, Bernal Heights.

Methodist, South San Francisco, on Fifteenth avenue, S. S. E.

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.

CHURCHES, (continued.)

- 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 Twenty-second.
 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. Boniface, (German,) Tyler st., bet. Jones and Leavenworth.
 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. Rose's, Brannan st., near Fourth.
 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 street.
 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.

HOSPITALS AND BENEVOLENT SOCIETIES, (continued.)

- 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.
 Courrier 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.

NEWSPAPER AND PERIODICAL OFFICES, (continued.)

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.
 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. e. 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:

Atlantic and Pacific, 716 Montgomery street.
 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:

Cosmopolitan Savings and Exchange Bank, 626 Montgomery st.
 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, 1333 Bush street.
 Market Street, cor. Market and New Montgomery sts.
 North Beach and Mission, Fourth street, near Bryant, cor. Louisa.
 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,.....	

FRICITION 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
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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.

SAN FRANCISCO

FIRE ALARM STATIONS.

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

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

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|---|----------------------------------|
| 156. Fourth and Berry. | 173. Ellis and Buchanan. |
| 157. Folsom, east of Fourth. | 174. Turk and Fillmore. |
| 158. Folsom, east of Fifth. | 213. Bush and Buchanan. |
| 159. Engine House, No. 6, Sixth, near Folsom. | 214. Bush and Steiner. |
| 162. Pacific and Franklin. | 215. Washington and Webster |
| 163. Sacramento and Franklin. | 216. Sacramento and Fillmore. |
| 164. Clay and Polk. | 231. Howard and Twenty-fourth. |
| 172. McAllister and Buchanan. | 234. Harrison and Twenty-fourth. |

HACK FARE 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, including 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 provisions of the above Order shall not be less than five dollars, nor 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 Railroad.
 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.

TEMPERATURE OF VARIOUS LOCALITIES.

NAME OF PLACE.	LATITUDE	MEAN TEMPERATURE.		
		OF YEAR	OF WINT'R	OF SUM'R
Algiers	36° 48'	69.98	61.52	80.24
Amsterdam	52.22	51.62	36.86	65.84
Berne	46.05	49.28	32.00	66.56
Bourdeaux	44.50	56.48	42.08	70.88
Brussels	50.50	51.80	36.68	66.20
Cairo	30.02	72.32	58.46	85.10
Cambridge, U. S.	42.25	50.36	33.98	70.70
Cincinnati	39.06	53.78	32.90	72.86
Copenhagen	55.41	45.68	30.74	62.60
Dublin	53.21	49.10	39.20	59.54
Edinburgh	55.57	47.84	38.66	58.28
Geneva	46.12	49.28	34.70	64.94
Havana	23.10	78.08	71.24	83.30
London	51.30	50.36	39.56	63.14
Marsailles	43.17	59.00	45.50	72.50
Moscow	55.45	40.10	10.78	67.10
Nagasaki	32.45	60.80	39.38	82.94
Natchez	31.28	64.76	48.56	79.16
New York	40.40	53.78	29.84	79.16
Paris	48.50	51.08	38.66	64.58
Pekin	39.54	54.86	26.42	82.58
Philadelphia	39.56	53.42	32.18	73.94
Quebec	46.47	41.74	14.18	68.00
Rome	41.53	60.44	45.86	75.20
Sacramento	38.32	59.90	48.46	70.77
San Francisco	37.47	55.85	50.59	58.97
Stockholm	59.20	42.26	25.52	61.88
St. Petersburg	59.56	38.84	17.06	62.06
Vera Cruz	19.11	77.72	71.96	81.50
Vienna	48.12	50.54	32.72	69.26
Warsaw	52.14	48.56	28.76	69.08

IMPORTANT EPOCHS AND ERAS,

WITH THE PERIODS OF THEIR COMMENCEMENT.

Grecian Year of the World	September 1, B. C. 5598.
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 Nabonassar	February 23, 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.

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.	Drama.
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 = 1.15908 Statute Miles.

60 Nautical Miles = 69,545 Statute Miles.

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

MEASURES OF SURFACE.

Sq. Mile.	ares.	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	.....16½ × 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	.....22¼ × 27¼ "	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	.....6.70	Cork	.....0.24

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.		
NAMES.	NO. OF LITERS.	CUBIC MEASURE.	DRY MEASURE.	WINE MEASURE.
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 cu. decimeter	= 0.908 quart	= 1.0567 quarts.
Deciliter	= .1	= .1 c. decimeter	= 6.1022 cubic in.	= 0.845 gill.
Centiliter	= .01	= 10 c. centimet's	= 0.6102 cubic in.	= 0.338 fluid oz.
Milliliter	= .001	= 1 c. centimeter	= 0.061 cubic inch	= 0.27 fluid dr.

WEIGHTS.

Metric Denominations and Values.		Equivalents in Denominations in use.	
Names.	No. grams.	Weight of what quantity of water at maxim'm density.	Avoirdupois Weight.
Millier or tonneau	= 1,000,000	= 1 cubic meter	= 2,204.6 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.

VALUE OF FOREIGN GOLD AND SILVER COINS.

AUSTRIA.		CENTRAL AMERICA.	
	d. c. m.		d. c. m.
Gold, Quadruple Ducat	9 12 0	Gold, Doubloon	14 96 0
" Ducat	2 27 5	" Escudo	1 67 0
" Sovereign (for Lombardy)	6 75 0	Silver, Dollar (about)	0 67 0
Silver, Rix Dollar	0 97 0	COSTA RICA.	
" Florin	0 48 5	Gold, Half Doubloon (1850)	7 62 0
" Twenty Kreuzers	0 16 0	Silver, New Real	0 95 8
" Lira (for Lombardy)	0 16 0	CHILI.	
BADEN.		Gold, Doubloon (before 1835)	15 57 0
Gold, Five Gulden	2 04 0	" Doubloon (since 1835)	15 06 0
Silver, Crown	1 07 0	Silver, Dollar	1 01 0
" Gulden, or Florin	0 39 5	" Quarter Dollar	0 29 4
BAVARIA.		" Eighth Dollar, or Real	0 11 2
Gold, Ducat	2 27 0	DENMARK.	
Silver, Crown	1 06 5	Gold, Double Fred. or 10-Thaler	7 88 0
" Florin	0 39 5	Silver, Rigsbank Daler	0 52 8
" Six Kreuzers	0 03 0	" Specie Daler	1 04 7
BELGIUM.		" Thirty-two Skillings	0 17 0
Gold, Twenty-Franc piece	3 83 2	ECUADOR.	
" Twenty-five-Franc piece	4 72 0	Gold, Half Doubloon	7 00 0
Silver, Five Francs	0 93 0	Silver, Quarter Dollar	0 18 7
" Two-and-a-half Francs	0 46 5	EGYPT.	
" Two Francs	0 37 0	Gold, Hundred Piastres	4 97 0
" Franc	0 18 5	Silver, Twenty Piastres	0 96 0
BOLIVIA.		FRANCE.	
Gold, Doubloon	15 58 0	Gold, Twenty Francs	3 85 0
Silver, Dollar	1 00 6	Silver, Five Francs	0 93 2
" Hf. Dollar (debased, 1830)	0 37 5	" Franc	0 18 5
" Quar. Doll. (debased, 1830)	0 18 7	FRANKFORT.	
BRAZIL.		Silver, Florin	0 39 5
Gold, Piece of 6400 Reis	8 72 0	GREECE.	
Silver, Twelve hundred Reis	0 99 2	Gold, Twenty Drachms	3 45 0
" Eight hundred Reis	0 66 0	Silver, Drachm	0 16 5
" Four Hundred Reis	0 33 0	GUIANA, BRITISH.	
BREMEN.		Silver, Guilder	0 26 2
Silver, Thirty-six Grote	0 35 6	HANOVER.	
BRITAIN.		Gold, Ten Thaler	7 89 0
Gold, Sovereign	4 84 5	Silver, Thaler (fine silver)	0 69 2
Silver, Half Crown	0 54 0	" Thaler (750 fine)	0 68 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		

VALUE OF FOREIGN COINS.

HAYTI.		PORTUGAL.	
	D. C. M.		D. C. M.
Silver, Dollar, (100 Centimes)....	0 25 7	Gold, Half Joe (full weight)....	8 65 0
HESSE CASSEL.		" Crown.....	5 81 0
Silver, Thaler.....	0 67 5	Silver, Cruzado.....	0 55 2
" One-sixth Thaler.....	0 11 0	" Crown of 1000 Reis.....	1 12 0
HESSE DARMSTADT.		" Half Crown.....	0 56 0
Silver, Florin, or Gulden.....	0 39 5	PRUSSIA.	
HINDOSTAN.		Gold, Double Frederick.....	8 00 0
Gold, Mohur (E. I. Co.).....	7 10 0	Silver, Thaler, average.....	0 68 0
Silver, Rupee.....	0 44 5	" One-sixth Thaler, average.....	0 11 0
MECKLENBURG.		" Double Thal., (3½ Gulden).....	1 39 0
Gold, Ten Thaler.....	7 89 0	ROME.	
MEXICO.		Gold, Ten Scudi.....	10 37 0
Gold, Doubloon (average).....	15 53 0	Silver, Scudo.....	1 00 5
Silver, Dollar (average).....	1 00 7	" Teston (3-10 Scudo).....	0 30 0
NAPLES.		RUSSIA.	
Silver, Scudo.....	0 94 0	Gold, Five Roubles.....	3 96 7
NETHERLANDS.		Silver, Rouble.....	0 75 0
Gold, Ducat.....	2 26 5	" Ten Zloty.....	1 13 5
" Ten Guilders.....	4 00 7	" Thirty Copecks.....	0 22 0
Silver, Three Guilders.....	1 20 0	SARDINIA.	
" Guilder.....	0 40 0	Gold, Twenty Lire.....	3 84 5
" Twenty-five Cents.....	0 09 5	Silver, Five Lire.....	0 93 2
" Two-and-a-half Guilders.....	0 98 2	SAXONY.	
NEW GRANADA.		Gold, Ten Thaler.....	7 94 0
Gold, Doubloon, 21 carat stand., 15	61 0	" Ducat.....	2 26 0
" " includ'g the silver, 15	66 0	Silver, Species Thaler.....	0 96 0
" " nine-tenths stand., 15	31 0	" Thaler (XIV. F.M.).....	0 68 0
" " includ'g the silver, 15	36 0	SIAM.	
Silver, Dollar, usual weight.....	1 02 0	Silver, Tical.....	0 58 5
" Dollar, or Ten Reals, 1851, 0	93 0	SPAIN.	
NORWAY.		Gold, Pistole (Quar. Doubloon).....	3 90 5
Silver, Rigsdaler.....	1 05 0	Silver, Pistareen (4 Reals Vellon).....	0 19 5
PERSIA.		SWEDEN.	
Gold, Tomann.....	2 23 0	Silver, Species Daler.....	1 04 2
Silver, Sahib Koran.....	0 21 5	" Half Daler.....	0 52 0
PERU.		TURKEY.	
Gold, Doubloon, Lima, to 1833, 15	55 0	Gold, Hundred Piastres.....	4 37 4
" Doubloon, Cuzco, to 1833, 15	62 0	" Twenty Piastres (new)....	0 82 0
" Doubloon, Cuzco, 1837, 15	53 0	Silver, Twenty Piastres (new)....	0 82 0
Silver, Dollar, Lima mint.....	1 00 6	TUSCANY.	
" Dollar, Cuzco.....	1 00 8	Gold, Sequin.....	2 90 0
" Hf. Dollar, Cuzco, debased.....	0 36 0	Silver, Leopoldone.....	1 05 0
" Hf. Dollar, Arequipa, ".....	0 36 0	" Florin.....	0 26 2
" Half Dollar, Pasco.....	0 49 5	WURTEMBERG.	
POLAND.		Silver, Gulden, 1824.....	0 98 5
Silver, Zloty.....	0 11 2	" Gulden, 1828, and since... 0	39 5
		" Double Thaler, (3½ Guild.).....	1 39 0

VALUE OF FOREIGN COINS.

