Henry D. French
Seattle
W. J.
## CONTENTS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counting-House Calendar</td>
<td>4</td>
</tr>
<tr>
<td>Fasts and Feasts</td>
<td>4</td>
</tr>
<tr>
<td>Festivals and Fasts of the Church</td>
<td>5</td>
</tr>
<tr>
<td>Hebrew Calendar</td>
<td>6</td>
</tr>
<tr>
<td>Chronological Cycles</td>
<td>6</td>
</tr>
<tr>
<td>Chinese Festivals, 1875-6</td>
<td>7</td>
</tr>
<tr>
<td>Divisions of Time</td>
<td>8</td>
</tr>
<tr>
<td>Locations of Public Buildings, &amp;c., in San Francisco</td>
<td>9</td>
</tr>
<tr>
<td>The Length of Days</td>
<td>15</td>
</tr>
<tr>
<td>San Francisco Fire Alarm Stations</td>
<td>16</td>
</tr>
<tr>
<td>Hack Fare in San Francisco</td>
<td>17</td>
</tr>
<tr>
<td>Distances from San Francisco</td>
<td>18</td>
</tr>
<tr>
<td>Weights and Measures</td>
<td>19</td>
</tr>
<tr>
<td>Specific Gravity of Substances</td>
<td>20</td>
</tr>
<tr>
<td>The Metric System</td>
<td>21</td>
</tr>
<tr>
<td>Value of Foreign Coins</td>
<td>22</td>
</tr>
<tr>
<td>United States Stamp Duties</td>
<td>24</td>
</tr>
<tr>
<td>Meteorological Table</td>
<td>25</td>
</tr>
<tr>
<td>List of Sundays</td>
<td>25</td>
</tr>
<tr>
<td>Time Table</td>
<td>26</td>
</tr>
<tr>
<td>Note to Tides at San Francisco</td>
<td>26</td>
</tr>
<tr>
<td>Temperature of Various Localities</td>
<td>27</td>
</tr>
<tr>
<td>Important Epochs and Eras</td>
<td>27</td>
</tr>
<tr>
<td>The Solar System</td>
<td>28</td>
</tr>
<tr>
<td>Rates of Postage</td>
<td>29</td>
</tr>
<tr>
<td>Foreign Postage</td>
<td>30</td>
</tr>
<tr>
<td>Eclipses</td>
<td>30</td>
</tr>
<tr>
<td>Almanac</td>
<td>31</td>
</tr>
<tr>
<td>Month</td>
<td>1875 Calendar</td>
</tr>
<tr>
<td>-------</td>
<td>---------------</td>
</tr>
<tr>
<td>Jan</td>
<td></td>
</tr>
<tr>
<td>Feb</td>
<td></td>
</tr>
<tr>
<td>Mar</td>
<td></td>
</tr>
<tr>
<td>Apr</td>
<td></td>
</tr>
<tr>
<td>May</td>
<td></td>
</tr>
<tr>
<td>June</td>
<td></td>
</tr>
<tr>
<td>July</td>
<td></td>
</tr>
<tr>
<td>Aug</td>
<td></td>
</tr>
<tr>
<td>Sep</td>
<td></td>
</tr>
<tr>
<td>Oct</td>
<td></td>
</tr>
<tr>
<td>Nov</td>
<td></td>
</tr>
<tr>
<td>Dec</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
HEBREW CALENDAR.
5635-5636.

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

Commencement | 5635, September 12-13, 1874.
Commencement | 5636, Sept. 30-Oct. 1, 1875.

The year 5635 is a leap year.

NEW MOONS.

5635:

- Adar Rishon.... Fri. & Sat., Feb. 5-6.
- Adar Shiniis... Sun. & Mon., Mar. 7-8.
- Adar 13... Fast of Esther... Thur., Mar. 18.
- Nissan........... Tues., April 6.
- Nissan 15-22, Pesach, Tues to Tues, Apr. 20 to 27.
- Iyar 13... Lag Laomer... Sun., May 23.
- Sivan......... Fri., June 4.
- Sivan 6-7, Shovuous, Wed. & Thur., June 9-10.
- Tammoos....... Sat. & Sun., July 3-4.
- Tammoos 17... Fast... Tues., July 20.
- Av............ Mon., Aug. 2.
- Av 9... Fast of Tishabei... Tues., Aug. 10.

5636:

- Tishrei 1-2, New Year, Th. & Fr. Sept. 29, Oct. 1.
- Tishrei... Fast of Gedaliah... Sun., Oct. 3.
- Tishrei 23, Simchat Torah... Fri., Oct. 22.
- Heshvan... Fri. & Sat., Oct. 29-30.
- Kislev...... Sun. & Mon., Nov. 28-29.
- Kislev 25, Hamanah (first day)... Thur., Dec. 28.
- Tivisim... Tues. & Wed., Dec. 28-29.

CHINESE FESTIVALS, 1875-6.

1st Moon, 1st day, Feb. 5th.—New Year, Principal Holyday, 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.—Taing 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, 23rd 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 K’yan 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, 23rd day, Aug. 22d.—Decrease of Heat.

CHRONOLOGICAL CYCLES, 1875.

