SUNDAY, JUNE 27, 1875.

MONDAY, JUNE 28, 1875.

TC
J52d

Henry D. French
Seattle
W. T.

BANCROFT'S

PACIFIC COAST

DIARY

FOR

1875,

CONTAINING

Useful Memoranda,

AND

TABLES FOR REFERENCE.

Published Annually.

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CALENDAR.
1875.

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

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

FASTS AND FEASTS FOR 1875.

Septuagesima Sunday	Jan. 24.
Shrove Sunday	Feb. 7.
Ash Wednesday	" 10.
First Sunday in Lent	" 14.
Palm Sunday	March 21.
Good Friday	" 26.
Easter Sunday	" 28.
Low Sunday	April 4.
Rogation Sunday	May 2
Ascension Day	" 6.
Whit Sunday	" 16.
Trinity Sunday	" 23.
First Sunday in Advent	Nov. 28.
Christmas Day	Dec. 25.

FESTIVALS AND FASTS OF THE CHURCH.

Dates *italicized* apply only to 1875.

EPIPHANY is twelve days after Christmas, January 6th.

SHROVE SUNDAY, the first Sunday before Shrove Tuesday. —*February 7th.*

SHROVE TUESDAY is the first Tuesday after the first change of the moon in February. — *February 9th.*

ASH WEDNESDAY, the day after Shrove Tuesday. — *February 10th.*

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

The FIRST SUNDAY IN LENT is *February 14th.*

ST. PATRICK. — March 17th.

MIDLENT is the fourth Sunday from Shrove Tuesday. — *March 7th.*

CARLE SUNDAY, the fifth Sunday from Shrove Tuesday. — *March 14th.*

PALM SUNDAY, the sixth Sunday from Shrove Tuesday. — *March 21st.*

PASSION WEEK, the week after Palm Sunday. — *March 21st to 27th.*

GOOD FRIDAY, the Friday in Passion Week. — *March 26th.*

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. — *March 28th.*

LOW SUNDAY is the first after Easter. — *April 4th.*

ROGATION SUNDAY is the fifth after Easter. — *May 2d.*

ASCENSION DAY, or HOLY THURSDAY, is the Thursday in Rogation Week, the fortieth day from Easter. — *May 6th.*

PENTECOST, or WHITSUNTIDE, is the forty-ninth day, or seventh Sunday after Easter. — *May 16th.*

TRINITY SUNDAY is the next after Pentecost. — *May 23d.*

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 28th.*

ST. ANDREW. — November 30th.

ST. THOMAS. — December 21st.

CHRISTMAS. — December 25th.

ST. STEPHEN. — December 26th.

ST. JOHN, EVANGELIST. — December 27th.

HEBREW CALENDAR.

5635-5636.

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

COMMENCEMENT OF THE YEAR { 5635, SEPTEMBER 12-13, 1874. / 5636, SEPT. 30—OCT. 1, 1875.

The year 5635 is a leap year.

NEW MOONS.	FASTS AND FEASTS.	DATES.
5635:	*Shevat*	Thur., Jan. 7, 1875.
"	*Adar Rishon*	Fri. & Sat., Feb. 5–6, "
"	*Adar* 14–15, Purim Koton	Fri. & Sat. Feb. 19–20, "
"	*Adar Shinee*	Sun. & Mon., Mar. 7–8, "
"	*Adar* 13	Fast of Esther...Thur., Mar. 18, "
"	*Adar* 14–15	Purim..Sun. & Mon., Mar. 21–22, "
"	*Nissan*	Tues., April 6, "
"	*Nissan* 15–22, Pesach	Tues. to Tues. Apr. 20 to 27, "
"	*Iyar*	Wed. & Thur., May 5–6, "
"	*Iyar* 18	Lag Laomer.....Sun., May 23, "
"	*Sivan*	Fri., June 4, "
"	*Sivan* 6–7	Shovuous, Wed. & Thur. June 9–10, "
"	*Tammooz*	Sat. & Sun., July 3–4, "
"	*Tammooz* 17	Fast.....Tues., July 20, "
"	*Av*	Mon., Aug. 2, "
"	*Av* 9	Fast of Tishabeav....Tues., Aug. 10, "
"	*Ellool*	Tues & Wed., Aug. 31, Sept 1, "
5636:	*Tishree* 1–2	New Year, Th. & Fr. Sept. 30, Oct. 1, "
"	*Tishree*	Fast of Gedaliah.....Sun., Oct. 3, "
"	*Tishree* 10	Fast of Gom-Kippur..Sat., Oct. 9, "
"	*Tishree* 15–16	Succoth, Th. & Fri., Oct. 14–15, "
"	*Tishree* 21	Hoshaanah Rabbah, Wed., Oct. 20, "
"	*Tishree* 22	Sheminee Atzareth, Thur., Oct. 21, "
"	*Tishree* 23	Simchat Torah.....Fri., Oct. 22, "
"	*Heshvan*	Fri. & Sat., Oct. 29–30, "
"	*Kislive*	Sun. & Mon., Nov. 28–29, "
"	*Kislive* 25	Hanucah (first day), Thur., Dec. 23, "
"	*Tivise*	Tues. & Wed., Dec. 28–29, "

CHRONOLOGICAL CYCLES, 1875.

Dominical Letter	C.	Solar Cycle	8
Golden No.	14	Roman Indiction	3
Epact	23	Julian Period	6,588

CHINESE FESTIVALS, 1875-6.

1st Moon, 1st day, Feb. 5th.—New Year, Principal Holy-day, Festival kept up for a week.

1st Moon, 6th day, Feb. 10th.—Birthday of the goddess Shing Moo. Celebrating worship at the temple on Clay Street, southwest corner of the Plaza.

1st Moon, 14th day, Feb. 18th.—Rain and Water Festival.

2d Moon, 2d day, March 8th.—Birthday of the god of Land.

2d Moon, 14th day, March 20th.—Middle of Spring.

2d Moon, 29th day, April 4th.—Tsing Ming, worship at the Tombs.

3d Moon, 3d day, April 7th.—Birthday of Pak Tai, god of the extreme North. Ceremonies of three days and three nights duration, commencing on the evening of April 3d, at the temple on Dupont street (No. 923), between Washington and Jackson streets.

3d Moon, 23d day, April 27th.—Birthday of the goddess Queen of Heaven. Ceremonies continue three days and three nights, at the temple on Mason Street, near Geary, commencing on the evening of April 23d. The Emperor Tung Chi's Birthday occurs at the same time.

4th Moon, 2d day, May 5th.—Beginning of Summer.

4th Moon, 17th day, May 20th.—Birthday of the goddess Golden Flowers.

5th Moon, 3d day, June 5th.—Planting and Sowing.

5th Moon, 5th day, June 7th.—May Festivals, general feasting. Regatta.

5th Moon, 13th day, June 15th.—Birthday of Kivan Tai, god of war. Religious worship at the temple on Clay Street, south-west corner of the Plaza, and at temple on Pine street, above Kearney.

5th Moon, 19th day, June 21st.—Summer Solstice.

6th Moon, 5th day, July 6th.—Little Heat.

6th Moon, 21st day, July 22d.—Great Heat.

7th Moon, 8th day, Aug. 7th.—Beginning of Autumn.

7th Moon, 14th day, Aug. 13th.—General feasting. Religious ceremonies in temple, No. 923 Dupont Street, three days and three nights.

7th Moon, 23d day, Aug. 22d.—Decrease of Heat.

8th Moon, 7th day, Sept. 5th —Birthday of the god How Wong. Religious ceremonies of three days and three nights duration, commencing on the evening of Sept. 1st, at the temple in Brooklyn Place.