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 3½ 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.

RATES OF POSTAGE.

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

DROP LETTERS, 2 cents per each half ounce.

VALUABLE LETTERS may be registered on application at the office of mailing, and the payment of a registration fee of 20 cents.

TRANSIENT NEWSPAPERS, Periodicals, Pamphlets, Blanks, Proof Sheets, Book Manuscripts, and all mailable printed matter, (except circulars and books,) 2 cents for each and every 4 ounces. Double these rates are charged for Books.

UNSEALED CIRCULARS, (to one address,) not exceeding 3 in number, 2 cents, and in the same proportion for a greater number.

SEEDS, CUTTINGS, ROOTS, &c., 2 cents for each four ounces or less quantity. Weight not to exceed 4 lbs.

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 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.

WEEKLY NEWSPAPERS, (one copy only,) sent to actual subscribers within the County where printed and published, *free*. This does not include papers published in the City, and circulated in the City.

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

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.

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.

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.

List of Sundays in 1873.

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

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, S. 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.

CHRONOLOGICAL CYCLES, 1873.

Dominical Letter.....	E.	Lunar Cycle or Golden No.	12
Epact.....	1	Roman Indiction.....	1
Solar Cycle.....	6	Julian Period.....	6,586

ECLIPSES IN THE YEAR 1873.

In the year 1873 there will be four Eclipses; two of the Sun, and two of the Moon.

I.—A TOTAL ECLIPSE OF THE MOON, May 12th, visible in part to North America, South America, Australia, and Eastern Asia. At CHICAGO, the Moon will enter Shadow at 3h. 40m. A.M.; the Total Phase beginning as the Moon sets.

At San Francisco, the Eclipse will occur as follows:

Moon enters Penumbra.....	May 12th,	0h 17m	A. M.
Moon enters Shadow.....	" "	1h 20m	"
Total Phase begins.....	" "	2h 25m	"
Middle of Total Phase.....	" "	3h 10m	"
Total Phase ends.....	" "	3h 56m	"
Moon leaves Shadow.....	After setting.		

II.—A PARTIAL ECLIPSE OF THE SUN, May 26th; invisible. Visible to Europe.

III.—A TOTAL ECLIPSE OF THE MOON, November 4th; partly visible to western coast of North America, Asia, Africa, and Australia.

At San Francisco, the Moon will enter Shadow at 5h 56m, A. M.; the moon setting before the Total Phase begins.

IV.—A PARTIAL ECLIPSE OF THE SUN, November 19th; invisible. Visible about the South Pole.

Morning and Evening Stars.

MERCURY will be Morning Star about January 5th, May 3d, August 30th, and December 19th; and Evening Star about March 18th, July 16th, and November 10th.

VENUS will be Evening Star until May 5th; then Morning Star the rest of the year.

JUPITER will be Morning Star until February 14th; then Evening Star until September 4th; and Morning Star again for the rest of the year.

TIDES AT SAN FRANCISCO.

NOTE.—The table 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.)

THE LENGTH OF DAYS.

At San Francisco the longest day has 14½ hours; at Boston, 15½; at Berlin and London, 16½; at Stockholm and Upsal, 16½; 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 21½, and the shortest 2½ hours. At Wanderbus, in Norway, the day lasts from the 21st of May to the 22d of July, without interruption; and at Spitzbergen, the longest day is 3½ months.

THE SEASONS

Vernal Equinox.....	March	20th.....	4 h.....	42 m M.
Autumnal Equinox.....	Sept.	22d.....	3 h.....	25 m A.
Summer Solstice.....	June	21st.....	1 h.....	15 m M.
Winter Solstice.....	Dec.	21st.....	9 h.....	22 m M.

1st Month. JANUARY, 1873. 31 Days.

Phases of the Moon.

FIRST QUARTER, 5th.....	1h. 17m.	After.
FULL MOON, 13th.....	8h. 13m.	Morn.
LAST QUARTER, 21st.....	0h. 21m.	After.
NEW MOON, 28th.....	9h. 17m.	Morn.

APOGEE.....	15th.....	6h. After.
PERIGEE.....	28th.....	5h. After.

D'y of Mo.	Day of Week.	SUN		DAYS'		MOON		HIGH TIDE.*	
		Rises. h m	Sets. h m	Length. h m	Incr. h m	Souths. h m	R. & S. h m	Morning. h m	Evening. h m
1	W.	7 16	4 52	9 36	0 3	2 46	7 56	2 42s	0 54l
2	Th.	7 16	4 53	9 37	0 4	3 43	9 11	3 29s	1 55l
3	Fri.	7 16	4 54	9 38	0 5	4 36	10 23	4 21s	3 7l
4	Sat.	7 16	4 55	9 39	0 6	5 25	11 33	5 16s	4 26l
5	S.	7 16	4 56	9 40	0 7	6 12	MORN.	6 7s	5 43l
6	Mo.	7 16	4 57	9 41	0 8	6 58	0 40	6 52s	6 56l
7	Tu.	7 16	4 58	9 42	0 9	7 44	1 47	7 26l	8 16s
8	W.	7 16	4 59	9 43	0 10	8 32	2 51	8 5l	9 31s
9	Th.	7 15	5 0	9 45	0 12	9 22	3 54	8 41l	10 41s
10	Fri.	7 15	5 1	9 46	0 13	10 12	4 56	9 12l	11 38s
11	Sat.	7 15	5 2	9 47	0 14	11 4	5 56	9 42l	.....
12	S.	7 15	5 2	9 47	0 14	11 56	6 50	0 36s	10 8l*
13	Mo.	7 15	5 3	9 48	0 15	MORN.	RISES.	1 8s	10 46l*
14	Tu.	7 14	5 5	9 51	0 18	0 46	6 6	1 44s	11 33l*
15	W.	7 14	5 6	9 52	0 19	1 34	7 4	2 21s	0 18l
16	Th.	7 14	5 7	9 53	0 20	2 20	8 4	2 52s	1 6l
17	Fri.	7 14	5 8	9 54	0 21	3 3	9 3	3 20s	1 56l
18	Sat.	7 13	5 9	9 56	0 23	3 44	10 2	3 46s	2 52l
19	S.	7 13	5 10	9 57	0 24	4 25	11 1	4 16s	3 57l
20	Mo.	7 12	5 11	9 59	0 26	5 5	MORN.	5 11l	4 55s
21	Tu.	7 12	5 12	10 0	0 27	5 47	0 0	5 37l	6 4s
22	W.	7 12	5 13	10 1	0 28	6 32	1 1	6 14l	7 16s
23	Th.	7 11	5 14	10 3	0 30	7 20	2 7	6 50l	8 32s
24	Fri.	7 11	5 15	10 4	0 31	8 14	3 15	7 32l	9 47s
25	Sat.	7 10	5 17	10 7	0 34	9 12	4 25	8 21l	10 59s
26	S.	7 9	5 18	10 9	0 36	10 16	5 33	9 5l	11 58s
27	Mo.	7 8	5 19	10 11	0 38	11 21	6 35	9 58l	.....
28	Tu.	7 7	5 20	10 13	0 40	0 26	SETS.	0 46s	10 58l*
29	W.	7 7	5 21	10 14	0 41	1 27	6 44	1 35s	0 1l
30	Th.	7 6	5 22	10 16	0 43	2 23	8 2	2 16s	1 2l
31	Fri.	7 5	5 23	10 18	0 45	3 16	9 16	2 52s	2 2l

* For explanatory remarks, see Note on page 28.

Phases of the Moon.

FIRST QUARTER, 4th..... 1h. 56m. Morn.
 FULL MOON, 12th..... 3h. 23m. Morn.
 LAST QUARTER, 20th..... 3h. 13m. Morn.
 NEW MOON, 26th..... 7h. 12m. After.

APOGEE.....11th..... 8h. After.
 PERIGEE.....26th..... 6h. Morn.

D'y of Mo.	Day of Week.	SUN		DAYS'		MOON		HIGH TIDE.*	
		Rises. h m	Sets. h m	Length. h m	Incre. h m	Souths. h m	R. & S. h m	Morning. h m	Evening. h m
1	Sat.	7 4	5 24	10 20	0 47	4 5	10 28	3 29s	3 5l
2	S.	7 3	5 25	10 22	0 49	4 53	11 37	4 11s	4 15l
3	Mo.	7 2	5 26	10 24	0 51	5 41	MORN.	4 52l	5 42s
4	Tu.	7 1	5 28	10 27	0 54	6 29	0 44	5 36l	7 2s
5	W.	7 0	5 29	10 29	0 56	7 18	1 48	6 17l	8 17s
6	Th.	6 59	5 30	10 31	0 58	8 9	2 51	6 59l	9 25s
7	Fri.	6 58	5 31	10 33	1 0	9 0	3 51	7 46l	10 40s
8	Sat.	6 57	5 32	10 35	1 2	9 52	4 46	8 24l	11 24s
9	S.	6 56	5 34	10 38	1 5	10 42	5 35	9 8l	.....
10	Mo.	6 55	5 35	10 40	1 7	11 31	6 16	0 6s	9 49l*
11	Tu.	6 54	5 36	10 42	1 9	MORN.	RISES.	0 37s	10 31l*
12	W.	6 53	5 37	10 44	1 11	0 17	5 56	1 5s	11 27l*
13	Th.	6 52	5 38	10 46	1 13	1 1	6 56	1 41s	0 14l
14	Fri.	6 51	5 39	10 48	1 15	1 43	7 55	2 4s	1 0l
15	Sat.	6 50	5 40	10 50	1 17	2 24	8 54	2 24s	1 48l
16	S.	6 49	5 41	10 52	1 19	3 4	9 52	3 2l	2 31s
17	Mo.	6 48	5 42	10 54	1 21	3 45	10 53	3 13l	3 30s
18	Tu.	6 47	5 43	10 56	1 23	4 28	11 56	3 40l	4 42s
19	W.	6 45	5 44	10 59	1 26	5 14	MORN.	4 16l	5 58s
20	Th.	6 44	5 45	11 1	1 28	6 4	1 0	4 58l	7 14s
21	Fri.	6 43	5 46	11 3	1 30	6 58	2 7	5 48l	8 33s
22	Sat.	6 42	5 47	11 5	1 32	7 57	3 12	6 39l	9 46s
23	S.	6 40	5 48	11 8	1 35	9 0	4 16	7 46l	10 50s
24	Mo.	6 38	5 49	11 11	1 38	10 3	5 13	8 52l	11 41s
25	Tu.	6 37	5 50	11 13	1 40	11 5	6 1	9 53l	.....
26	W.	6 36	5 51	11 15	1 42	0 4	SETS.	0 23s	11 9l*
27	Th.	6 34	5 52	11 18	1 45	1 0	6 50	1 0s	0 10l
28	Fri.	6 33	5 53	11 20	1 47	1 52	8 3	1 33s	1 9l
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* For explanatory remarks, see Note on page 28.