Dominical Letter... C.
Golden No......... 14.
Epact............. 23.
Solar Cycle....... 8.
Roman Indiction... 3.
Julian Period..... 6388.
CHINESE FESTIVALS.

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, 12 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 46.56 seconds. A Julian Year is 365 days. A Gregorian Year is 365.2425 days. Every fourth year is Bisextile, 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., 418 and 415 Mission street.
Louis Falkenau, State Assayer, 421 Montgomery street.
Henry G. Hanks, 331 California street.
Hentsch & Berton, cor. Clay and Leidesdorff streets.
W. A. Langley, 334 Montgomery street.
Leopold Kuh, 611 Commercial street.
F. Reichling & Co., 334 Montgomery street.
Richn, 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.
Wheiley & Storey, Main street, bet. Howard and Polk.

Asylums:
Protestant Orphan, Laguna and Haight streets, near Market street R. R.
Roman Catholic Orphan, South San Francisco, Mission, 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:
Anglo-California Bank, 412 California street.
Bank of British Columbia, S. E. cor. California and Sansome streets.
Bank of California, cor. California and Sansome sts.
Bank of San Francisco, 215 Sansome street.
Bellac Freres, 524 Montgomery street.
First National Bank (Gold), N. W. cor. Montgomery and Sacramento sts.
LOCATIONS OF PUBLIC OFFICES, ETC.

Banks and Bankers: Continued.
Hickox & Spear, 600 Montgomery street.
Merchant’s Exchange Bank, 415 California street.
National Gold and Trust Co., S.E. cor. California and Leidesdorf sts.
Tallant & Co., N.E. cor. California and Battery sts.

Bible Depository, 767 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 Leidesdorf 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.
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 streets.
Episcopal, Trinity, N.E. cor. Post and Powell streets.
Episcopal, St. John’s, cor. Fifteenth and Valencia streets.
Episcopal, Advent, Howard st., op. New Montgomery.
Episcopal, St. James’, Post street, near Mason.
Episcopal, St. Luke’s, Pacific st., near Polk.
Episcopal, St. Peter’s, cor. Stockton and Filbert streets.
Episcopal, St. Albans, Corinthian Hall, Mechanics Institute Building.
Hebrew, Emanuel, Sutter, b. Stockton and Powell streets.
Hebrew, Sherith Israel, N.E. cor. Post and Taylor streets.
Hebrew, Ohabei 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, bet. Fifth and Sixth.
Lutheran, St. Mark’s, German, south side of Geary street, bet. Stockton and Powell.
Lutheran, Emanuel, German, N. side Jessie street, bet. Sixth and Seventh.
Mariner’s Church, cor. Sacramento and Drumm sts.
Methodist, Howard Street, Howard street, bet. Second and Third.
Methodist, Central, Mission st., bet. Sixth and Seventh.
Methodist, Bush street, Bush street, near Divisadero.
Methodist, Minna St., Minna st., bet. Fourth and Fifth.
Methodist, Kentucky St., on the Potrero, N. L. Bridge.
Methodist, Mission Street, Mission st., bet. Eighteenth and Nineteenth.
Methodist, Seaman’s Bethel, Mission street, bet. First and Second.
Methodist, Bernal Wesleyan, Prospect Avenue, Bernal Heights.
Methodist, South San Francisco, on Fifteenth avenue, S. S. F.
Methodist, German, Folsom st., bet. Fourth and Fifth.
Methodist, German, north side Broadway, bet. Stockton and Powell sts.
Methodist, African (colored), west side Powell, 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, St. John’s, 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.
LOCATIONS OF PUBLIC OFFICES, ETC.

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, 511 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, Kearny street, opposite the Plaza.
COAST SURVEY, 214 Stockton street.
COMMISSIONER OF IMMIGRATION, N. E. cor. Jackson and Front streets.

COURTS:
District, County, and Probate, City Hall, op. the Plaza.

DASHAWAY HALL, Post street, near Dupont.

EXQUIRES:
Alameda and Contra-Costa (Bamber & Co.), S. W. cor. Jackson and Davis streets.
Oakland and San Francisco, N. W. cor. Pacific and Davis streets.

GAS COMPANY:
San Francisco Gaslight, office S. E. cor. First and Natoma sts.

HARBOR COMMISSIONERS, 414 Montgomery street.

HOSPITALS AND BENEFICENT SOCIETIES:
Alms House, near Lake Honda.
British, 730 Montgomery street.
County, S. W. cor. Francisco and Stockton streets.
French Mutual Benevolent Society, 508 Montgomery street.
German, 722 Washington street.

HOSPITALS AND BENEFICENT SOCIETIES: Continued.
Italian, 4630 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. 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, bet. 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.
MASONIC HALL, cor. Montgomery and Post streets.
MECHANICS’ INSTITUTE, 27 Post street.
MERCHANTS’ EXCHANGE, south side California 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.
California Democrat, (German, daily,) 524 California st.
California Farmer, (weekly,) 820 Clay street.
California Horticulturist, 622 Clay street.
California Teacher, (monthly,) 687 Kearny street.
Catholic Guardian, 409 Sansome street.
Commercial Herald, 409 Washington Street.
Courrier de San Francisco, (French,) 536 Clay street.
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,) 632 Merchant street.
Golden Era, (weekly,) 543 Clay street.
Hebrew, (weekly,) 612 Commercial street.
Hebrew Observer, (weekly,) 502 Montgomery street.
Irish News, 452 Montgomery street.
L’Alouette, (French,) 621 Sansome street.
La Voce del Popolo, (Italian,) 633 Washington street.
La Vox Nuevo Mundo, 725 Montgomery street.
L’Eco Della Patria, (Italian, semi-weekly,) 637 Washington street.
LOCATIONS OF PUBLIC OFFICES, ETC.