8th Moon, 9th day, Sept. 7th.—White dew.

8th Moon, 15th day, Sept. 13th.—Worship of the Moon. General Feasting.

8th Moon, 24th day, Sept. 22d.—Autumnal Equinox.

8th Moon, 27th day, Sept. 25th.—Birthday of Confucius.

9th Moon, 9th day, Oct. 6th.—Worship at the tombs.

9th Moon, 11th day, Oct. 8th.—Cold Dew.

9th Moon, 26th day, Oct. 23d.—Fall of Frost.

10th Moon, 11th day, Nov. 7th.—Beginning of Winter.

10th Moon, 26th day, Nov. 22d.—Little snow.

11th Moon, 10th day, Dec. 6th.—Great snow.

11th Moon, 25th day, Dec. 21st.—Winter Solstice. General Feasting.

1876.

12th Moon, 10th day, Jan. 5th.—Little cold.

12th Moon, 24th day, Jan. 19th.—Great cold.

DIVISIONS OF TIME.

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

A CALENDAR MONTH varies in length from 28 to 31 days. A MEAN LUNAR MONTH is 29 days, 12 hours, 44 minutes, 3 seconds, and 5.24 thirds.

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

LOCATIONS

OF

Public Offices and Buildings

IN

SAN FRANCISCO.

ACADEMY OF NATURAL SCIENCES, S. W. cor. California and Dupont streets.

ARMY HEADQUARTERS, N. W. cor. Stockton and O'Farrell streets.

ASSAY OFFICES:

California Ore Crushing and Sampling Co., 413 and 415 Mission street.
Louis Falkenau, State Assayer, 421 Montgomery street.
Henry G. Hanks, 531 California street.
Hentsch & Berton, cor. Clay and Leidesdorff streets.
W. A. Langley, 334 Montgomery street.
Leopold Kuh, 611 Commercial 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.
W. L. Strong & Co., 10 Stevenson street.
B. B. Thayer, 1 New Montgomery street.
Whelply & Storey, Main street, bet. Howard and Folsom.

ASYLUMS:

Protestant Orphan, Laguna and Haight streets, near Market street R. R.
Roman Catholic Orphan, South San Francisco.
Magdalen, Potrero Avenue, near Twenty-first street.

AUSTRALASIAN AND AMERICAN STEAMSHIP CO., 204 and 206 California st.

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

BANKS AND BANKERS:

A. Borel & Co., cor. Montgomery and Clay sts.
Anglo-California Bank, 412 California street.
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.
Bank of San Francisco, 215 Sansome street.
B. Davidson & Co., N. W. cor. Montgomery and Commercial streets.
Belloc Freres, 524 Montgomery street.
Donohoe, Kelly & Co., S. E. cor. Montgomery and Sacramento streets.
First National Bank (Gold), N. W. cor. Montgomery and Sacramento sts.

BANKS AND BANKERS: *Continued.*
Hickox & Spear, 500 Montgomery street.
London and San Francisco Bank, N. W. cor. California and Leidesdorff sts.
Merchant's Exchange Bank, 415 California street.
NATIONAL GOLD AND TRUST Co., S. E. cor. California and Leidesdorff sts.
Pacific Bank, N. W. cor. Sansome and Pine sts.
Swiss American Bank, cor. Clay and Leidesdorff sts.
Sather & Co., N.E. c. Montgomery and Commercial sts.
Tallant & Co., N. E. cor. California and Battery sts.
Wells, Fargo & Co., N.W. c. Montgomery and California streets.

BIBLE DEPOSITORY, 757 Market street.
BOARD OF BROKERS, San Francisco Stock and Exchange, 411 California st.
BOARD OF EDUCATION, 22 City Hall, 2nd floor, op. the Plaza.
BOARD OF SUPERVISORS, Room 3 City Hall, op. the Plaza.
COLORADO STEAM NAVIGATION Co., 610 Front street.
CHAMBER OF COMMERCE, New Merchants' Exchange, cor. California and Leidesdorff streets.

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

CHURCHES: *Continued.*
Hebrew, Beth Israel, Sutter street, near Stockton.
Hebrew, Shaarey Tzedek, Stockton street, between Pacific and Broadway.
Lutheran, First, German, Mission street, bet. Second and Third.
Lutheran, St. Paul's, German, Mission street, 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, Bush street, Bush street, near Divisidero.
Methodist, Minna St., Minna st., bet. Fourth and Fifth.
Methodist, Kentucky St., on the Potrero, n. L. Bridge.
Methodist, Mission Street, Mission st., bet. Eighteenth and Nineteenth.
Methodist, Seaman's Bethel, Mission street, bet. First and Second.
Methodist, Bernal Wesleyan, Prospect Avenue, Bernal Heights.
Methodist, South San Francisco, on Fifteenth avenue, S. S. F.
Methodist, German, Folsom st., bet. Fourth and Fifth.
Methodist, German, north side Broadway, bet. Stockton and Powell sts.
Methodist, African (colored), west side Powell, between Jackson and Pacific sts.
Methodist, Zion Wesleyan, (colored), Stockton st., near Sacramento.
Presbyterian, First, Stockton street, near Clay.
Presbyterian, Calvary, cor. Geary and Powell sts.
Presbyterian, Howard, S. side Mission st., near Third.
Presbyterian, Larkin Street, c. Larkin and Pacific sts.
Presbyterian, Central, Tyler st., near Taylor.
Presbyterian, Howard st., Howard st., bet. Twenty-first and 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.

CHURCHES: *Continued.*
Roman Catholic, St. Mary's Cathedral, N. E. corner California and Dupont streets.
Roman Catholic, St. Francis, Vallejo street, b. Dupont and Stockton sts.
Roman Catholic, St. Patrick's, Mission st., bet. Third and Fourth.
Roman Catholic, St. Rose's, Brannan st., near Fourth.
Roman Catholic, St. Boniface, (German,) Tyler st., bet. Jones and Leavenworth.
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, between Folsom and Howard streets.
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.
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, 214 Stockton street.
COMMISSIONER OF IMMIGRATION, N. E. cor. Jackson and Front streets.
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.
Pacific Transfer Co., S. W. cor. Bush and Sansome sts.
Wells, Fargo & Co., N. W. cor. California and Montgomery sts.

GAS COMPANY:
San Francisco Gaslight, 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 street.
German, 782 Washington street.

HOSPITALS AND BENEVOLENT SOCIETIES: *Continued.*
Italian, 430 Jackson street.
Marine, Rincon Point, cor. Mission and Fifteenth sts.
San Francisco Female, 917 Clay street, cor. Prospect pl.
S. F. Lying-in Hospital and Foundling Asylum, 269 Jessie street.
St. Luke's, cor. Esmeralda and Prospect Avenues.
St. Mary's Sisters of Mercy, cor. Bryant and First sts.

INDUSTRIAL SCHOOL, Office, City Hall, No. 9, third floor.
INTERNAL REVENUE: Office, 321 Battery street.
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., 4 and 5 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.
MINT, U. S. Branch, N. W. cor. Fifth and Mission streets.
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), 524 California st.
California Farmer, (weekly,) 320 Clay street.
California Horticulturist, 622 Clay street.
California Teacher, (monthly), 637 Kearney street.
Catholic Guardian, 407 Sansome street.
Commercial Herald, 409 Washington Street.
Courrier de San Francisco (French), 536 Clay 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.
Evening Post (daily), 605 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 Sansome 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.