Phases of the Moon.

FIRST QUARTER, 5th..... 5h. 15m. After.
 FULL MOON, 13th..... 9h. 35m. After.
 LAST QUARTER, 21st..... 2h. 10m. After.
 NEW MOON, 28th..... 4h. 44m. Morn.

APOGEE.....11th..... 1h. Morn.
 PERIGEE.....26th..... 3h. After

D'y of Mo.	Day of Week.	SUN		DAYS'		MOON		HIGH TIDE.*	
		Rises. h m	Sets. h m	Length. h m	Incre. h m	Souths. h m	R. & S. h m	Morning. h m	Evening. h m
1	Sat.	6 32	5 54	11 22	1 49	2 42	9 16	2 2s	2 6l
2	S.	6 31	5 55	11 24	1 51	3 32	10 27	2 23l	3 13s
3	Mo.	6 29	5 56	11 27	1 54	4 21	11 37	2 55l	4 21s
4	Tu.	6 28	5 57	11 29	1 56	5 12	MORN.	3 37l	5 37s
5	W.	6 26	5 58	11 32	1 59	6 3	0 42	4 25l	6 51s
6	Th.	6 25	5 59	11 34	2 1	6 55	1 43	5 16l	8 10s
7	Fri.	6 23	6 0	11 37	2 4	7 48	2 41	6 5l	9 5s
8	Sat.	6 22	6 1	11 39	2 6	8 39	3 33	7 5l	10 3s
9	S.	6 20	6 2	11 42	2 9	9 28	4 17	8 2l	10 50s
10	Mo.	6 19	6 3	11 44	2 11	10 15	4 55	8 53l	11 27s
11	Tu.	6 17	6 4	11 47	2 14	10 59	5 28	9 40l	11 54s
12	W.	6 16	6 5	11 49	2 16	11 42	5 56	10 24l	.....
13	Th.	6 14	6 6	11 52	2 19	MORN.	RISES.	0 14s	11 9l*
14	Fri.	6 13	6 7	11 54	2 21	0 23	6 47	0 33s	0 10l
15	Sat.	6 11	6 7	11 56	2 23	1 4	7 46	1 24l	0 50s
16	S.	6 9	6 8	11 59	2 26	1 45	8 47	1 32l	1 39s
17	Mo.	6 8	6 9	12 1	2 28	2 27	9 49	1 49l	2 31s
18	Tu.	6 7	6 10	12 3	2 30	3 12	10 52	2 5l	3 30s
19	W.	6 5	6 11	12 6	2 33	4 0	11 58	2 30l	4 36s
20	Th.	6 4	6 12	12 8	2 35	4 52	MORN.	3 10l	5 57s
21	Fri.	6 2	6 13	12 11	2 38	5 48	1 5	4 3l	7 11s
22	Sat.	6 1	6 14	12 13	2 40	6 48	2 8	5 11l	8 22s
23	S.	5 59	6 14	12 15	2 42	7 49	3 4	6 24l	9 30s
24	Mo.	5 57	6 16	12 19	2 46	8 49	3 53	7 42l	10 27s
25	Tu.	5 55	6 17	12 22	2 49	9 48	4 37	8 53l	11 12s
26	W.	5 54	6 18	12 24	2 51	10 43	5 12	9 58l	11 44s
27	Th.	5 52	6 19	12 27	2 54	11 36	5 44	10 54l	.....
28	Fri.	5 51	6 20	12 29	2 56	0 27	SETS.	0 11s	0 15l
29	Sat.	5 50	6 20	12 30	2 57	1 18	8 4	0 33l	1 23s
30	S.	5 48	6 21	12 33	3 0	2 8	9 14	0 57l	2 23s
31	Mo.	5 46	6 22	12 36	3 3	3 0	10 23	1 20l	3 20s

* For explanatory remarks, see Note on page 28.

Phases of the Moon.

FIRST QUARTER, 4th.....10h. 26m. Morn.
 FULL MOON, 12th..... 1h. 41m. After.
 LAST QUARTER, 19th..... 9h. 38m. After.
 NEW MOON, 26th..... 2h. 32m. After.

APOGEE 7th..... 3h. After.
 PERIGEE.....23d 0h. After.

D'y of Mo.	Day of Week.	SUN		DAYS'		MOON		HIGH TIDE.*	
		Rises. h m	Sets. h m	Length. h m	Incr. h m	Souths. h m	R. & S. h m	Morning. h m	Evening. h m
1	Tu.	5 45	6 23	12 38	3 5	3 53	11 31	1 48/	4 14s
2	W.	5 44	6 24	12 40	3 7	4 46	MORN.	2 32/	5 26s
3	Th.	5 42	6 25	12 43	3 10	5 40	0 31	3 25/	6 25s
4	Fri.	5 40	6 26	12 46	3 13	6 32	1 28	4 31/	7 29s
5	Sat.	5 39	6 27	12 48	3 15	7 23	2 15	5 34/	8 22s
6	S.	5 38	6 28	12 50	3 17	8 11	2 56	6 42/	9 16s
7	Mo.	5 36	6 28	12 52	3 19	8 56	3 31	7 44/	9 58s
8	Tu.	5 35	6 29	12 54	3 21	9 39	4 0	8 40/	10 30s
9	W.	5 33	6 30	12 57	3 24	10 21	4 26	9 32/	10 56s
10	Th.	5 32	6 31	12 59	3 26	11 2	4 50	10 20/	11 16s
11	Fri.	5 30	6 32	13 2	3 29	11 43	5 14	11 6/	11 34s
12	Sat.	5 29	6 33	13 4	3 31	MORN.	RISES.	11 28s	.....
13	S.	5 28	6 34	13 6	3 33	0 25	7 41	0 10/	0 35s
14	Mo.	5 26	6 35	13 9	3 36	1 9	8 46	0 45/	1 28s
15	Tu.	5 24	6 36	13 12	3 39	1 57	9 52	1 2/	2 24s
16	W.	5 23	6 37	13 14	3 41	2 48	10 58	1 24/	3 20s
17	Th.	5 22	6 37	13 15	3 42	3 43	MORN.	1 54/	4 30s
18	Fri.	5 21	6 38	13 17	3 44	4 42	0 2	2 36/	5 47s
19	Sat.	5 19	6 39	13 20	3 47	5 42	1 0	3 47/	7 2s
20	S.	5 18	6 41	13 23	3 50	6 41	1 51	5 4/	8 8s
21	Mo.	5 16	6 42	13 26	3 53	7 39	2 34	6 20/	9 12s
22	Tu.	5 15	6 43	13 28	3 55	8 34	3 11	7 38/	10 3s
23	W.	5 14	6 43	13 29	3 56	9 26	3 43	8 49/	10 40s
24	Th.	5 13	6 44	13 31	3 58	10 16	4 13	9 50/	11 10s
25	Fri.	5 11	6 45	13 34	4 1	11 5	4 41	10 56s	11 40/
26	Sat.	5 10	6 46	13 36	4 3	11 55	SETS.	11 58s	11 51/
27	S.	5 9	6 47	13 38	4 5	0 46	8 2	.....	0 41s
28	Mo.	5 8	6 48	13 40	4 7	1 39	9 10	0 14/	2 14s
29	Tu.	5 6	6 49	13 43	4 10	2 33	10 16	0 39/	3 5s
30	W.	5 5	6 50	13 45	4 12	3 28	11 16	1 11/	4 5s

* For explanatory remarks, see Note on page 28.

Phases of the Moon.

FIRST QUARTER, 4th..... 4h. 23m. Morn.
 FULL MOON, 12th..... 3h. 8m. Morn.
 LAST QUARTER, 19th..... 2h. 50m. Morn.
 NEW MOON, 26th..... 1h. 10m. Morn.

APOGEE 5th..... 9h. Morn.
 PERIGEE.....19th..... 4h. After.

D'y of Mo.	Day of Week.	SUN		DAYS'		MOON		HIGH TIDE.*	
		Rises. h m	Sets. h m	Length. h m	Incr. h m	Souths. h m	R. & S. h m	Morning. h m	Evening. h m
1	Th.	5 4	6 51	13 47	4 14	4 22	MORN.	1 49/	4 49s
2	Fri.	5 3	6 52	13 49	4 16	5 14	0 9	2 51/	5 49s
3	Sat.	5 2	6 52	13 50	4 17	6 4	0 53	3 59/	6 47s
4	S.	5 1	6 53	13 52	4 19	6 51	1 30	5 7/	7 41s
5	Mo.	4 59	6 54	13 55	4 22	7 35	2 2	6 10/	8 24s
6	Tu.	4 58	6 55	13 57	4 24	8 17	2 30	7 14/	9 4s
7	W.	4 57	6 56	13 59	4 26	8 58	2 54	8 13/	9 37s
8	Th.	4 56	6 57	14 1	4 28	9 38	3 17	9 7/	10 3s
9	Fri.	4 55	6 58	14 3	4 30	10 20	3 40	9 58/	10 26s
10	Sat.	4 54	6 59	14 5	4 32	11 4	4 4	10 40s	10 50/
11	S.	4 53	7 0	14 7	4 34	11 51	4 32	11 30s	11 4/
12	Mo.	4 52	7 1	14 9	4 36	MORN.	RISES.	0 25s†	11 25/
13	Tu.	4 51	7 1	14 10	4 37	0 41	8 47	.....	1 36s
14	W.	4 51	7 2	14 11	4 38	1 37	9 54	0 10/	2 34s
15	Th.	4 50	7 3	14 13	4 40	2 35	10 55	0 40/	3 25s
16	Fri.	4 49	7 4	14 15	4 42	3 36	11 50	1 25/	4 24s
17	Sat.	4 48	7 5	14 17	4 44	4 37	MORN.	2 26/	5 34s
18	S.	4 47	7 6	14 19	4 46	5 35	0 35	3 46/	6 42s
19	Mo.	4 47	7 6	14 19	4 46	6 30	1 13	5 8/	7 38s
20	Tu.	4 46	7 7	14 21	4 48	7 21	1 46	6 24/	8 28s
21	W.	4 45	7 8	14 23	4 50	8 11	2 15	7 38/	9 13s
22	Th.	4 45	7 9	14 24	4 51	8 59	2 41	8 59s	9 41/
23	Fri.	4 44	7 10	14 26	4 53	9 47	3 10	9 59s	10 9/
24	Sat.	4 43	7 10	14 27	4 54	10 36	3 38	10 59s	10 31/
25	S.	4 43	7 11	14 28	4 55	11 27	4 11	11 57s	10 52/
26	Mo.	4 42	7 12	14 30	4 57	0 20	SETS.	0 52s†	11 23/
27	Tu.	4 42	7 13	14 31	4 58	1 15	9 2	1 49s†	11 53/
28	W.	4 41	7 14	14 33	5 0	2 10	9 58	.....	2 47s
29	Th.	4 41	7 14	14 33	5 0	3 4	10 46	0 34/	3 32s
30	Fri.	4 40	7 15	14 35	5 2	3 56	11 27	1 23/	4 11s
31	Sat.	4 40	7 16	14 36	5 3	4 44	MORN.	2 25/	4 59s

* For explanatory remarks, see Note on page 28.