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), 539 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), 312 Bush street.

OSS FELLOWS HALL, S. W. C. Montgomery and California sts.
Olympic Club, cor. New Montgomery and Howard streets.
Oregon Steamship Office, 217 Sansome street.


Pacific Hall, 418 Bush street.
Platt's Hall, 216 Montgomery street.
Pioneer Hall, 808 Montgomery street, cor. Gold.
Police Office, City Hall, opposite the Plaza.


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., 425 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.
Germany Savings and Loan, 526 California street.

LOCATIONS OF PUBLIC OFFICES, ETC.

Savings Banks: Continued.
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:
City (New Montgomery and Mission), S. W. corner Mission and Fourteenth streets.
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.


Telegraph Offices:

Union Hall, Howard street, near Third.

United States Sub-Treasury, 428 Montgomery street.
Water Works, Spring Valley, 616 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 14½ hours; at Boston, 15½; at Berlin and London, 16½; at Stockholm and Upsal, 16½; at Hamburg, Danzig, and Stettin, 17, and the shortest 7. At St. Petersburg and Tobolsk the longest day has 19, and the shortest 6 hours. At Borneo, in India, the longest day has 21½, and the shortest 2½ hours. At Wanderbus, in Norway, the day lasts from the 21st of May to the 22nd of July, without interruption; and at Spitzbergen, the longest day is 3½ months.
FIRE ALARM STATIONS.

1. Stockton and Francisco. 58. Folsom and First.
3. Stockton and Greenw'h. 60. Howard and Third.
4. Sansome and Greenw'h. 61. Howard and Fourth.
7. Kearney and Union. 64. Howard and Fifth.
8. Powell and Union. 65. Mission and Sixth.
11. Front and Broadway. 68. Bryant and Third.
12. Stockton and Broadway. 69. Howard and Eighth.
13. Clay and East. 70. Market No. 15.
16. Sansome and Jackson. 73. Howard and Eighth.
17. Washington and Davis. 74. Engine No. 15, Sixthenth.
18. City Hall. 75. Market, opp. Seventh.
22. Clay and Battery. 79. Franklin and Hayes.
27. California and Drumm. 84. Hyde and Turk.
30. Folsom and Stewart. 87. Hyde and Union.
32. Market and Second. 89. Hyde and Jones.
34. Sutter, near Jones. 91. Howard and Twenty.
41. Stockton and Sutter. 98. California and Larkin.
42. Folsom and Beale. 99. O'Farrell and Hyde.
43. Mission and Fremont. 100. Valencia and Twenty.
44. Townsend and Third. 101. Mission and Twenty-
45. Engine House, No. 4. 102. Second st.
46. Bryant, west of First. 103. Folsom and Twenty-
47. Brannan and Second. 104. Second st.
48. Folsom and Sixteenth.

FIRE ALARM STATIONS.

147. Howard and Twent'y-th. 164. Clay and Polk.
149. Folsom and Eight'nth. 173. Ellis and Buchanan.
155. Engine House, No. 6. 231. Howard and Twenty-
156. Sixth, near Folsom. 234. Harrison and Twenty-
158. Sacramento and Franklin.

HACK FARES IN SAN FRANCISCO.

ORDER No. 286, amending Section 4 of Order No. 8, 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.............. 2.00
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.
DREXEL, 50 miles west, River Steamers.
FLOWER MOUNTAINS, 21 miles west, in the Ocean.
FORT POINT, 4 miles north of City Hall, Street Railway passing through the Presido.
GETTERS, 20 miles northeast of Healdsburg, Stage.
GETTERS SPRINGS, 28 miles northwest of Calistoga, Stage.
GILROY, 80 miles southeast, S. P. R. R.
HEALDSBURG, 30 miles north of Petaluma, Railroad.
HILTON, 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.
PENTALUMA, 45 miles north, Bay Steamer.
REDWOOD CITY, 50 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, 60 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 PEDRO, 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.
SACRAMENTO, 6 miles northwest, Ferry and Alcatraz.
SEAL ROCK, 6 miles west, Street Railway to the Cemeteries, then three miles by Omnibus.
STOCKTON, 50 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 GALLOWAY, 20 miles northeast of Vallejo, Cal. Pac. R. R.
WARM SPRINGS, 22 miles southeast, Ferry and C. P. R. R.
WATSONVILLE, 50 miles west of Gilroy, S. P. Railroad.

WEIGHTS AND MEASURES.

WEIGHT OF UNITED STATES COINS.

<table>
<thead>
<tr>
<th>Grains</th>
<th>Ounces</th>
<th>Pennyweights</th>
<th>Grams</th>
<th>Ounces</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12</td>
<td>240</td>
<td>5,760</td>
<td>.82986</td>
</tr>
<tr>
<td>.5</td>
<td>6</td>
<td>120</td>
<td>2,880</td>
<td>.41493</td>
</tr>
<tr>
<td>.25</td>
<td>3</td>
<td>60</td>
<td>720</td>
<td>.20747</td>
</tr>
</tbody>
</table>

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

TROY WEIGHT.