NEWSPAPER AND PERIODICAL OFFICES: *Continued.*
- Masonic Mirror, (weekly,) 608 Market street.
- Monitor, (Catholic, weekly.) 622 Clay street.
- Morning Call, (daily,) 523 Montgomery street.
- New Age, (I. O. O. F., weekly,) 421 Montgomery street.
- Occident (Presbyterian, weekly), 22 Geary street.
- Overland Monthly, 409 Washington street.
- Pacific, (Congregationalist, weekly,) 536 Clay street.
- Pacific Appeal, (colored, weekly,) S. W. cor. Sansome and Commercial streets.
- Pacific Churchman (Episcopal, weekly), 414 Market st
- Pacific Medical and Surgical Journal (monthly), 409 Washington st.
- Pacific Methodist (weekly), 409 Washington street.
- Pacific Odd Fellow, 417 Clay street.
- Pacific Rural Press (weekly), 338 Montgomery st.
- Real Estate Circular (monthly), 310 Montgomery st.
- Resources of California, N. E. cor. Sacramento and Leidesdorff sts.
- Register (daily), 1250 Howard street.
- San Francisco Chronicle, 504 Montgomery street.
- San Francisco Journalist and Humorist (weekly, German), 523 Kearney st.
- San Francisco News Letter, 607 to 615 Merchant street.
- Scientific Press (weekly), 338 Montgomery street.
- Spirit of the Times (weekly), cor. Sansome and Jackson streets.
- Stock Report (daily), 321 California street.
- Transcript of Records (daily), 317 California street.
- Western Lancet (monthly), 313 Bush street.

ODD FELLOWS HALL, S.W. c. Montgomery and California sts.
OLYMPIC CLUB, cor. New Montgomery and Howard streets.
OREGON STEAMSHIP LINE, Office 217 Sansome street.
PACIFIC MAIL STEAMSHIP COMPANY, cor. Sacramento and Leidesdorff sts.
PACIFIC HALL, 428 Bush street.
PLATT'S HALL, 216 Montgomery street.
PIONEER HALL, 808 Montgomery street, cor. Gold.
POLICE OFFICE, City Hall, opposite the Plaza.
POST OFFICE, Custom House, cor. Battery and Washington streets.
RAILROAD COMPANIES:
- California Pacific, cor. Front and Vallejo streets; Office cor. Fourth and Townsend streets.
- Central Pacific, cor. Davis and Pacific; Office cor. Fourth and Townsend streets.
- Southern Pacific Railroad Co., cor. Fourth and Townsend sts.
- San Francisco and North Pacific Railroad Co., 426 Montgomery st.

RECORDER'S OFFICE, City Hall.
REGISTRAR IN BANKRUPTCY, 10 Court Block, 636 Clay street.
SAVINGS BANKS:
- Farmers' and Mechanics' Bank of Savings, 225 Sansome street.
- French Savings and Loan Mutual, 411 Bush st.
- Germania Savings and Loan, 526 California street.

SAVINGS BANKS: *Continued.*
- 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 streets.
- 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 streets.
- Clay Street Hill, S. W. cor. Clay and Leavenworth sts.
- Front Street, Mission, and Ocean, 1336 Bush street.
- Market Street, cor. Fourth and Townsend streets.
- 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, and 417 Washington street.
- Atlantic and Pacific, 507 California street. Branches Lick House, Grand Hotel, Cosmopolitan Hotel, and foot of Pacific 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.

THE LENGTH OF DAYS.

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

SAN FRANCISCO

FIRE ALARM STATIONS.

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

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

147. Howard and Twent'th.
148. Mission and Sixteenth.
149. Folsom and Eight'nth.
152. Brannan and Eighth.
153. Harrison and Seventh.
154. Bryant and Sixth.
156. Fourth and Berry.
157. Folsom, east of Fourth.
158. Folsom, east of Fifth.
159. Engine House, No. 6, Sixth, near Folsom.
162. Pacific and Franklin.
163. Sacramento and Franklin.
164. Clay and Polk.
172. McAllister and Buchanan.
173. Ellis and Buchanan.
174. Turk and Fillmore.
213. Bush and Buchanan.
214. Bush and Steiner.
215 Washington & Webster
216. Sacramento & Fillmore.
231. Howard and Twenty-fourth.
234. Harrison and Twenty-fourth.

HACK FARES IN SAN FRANCISCO.

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

RATES OF FARE.

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

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

WEIGHTS AND MEASURES.

WEIGHT OF UNITED STATES COINS.

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

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

TROY WEIGHT.

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

AVOIRDUPOIS WEIGHT.

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

APOTHECARIES' WEIGHT.

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

LIQUID CAPACITY.

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

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

A cubic foot contains 6.232 gallons.

DRY CAPACITY.

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

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

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.	Acres.	Sq. Chains.	Sq. Rods.	Sq. Yards.	Sq. Feet.
1	= 640	= 6,400	= 102,400	= 3,097,600	= 27,878,400
..	1	= 10	= 160	= 4,840	= 43.560
..	..	1	= 16	= 484	= 4,356
..	..	..	1	= 30.25	= 272.25
..	..	..	..	1	= 9

A lot 220 by 198 feet = 1 Acre.
A 50-vara lot, San Francisco measurement, is 137½ feet square. A 100-vara lot is 275 feet square. The San Francisco Vara is 2 feet 9 inches. The true Vara is 2.781 feet. A San Francisco 100-vara lot = 1.7367 Acres.

DRAWING PAPER.

Cap	13 × 16 in.	Columbier	23 × 33¾ in.
Demy	15½ × 19½ "	Atlas	26 × 33 "
Medium	18 × 22 "	Theorem	28 × 34 "
Royal	19 × 24 "	Double Elephant	26 × 40 "
Super-royal	19 × 27 "	Antiquarian	31 × 52 "
Imperial	21¾ × 29 "	Emperor	40 × 60 "
Elephant	22½ × 27½ "	Uncle Sam	48 × 120 "

SPECIFIC GRAVITY OF SUBSTANCES.

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

Platinum, wire	21.04	Aluminium	2.50
Gold, British standard	17.40	Glass, flint	2.8 to 3.0
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	0.93
Zinc	6.2 to 7.2	Alcohol, pure	0.79
Antimony	6.7	Cork	0.24

THE METRIC SYSTEM.

WEIGHTS.

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

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. NAMES.	NO. OF LITERS.	CUBIC MEASURE.	Equivalents in Denominations in use. 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 qrts.
Deciliter	= .1	= .1 c. decimeter	= 6.1022 cubic ins.	= 0.845 gill.
Centiliter	= .01	= 10 c. centimet's	= 0.6102 cubic in.	= 0.338 fl'd oz.
Milliliter	= .001	= 1 c. centimeter	= 0.061 cubic in.	= 0.27 fluid dr.