Phases of the Moon.

FIRST QUARTER, 2d 10h. 9m. After.
 FULL MOON, 10th..... 1h. 51m. After.
 LAST QUARTER, 17th..... 7h. 22m. Morn.
 NEW MOON, 24th..... 1h. 2m. After.

APOGEE..... 2d 4h. Morn.
 PERIGEE..... 14th..... 6h. Morn.
 APOGEE 29th..... 10h. After.

D'y of Mo.	Day of Week.	SUN		DAYS'		MOON		HIGH TIDE.*	
		Rises. h m	Sets. h m	Length. h m	Incre. h m	Souths. h m	R. & S. h m	Morning. h m	Evening. h m
1	S.	4 40	7 17	14 37	5 4	5 29	0 1	3 32l	5 46s
2	Mo.	4 39	7 17	14 38	5 5	6 12	0 31	4 40l	6 30s
3	Tu.	4 39	7 18	14 39	5 6	6 53	0 56	5 45l	7 9s
4	W.	4 39	7 18	14 39	5 6	7 33	1 20	6 47l	7 43s
5	Th.	4 38	7 19	14 41	5 8	8 14	1 43	7 49l	8 17s
6	Fri.	4 38	7 19	14 41	5 8	8 56	2 6	8 43s	8 53l
7	Sat.	4 38	7 20	14 42	5 9	9 42	2 30	9 42s	9 16l
8	S.	4 37	7 20	14 43	5 10	10 31	2 58	10 42s	9 42l
9	Mo.	4 37	7 21	14 44	5 11	11 25	3 33	11 40s	10 14l
10	Tu.	4 37	7 21	14 44	5 11	MORN.	RISES.	0 33s†	10 39l
11	W.	4 37	7 21	14 44	5 11	0 23	8 45	1 48s†	11 48l
12	Th.	4 37	7 22	14 45	5 12	1 25	9 43	.....	2 28s
13	Fri.	4 37	7 22	14 45	5 12	2 27	10 31	0 30l	3 12s
14	Sat.	4 37	7 23	14 46	5 13	3 28	11 13	1 24l	4 3s
15	S.	4 37	7 23	14 46	5 13	4 25	11 49	2 29l	5 2s
16	Mo.	4 37	7 23	14 46	5 13	5 18	MORN.	3 48l	5 58s
17	Tu.	4 37	7 24	14 47	5 14	6 9	0 19	5 8l	6 49s
18	W.	4 38	7 24	14 47	5 14	6 56	0 47	6 35s	7 24l
19	Th.	4 38	7 25	14 47	5 14	7 44	1 14	7 42s	8 5l
20	Fri.	4 38	7 25	14 47	5 14	8 32	1 41	8 55s	8 41l
21	Sat.	4 38	7 25	14 47	DECR.	9 21	2 10	10 7s	9 10l
22	S.	4 38	7 25	14 47	0 0	10 12	2 44	11 10s	9 42l
23	Mo.	4 39	7 26	14 47	0 0	11 6	3 24	0 8s†	10 9l
24	Tu.	4 39	7 26	14 47	0 0	0 0	4 11	1 3s†	10 50l
25	W.	4 39	7 26	14 47	0 0	0 55	SETS.	1 50s†	11 35l
26	Th.	4 39	7 26	14 47	0 0	1 47	9 27	.....	2 33s
27	Fri.	4 40	7 26	14 46	0 1	2 37	10 0	0 22l	2 56s
28	Sat.	4 40	7 26	14 46	0 1	3 24	10 31	1 10l	3 24s
29	S.	4 41	7 26	14 45	0 2	4 7	10 57	2 5l	3 55s
30	Mo.	4 41	7 26	14 45	0 2	4 49	11 21	3 7l	4 31s

† For explanatory remarks, see Note on page 28.

Phases of the Moon.

FIRST QUARTER, 2d 3h. 0m. After.
 FULL MOON, 9th..... 10h. 24m. After.
 LAST QUARTER, 16th..... 0h. 48m. After.
 NEW MOON, 24th..... 2h. 24m. Morn.

PERIGEE..... 11th..... 10h. After.
 APOGEE 27th..... 1h. After.

D'y of Mo.	Day of Week.	SUN		DAYS'		MOON		HIGH TIDE.*	
		Rises. h m	Sets. h m	Length. h m	Decre. h m	Souths. h m	R. & S. h m	Morning. h m	Evening. h m
1	Tu.	4 41	7 26	14 45	0 2	5 29	11 44	4 14l	5 10s
2	W.	4 42	7 26	14 44	0 3	6 9	MORN.	5 19l	5 47s
3	Th.	4 42	7 25	14 43	0 4	6 50	0 7	6 0s	6 42l
4	Fri.	4 43	7 25	14 42	0 5	7 33	0 31	7 5s	7 15l
5	Sat.	4 43	7 25	14 42	0 5	8 19	0 58	8 12s	7 46l
6	S.	4 44	7 24	14 40	0 7	9 10	1 28	9 23s	8 23l
7	Mo.	4 44	7 24	14 40	0 7	10 7	2 6	10 30s	9 4l
8	Tu.	4 45	7 24	14 39	0 8	11 7	2 51	11 34s	9 40l
9	W.	4 45	7 23	14 38	0 9	MORN.	3 47	0 34s†	10 34l
10	Th.	4 46	7 23	14 37	0 10	0 11	RISES.	1 28s†	11 30l
11	Fri.	4 47	7 23	14 36	0 11	1 14	9 9	.....	2 13s
12	Sat.	4 48	7 22	14 34	0 13	2 15	9 49	0 25l	2 56s
13	S.	4 48	7 22	14 34	0 13	3 11	10 20	1 22l	3 36s
14	Mo.	4 49	7 22	14 33	0 14	4 4	10 49	2 22l	4 23s
15	Tu.	4 50	7 21	14 31	0 16	4 54	11 17	3 33l	5 14s
16	W.	4 51	7 20	14 29	0 18	5 42	11 43	5 0s	5 54l
17	Th.	4 52	7 20	14 28	0 19	6 30	MORN.	6 12s	6 36l
18	Fri.	4 52	7 19	14 27	0 20	7 18	0 13	7 26s	7 17l
19	Sat.	4 53	7 19	14 26	0 21	8 9	0 46	8 43s	7 59l
20	S.	4 54	7 18	14 24	0 23	9 1	1 22	9 59s	8 39l
21	Mo.	4 55	7 17	14 22	0 25	9 54	2 7	11 5s	9 13l
22	Tu.	4 55	7 16	14 21	0 26	10 48	2 58	0 7s	9 53l
23	W.	4 56	7 16	14 20	0 27	11 41	3 54	0 53s†	10 35l
24	Th.	4 57	7 15	14 18	0 29	0 32	SETS.	1 33s†	11 22l
25	Fri.	4 58	7 14	14 16	0 31	1 19	8 32	.....	2 10s
26	Sat.	4 59	7 13	14 14	0 33	2 4	8 59	0 7l	2 21s
27	S.	5 0	7 12	14 12	0 35	2 46	9 24	0 52l	2 42s
28	Mo.	5 0	7 12	14 12	0 35	3 26	9 47	1 40l	3 4s
29	Tu.	5 1	7 11	14 10	0 37	4 6	10 9	2 32l	3 28s
30	W.	5 2	7 10	14 8	0 39	4 46	10 32	3 33l	4 1s
31	Th.	5 3	7 9	14 6	0 41	5 27	10 56	4 30s	4 40l

† For explanatory remarks, see Note on page 28.

Phases of the Moon.

FIRST QUARTER, 1st..... 6h. 19m. Morn.
 FULL MOON, 8th..... 5h. 42m. Morn.
 LAST QUARTER, 14th..... 8h. 31m. After.
 NEW MOON, 22d 5h. 20m. After.
 FIRST QUARTER, 30th..... 7h. 38m. After.

PERIGEE..... 9th..... 2h. Morn.
 APOGEE..... 23d 9h. After.

D'y of Mo.	Day of Week.	SUN		DAYS'		MOON		HIGH TIDE.*	
		Rises.	Sets.	Length.	Decre.	Souths.	R. & S.	Morning.	Evening.
		h m	h m	h m	h m	h m	h m	h m	h m
1	Fri.	5 4	7 8	14 4	0 43	6 11	11 23	5 39s	5 13l
2	Sat.	5 4	7 7	14 3	0 44	6 59	11 58	6 52s	5 52l
3	S.	5 5	7 6	14 1	0 46	7 51	MORN.	8 7s	6 41l
4	Mo.	5 6	7 5	13 59	0 48	8 49	0 38	9 22s	7 28l
5	Tu.	5 7	7 4	13 57	0 50	9 51	1 28	10 37s	8 37l
6	W.	5 8	7 3	13 55	0 52	10 54	2 30	11 37s	9 39l
7	Th.	5 8	7 2	13 54	0 53	11 57	3 41	0 26s†	10 38l
8	Fri.	5 9	7 0	13 51	0 56	MORN.	RISES.	1 11s†	11 37l
9	Sat.	5 10	6 59	13 49	0 58	0 57	8 17	.....	1 52s
10	S.	5 11	6 58	13 47	1 0	1 53	8 48	0 38l	2 27s
11	Mo.	5 12	6 57	13 45	1 2	2 45	9 17	1 37l	2 59s
12	Tu.	5 13	6 56	13 43	1 4	3 36	9 46	2 45s	3 16l
13	W.	5 14	6 54	13 40	1 7	4 25	10 16	3 34s	4 0l
14	Th.	5 15	6 53	13 38	1 9	5 14	10 47	4 50s	4 45l
15	Fri.	5 16	6 52	13 36	1 11	6 5	11 23	6 11s	5 32l
16	Sat.	5 16	6 51	13 35	1 12	6 57	MORN.	7 32s	6 21l
17	S.	5 17	6 50	13 33	1 14	7 51	0 5	8 47s	7 11l
18	Mo.	5 18	6 48	13 30	1 17	8 44	0 54	10 5s	8 6l
19	Tu.	5 19	6 47	13 28	1 19	9 37	1 48	11 6s	8 56l
20	W.	5 20	6 46	13 26	1 21	10 28	2 47	11 54s	9 43l
21	Th.	5 21	6 45	13 24	1 23	11 16	3 48	0 31s†	10 27l
22	Fri.	5 22	6 43	13 21	1 26	0 2	SETS.	1 1s†	11 15l
23	Sat.	5 23	6 42	13 19	1 28	0 44	7 28	.....	1 29s
24	S.	5 24	6 40	13 16	1 31	1 25	7 53	0 0l	1 24s
25	Mo.	5 24	6 39	13 15	1 32	2 5	8 14	0 46l	1 42s
26	Tu.	5 25	6 38	13 13	1 34	2 44	8 36	1 32l	2 0s
27	W.	5 26	6 36	13 10	1 37	3 25	9 0	2 13s	2 23l
28	Th.	5 27	6 35	13 8	1 39	4 7	9 26	3 8s	2 42l
29	Fri.	5 28	6 33	13 5	1 42	4 52	9 56	4 15s	3 15l
30	Sat.	5 29	6 32	13 3	1 44	5 41	10 31	5 30s	4 4l
31	S.	5 30	6 31	13 1	1 46	6 35	11 16	6 45s	4 51l