<table>
<thead>
<tr>
<th>Pound</th>
<th>Ounces</th>
<th>Pennyweights</th>
<th>Grams</th>
<th>Ounces</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>16</td>
<td>320</td>
<td>5,760</td>
<td>.82986</td>
</tr>
<tr>
<td>1</td>
<td>8</td>
<td>160</td>
<td>2,880</td>
<td>.41493</td>
</tr>
<tr>
<td>1</td>
<td>4</td>
<td>80</td>
<td>720</td>
<td>.20747</td>
</tr>
</tbody>
</table>

AVOIRDUPOIS WEIGHT.

<table>
<thead>
<tr>
<th>Ton</th>
<th>Ounces</th>
<th>Pounds</th>
<th>Grams</th>
<th>Ounces</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>20</td>
<td>320</td>
<td>5,760</td>
<td>.82986</td>
</tr>
<tr>
<td>1</td>
<td>10</td>
<td>160</td>
<td>2,880</td>
<td>.41493</td>
</tr>
<tr>
<td>1</td>
<td>5</td>
<td>80</td>
<td>720</td>
<td>.20747</td>
</tr>
</tbody>
</table>

APOTHECARY'S WEIGHT.

<table>
<thead>
<tr>
<th>Pound</th>
<th>Ounces</th>
<th>Drams</th>
<th>Scrooples</th>
<th>Grams</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>16</td>
<td>24</td>
<td>32</td>
<td>5,760</td>
</tr>
<tr>
<td>1</td>
<td>8</td>
<td>12</td>
<td>16</td>
<td>2,880</td>
</tr>
</tbody>
</table>

LIQUID CAPACITY.

<table>
<thead>
<tr>
<th>Gallon</th>
<th>Quarts</th>
<th>Pints</th>
<th>Gills</th>
<th>Cubic Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>8</td>
<td>32</td>
<td>231</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>4</td>
<td>16</td>
<td>57.75</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>2</td>
<td>8</td>
<td>28.875</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Mile</th>
<th>Furlongs</th>
<th>Chains</th>
<th>Rods</th>
<th>Yards</th>
<th>Feet</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8</td>
<td>80</td>
<td>320</td>
<td>1,760</td>
<td>5,280</td>
<td>63,360</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>10</td>
<td>40</td>
<td>220</td>
<td>660</td>
<td>7,920</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>4</td>
<td>22</td>
<td>66</td>
<td>792</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>5.5</td>
<td>16.5</td>
<td>198</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td>3</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Statute Mile = 5,280 feet = .86275 Nautical Miles.
1 Nautical Mile = 6,080 feet = 1.15078 Statute Miles.
60 Nautical Miles = 69.545 Statute Miles.
1 Cable Length = 120 Fathoms = 240 Yards = 720 Feet.

MEASURES OF SURFACE.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>640</td>
<td>60,400</td>
<td>2,560,000</td>
<td>3,696,000</td>
<td>27,878,400</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>10</td>
<td>100</td>
<td>4,840</td>
<td>43,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>16</td>
<td>484</td>
<td>4,355</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>30.23</td>
<td>272.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

A lot 220 by 198 feet = 1 Acre.
A 30-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 x 16 in
- Demy = 12½ x 19¼ in
- Medium = 18 x 22 in
- Royal = 19 x 24 in
- Super-royal = 19 x 27 in
- Imperial = 21½ x 29 in
- Elephant = 22½ x 27¾ in
- Uncle Sam = 48½ x 120 in

SPECIFIC GRAVITY OF SUBSTANCES.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Specific Gravity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platinum, wire</td>
<td>21.44</td>
</tr>
<tr>
<td>Gold, British standard</td>
<td>17.49</td>
</tr>
<tr>
<td>Mercury</td>
<td>13.57</td>
</tr>
<tr>
<td>Lead</td>
<td>11.35</td>
</tr>
<tr>
<td>Silver</td>
<td>10.51</td>
</tr>
<tr>
<td>Copper</td>
<td>8.9 to 9.9</td>
</tr>
<tr>
<td>Brass</td>
<td>7.8 to 8.7</td>
</tr>
<tr>
<td>Steel</td>
<td>7.85</td>
</tr>
<tr>
<td>Iron, wrought</td>
<td>7.79</td>
</tr>
<tr>
<td>Iron, cast</td>
<td>7.21</td>
</tr>
<tr>
<td>Tin</td>
<td>7.10</td>
</tr>
<tr>
<td>Zinc</td>
<td>6.7 to 7.2</td>
</tr>
<tr>
<td>Antimony</td>
<td>6.7</td>
</tr>
<tr>
<td>Aluminum</td>
<td>2.7</td>
</tr>
<tr>
<td>Glass, flint</td>
<td>2.8 to 3.4</td>
</tr>
<tr>
<td>Limestone</td>
<td>2.4 to 3.6</td>
</tr>
<tr>
<td>Slate</td>
<td>2.1</td>
</tr>
<tr>
<td>Marble, Parian</td>
<td>2.8</td>
</tr>
<tr>
<td>Granite</td>
<td>2.65 to 2.7</td>
</tr>
<tr>
<td>Chalk</td>
<td>2.2</td>
</tr>
<tr>
<td>Ivory</td>
<td>1.8</td>
</tr>
<tr>
<td>Mahogany</td>
<td>1.0</td>
</tr>
<tr>
<td>Judas Rubber</td>
<td>0.95</td>
</tr>
<tr>
<td>Proof Spirit</td>
<td>0.93</td>
</tr>
<tr>
<td>Alcohol, pure</td>
<td>0.73</td>
</tr>
<tr>
<td>Cork</td>
<td>0.3</td>
</tr>
</tbody>
</table>

THE METRIC SYSTEM.