VALUE OF FOREIGN

GOLD AND SILVER COINS.

			d	*c*	*m*
AUSTRIA	Gold,	Quadruple Ducat	9	13	2
	"	Ducat	2	28	3
	"	Sovereign (for Lombardy)	6	75	4
	Sliver,	Rix Dollar	1	00	2
	"	Florin	0	47	6
	"	Twenty Kreutzers	0	16	0
	"	Lira (for Lombardy)	0	16	0
BELGIUM	Gold,	Twenty-Franc piece	3	83	2
	"	Twenty-five Franc piece	4	72	0
	Silver,	Five Francs	0	96	0
	"	Two-and-a-half Francs	0	46	5
	"	Two Francs	0	35	6
	"	Franc	0	18	3
BOLIVIA	Gold,	Doubloon	15	58	0
	Silver,	Dollar	0	96	3
	"	Hf. Dollar (debased, 1830)	0	37	1
	"	Qr. Dollar, (debased 1830)	0	18	7
BRAZIL	Gold,	Piece of 6400 Reis	8	72	0
	Silver,	Twelve Hundred Reis	0	99	2
	"	Eight Hundred Reis	0	66	0
	"	Four Hundred Reis	0	33	0
BRITAIN	Gold,	Sovereign	4	86	5
	Silver,	Half Crown	0	54	7
	"	Shilling	0	21	9
	"	Sixpence	0	10	9
	"	Fourpence	0	7	2
CENT'L AMERICA.	Gold,	Doubloon	14	96	0
	"	Escudo	1	84	4
	Silver,	Dollar	0	98	1
CHILI	Gold,	Doubloon (before 1835)	15	57	0
	"	Doubloon (since 1835)	15	66	0
	Silver,	Dollar	0	96	2
	"	Quarter Dollar	0	22	4
	"	Eighth Dollar, or Real	0	11	2
COSTA RICA	Gold,	Half Doubloon (1850)	7	62	0
	Silver,	New Real	0	5	8
DENMARK	Gold,	Double Fred. or 10-Thaler	7	90	0
	Silver,	Rigsbank Daler	0	52	3
	"	Specie Daler	1	4	7
	"	Thirty-two Skillings	0	17	0
ECUADOR	Gold,	Half Doubloon	7	60	0
	Silver,	Quarter Dollar	0	18	7

			d	*c*	*m*
EGYPT	Gold,	Hundred Piastres	4	97	4
	Silver,	Twenty Piastres	0	96	0
FRANCE	Gold,	Twenty Francs	3	84	7
	Silver,	Five Francs	0	96	0
	"	Franc	0	18	5
GERMAN EMPIRE.	Gold,	Mark (new)	0	23	8
	Silver,	Mark (new)	0	19	3
GREECE	Gold,	Twenty Drachms	3	44	2
	Silver,	Drachm	0	16	5
GUIANA, BRITISH.	Silver,	Guilder	0	26	2
HAYTI	Silver,	Dollar (100 Centimes)	1	0	0
HINDOSTAN	Gold,	Mohur (E. I. Co.)	7	10	0
	Silver,	Rupee	0	45	7
ITALY	Gold,	Twenty Lire	3	84	7
	Silver,	Five Lire	0	96	0
	"	Lira	0	17	8
JAPAN	Gold,	Twenty Yen, new	19	94	4
	"	Chobang, obsolete	3	57	6
	Silver,	Yen	1	4	0
	"	Fifty Sen	0	42	8
MEXICO	Gold,	Doubloon, average	15	59	3
	Silver,	Dollar, average	1	4	0
NETHERLANDS	Gold,	Ducat	2	26	5
	"	Ten Guilders	3	99	7
	Silver,	Three Guilders	1	21	5
	"	Guilder	0	40	5
	"	Twenty-five Cents	0	9	5
	"	Two-and-a-half Guilders	1	1	2
NEW GRANADA	Gold,	Doubloon, 21 carat stand.	15	61	0
	"	" includ'g the silver,	15	66	0
	"	" nine-tenths stand.	15	31	0
	"	" includ'g the silver,	15	36	0
	Silver,	Dollar, usual weight	0	96	0
	"	Dollar, or Ten Reals, 1851,	0	93	0
NORWAY	Silver,	Specie Daler	1	8	4
PERSIA	Gold,	Tomann	2	23	0
	Silver,	Sahib Koran	0	21	5
PERU	Gold,	Doubloon, Lima, to 1833	15	55	0
	"	Doubloon, Cuzco, to 1833	15	62	0
	"	Doubloon, Cuzco, 1837	15	53	0
	Silver,	Dollar, Lima mint	1	0	
	"	Dollar, Cuzco	1	0	8
	"	Hf. Dollar, Cuzco, debased,	0	36	0
	"	Hf. Dollar, Arequipa, "	0	36	0
	"	Hf. Dollar, Pasco	0	49	5
POLAND	Silver,	Zloty	0	11	2

VALUE OF FOREIGN COINS.

			d	c	m
PORTUGAL	Gold,	Half Joe (full weight)	8	65	0
	"	Crown	5	80	7
	Silver,	Cruzado	0	55	2
	"	Crown of 1000 Reis	0	97	2
	"	Half Crown	0	48	6
RUSSIA	Gold,	Five Roubles	3	97	6
	Silver,	Rouble	0	77	8
	"	Ten Zloty	1	13	5
	"	Thirty Copecks	0	22	0
SIAM	Silver,	Tical	0	58	5
SPAIN	Gold,	Pistole (Quar. Doubl'n)	3	90	5
	Silver,	Pistareen (4 Reals Vellon)	0	17	8
SWEDEN	Silver,	Species Daler	1	4	2
	"	Half Daler	0	52	0
TURKEY	Gold,	Hundred Piastres	4	37	0
	"	Twenty Piastres (new)	0	85	2
	Silver,	Twenty Piastres (new)	0	85	2

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 25 cts. or part thereof, 1 cent more.

FRICTION MATCHES, or lucifer matches, or other articles made in part of wood, and used for like purposes, each package of 100 matches, or part thereof 0 1

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

CIGAR LIGHTS, made in part of wood, wax, glass, paper, or other materials, in packages containing twenty-five lights or less, each package 0 1

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

PLAYING CARDS, for and upon every pack, not exceeding fifty-two cards in number, irrespective of price or value 0 5

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

METEOROLOGICAL TABLE.

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

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

List of Sundays in 1875.

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

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
Astoria, Oregon	11	54	12
Calcutta, India	1	35	56
Canton, China	3	43	00
Honolulu, S. I.	9	39	8
Melbourne, Aust.	5	48	00
Pekin, China	3	56	00
Sydney, Australia	6	14	00
Singapore, E. I.	3	8	00
Shanghai, China	4	12	40
Tobolsk, Siberia	12	43	00
Yeddo, Japan	5	30	00
Yreka, Cal.	11	59	30
P. M.			
Acapulco, Mex.	1	26	28
Archangel, Russia	10	50	00
Aspinwall, Isthm's.	2	50	40
Berlin, Prus.	9	3	35
Boston, Mass.	3	25	48
Cape Good Hope	9	32	50
Charleston, S. C.	2	50	40
Chicago, Ill.	2	19	44
Cincinnati, O.	2	32	16
Constantinople	10	9	44
Detroit, Mich.	2	38	12
Eastport, Maine	3	42	00
Fort Yuma, Cal.	12	31	18
Frankfort, Ger.	8	43	24
Galveston, Tex.	1	50	32
Geneva, Switz.	8	34	42
Gibraltar, Spain	7	48	44

P. M.	H	M	S
Halifax, N. S.	3	55	36
Havana, Cuba	2	41	00
Jerusalem, Pal.	10	31	24
Lima, Peru	3	1	36
London, Eng.	8	9	31
Los Angelos, Cal.	12	16	30
Louisville, Ky.	2	27	4
Mexico, Mex.	1	33	44
Mecca, Ara.	10	50	00
Montreal, Canada	3	15	44
New Orleans, La.	2	9	40
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

TIDES AT SAN FRANCISCO.

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

TEMPERATURE OF VARIOUS LOCALITIES.

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.

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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 Nabonasser	February 26, B. C. 747.
Metonic Cycle	July 15, B. C. 432.
Julian Year	January 1, B. C. 45.
Augustan Era	February 14, B. C. 27.
Indiction of Constantinople	September 1, B. C. 3.
Christian Era	January 1, A. D. 1; A. M. 4004.
Destruction of Jerusalem	September 21, A. D. 69.
Era of Diocletian	September 17, A. D. 284.
Era of Hegira	July 16, A. D. 622.
Persian Era	June 16, A. D. 632.
Conquest of England	October 14, A. D. 1066.
Declaration American Independence	July 4, A. D. 1776.