* For explanatory remarks, see Note on page 28.

Phases of the Moon.

FULL MOON, 6th..... 0h. 59m. After.
 LAST QUARTER, 13th..... 7h. 31m. Morn.
 NEW MOON, 21st..... 9h. 41m. Morn.
 FIRST QUARTER, 29th..... 6h. 46m. Morn.

PERIGEE..... 6th..... 0h. After.
 APOGEE..... 20th..... 0h. Morn.

D'y of Mo.	Day of Week.	SUN		DAYS'		MOON		HIGH TIDE.*	
		Rises.	Sets.	Length.	Decre.	Souths.	R. & S.	Morning.	Evening.
		h m	h m	h m	h m	h m	h m	h m	h m
1	Mo.	5 30	6 29	12 59	1 48	7 34	MORN.	8 4s	6 4l
2	Tu.	5 31	6 28	12 57	1 50	8 35	0 10	9 19s	7 21l
3	W.	5 32	6 26	12 54	1 53	9 37	1 16	10 26s	8 38l
4	Th.	5 33	6 25	12 52	1 55	10 38	2 30	11 19s	9 45l
5	Fri.	5 34	6 23	12 49	1 58	11 35	3 48	0 2s†	10 48l
6	Sat.	5 34	6 22	12 48	1 59	MORN.	RISES.	0 35s†	11 45l
7	S.	5 35	6 20	12 45	2 2	0 30	7 14	.....	0 56s
8	Mo.	5 36	6 19	12 43	2 4	1 23	7 43	0 42s	1 17l
9	Tu.	5 37	6 17	12 40	2 7	2 14	8 13	1 35s	1 43l
10	W.	5 38	6 15	12 37	2 10	3 5	8 45	2 33s	2 10l
11	Th.	5 38	6 14	12 36	2 11	3 57	9 21	3 36s	2 50l
12	Fri.	5 39	6 12	12 33	2 14	4 50	10 2	4 50s	3 44l
13	Sat.	5 40	6 11	12 31	2 16	5 45	10 49	6 10s	4 40l
14	S.	5 41	6 9	12 28	2 19	6 40	11 43	7 34s	5 43l
15	Mo.	5 42	6 7	12 25	2 22	7 33	MORN.	8 43s	6 48l
16	Tu.	5 42	6 6	12 24	2 23	8 25	0 40	9 46s	7 53l
17	W.	5 43	6 4	12 21	2 26	9 14	1 40	10 41s	8 47l
18	Th.	5 44	6 2	12 18	2 29	10 0	2 42	11 21s	9 38l
19	Fri.	5 45	6 1	12 16	2 31	10 44	3 42	11 52s	10 25l
20	Sat.	5 46	6 0	12 14	2 33	11 25	4 41	0 15s†	11 8l
21	S.	5 47	5 58	12 11	2 36	0 5	SETS.	0 32s†	11 56l
22	Mo.	5 48	5 57	12 9	2 38	0 44	6 42	.....	1 10l
23	Tu.	5 49	5 55	12 6	2 41	1 24	7 5	0 18s	1 0l
24	W.	5 49	5 53	12 4	2 43	2 6	7 28	1 6s	1 16l
25	Th.	5 49	5 53	12 4	2 43	2 6	7 28	1 6s	1 16l
26	Fri.	5 50	5 52	12 2	2 45	2 50	7 55	1 56s	1 30l
27	Sat.	5 51	5 51	12 0	2 47	3 37	8 30	2 52s	1 52l
28	S.	5 52	5 49	11 57	2 50	4 29	9 11	3 56s	2 30l
29	Mo.	5 53	5 48	11 55	2 52	5 24	10 0	5 13s	3 19l
30	Tu.	5 54	5 46	11 52	2 55	6 23	10 59	6 37s	4 37l
.....	.....	5 55	5 44	11 49	2 58	7 22	MORN.	7 53s	5 55l

* For explanatory remarks, see note on page 28.

Phases of the Moon.

FULL MOON, 5th..... 9h. 21m. After.
 LAST QUARTER, 12th..... 10h. 15m. After.
 NEW MOON, 21st..... 2h. 45m. Morn.
 FIRST QUARTER, 28th..... 4h. 0m. After.

PERIGEE..... 4th..... 11h. After.
 APOGEE..... 17th..... 8h. Morn.

D'y of Mo.	Day of Week.	SUN		DAYS'		MOON		HIGH TIDE.*	
		Rises. h m	Sets. h m	Length. h m	Decre. h m	Souths. h m	R. & S. h m	Morning. h m	Evening. h m
1	W.	5 56	5 42	11 46	3 1	8 22	0 7	9 3s	7 15/
2	Th.	5 57	5 41	11 44	3 3	9 19	1 22	10 7s	8 33/
3	Fri.	5 58	5 40	11 42	3 5	10 14	2 41	10 56s	9 42/
4	Sat.	5 58	5 38	11 40	3 7	11 7	3 57	11 33s	10 43/
5	S.	5 59	5 37	11 38	3 9	11 58	5 12	0 2s†	11 38/
6	Mo.	6 0	5 35	11 35	3 12	MORN.	RISES.	.....	0 30s
7	Tu.	6 1	5 33	11 32	3 15	0 50	6 39	1 20s	0 17/
8	W.	6 2	5 32	11 30	3 17	1 43	7 14	1 43s	0 42/
9	Th.	6 3	5 31	11 28	3 19	2 37	7 55	2 42s	1 14/
10	Fri.	6 4	5 30	11 26	3 21	3 33	8 40	3 40s	1 54/
11	Sat.	6 5	5 28	11 23	3 24	4 30	9 32	4 48s	3 1/
12	S.	6 6	5 26	11 20	3 27	5 26	10 30	6 1s	4 14/
13	Mo.	6 7	5 25	11 18	3 29	6 20	11 32	7 12s	5 25/
14	Tu.	6 8	5 24	11 16	3 31	7 10	MORN.	8 13s	6 33/
15	W.	6 8	5 23	11 15	3 32	7 58	0 33	9 7s	7 40/
16	Th.	6 9	5 21	11 12	3 35	8 42	1 35	9 54s	8 39/
17	Fri.	6 10	5 20	11 10	3 37	9 23	2 34	10 29s	9 30/
18	Sat.	6 12	5 18	11 6	3 41	10 4	3 32	10 54s	10 20/
19	S.	6 13	5 17	11 4	3 43	10 43	4 30	11 34/	10 42s
20	Mo.	6 14	5 15	11 1	3 46	11 23	5 28	11 24/	11 28s
21	Tu.	6 15	5 14	10 59	3 48	0 4	SETS.	11 38/	.....
22	W.	6 16	5 13	10 57	3 50	0 48	5 58	0 18s	11 52/
23	Th.	6 17	5 11	10 54	3 53	1 35	6 31	1 11s	0 11/
24	Fri.	6 18	5 10	10 52	3 55	2 25	7 10	2 6s	0 40/
25	Sat.	6 19	5 9	10 50	3 57	3 20	7 57	3 0s	1 6/
26	S.	6 20	5 7	10 47	4 0	4 17	8 52	4 5s	2 5/
27	Mo.	6 21	5 6	10 45	4 2	5 15	9 57	5 14s	3 16/
28	Tu.	6 22	5 5	10 43	4 4	6 13	11 8	6 28s	4 40/
29	W.	6 23	5 4	10 41	4 6	7 9	MORN.	7 35s	6 1/
30	Th.	6 24	5 3	10 39	4 8	8 3	0 20	8 36s	7 22/
31	Fri.	6 25	5 2	10 37	4 10	8 54	1 35	9 29s	8 39/

* For explanatory remarks, see Note on page 28.

Phases of the Moon.

FULL MOON, 4th..... 7h. 38m. Morn.
 LAST QUARTER, 11th..... 4h. 38m. After.
 NEW MOON, 19th..... 7h. 26m. After.
 FIRST QUARTER, 27th..... 0h. 3m. Morn.

PERIGEE..... 2d..... 5h. Morn.
 APOGEE..... 14th..... 1h. Morn.
 PERIGEE..... 29th..... 7h. After.