WEIGHTS.

Metric Denominations and Values. Equivalents in Denominations in use.

<table>
<thead>
<tr>
<th>Names</th>
<th>No. grams</th>
<th>Weight of what quantity of Avoirdupois water at maximum density. Weight.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millier or tonneau</td>
<td>1,000,000</td>
<td>1 cubic meter = 2204.6 pounds. Weight.</td>
</tr>
<tr>
<td>Quintal</td>
<td>100,000</td>
<td>1 hectoliter = 220.46 pounds.</td>
</tr>
<tr>
<td>Myriagram</td>
<td>10,000</td>
<td>10 liters = 22.046 pounds.</td>
</tr>
<tr>
<td>Kilogram or kilo</td>
<td>1,000</td>
<td>1 liter = 3.2046 pounds.</td>
</tr>
<tr>
<td>Hectogram</td>
<td>100</td>
<td>1 deciliter = 3.274 ounces.</td>
</tr>
<tr>
<td>Dekagram</td>
<td>10</td>
<td>1 centiliter = 0.3274 ounce.</td>
</tr>
<tr>
<td>Gram</td>
<td>1</td>
<td>1 c. centiliter = 15.432 grains.</td>
</tr>
<tr>
<td>Decigram</td>
<td>1/10</td>
<td>1 c. centiliter = 1.5432 grains.</td>
</tr>
<tr>
<td>Centigram</td>
<td>1/100</td>
<td>1 c. milliliter = 0.1543 grains.</td>
</tr>
<tr>
<td>Milligram</td>
<td>1/1000</td>
<td>1 c. milliliter = 0.1543 grains.</td>
</tr>
</tbody>
</table>

MEASURES OF LENGTH.

Metric Denominations and Values. Equivalents in Denominations in use.

<table>
<thead>
<tr>
<th>Names</th>
<th>No. meters</th>
<th>Equivalents in Denominations in use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Myriameter</td>
<td>10,000</td>
<td>6,213.7 miles.</td>
</tr>
<tr>
<td>Kilometer</td>
<td>1,000</td>
<td>0.62137 m., or 3,320 ft. 10 in.</td>
</tr>
<tr>
<td>Hectometer</td>
<td>100</td>
<td>33.28 ft and 1 inch.</td>
</tr>
<tr>
<td>Dekameter</td>
<td>10</td>
<td>1 meter = 100 centimeters.</td>
</tr>
<tr>
<td>Meter</td>
<td>1</td>
<td>1 meter = 39.37 inches.</td>
</tr>
<tr>
<td>Decimeter</td>
<td>1/10</td>
<td>1/10 of a meter = 3.937 inches.</td>
</tr>
<tr>
<td>Centimeter</td>
<td>1/100</td>
<td>1/100 of a meter = 0.3937 inch.</td>
</tr>
<tr>
<td>Millimeter</td>
<td>1/1000</td>
<td>1/1000 of a meter = 0.03934 inch.</td>
</tr>
</tbody>
</table>

MEASURES OF SURFACE.

Metric Denominations and Values. Equivalents in Denominations in use.

<table>
<thead>
<tr>
<th>Names</th>
<th>No. square m.</th>
<th>Equivalents in Denominations in use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hectare</td>
<td>10,000</td>
<td>2.471 acres.</td>
</tr>
<tr>
<td>Are</td>
<td>100</td>
<td>119.6 square yards.</td>
</tr>
<tr>
<td>Centiare (Square)</td>
<td>1</td>
<td>1550 square inches.</td>
</tr>
</tbody>
</table>

MEASURES OF CAPACITY.

Metric Denominations and Values. Equivalents in Denominations in use.

<table>
<thead>
<tr>
<th>Names</th>
<th>No. of liters</th>
<th>Dry Measure</th>
<th>Wine Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kilotlitter or stere</td>
<td>1,000</td>
<td>1 cubic meter = 1.306 cubic yards = 964.17 gallons</td>
<td>964.417 gallons</td>
</tr>
<tr>
<td>Decalitlter</td>
<td>10</td>
<td>10 cubic decimeters = 0.988 quart = 1.0567 pints</td>
<td>0.988 quart</td>
</tr>
<tr>
<td>Litlter (or peck)</td>
<td>1</td>
<td>1 cubic peck = 0.1034 cubic inches = 0.02818 bushel</td>
<td>0.1034 cubic inches</td>
</tr>
<tr>
<td>Decilitlter</td>
<td>0.1</td>
<td>1 decilitre = 0.0102 cubic inches = 0.00290 fluid ounces</td>
<td>0.0102 cubic inches</td>
</tr>
<tr>
<td>Centilitlter</td>
<td>0.01</td>
<td>1 centilitre = 0.00102 cubic inches = 0.000290 fluid ounces</td>
<td>0.00102 cubic inches</td>
</tr>
<tr>
<td>Millilitlter</td>
<td>0.001</td>
<td>1 millilitre = 0.0000102 cubic inches = 0.00000290 fluid ounces</td>
<td>0.0000102 cubic inches</td>
</tr>
</tbody>
</table>
### Value of Foreign Coins