THE SOLAR SYSTEM.

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

THE PLANETS.

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

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

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

VELOCITY OF THE EARTH'S MOTION.—The Earth moves forward in its orbit, 1,640.000 miles per day, 68,000 miles per hour, 1,100 miles per minute, and nearly 19 miles every second.

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

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

Rates of Postage.

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

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

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

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

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

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

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

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

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

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

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

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

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

ALL PACKAGES of Mail Matter not charged with letter postage must be so arranged that the same can be *conveniently* examined by Postmasters; if not, letter postage will be charged.

NO PACKAGE will be forwarded by mail which weighs over 4 pounds.

FOREIGN POSTAGE.

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

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

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

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

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

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

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

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

ECLIPSES IN THE YEAR 1875.

In the year 1875 there will be two Eclipses, both of the Sun.

I. A Total Eclipse of the Sun, April 6th, invisible at San Francisco. Visible to southern Africa, southern and eastern Asia, and Indian Ocean.

II. An Annular Eclipse of the Sun, September 29th, invisible at San Francisco. Partly visible to the eastern portion of North America, and wholly to Africa and the Atlantic Ocean.

ALMANAC FOR 1875.

January.

MOON'S PHASES.

New Moon, 7d. 8h. 58m. M.
First Quarter, 14d. 1h. 12m. A.
Full Moon, 21d. 9h. 31m. M.
Last Quarter, 29d. 4h. 24m. M.

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

February.

MOON'S PHASES.

New Moon, 5d. 11h. 45m. A.
First Quarter, 12d. 9h. 10m. A.
Full Moon, 19d. 11h. 51m. A.
Last Quarter, 28d. 1h. 41m. M.

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

HIGH TIDES::JANUARY.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	7 18*l*	7 57*s*	17	7 36*l*	10 2*s*
2	7 31*l*	9 4*s*	18	8 26*l*	11 20*s*
3	8 4*l*	10 8*s*	19	9 9*l*	
4	8 42*l*	11 5*s*	20	0 9*s*	9 56*l**
5	9 11*l*		21	0 54*s*	10 46*l**
6	0 3*s*	10 3*l**	22	1 34*s*	11 44*l**
7	0 47*s*	10 49*l**	23	2 18*s*	0 35*l*
8	1 33*s*	11 45*l**	24	2 49*s*	1 26*l*
9	2 12*s*	0 33*l*	25	3 16*s*	2 19*l*
10	2 47*s*	1 33*l*	26	3 43*s*	3 19*l*
11	3 20*s*	2 30*l*	27	4 15*l*	4 16*s*
12	3 58*s*	3 34*l*	28	4 26*l*	5 24*s*
13	4 43*s*	4 47*l*	29	4 58*l*	6 34*s*
14	5 22*l*	6 12*s*	30	5 34*l*	7 43*s*
15	6 7*l*	7 33*s*	31	6 17*l*	8 52*s*
16	6 49*l*	8 49*s*		*F	or expla

HIGH TIDES::FEBRUARY.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	6 58*l*	10 4*s*	16	8 4*l*	11 2*s*
2	8 4*l*	11 0*s*	17	9 1*l*	11 49*s*
3	9 2*l*	11 48*s*	18	9 58*l*	
4	10 0*l*		19	0 27*s*	10 40*l**
5	0 27*s*	10 53*l**	20	0 54*s*	11 42*l**
6	1 3*s*	11 49*l**	21	1 32*s*	0 31*l*
7	1 36*s*	0 46*l*	22	1 55*s*	1 19*l*
8	2 4*s*	1 40*l*	23	2 15*l*	1 59*s*
9	2 30*s*	2 34*l*	24	2 9*l*	2 53*s*
10	2 53*l*	3 43*s*	25	2 27*l*	3 56*s*
11	3 30*l*	4 56*s*	26	2 56*l*	5 5*s*
12	4 17*l*	6 17*s*	27	3 39*l*	6 16*s*
13	5 7*l*	7 33*s*	28	4 22*l*	7 31*s*
14	6 3*l*	8 57*s*			
15	7 0*l*	10 0*s*			
na	tory re	marks,	se	eNote o	npage19

March.

MOON'S PHASES.

New Moon, 7d. 0h. 10m. A.
First Quarter, 14d. 4h. 55m. M.
Full Moon, 21d. 3h. 42m. A
Last Quarter, 29d. 8h. 15m. A

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

April.

MOON'S PHASES.

New Moon, 5d. 10h. 26m. A.
First Quarter, 12d. 1h. 23m. A.
Full Moon, 20d. 8h. 20m. M.
Last Quarter, 28d. 11h. 7m. M.

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

HIGH TIDES :: MARCH.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	5 31*l*	8 36*s*	17	8 3*l*	10 37*s*
2	6 38*l*	9 39*s*	18	9 0*l*	11 14*s*
3	7 51*l*	10 32*s*	19	9 52*l*	11 42*s*
4	8 58*l*	11 16*s*	20	10 39*l*	
5	10 2*l*	11 47*s*	21	0 3*s*	11 25*l**
6	10 57*l*		22	0 21*l*	0 4*s*
7	0 16*s*	11 52*l**	23	0 46*l*	0 52*s*
8	0 45*s*	0 49*l*	24	1 2*l*	1 40*s*
9	1 3*l*	1 51*s*	25	1 14*l*	2 33*s*
10	1 27*l*	2 53*s*	26	1 33*l*	3 31*s*
11	1 52*l*	3 52*s*	27	2 5*l*	4 30*s*
12	2 28*l*	4 54*s*	28	2 42*l*	5 53*s*
13	3 25*l*	6 19*s*	29	3 53*l*	7 2*s*
14	4 28*l*	7 28*s*	30	5 4*l*	8 6*s*
15	5 39*l*	8 37*s*	31	6 18*l*	9 7*s*
16	6 53*l*	9 41*s*			

HIGH TIDES :: APRIL.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	7 33*l*	10 0*s*	17	9 36*l*	11 0*s*
2	8 46*l*	10 40*s*	18	10 23*l*	11 19*s*
3	9 50*l*	11 18*s*	19	11 8*l*	11 36*s*
4	10 49*l*	11 37*s*	20	0 0*s*†	11 34*l*
5	11 41*s*	11 55*l*	21	0 53*s*†	11 53*l*
6		0 45*s*	22		1 45*s*
7	0 22*l*	1 48*s*	23	0 19*l*	2 35*s*
8	0 45*l*	2 45*s*	24	0 41*l*	3 31*s*
9	1 16*l*	3 42*s*	25	1 31*l*	4 24*s*
10	2 0*l*	4 54*s*	26	2 26*l*	5 28*s*
11	3 2*l*	6 2*s*	27	3 40*l*	6 31*s*
12	4 18*l*	7 16*s*	28	4 57*l*	7 28*s*
13	5 32*l*	8 20*s*	29	6 14*l*	8 18*s*
14	6 44*l*	9 18*s*	30	7 28*l*	9 5*s*
15	7 48*l*	10 2*s*			
16	8 45*l*	10 35*s*			

May.

MOON'S PHASES.

New Moon, 5d. 6h. 54m. M.
First Quarter, 11d. 11h. 27m. A.
Full Moon, 20d. 0h. 40m. M.
Last Quarter, 27d. 10h. 20m. A.

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

June.

MOON'S PHASES.