D'y of Mo.	Day of Week.	SUN		DAYS'		MOON		HIGH TIDE.*	
		Rises. h m	Sets. h m	Length. h m	Decre. h m	Souths. h m	R. & S. h m	Morning. h m	Evening. h m
1	Sat.	6 26	5 1	10 35	4 12	9 45	2 49	10 10s	9 46/
2	S.	6 27	5 0	10 33	4 14	10 35	4 3	10 44s	10 48/
3	Mo.	6 28	4 59	10 31	4 16	11 27	5 15	11 4/	11 54s
4	Tu.	6 29	4 58	10 29	4 18	MORN.	RISES.	11 27/	.....
5	W.	6 30	4 57	10 27	4 20	0 21	5 44	0 53s	11 37/
6	Th.	6 31	4 56	10 25	4 22	1 17	6 29	1 37s	0 9/
7	Fri.	6 32	4 55	10 23	4 24	2 14	7 19	2 35s	0 41/
8	Sat.	6 33	4 54	10 21	4 26	3 12	8 16	3 35s	1 30/
9	S.	6 34	4 54	10 20	4 27	4 9	9 8	4 30s	2 36/
10	Mo.	6 36	4 53	10 17	4 30	5 2	10 20	5 34s	3 48/
11	Tu.	6 37	4 52	10 15	4 32	5 52	11 23	6 36s	4 59/
12	W.	6 38	4 51	10 13	4 34	6 37	MORN.	7 33s	6 3/
13	Th.	6 39	4 50	10 11	4 36	7 20	0 23	8 17s	7 7/
14	Fri.	6 40	4 49	10 9	4 38	8 1	1 21	8 57s	8 8/
15	Sat.	6 41	4 48	10 7	4 40	8 41	2 19	9 32s	9 5/
16	S.	6 42	4 48	10 6	4 41	9 20	3 17	9 47/	9 49s
17	Mo.	6 43	4 47	10 4	4 43	10 1	4 15	9 59/	10 41s
18	Tu.	6 44	4 46	10 2	4 45	10 44	5 16	10 15/	11 33s
19	W.	6 45	4 46	10 1	4 46	11 30	6 20	10 33/	.....
20	Th.	6 46	4 45	9 59	4 48	0 20	SETS.	0 24s	10 54/
21	Fri.	6 47	4 45	9 58	4 49	1 14	5 52	1 19s	11 25/
22	Sat.	6 48	4 45	9 57	4 50	2 11	6 45	2 16s	0 16/
23	S.	6 49	4 44	9 55	4 52	3 10	7 49	3 5s	1 7/
24	Mo.	6 50	4 43	9 53	4 54	4 9	8 56	3 57s	2 9/
25	Tu.	6 51	4 43	9 52	4 55	5 5	10 9	4 58s	3 24/
26	W.	6 52	4 42	9 50	4 57	5 58	11 23	6 3s	4 49/
27	Th.	6 53	4 42	9 49	4 58	6 49	MORN.	7 1s	6 11/
28	Fri.	6 54	4 42	9 48	4 59	7 38	0 35	7 50s	7 26/
29	Sat.	6 55	4 42	9 47	5 0	8 26	1 46	8 36s	8 40/
30	S.	6 56	4 41	9 45	5 2	9 16	2 57	9 9/	9 59s

* For explanatory remarks, see Note on page 28.

12th Month. **DECEMBER, 1873.** 31 Days.

Phases of the Moon.

FULL MOON, 3d 8h. 10m. After.
 LAST QUARTER, 11th..... 1h. 44m. After.
 NEW MOON, 19th..... 10h. 39m. Morn.
 FIRST QUARTER, 26th..... 7h. 55m. Morn.

APOGEE 11th..... 9h. After.
 PERIGEE..... 24th..... 1h. After.

Day of Mo. of Week.	SUN		DAYS'		MOON		HIGH TIDE.*	
	Rises. h m	Sets. h m	Length. h m	Decre. h m	Souths. h m	R. & S. h m	Morning. h m	Evening. h m
1 Mo.	6 57	4 41	9 44	5 3	10 7	4 8	9 41/	11 7s
2 Tu.	6 58	4 41	9 43	5 4	11 1	5 20	10 8/	.....
3 W.	6 59	4 41	9 42	5 5	11 57	6 32	0 8s	10 33/ *
4 Th.	7 0	4 41	9 41	5 6	MORN.	RISES.	0 59s	11 4/ *
5 Fri.	7 1	4 41	9 40	5 7	0 56	6 1	1 58s	11 35/ *
6 Sat.	7 2	4 41	9 39	5 8	1 54	7 1	2 35s	0 22/
7 S.	7 3	4 41	9 38	5 9	2 50	8 4	3 20s	1 15/
8 Mo.	7 4	4 41	9 37	5 10	3 42	9 10	4 3s	2 15/
9 Tu.	7 4	4 41	9 37	5 10	4 30	10 12	4 49s	3 24/
10 W.	7 5	4 42	9 37	5 10	5 15	11 12	5 38s	4 34/
11 Th.	7 6	4 42	9 36	5 11	5 56	MORN.	6 24s	5 49/
12 Fri.	7 7	4 42	9 35	5 12	6 36	0 9	7 3s	6 40/
13 Sat.	7 8	4 42	9 35	5 12	7 16	1 6	7 22/	7 36s
14 S.	7 8	4 43	9 35	5 12	7 55	2 3	7 46/	8 38s
15 Mo.	7 9	4 43	9 34	5 13	8 37	3 3	8 12/	9 42s
16 Tu.	7 9	4 44	9 34	5 13	9 22	4 5	8 42/	10 42s
17 W.	7 10	4 44	9 34	5 13	10 10	5 9	9 16/	11 36s
18 Th.	7 11	4 44	9 33	5 14	11 3	6 16	9 42/	.....
19 Fri.	7 11	4 45	9 33	5 14	0 0	SETS.	0 31s	10 31/ *
20 Sat.	7 12	4 45	9 33	5 14	1 0	5 36	1 20s	11 22/ *
21 S.	7 12	4 46	9 33	5 14	2 1	6 46	2 7s	0 19/
22 Mo.	7 13	4 46	9 33	INCR.	2 59	7 59	2 51s	1 17/
23 Tu.	7 13	4 46	9 33	0 0	3 55	9 13	3 34s	2 20/
24 W.	7 14	4 47	9 33	0 0	4 47	10 27	4 24s	3 34/
25 Th.	7 14	4 48	9 34	0 1	5 36	11 38	5 18s	4 54/
26 Fri.	7 14	4 48	9 34	0 1	6 24	MORN.	6 8s	6 12/
27 Sat.	7 15	4 49	9 34	0 1	7 12	0 49	6 45/	7 35s
28 S.	7 15	4 49	9 34	0 1	8 1	1 58	7 27/	8 53s
29 Mo.	7 15	4 50	9 35	0 2	8 52	3 8	8 7/	10 7s
30 Tu.	7 16	4 51	9 35	0 2	9 46	4 18	8 43/	11 9s
31 W.	7 16	4 51	9 35	0 2	10 43	5 27	9 20/	.....

* For explanatory remarks, see Note on page 28.

Seattle W.T.

*I have worked
in the Mill.*

12th Month. **DECEMBER, 1873.** 31 Days.

Phases of the Moon.

FULL MOON, 3d 8h. 10m. After.
 LAST QUARTER, 11th 1h. 44m. After.
 NEW MOON, 19th 10h. 39m. Morn.
 FIRST QUARTER, 26th 7h. 55m. Morn.

APOGEE 11th 9h. After.
 PERIGEE 24th 1h. After.

Day of Mo. of Week.	SUN		DAYS'		MOON		HIGH TIDE.*	
	Rises. h m	Sets. h m	Length. h m	Decre. h m	Souths. h m	R. & S. h m	Morning. h m	Evening. h m
1 Mo.	6 57	4 41	9 44	5 3	10 7	4 8	9 41/	11 7s
2 Tu.	6 58	4 41	9 43	5 4	11 1	5 20	10 8/	.....
3 W.	6 59	4 41	9 42	5 5	11 57	6 32	0 8s	10 33/ *
4 Th.	7 0	4 41	9 41	5 6	MORN.	RISES.	0 59s	11 4/ *
5 Fri.	7 1	4 41	9 40	5 7	0 56	6 1	1 58s	11 35/ *
6 Sat.	7 2	4 41	9 39	5 8	1 54	7 1	2 35s	0 22/
7 S.	7 3	4 41	9 38	5 9	2 50	8 4	3 20s	1 15/
8 Mo.	7 4	4 41	9 37	5 10	3 42	9 10	4 3s	2 15/
9 Tu.	7 4	4 41	9 37	5 10	4 30	10 12	4 49s	3 24/
10 W.	7 5	4 42	9 37	5 10	5 15	11 12	5 38s	4 34/
11 Th.	7 6	4 42	9 36	5 11	5 56	MORN.	6 24s	5 49/
12 Fri.	7 7	4 42	9 35	5 12	6 36	0 9	7 3s	6 40/
13 Sat.	7 8	4 42	9 35	5 12	7 16	1 6	7 22/	7 36s
14 S.	7 8	4 43	9 35	5 12	7 55	2 3	7 46/	8 38s
15 Mo.	7 9	4 43	9 34	5 13	8 37	3 3	8 12/	9 42s
16 Tu.	7 9	4 44	9 34	5 13	9 22	4 5	8 42/	10 42s
17 W.	7 10	4 44	9 34	5 13	10 10	5 9	9 16/	11 36s
18 Th.	7 11	4 44	9 33	5 14	11 3	6 16	9 42/	.....
19 Fri.	7 11	4 45	9 33	5 14	0 0	SETS.	0 31s	10 31/ *
20 Sat.	7 12	4 45	9 33	5 14	1 0	5 36	1 20s	11 22/ *
21 S.	7 12	4 46	9 33	5 14	2 1	6 46	2 7s	0 19/
22 Mo.	7 13	4 46	9 33	INCR.	2 59	7 59	2 51s	1 17/
23 Tu.	7 13	4 46	9 33	0 0	3 55	9 13	3 34s	2 20/
24 W.	7 14	4 47	9 33	0 0	4 47	10 27	4 24s	3 34/
25 Th.	7 14	4 48	9 34	0 1	5 36	11 38	5 18s	4 54/
26 Fri.	7 14	4 48	9 34	0 1	6 24	MORN.	6 8s	6 12/
27 Sat.	7 15	4 49	9 34	0 1	7 12	0 49	6 45/	7 35s
28 S.	7 15	4 49	9 34	0 1	8 1	1 58	7 27/	8 53s
29 Mo.	7 15	4 50	9 35	0 2	8 52	3 8	8 7/	10 7s
30 Tu.	7 16	4 51	9 35	0 2	9 46	4 18	8 43/	11 9s
31 W.	7 16	4 51	9 35	0 2	10 43	5 27	9 20/	.....

* For explanatory remarks, see Note on page 28.

WEDNESDAY, JANUARY 1, 1873.

Seattle W. T.

*I have worked
in the Mill.*

THURSDAY, JANUARY 2, 1873.

Seattle,

I worked in
the Mill.
We received
letters from Auburn
Maine & Chicago.

FRIDAY, JANUARY 3, 1873.

Seattle

I worked in
the Mill.

SATURDAY, JANUARY 4, 1873.

Seattle.

I worked
in the Mill.
Making 5 days.

SUNDAY, JANUARY 5, 1873.

Seattle.

I wrote to
R. R. French
Chicago Ills
Also Bion A Bolster
Dell City Dakota
Territory.

MONDAY, JANUARY 6, 1873.

Seattle.

I have worked
in the Mill.

TUESDAY, JANUARY 7, 1873.

Seattle.

I have worked
in the Mill.

WEDNESDAY, JANUARY 8, 1873.

Seattle.

I worked in
the Mill today.

THURSDAY, JANUARY 9, 1873.

Seattle.

I worked in the
Mill today.

Mother recd
a letter from
Aunt S. E. Fuller
C. B. Brown.

FRIDAY, JANUARY 10, 1873.

Seattle.

I have worked
in the Mill.

SATURDAY, JANUARY 11, 1873.

Seattle.

I have worked
in the Mill
(to day).