#### Gold and Silver Coins

<table>
<thead>
<tr>
<th>Country</th>
<th>Description</th>
<th>d</th>
<th>c</th>
<th>m</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUSTRIA</td>
<td>Gold, Quadruple Ducat</td>
<td>9</td>
<td>13</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Ducat</td>
<td>2</td>
<td>28</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Sovereign (for Lombardy)</td>
<td>6</td>
<td>73</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Silver, Rix Dollar</td>
<td>1</td>
<td>02</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Florin</td>
<td>0</td>
<td>47</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Twenty Kreutzer</td>
<td>0</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Lira (for Lombardy)</td>
<td>0</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>BELGIUM</td>
<td>Gold, Twenty-Franc piece</td>
<td>3</td>
<td>83</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Twenty-five Franc piece</td>
<td>4</td>
<td>72</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Silver, Five Francs</td>
<td>0</td>
<td>96</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Two-and-a-half Francs</td>
<td>0</td>
<td>46</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Two Francs</td>
<td>0</td>
<td>35</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Franc</td>
<td>0</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>BOLIVIA</td>
<td>Gold, Doubloon</td>
<td>15</td>
<td>58</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Silver, Dollar</td>
<td>0</td>
<td>96</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Ht. Dollar (deseased, 1830)</td>
<td>0</td>
<td>37</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>qr. Dollar (deseased 1830)</td>
<td>0</td>
<td>18</td>
<td>7</td>
</tr>
<tr>
<td>BRAZIL</td>
<td>Gold, Piece of 6000 Reis</td>
<td>8</td>
<td>73</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Silver, Twelve Hundred Reis</td>
<td>0</td>
<td>99</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Eight Hundred Reis</td>
<td>0</td>
<td>66</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Four Hundred Reis</td>
<td>0</td>
<td>33</td>
<td>0</td>
</tr>
<tr>
<td>BRITAIN</td>
<td>Gold, Sovereign</td>
<td>4</td>
<td>86</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Silver, Half Crown</td>
<td>0</td>
<td>54</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Shilling</td>
<td>0</td>
<td>21</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Sixpence</td>
<td>0</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Fourpence</td>
<td>0</td>
<td>7 2</td>
<td></td>
</tr>
<tr>
<td>CENTRAL AMERICA</td>
<td>Gold, Doubloon</td>
<td>14</td>
<td>96</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Escudo</td>
<td>1</td>
<td>84</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Silver, Dollar</td>
<td>0</td>
<td>38</td>
<td>1</td>
</tr>
<tr>
<td>CHILE</td>
<td>Gold, Doubloon (before 1835)</td>
<td>15</td>
<td>57</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Doubloon (since 1835)</td>
<td>15</td>
<td>66</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Silver, Dollar</td>
<td>0</td>
<td>96</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Quarter Dollar</td>
<td>0</td>
<td>22</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Eighth Dollar, or Real</td>
<td>0</td>
<td>11</td>
<td>2</td>
</tr>
<tr>
<td>COSTA RICA</td>
<td>Gold, Half Doubloon (1830)</td>
<td>7</td>
<td>62</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Silver, New Real</td>
<td>0</td>
<td>5 3</td>
<td></td>
</tr>
<tr>
<td>DENMARK</td>
<td>Gold, Double Fred, or 10-Thaler</td>
<td>7</td>
<td>90</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Silver, Rigsbanks Daler</td>
<td>0</td>
<td>53</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Specie Daler</td>
<td>1</td>
<td>4 7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thirty-two Skillings</td>
<td>0</td>
<td>17</td>
<td>0</td>
</tr>
<tr>
<td>ECUADOR</td>
<td>Gold, Half Doubloon</td>
<td>7</td>
<td>60</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Silver, Quarter Dollar</td>
<td>0</td>
<td>18</td>
<td>7</td>
</tr>
</tbody>
</table>