New Moon, 3d. 2h. 11m. A.
First Quarter, 10d. 11h. 45m. M.
Full Moon, 18d. 3h. 46m. A.
Last Quarter, 26d. 6h. 29m. M.

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

HIGH TIDES :: MAY.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	8 41*l*	9 41*s*	17	10 10*s*	10 20*l*
2	9 48*s*	10 8*l*	18	11 0*s*	10 34*l*
3	10 58*s*	10 34*l*	19	11 51*s*	10 51*l*
4	0 0*s*†	10 56*l*	20	0 44*s*†	11 18*l*
5	0 56*s*†	11 24*l*	21	1 49*s*†	11 55*l*
6		1 50*s*	22		2 33*s*
7	0 0*l*	2 54*s*	23	0 35*l*	3 14*s*
8	0 37*l*	3 37*s*	24	1 26*l*	3 53*s*
9	1 34*l*	4 32*s*	25	2 24*l*	4 50*s*
10	2 50*l*	5 38*s*	26	3 36*l*	5 45*s*
11	4 9*l*	6 43*s*	27	4 55*l*	6 33*s*
12	5 22*l*	7 36*s*	28	6 9*l*	7 17*s*
13	6 30*l*	8 20*s*	29	7 21*s*	7 52*l*
14	7 34*l*	8 58*s*	30	8 42*s*	8 31*l*
15	8 34*l*	9 30*s*	31	9 57*s*	9 3*l*
16	9 28*l*	9 56*s*			

HIGH TIDES :: JUNE.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	11 3*s*	9 35*l*	17	11 45*s*	10 19*l*
2	0 1*s*†	10 7*l*	18	0 34*s*†	10 40*l*
3	1 1*s*†	10 43*l*	19	1 35*s*†	11 35*l*
4	1 43*s*†	11 33*l*	20		2 17*s*
5		2 31*s*	21	0 29*l*	2 54*s*
6	0 28*l*	3 16*s*	22	1 20*l*	3 30*s*
7	1 28*l*	4 2*s*	23	2 16*l*	4 12*s*
8	2 38*l*	4 52*s*	24	3 22*l*	4 56*s*
9	3 55*l*	5 45*s*	25	4 32*l*	5 42*s*
10	5 5*l*	6 29*s*	26	5 46*s*	6 18*l*
11	6 11*l*	7 7*s*	27	7 8*s*	6 57*l*
12	7 13*l*	7 41*s*	28	8 33*s*	7 39*l*
13	7 52*s*	8 34*l*	29	9 39*s*	8 22*l*
14	8 54*s*	9 4*l*	30	10 48*s*	9 5*l*
15	9 52*s*	9 26*l*			
16	10 49*s*	9 49*l*			

July.

MOON'S PHASES.

New Moon, 2d. 9h. 15m. A.
First Quarter, 10d. 2h. 30m. M.
Full Moon, 18d. 5h. 17m. M.
Last Quarter, 25d. 0h. 29m. A.

August.

MOON'S PHASES.

New Moon, 1d. 5h. 18m. M.
First Quarter, 8d. 7h. 20m. A.
Full Moon, 16d. 5h. 24m. A.
Last Quarter, 23d. 5h. 29m. A.
New Moon, 30d. 3h. 31m. A.

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

HIGH TIDES::JULY.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	11 59*a*	9 45*l*	17	0 36*a*†	10 38*l*
2	0 45*a*†	10 32*l*	18	1 18*a*†	11 30*l*
3	1 30*a*†	11 26*l*	19		1 48*a*
4		2 14*a*	20	0 34*l*	2 18*a*
5	0 21*l*	2 55*a*	21	1 28*l*	2 45*a*
6	1 14*l*	3 38*a*	22	2 21*l*	3 14*a*
7	2 12*l*	4 2*a*	23	3 18*a*	3 44*l*
8	3 19*l*	4 43*a*	24	4 34*a*	4 25*l*
9	4 27*l*	5 23*a*	25	5 51*a*	5 9*l*
10	5 32*l*	6 0*a*	26	7 9*a*	5 58*l*
11	6 29*a*	6 39*l*	27	8 19*a*	6 46*l*
12	7 35*a*	7 9*l*	28	9 40*a*	7 42*l*
13	8 46*a*	7 46*l*	29	10 42*a*	8 41*l*
14	9 54*a*	8 28*l*	30	11 39*a*	9 37*l*
15	10 53*a*	8 59*l*	31	0 25*a*†	10 29*l*
16	11 52*a*	9 52*l*			

HIGH TIDES::AUGUST.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	1 3*a*†	11 24*l*	17		1 4*a*
2		1 38*a*	18	0 40*l*	1 29*a*
3	0 17*l*	2 7*a*	19	1 33*a*	1 44*l*
4	1 8*l*	2 32*a*	20	2 34*a*	2 8*l*
5	1 59*l*	2 55*a*	21	3 34*a*	2 35*l*
6	2 54*l*	3 22*a*	22	4 35*a*	3 19*l*
7	3 52*a*	4 2*l*	23	5 45*a*	4 15*l*
8	5 1*a*	4 36*l*	24	7 9*a*	5 12*l*
9	6 13*a*	5 13*l*	25	8 12*a*	6 24*l*
10	7 27*a*	6 1*l*	26	9 22*a*	7 38*l*
11	8 37*a*	6 43*l*	27	10 20*a*	8 43*l*
12	9 50*a*	7 50*l*	28	11 17*a*	9 41*l*
13	10 48*a*	8 50*l*	29	11 55*a*	10 32*l*
14	11 35*a*	9 47*l*	30	0 22*a*†	11 24*l*
15	0 13*a*†	10 39*l*	31		0 48*a*
16	0 45*a*†	11 31*l*			

September.

MOON'S PHASES.

First Quarter, 7d. 1h. 28m. A.
Full Moon, 15d. 4h. 32m. M.
Last Quarter, 21d. 10h. 51m. A.
New Moon, 29d. 4h. 45m. M.

October.

MOON'S PHASES.

First Quarter, 7d. 7h. 55m. M.
Full Moon, 14d. 3h. 5m. A.
Last Quarter, 21d. 6h. 3m. M.
New Moon, 28d. 9h. 3m. A.

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

HIGH TIDES::SEPTEMBER.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	0 14*l*	1 10*a*	17	1 31*a*	1 3*l*
2	1 2*l*	1 30*a*	18	2 20*a*	1 26*l*
3	1 43*a*	1 53*l*	19	3 26*a*	1 56*l*
4	2 35*a*	2 9*l*	20	4 22*a*	2 48*l*
5	3 36*a*	2 36*l*	21	5 42*a*	3 51*l*
6	4 48*a*	3 22*l*	22	6 51*a*	5 6*l*
7	6 0*a*	4 6*l*	23	8 4*a*	6 22*l*
8	7 17*a*	5 17*l*	24	9 10*a*	7 36*l*
9	8 22*a*	6 24*l*	25	10 10*a*	8 38*l*
10	9 24*a*	7 36*l*	26	10 52*a*	9 33*l*
11	10 18*a*	8 44*l*	27	11 22*a*	10 22*l*
12	11 0*a*	9 46*l*	28	11 46*a*	11 6*l*
13	11 33*a*	10 43*l*	29	0 2*a*†	11 56*l*
14	11 59*a*	11 35*l*	30		0 24*l*
15		0 23*a*			
16	0 55*a*	0 41*l*			

HIGH TIDES::OCTOBER.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	0 36*a*	0 46*l*	17	2 31*a*	0 38*l*
2	1 26*a*	1 0*l*	18	3 32*a*	1 17*l*
3	2 20*a*	1 20*l*	19	4 17*a*	2 24*l*
4	3 17*a*	1 51*l*	20	5 22*a*	3 47*l*
5	4 21*a*	2 27*l*	21	6 35*a*	5 8*l*
6	5 38*a*	3 38*l*	22	7 42*a*	6 22*l*
7	6 48*a*	4 50*l*	23	8 36*a*	7 32*l*
8	7 51*a*	6 3*l*	24	9 22*a*	8 35*l*
9	8 48*a*	7 14*l*	25	9 59*a*	9 28*l*
10	9 39*a*	8 25*l*	26	10 24*a*	10 19*l*
11	10 19*a*	9 29*l*	27	10 47*l*	10 59*a*
12	10 52*a*	10 28*l*	28	11 9*l*	11 46*a*
13	11 17*a*	11 21*l*	29	11 29*l*	
14	11 33*l*		30	0 40*a*	11 40*l**
15	0 59*a*	11 39*l**	31	1 33*a*	0 7*l*
16	1 39*a*	0 5*l*			

ALMANAC FOR 1875.