SUNDAY, JANUARY 12, 1873

Pleasant & Warm.
Seattle

~~Mr. Pierce and myself walked over to Mr. G. C. O'Leary's at Graham on Lake Washington six miles from here. We found them both. I made a mistake in date, 19th instead.~~

MONDAY, JANUARY 13, 1873

Seattle
I worked in the Mill today.

TUESDAY, JANUARY 14, 1873.

I worked in
the Mill to
day.

WEDNESDAY, JANUARY 15, 1873.

I worked in
the Mill to
day.

THURSDAY, JANUARY 16, 1873.

Seattle

I worked in
the Mill today.

FRIDAY, JANUARY 17, 1873.

Seattle

I worked in the
Mill today.

I went to the
Good Templars
sociable in the
eve.

I paid two Bits.

I paid \$1.75 for
tapping Calf
Boots.

SATURDAY, JANUARY 18, 1873.

Seattle
I worked in
the Mill to
day.

P.

SUNDAY, JANUARY 19, 1873.

Pleasant. Fine
Seattle.
Mr. Pierce and I
walked over to Mt.
Cannon and back
to day six miles
from here (on Lake
Washington at
Graham's farm.)

MONDAY, JANUARY 20, 1873.

Seattle
I have worked
in the Mill.

Father went home
with Connor today;
they intend to look
at a claim near
mine, that Connor
has an idea of
buying & preempting.

TUESDAY, JANUARY 21, 1873.

Seattle
I have worked
in the Mill
to day.

WEDNESDAY, JANUARY 23, 1873.

Seattle
I have worked
in the Mill
to day.

Father came
home to day.

THURSDAY, JANUARY 23, 1873.

Seattle
I worked in
the Mill to
day.

FRIDAY, JANUARY 24, 1873.

Seattle
I have worked
in the Mill
to day.

SATURDAY, JANUARY 25, 1873.

Seattle
I have worked
in the Mill to
day.

Mother recd
a letter from
Fannie M. Hay
ford Canton
Maine.

SUNDAY, JANUARY 26, 1873.

Warm & Fuggy.
Seattle W.T.

I sent some
papers to
Log Dick.

MONDAY, JANUARY 27, 1873.

I have worked
in the Mill to
day.

Mr J. C. O'Connor
& wife were over
to our house
and took dinner
with us; Conner
has bought out
Lipsky and filed
on his claim.
(The one next mine.)
to day. I bought
a pair of boots.

TUESDAY, JANUARY 28, 1873.

I have worked
in the Mill to
day.

I have worked
in the Mill twenty
six (26) days
to day.

WEDNESDAY, JANUARY 29, 1873.

I have worked
in the Mill to
day.

THURSDAY, JANUARY 30, 1873

I have worked
in the Mill to
day.

FRIDAY, JANUARY 31, 1873

I worked in
the Mill half
a day. I loafed
in the P.M.

Mother recd
a letter from Aunt
H. N. Thompson
of Troy N.Y. dated
August Maine.
it contained a Mary
Browe picture.

SATURDAY, FEBRUARY 1, 1873

I have not
worked to day
in the Mill.

The Mill is saw-
ing Cedar and
do not run the
Scanting Machine.

I engaged the
use of Box 187
for over a half
year at year.
I paid \$3,00; \$200
for use of the top
and one for the
key. I received
ten dollars of the Mill
Co. ~~Wm~~ L. P. Smith
paid me one dollar
interest one note one month.

SUNDAY, FEBRUARY 2, 1873

I leave and
to hear.

MONDAY, FEBRUARY 3, 1873.

I have worked
in the Mill to-
day.

TUESDAY, FEBRUARY 4, 1873.

I worked in the
Mill half a day.

WEDNESDAY, FEBRUARY 5, 1873.

It has rained very
hard & steadily today.
I have not
worked to day.

This morning Father
and I took a boat
and rowed 2 1/2 miles
to see (18) eighteen
a cove of land owned
by Mr. Casner - situated
on an Island between
the forks of the Duwamish
or White river. The price
is one thousand dollars
(\$1000.00)

THURSDAY, FEBRUARY 6, 1873.

I have not
worked to day.

FRIDAY, FEBRUARY 7, 1873.

I have not worked
to day.

Mother received
a letter from Celia
A. Chase Canton Me.

I went to a Nectie
Sociable for the ben-
-efit of the Spirit-
-ualists society. I spent
one dollar.

SATURDAY, FEBRUARY 8, 1873.

I have not worked
to day.

SUNDAY, FEBRUARY 9, 1873.

I went to the
Spiritualists Meeting
this morning;

I went to D. S.
Smith's house to the
Spiritual circle.

MONDAY, FEBRUARY 10, 1873.

I have worked
in the Mill
to day; I hovel
ing sawdust.

TUESDAY, FEBRUARY 11, 1873.

I have worked
in the Mill;
shoveling sawdust.

WEDNESDAY, FEBRUARY 12, 1873.

I have worked
in the Mill;
shoveling sawdust.

THURSDAY, FEBRUARY 13, 1873.

I worked in
the Mill on
the Scantling Mach-
ine, we sawed
Boards which
made hard work.

FRIDAY, FEBRUARY 14, 1873.

I worked in
the Mill; on the
Scantling Machine
sawed Boards.

SATURDAY, FEBRUARY 15, 1873.

I worked in
the Mill on the
Scantling Machine
sawed boards.

We received three
letters from Chicago
I one from Dick.
Another one
from Mrs Ross
of Dixfield Maine.

SUNDAY, FEBRUARY 16, 1873.

I did not go
to church.

I went to a
Spiritualist circle
in the eve

MONDAY, FEBRUARY 17, 1873

I worked in the
Mill to day on the
Scantling Machine.

TUESDAY, FEBRUARY 18, 1873

I worked in the
Mill on the Scantling
Machine till 8. p. M.
when the shaft
of a wheel broke
which shut the
mill down for repairs

Father commenced
contracting a Mr Buckley
nights for Mr Denny
at \$2.50 per night
to night.

WEDNESDAY, FEBRUARY 19, 1873.

I worked in the
Mill to day.

THURSDAY, FEBRUARY 20, 1873.

I worked in the
Mill to day.

FRIDAY, FEBRUARY 21, 1873.

I worked in the Mill to day.

I ran the Machine in the afternoon,

SATURDAY, FEBRUARY 22, 1873.

I worked in the Mill to day.

Mother received a letter from Aunt Betsey Hayford Canton Maine.

SUNDAY, FEBRUARY 23, 1873.

Pleasant.

I went to the Pavillion
in the P. M.; to a
lecture -; I

MONDAY, FEBRUARY 24, 1873.

I have worked
in the Mill
to day.

TUESDAY, FEBRUARY 25, 1873.

I have worked
in the Mill to
day.

WEDNESDAY, FEBRUARY 26, 1873.

I have worked
in the Mill to day.

THURSDAY, FEBRUARY 27, 1873.

I have worked
in the Mill to day.

FRIDAY, FEBRUARY 28, 1873.

I worked in the
Mill one half day.
I was sick in the
P. M.

I have worked
in the Mill $75\frac{1}{2}$
days to day.

SATURDAY, MARCH 1, 1873.

I worked in the
Mill to day

SUNDAY, MARCH 2, 1873.

Very rainy.

I commenced a
letter to Coy Dick.

MONDAY, MARCH 3, 1873.

Rainy.

I have not worked
in the Mill to day.
I have a sore finger.
I bought some overalls of
Alfred for \$2.50.

TUESDAY, MARCH 4, 1873.

Rainy.

I have not worked
in the Mill to day.
My finger is better.

I finished my
letter to Dick
to day.

WEDNESDAY, MARCH 5, 1873

I have finished my
letter. I have
worked in the Mill
to day

THURSDAY, MARCH 6, 1873

I have worked in
the Mill to day

FRIDAY, MARCH 7, 1873.

I have worked in
the Mill to day.

I joined the
Good Templars
this eve.

SATURDAY, MARCH 8, 1873.

I have worked
in the Mill to
day.

I received
twenty (\$20) dollars
in coin from the Mill
Co.

My Mother received
a letter from
Aunt H. A. Anthony
Clay Centre Kansas

SUNDAY, MARCH 9, 1873.

Pleasant.

This is the first
pleasant day I have
had this month.

MONDAY, MARCH 10, 1873.

I have worked
in the Mill to
day.

TUESDAY, MARCH 11, 1873.

I have worked
in the Mill to
day.

WEDNESDAY, MARCH 12, 1873.

I have worked
in the Mill to
day.

THURSDAY, MARCH 13, 1873.

I have worked
in the Mill to-
day.

FRIDAY, MARCH 14, 1873.

I have worked
in the Mill to-
day. I went to
the Good Samaritan
Lodge this evening.

SATURDAY, MARCH 15, 1873.

I have worked
in the mill to
day. I paid
a poll tax
two dollars to day.
I rec'd \$1.50 of
the Mill Co.

I have worked
in the Mill 5 1/2
days to day.

SUNDAY, MARCH 16, 1873.

I have staid at
home and read the
papers &c:— instead of
going to church.

Mother wrote a
letter to Mrs Rose.

MONDAY, MARCH 17, 1873.

TUESDAY, MARCH 18, 1873.

I was out on the
walk this
day.
It occurred to
me from Aunt
Fannie's house
I was out

WEDNESDAY, MARCH 19, 1873.

I have not been
in the Mill to
day.

THURSDAY, MARCH 20, 1873.

I have not been
in the Mill to
day.

I have not been
in the Mill to
day.

SUNDAY, MARCH 23, 1873.

I went to church
this morning.

MONDAY, MARCH 24, 1873.

I have worked
for the Mill Co
and have
received a letter
from Grandmother
Teller and a
Mason.

TUESDAY, MARCH 25, 1873.

I have worked
in the Mill all the
day.

WEDNESDAY, MARCH 26, 1873.

I worked for
the Mill Co
half a day.

I drove the
Saw dust cart.

THURSDAY, MARCH 27, 1873.

I worked for
the Mill Co
to day.
I drove the saw
dust cart.

FRIDAY, MARCH 28, 1873.

I worked for
the Mill Co
to day, in the
Scantling Machine

SATURDAY, MARCH 29, 1873.

Left for the
the shell (the
day in the
I was out until 2
was in the water 16
days for the shell
Co.

I received 3 of
the shells.

SUNDAY, MARCH 30, 1873.

Windy & Rainy.
of the
the
the
the

MONDAY, MARCH 31, 1873.

I have worked for
the Mill Co. to-
day. Half the day
on the trimmer.

TUESDAY, APRIL 1, 1873.

I have worked
for the Mill Co.
to day. Have
run the trimmer.

WEDNESDAY, APRIL 2, 1873.

I have worked
for the Mill
Co to day.
Have seen the
trimmer.

THURSDAY, APRIL 3, 1873.

I have worked
for the Mill Co.
on the trimmer
to day. I quit
working in the
Mill to day; have
not settled up yet.
2 months and 20 days.