---

### Value of Foreign Coins

<table>
<thead>
<tr>
<th>Country</th>
<th>Description</th>
<th>d</th>
<th>c</th>
<th>m</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGYPT</td>
<td>Gold, Hundred Piastres</td>
<td>4</td>
<td>97</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Silver, Twenty Piastres</td>
<td>0</td>
<td>96</td>
<td>0</td>
</tr>
<tr>
<td>FRANCE</td>
<td>Gold, Twenty Francs</td>
<td>3</td>
<td>84</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Silver, Five Francs</td>
<td>0</td>
<td>96</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Franc</td>
<td>0</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>GERMAN EMPIRE</td>
<td>Gold, Mark (new)</td>
<td>0</td>
<td>23</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Silver, Mark (new)</td>
<td>0</td>
<td>19</td>
<td>3</td>
</tr>
<tr>
<td>GREECE</td>
<td>Gold, Twenty Drachms</td>
<td>3</td>
<td>43</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Silver, Drachm</td>
<td>0</td>
<td>16</td>
<td>5</td>
</tr>
<tr>
<td>GUIANA, BRITISH</td>
<td>Silver, Guilder</td>
<td>0</td>
<td>28</td>
<td>2</td>
</tr>
<tr>
<td>HAYTI</td>
<td>Silver, Dollar (100 Centimes)</td>
<td>1</td>
<td>0 0</td>
<td></td>
</tr>
<tr>
<td>HINDOSTAN</td>
<td>Gold, Mohur (E. I. Co.)</td>
<td>7</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Silver, Rupee</td>
<td>0</td>
<td>45</td>
<td>7</td>
</tr>
<tr>
<td>ITALY</td>
<td>Gold, Twenty Lire</td>
<td>3</td>
<td>84</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Silver, Five Lire</td>
<td>0</td>
<td>96</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Lira</td>
<td>0</td>
<td>17</td>
<td>8</td>
</tr>
<tr>
<td>JAPAN</td>
<td>Gold, Twenty Yen, new</td>
<td>19</td>
<td>94</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Chibang, obsolete</td>
<td>3</td>
<td>57</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Silver, Yen</td>
<td>1</td>
<td>4 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fifty Sen</td>
<td>0</td>
<td>42</td>
<td>8</td>
</tr>
<tr>
<td>MEXICO</td>
<td>Gold, Doubloon, average</td>
<td>15</td>
<td>59</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Silver, Dollar, average</td>
<td>1</td>
<td>4 0</td>
<td></td>
</tr>
<tr>
<td>NETHERLANDS</td>
<td>Gold, Ducat</td>
<td>2</td>
<td>25</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Ten Guilders</td>
<td>3</td>
<td>39</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Silver, Three Guilders</td>
<td>1</td>
<td>21</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Guilder</td>
<td>0</td>
<td>40</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Twenty-five Cents</td>
<td>0</td>
<td>9 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two-and-a-half Guilders</td>
<td>1</td>
<td>1 2</td>
<td></td>
</tr>
<tr>
<td>NEW GRANADA</td>
<td>Gold, Doubloon, 21 carat stand</td>
<td>15</td>
<td>61</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>includg't the silver, 15 66</td>
<td>0 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>nine-tenths stand, 15 31</td>
<td>0 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>includg't the silver, 15 36</td>
<td>0 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silver, Dollar, usual weight</td>
<td>0</td>
<td>96</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Dollar, or Ten Reals, 1831</td>
<td>0</td>
<td>93</td>
<td>0</td>
</tr>
<tr>
<td>NORWAY</td>
<td>Silver, Specie Daler</td>
<td>1</td>
<td>8 4</td>
<td></td>
</tr>
<tr>
<td>PERSIA</td>
<td>Gold, Tomana</td>
<td>2</td>
<td>23</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Silver, Sahib Koran</td>
<td>0</td>
<td>21</td>
<td>5</td>
</tr>
<tr>
<td>PERU</td>
<td>Gold, Doubloon, Lima, to 1833</td>
<td>15</td>
<td>55</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Doubloon, Cuzco, to 1836</td>
<td>15</td>
<td>42</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Doubloon, Cuzco, 1837</td>
<td>15</td>
<td>53</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Silver, Dollar, Lima mint</td>
<td>0</td>
<td>1 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dollar, Cuzco</td>
<td>1</td>
<td>0 8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hf. Dollar, Cuzco, debased</td>
<td>0</td>
<td>30</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Hf. Dollar, Arequipa</td>
<td>0</td>
<td>30</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Hf. Dollar, Pasco</td>
<td>0</td>
<td>49</td>
<td>5</td>
</tr>
<tr>
<td>POLEN</td>
<td>Silver, Zloty</td>
<td>0</td>
<td>11</td>
<td>2</td>
</tr>
</tbody>
</table>
VALUE OF FOREIGN COINS.

<table>
<thead>
<tr>
<th>Country</th>
<th>Coin Type</th>
<th>Value (d. c.m.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portugal</td>
<td>Gold, Half Joe (full weight)</td>
<td>8.50 d. c.m.</td>
</tr>
<tr>
<td></td>
<td>Crown</td>
<td>5.80 d. c.m.</td>
</tr>
<tr>
<td></td>
<td>Silver, Cruzado</td>
<td>0.53 d. c.m.</td>
</tr>
<tr>
<td></td>
<td>Crown of 1000 Reis</td>
<td>0.97 d. c.m.</td>
</tr>
<tr>
<td></td>
<td>Half Crown</td>
<td>0.48 d. c.m.</td>
</tr>
<tr>
<td>Russia</td>
<td>Gold, Five Roubles</td>
<td>3.97 d. c.m.</td>
</tr>
<tr>
<td></td>
<td>Silver, Rouble</td>
<td>0.77 d. c.m.</td>
</tr>
<tr>
<td></td>
<td>Ten Zloty</td>
<td>1.15 d. c.m.</td>
</tr>
<tr>
<td></td>
<td>Thirty Copecks</td>
<td>0.22 d. c.m.</td>
</tr>
<tr>
<td>Siam</td>
<td>Silver, Tical</td>
<td>0.58 d. c.m.</td>
</tr>
<tr>
<td>Spain</td>
<td>Gold, Pistole (Quar. Doubl'ln)</td>
<td>3.90 d. c.m.</td>
</tr>
<tr>
<td></td>
<td>Silver, Pistareen (4 Reals Veilen)</td>
<td>0.17 d. c.m.</td>
</tr>
<tr>
<td>Sweden</td>
<td>Silver, Species Daler</td>
<td>1.42 d. c.m.</td>
</tr>
<tr>
<td></td>
<td>Half Daler</td>
<td>0.58 d. c.m.</td>
</tr>
<tr>
<td>Turkey</td>
<td>Gold, Hundred Piastres</td>
<td>4.37 d. c.m.</td>
</tr>
<tr>
<td></td>
<td>Twenty Piastres (new)</td>
<td>0.83 d. c.m.</td>
</tr>
</tbody>
</table>