November.

MOON'S PHASES.

First Quarter, 6d. 1h. 42m. M.
Full Moon, 13d. 1h. 20m. M.
Last Quarter, 19d. 4h. 27m. A.
New Moon, 27d. 3h. 34m. A.

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

December.

MOON'S PHASES.

First Quarter, 5d. 5h. 46m. A.
Full Moon, 12d. 11h. 35m. M.
Last Quarter, 19d. 6h. 46m. M.
New Moon, 27d. 10h. 54m. M.

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

HIGH TIDES :: NOVEMBER.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	2 24a	0 30l	17	3 58a	2 32l
2	3 19a	1 19l	18	4 57a	3 46l
3	4 11a	2 13l	19	6 0a	5 4l
4	5 10a	3 22l	20	6 54a	6 13l
5	6 10a	4 36l	21	7 37a	7 21l
6	7 6a	5 52l	22	8 17a	8 24l
7	7 58a	7 3l	23	8 52l	9 14a
8	8 37a	8 13l	24	9 24l	10 8a
9	9 16a	9 20l	25	9 42l	11 4a
10	9 42l	10 32a	26	10 4l	11 55a
11	10 10l	11 36a	27	10 29l	
12	10 34l		28	0 44a	10 50l*
13	1 0a	10 59l*	29	1 38a	11 38l*
14	1 53a	11 23l*	30	2 23a	0 25l
15	2 23a	0 12l			
16	3 10a	1 10l			

HIGH TIDES :: DECEMBER.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	3 2a	1 14l	17	4 23a	3 23l
2	3 43a	2 9l	18	5 13a	4 30l
3	4 28a	3 14l	19	6 0a	5 44l
4	5 17a	4 27l	20	6 40a	6 48l
5	6 4a	5 40l	21	7 16l	7 45a
6	6 46a	6 50l	22	7 55l	8 42a
7	7 25a	7 57l	23	8 29l	9 53a
8	8 12l	9 2a	24	8 58l	10 54a
9	8 50l	10 16a	25	9 28l	11 47a
10	9 23l	11 23a	26	9 53l	
11	9 56l		27	0 38a	10 38l*
12	0 50a	10 32l*	28	1 24a	11 26l*
13	1 32a	11 11l*	29	2 5a	0 17l
14	2 9a	0 6l	30	2 40a	1 6l
15	2 54a	1 4l	31	3 13a	1 69l
16	3 38a	2 9l			

FRIDAY, JANUARY 1, 1875.

SATURDAY, JANUARY 2, 1875.

SUNDAY, JANUARY 3, 1875.

MONDAY, JANUARY 4, 1875.

TUESDAY, JANUARY 5, 1875.

WEDNESDAY, JANUARY 6, 1875.

THURSDAY, JANUARY 7, 1875.

First snow of the season.

Father & I went up to Olympia on the "Lizzie Stacy" arrived at 4, P. M.

Filed our homestead applications in the eve after office hours.

Stopped at Mary's.

FRIDAY, JANUARY 8, 1875.

We returned home
to day. arrived
at Lake Washington
a 7 P. M

SATURDAY, JANUARY 9, 1875.

SUNDAY, JANUARY 10, 1875.

MONDAY, JANUARY 11, 1875.

THURSDAY, JANUARY 14, 1875.

We moved out of the Cabin into our new house to day. The weather is very cold.

F The house has not got a partition in it.

7 hrs 2 below Zero.

FRIDAY, JANUARY 15, 1875.

SATURDAY, JANUARY 16, 1875.

SUNDAY, JANUARY 17, 1875.

WEDNESDAY, JANUARY 20, 1875.

THURSDAY, JANUARY 21, 1875.

SUNDAY, JANUARY 24, 1875.

MONDAY, JANUARY 25, 1875.

SUNDAY, JANUARY 24, 1875.

MONDAY, JANUARY 25, 1875.

Kirkland Heritage Society

TUESDAY, JANUARY 26, 1875.

WEDNESDAY, JANUARY 27, 1875.

Kirkland Heritage Society

SATURDAY, JANUARY 30, 1875.

SUNDAY, JANUARY 31, 1875.

Have had
continued cold
weather the past
three weeks; — one
of the coldest
Perhaps that has
been known
for several years.

MONDAY, FEBRUARY 1, 1875.

TUESDAY, FEBRUARY 2, 1875.

Kirkland Heritage Society

WEDNESDAY, FEBRUARY 3, 1875.

THURSDAY, FEBRUARY 4, 1875.

Kirkland Heritage Society

FRIDAY, FEBRUARY 5, 1875.

SATURDAY, FEBRUARY 6, 1875.

TUESDAY, FEBRUARY 9, 1875.

WEDNESDAY, FEBRUARY 10, 1875.

Kirkland Heritage Society

SATURDAY, FEBRUARY 13, 1875.

Mr Procter came over with his dogs & went with him to Knights Point; we killed a fine Deer.

SUNDAY, FEBRUARY 14, 1875.

WEDNESDAY, FEBRUARY 17, 1875.

THURSDAY, FEBRUARY 18, 1875.

Kirkland Heritage Society

FRIDAY, FEBRUARY 19, 1875.

SATURDAY, FEBRUARY 20, 1875.

I went to ~~town~~
town & brought
Mother home

FRIDAY, FEBRUARY 19, 1875.

SATURDAY, FEBRUARY 20, 1875.

I went to ~~town~~
town & brought
Mother home

Kirkland Heritage Society

SUNDAY, FEBRUARY 21, 1875.

MONDAY, FEBRUARY 22, 1875.

TUESDAY, FEBRUARY 23, 1875.

WEDNESDAY, FEBRUARY 24, 1875.

Kirkland Heritage Society

THURSDAY, FEBRUARY 25, 1875.

FRIDAY, FEBRUARY 26, 1875.

Kirkland Heritage Society

SATURDAY, FEBRUARY 27, 1875.

I was over to town. to day

Carried a book to Mrs Hoskins, made a short call.

SUNDAY, FEBRUARY 28, 1875.

Pleasant.

A raging storm a few seems. This has been the pleasantest February I ever saw. The whole ~~weather~~ has been very mild.

MONDAY, MARCH 1, 1875.

TUESDAY, MARCH 2, 1875.

Kirkland Heritage Society

WEDNESDAY, MARCH 3, 1875.

THURSDAY, MARCH 4, 1875.

Kirkland Heritage Society

FRIDAY, MARCH 5, 1875.

SATURDAY, MARCH 6, 1875.

SUNDAY, MARCH 7, 1875.

MONDAY, MARCH 8, 1875.

TUESDAY, MARCH 9, 1875.

WEDNESDAY, MARCH 10, 1875.