FRIDAY, APRIL 4, 1873.

I have not worked
in the mill today.

SATURDAY, APRIL 5, 1873.

I worked in the mill
today, and then spent
the evening at home.

I received some letters
today in all.

I have decided to
go on to Feltus road
and work there.

I brought you

SUNDAY, APRIL 6, 1873.

Planned

MONDAY, APRIL 7, 1873.

I have not been
at work. I received
one dollar note
from L. P. Smith
& Sons.

Father got
some numbers of
Mill; it was changed
to number 829.

I bought a pair of
pants and a vest at
Ston & Burnett's
Store.

TUESDAY, APRIL 8, 1873.

Busy part of the day.
Father and myself are
building a store room
up at our house; we
intend to put ~~some~~ part
of our goods in it.

WEDNESDAY, APRIL 9, 1873.

Pleasant
Father and I
worked on our
shed to day.

THURSDAY, APRIL 10, 1873.

Father and I
finished the work
to day.

FRIDAY, APRIL 11, 1873.

I settled with
Mill Co. to day.
received \$19.35.

Tom Popham came
over this morn.

I paid
a man 0.50 to haul
our stuff to the coal
depot. I paid the
coal man 2.00 to carry
it and we, Popham
and myself to
the Portage.

SATURDAY, APRIL 12, 1873.

and I got
back from the lake
at 5 P.M. We intend
to move over to the
new mill building.

SUNDAY, APRIL 13, 1873.

P. P. P.

I and Willie Shubald
& Father took a walk
back of town. I & Willie
walked out to his house
on Lake Union.

MONDAY, APRIL 14, 1873.

Fine weather.

We have
getting ready to
move. I got the
cass out saw gummed
50¢.

TUESDAY, APRIL 15, 1873.

Fine weather.

One getting ready to
move. I have
I have sent
one Cotton Mattress
to D. S. Lawrence's. One
Feather bed, best of them
Parlor table sent a
sent to S. P. Smith.

Paid W. to fix up
these shoes.

Paid 2.00
for a bunch of leather.

Should
I should have made
20 pieces of leather by hand
be drawn 20¢. Maybe to
divided equally.

FRIDAY, APRIL 18, 1873.

Father went to town
and got some things
paid the butcher
then got hauling in
some more things from
the shop. I picked
out with Father
and brought a load
in in a canoe.
W. L. Andrews went
over to the Gilman with
me and helped me
bring over a
in our boat. I hel-
ped him start the

SATURDAY, APRIL 19, 1873.

I have been
planting peas
today, it is hard
work to put in
gardens staff, where
you have to use
a mattock to
plough the ground
with.

Will Andrews
went home this
morning, and left his
dog with me.

Father did some work

SUNDAY, APRIL 20, 1873.

James Popham called
at this afternoon, we
enjoyed it.

MONDAY, APRIL 21, 1873.

I have been using
the Mattock to
day. I find it
hard work, especially
on one back.

TUESDAY, APRIL 22, 1873.

I have been working
in the garden etc.

WEDNESDAY, APRIL 23, 1873.

I have been
working in the garden
as usual.

THURSDAY, APRIL 24, 1873.

From Popkorn's
and I went to
town to Aug.
Mother received
two from
Canton Plains.

FRIDAY, APRIL 25, 1873.

I have been
back to my back
as usual using the
Mallory.

SATURDAY, APRIL 26, 1873.

Spent the day at
H.C.

SUNDAY, APRIL 27, 1873.

I have passed
the day pleasantly
& called on the people

MONDAY, APRIL 28, 1873.

I set out Cabbages
and
and

TUESDAY, APRIL 29, 1873.

I planted Sweet
corn.

We set out
a great brush pile
a fire to day.

We have got 50 Bear
traps and 200 ft. pl
poles set out. also
some planks & beams.

WEDNESDAY, APRIL 30, 1873.

I have been shopping
etc.

THURSDAY, MAY 1, 1873.

I went to town
and back with
John Popham to day.
Father ^{got} a check and a
Gold Draft from
Grandfather French
of Auburn Maine.

I purchased several
articles to day.

FRIDAY, MAY 3, 1873.

SATURDAY, MAY 3, 1873.

I have been
at the
I rather get some
boards at the place
to stay for 6 weeks
to make a bedroom.

SUNDAY, MAY 4, 1873.

I have been
writing reading &c

I wrote to my
father & mother. Mother
wrote to Aunt & Uncle I
wrote to Uncle & Aunt
I wrote to my
mother by a letter
to Dick & Sarah.

MONDAY, MAY 5, 1873.

Father went to
and back with the
Popham to day.
I worked
at home.

TUESDAY, MAY 6, 1873.

I worked clearing

WEDNESDAY, MAY 7, 1873.

I have been
clearing

THURSDAY, MAY 8, 1873.

Subscribed to a
clearing road.

FRIDAY, MAY 9, 1873.

Subscribed to a
clearing road.

SATURDAY, MAY 10, 1873.

I have been a
chasing the

Tom (Paphos)
brought a letter
from (Cornelia) (London)
to Mother.

corn out of the
ground to day

SUNDAY, MAY 11, 1873.

George F. Fuller
Cash Box
Mother wrote
Account Sarah.

MONDAY, MAY 12, 1873.

I have been
clearing
We
partially planting
Marrow & Cucumbers.

TUESDAY, MAY 13, 1873.

I have been
brushing

WEDNESDAY, MAY 14, 1873.

I have been
brushing up my

THURSDAY, MAY 15, 1873.

I have been
brushing up

at the finish of
the bedroom
at present today

FRIDAY, MAY 16, 1873.

Went out to look
with some papers
to day. I bought
Kurt's Button 2175.
Hired some men
over on the river.
I heard as well
that the house
was let out to Scott's
to be built in 1st
of June.

SATURDAY, MAY 17, 1873.

I have been
clearing. Father and
myself carried water
up to my cabin this
afternoon and did
some of the work.
Neal Leonard went
with me.

SUNDAY, MAY 18, 1873.

Father and I carried
Uncle Smith over to
Mr. Gilman's in our canoe.
Father bought 8 Jack's
eggs @ 50c.

MONDAY, MAY 19, 1873.

Have been clearing
at day's work.

TUESDAY, MAY 20, 1873.

I have been
cleaning the

WEDNESDAY, MAY 21, 1873.

We have been
cleaning up

THURSDAY, MAY 22, 1873.

We have been
clearing as usual

FRIDAY, MAY 23, 1873.

Have been clear
again. I bored
and Mother fired
the first log to go out
was as pretty sight on
the river.

SATURDAY, MAY 24, 1873.

Tom Adams and I went
went to town to day.
Father found the
Money ~~and~~,
Mother rec'd a letter
from Aunt H. & J.
of Long Hill.
Mr. Leamer was over
to day with his
sail boat to visit his
claim in the ~~mine~~ back
in the afternoon.

SUNDAY, MAY 25, 1873.

Rainy

Prospected in the creek
and found the color
very fine wash gold.

MONDAY, MAY 26, 1873.

Have worked today.
Raining.

TUESDAY, MAY 27, 1873.

Have worked today.
Raining.

WEDNESDAY, MAY 28, 1873.

Have worked to day.
Rainy.

THURSDAY, MAY 29, 1873.

Have worked to day.
Rainy.

FRIDAY, MAY 30, 1873.

Have worked to day.
Raining.

SATURDAY, MAY 31, 1873.

Have worked to day.
Raining.

Tom & Jim Popham
want to hire ^{in gold} \$600
six hundred dollars
of Father; - they intend
to prove up on their
places (of mine and their
Mother's); at rate \$400
@ \$1.25 per acre.

SUNDAY, JUNE 1, 1873.

It has been a
to day.

MONDAY, JUNE 2, 1873.

Have worked to
day.

TUESDAY, JUNE 3, 1873.

Have worked all day.

WEDNESDAY, JUNE 4, 1873.

I worked alone all day.

Father went to Wrentham - Tom Popham - stayed all night.

THURSDAY, JUNE 5, 1873.

Have woods to
day.

Father came
home to day.

The Coal Co
have stopped
running the Mine.

FRIDAY, JUNE 6, 1873.

We came
piling fir logs
to day; for a burn.

well

SATURDAY, JUNE 7, 1873.

We have picked
to day.

SUNDAY, JUNE 8, 1873.

At the company

MONDAY, JUNE 9, 1873.

Have been at work.

TUESDAY, JUNE 10, 1873.

Have been at work.

WEDNESDAY, JUNE 11, 1873.

Have been at work.

THURSDAY, JUNE 12, 1873.

Have been at work.

FRIDAY, JUNE 13, 1873.

Have been at work.

I went to town
and back with
Tom Popham.

Received a
letter from Dick
French.

SATURDAY, JUNE 14, 1873.

SUNDAY, JUNE 15, 1873.

Clear.

Jim Poplar
called.

MONDAY, JUNE 16, 1873.

Rainy.

Have been boring
logs etc.

TUESDAY, JUNE 17, 1873.

Rainy.
Have done
various things.

WEDNESDAY, JUNE 18, 1873.

Rainy.
Have done
some work.

THURSDAY, JUNE 19, 1873.

Have worked
to day.

event to
Poplarville - arrived
back again
- wind.

FRIDAY, JUNE 20, 1873.

(Mud Lake)

I went to Poplarville
at 3 1/2 A.M. in one
boat - went to town
with him - brought
some of the
K.K. Mary Smith
& Mrs. ... are
coming over Monday

I worked to day.

SATURDAY, JUNE 21, 1873.

I went to town
& back (as usual)
to day instead of Friday.

I rather need a
letter from you with
much date June 5th '73.

Heard all sorts of
news about the R.R.
one that they were
going to build within
5 miles of here and
stop 3 or 4 years -
another that they were
going to build on the
side of the Lake fur-
ther North.

SUNDAY, JUNE 22, 1873.

Cloudy.

MONDAY, JUNE 23, 1873.

Father and myself
brought Mary and
and Miss Lane
over to our farm
to visit us.

TUESDAY, JUNE 24, 1873.

I have worked

WEDNESDAY, JUNE 25, 1873.

Father and I
took the carriage
to Mrs Terry's farm
on Wannan Bay
this morning.

we visited Poplar
P. M.

THURSDAY, JUNE 26, 1873.

Father and myself
visited Mary and
Miss Parsons to
Union Bay and
walked to the
with them - from
whence we returned
home. We enjoyed
the

FRIDAY, JUNE 27, 1873.

Have worked.

Capt. Windsor and
stayed
here all night.

SATURDAY, JUNE 28, 1873.

I went to town
and back to day
with Tom Lopham.

Mother rec'd
a letter from
Betsy &
Cyril in Maine.

I rec'd \$1.00
dollars for

School tax.

Leitch has spent
the A. R. (\$75,000) in
Gold and (2000)
acres of land for
the Garrison.

SUNDAY, JUNE 29, 1873.

Field - windy rain
at S. W.

MONDAY, JUNE 30, 1873.

Have worked