THURSDAY, MARCH 11, 1875.

FRIDAY, MARCH 12, 1875.

Kirkland Heritage Society

SATURDAY, MARCH 13, 1875.

SUNDAY, MARCH 14, 1875.

MONDAY, MARCH 15, 1875.

TUESDAY, MARCH 16, 1875.

WEDNESDAY, MARCH 17, 1875.

THURSDAY, MARCH 18, 1875.

Kirkland Heritage Society

FRIDAY, MARCH 19, 1875.

SATURDAY, MARCH 20, 1875.

TUESDAY, MARCH 23, 1875.

WEDNESDAY, MARCH 24, 1875.

Kirkland Heritage Society

THURSDAY, MARCH 25, 1875.

FRIDAY, MARCH 26, 1875.

SATURDAY, MARCH 27, 1875.

SUNDAY, MARCH 28, 1875.

Have had
furious winds
the week past.
It is snowing
some this morn-
the loggers have
been trying to
boom their logs
that escaped
Wed-.
Answered Dick
Frenchie letter.

MONDAY, MARCH 29, 1875.

TUESDAY, MARCH 30, 1875.

FRIDAY, APRIL 2, 1875.

SATURDAY, APRIL 3, 1875

SUNDAY, APRIL 4, 1875.

MONDAY, APRIL 5, 1875.

TUESDAY, APRIL 6, 1875.

WEDNESDAY, APRIL 7, 1875.

Kirkland Heritage Society

THURSDAY, APRIL 8, 1875.

FRIDAY, APRIL 9, 1875.

MONDAY, APRIL 12, 1875.

TUESDAY, APRIL 13, 1875.

WEDNESDAY, APRIL 14, 1875.

THURSDAY, APRIL 15, 1875.

Kirkland Heritage Society

FRIDAY, APRIL 16, 1875.

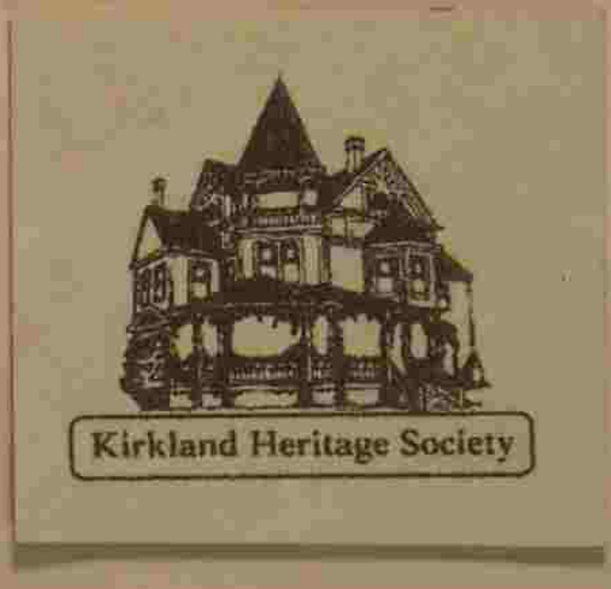
Peaches in
Florida —

SATURDAY, APRIL 17, 1875.

The weather has changed from hot to cold to day. The past week has been very warm Potatoes & Peas are up an inch, our fan Peaches bloomed the 16th.

TUESDAY, APRIL 20, 1875.

WEDNESDAY, APRIL 21, 1875.



THURSDAY, APRIL 22, 1875.

FRIDAY, APRIL 23, 1875.

SATURDAY, APRIL 24, 1875.

I went to town
saw Capt True
asked him for work
on his new boat
got a favorable
answer.
Father renewed
his subscription
to the Semi Weekly
Tribune to day.

SUNDAY, APRIL 25, 1875.

MONDAY, APRIL 26, 1875.

TUESDAY, APRIL 27, 1875.

Kirkland Heritage Society

WEDNESDAY, APRIL 28, 1875.

THURSDAY, APRIL 29, 1875.

Kirkland Heritage Society

WEDNESDAY, APRIL 28, 1875.

THURSDAY, APRIL 29, 1875.

I went to town.
carried Mrs Penfield
book's back.
Have been a cold
raw day.

FRIDAY, APRIL 30, 1875.

Kirkland Heritage Society

SATURDAY, MAY 1, 1875.

I went to town.
carried Mrs Penfield
books back.
Has been a cold
raw day.

TUESDAY, MAY 4, 1875.

WEDNESDAY, MAY 5, 1875.

Kirkland Heritage Society

THURSDAY, MAY 6, 1875.

FRIDAY, MAY 7, 1875.

SATURDAY, MAY 8, 1875.

SUNDAY, MAY 9, 1875.

MONDAY, MAY 10, 1875.

TUESDAY, MAY 11, 1875.

WEDNESDAY, MAY 12, 1875.

THURSDAY, MAY 13, 1875.

FRIDAY, MAY 14, 1875.

SATURDAY, MAY 15, 1875.

Kirkland Heritage Society

SUNDAY, MAY 16, 1875.

Kirkland Heritage Society

MONDAY, MAY 17, 1875.

Mr Barnett brought two emigrants to look at land here.

TUESDAY, MAY 18, 1875.

Boy House is completed, our Homestead claim slept in it to night

WEDNESDAY, MAY 19, 1875.

I stand in my House to night.

SATURDAY, MAY 22, 1875.

I went to town
called at Capt Penfield's

SUNDAY, MAY 23, 1875.

South Wind.

The S prairie
boys called this
eve and got some
Tomato plants

MONDAY, MAY 24, 1875.

TUESDAY, MAY 25, 1875.

Kirkland Heritage Society

WEDNESDAY, MAY 26, 1875.

THURSDAY, MAY 27, 1875.

Dr Bayley
came over to see
Mrs Popham; he
stopped with
me First. No
1 Semi Weekly
Tribune came to day
dated May 11th
1875

FRIDAY, MAY 28, 1875.

Mother went to town to the Dr.

SATURDAY, MAY 29, 1875.

Father and myself went to town.
Mother had her teeth pulled - we came back on the train. Obourn & Wife came here about 8 P.M.

TUESDAY, JUNE 1, 1875.

WEDNESDAY, JUNE 2, 1875.

Kirkland Heritage Society

THURSDAY, JUNE 3, 1875.

FRIDAY, JUNE 4, 1875.

SATURDAY, JUNE 5, 1875.

SUNDAY, JUNE 6, 1875.

Kirkland Heritage Society

MONDAY, JUNE 7, 1875.

TUESDAY, JUNE 8, 1875.

WEDNESDAY, JUNE 9, 1875.

THURSDAY, JUNE 10, 1875.

Kirkland Heritage Society

FRIDAY, JUNE 11, 1875.

SATURDAY, JUNE 12, 1875.

SUNDAY, JUNE 13, 1875.

MONDAY, JUNE 14, 1875.

TUESDAY, JUNE 15, 1875.

WEDNESDAY, JUNE 16, 1875.

THURSDAY, JUNE 17, 1875.

FRIDAY, JUNE 18, 1875.

Kirkland Heritage Society

SATURDAY, JUNE 19, 1875.

SUNDAY, JUNE 20, 1875.

MONDAY, JUNE 21, 1875.

TUESDAY, JUNE 22, 1875.

Kirkland Heritage Society

WEDNESDAY, JUNE 23, 1875.

THURSDAY, JUNE 24, 1875.

FRIDAY, JUNE 25, 1875.

SATURDAY, JUNE 26, 1875.

DIARY

TUESDAY, JUNE 29, 1875.

WEDNESDAY, JUNE 30, 1875.

Kirkland Heritage Society