STAMP DUTIES.

Proprietary Medicines, Perfumery, Cosmetics, Preparations, &c., each package retained at not over 25 cents. $0.10.
Over 25 cents and not over 50 cents. 0.20.
Over 50 cents and not over 75 cents. 0.50.
Over 75 cents and not over $1.00. 0.40.
Every additional 25 cts. or part thereof, 1 cent more.
Fraction 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. 0.10.
Packages of more than 100 matches, for each 100 or part thereof. 0.10.
Cigar Lights, made in part of wood, wax, glass, paper, or other materials, in packages containing twenty-five lights or less, each package. 0.10.
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. 0.50.

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.

<table>
<thead>
<tr>
<th>Locality</th>
<th>Jan'y</th>
<th>July</th>
<th>Range</th>
<th>Rain-fall in inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sonoma</td>
<td>45°</td>
<td>60°</td>
<td>21°</td>
<td>25in.</td>
</tr>
<tr>
<td>Vallejo</td>
<td>48°</td>
<td>63°</td>
<td>15°</td>
<td>25</td>
</tr>
<tr>
<td>San Francisco</td>
<td>49°</td>
<td>57°</td>
<td>8°</td>
<td>23</td>
</tr>
<tr>
<td>Monterey</td>
<td>52°</td>
<td>58°</td>
<td>6°</td>
<td>20</td>
</tr>
<tr>
<td>Santa Barbara</td>
<td>54°</td>
<td>71°</td>
<td>17°</td>
<td>15</td>
</tr>
<tr>
<td>Los Angelos</td>
<td>52°</td>
<td>75°</td>
<td>23°</td>
<td>12</td>
</tr>
<tr>
<td>San Diego</td>
<td>51°</td>
<td>72°</td>
<td>21°</td>
<td>10</td>
</tr>
<tr>
<td>Humboldt Bay</td>
<td>40°</td>
<td>56°</td>
<td>16°</td>
<td>30</td>
</tr>
<tr>
<td>Sacramento</td>
<td>46°</td>
<td>73°</td>
<td>28°</td>
<td>20</td>
</tr>
<tr>
<td>St. Augustine</td>
<td>57°</td>
<td>80°</td>
<td>25°</td>
<td>55</td>
</tr>
<tr>
<td>St. Paul</td>
<td>18°</td>
<td>73°</td>
<td>60°</td>
<td>30</td>
</tr>
<tr>
<td>Mentone</td>
<td>40°</td>
<td>73°</td>
<td>33°</td>
<td>23</td>
</tr>
<tr>
<td>Funchal</td>
<td>60°</td>
<td>70°</td>
<td>10°</td>
<td>—</td>
</tr>
<tr>
<td>New York</td>
<td>31°</td>
<td>73°</td>
<td>42°</td>
<td>43</td>
</tr>
<tr>
<td>London</td>
<td>37°</td>
<td>62°</td>
<td>25°</td>
<td>34</td>
</tr>
</tbody>
</table>

List of Sundays in 1875.

<table>
<thead>
<tr>
<th>Month</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>3</td>
<td>10</td>
<td>17</td>
<td>24</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>February</td>
<td>7</td>
<td>14</td>
<td>21</td>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>March</td>
<td>7</td>
<td>14</td>
<td>21</td>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>4</td>
<td>11</td>
<td>18</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May</td>
<td>2</td>
<td>9</td>
<td>16</td>
<td>23</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>6</td>
<td>13</td>
<td>20</td>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>4</td>
<td>11</td>
<td>18</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>1</td>
<td>8</td>
<td>15</td>
<td>22</td>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September</td>
<td>5</td>
<td>12</td>
<td>19</td>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>October</td>
<td>3</td>
<td>10</td>
<td>17</td>
<td>24</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>7</td>
<td>14</td>
<td>21</td>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>December</td>
<td>6</td>
<td>12</td>
<td>19</td>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Time Table

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

<table>
<thead>
<tr>
<th>Place</th>
<th>M.</th>
<th>H.</th>
<th>S.</th>
<th>P. M.</th>
<th>H.</th>
<th>S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astoria, Oregon</td>
<td>11</td>
<td>54</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcutta, India</td>
<td>1</td>
<td>35</td>
<td>56</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canton, China</td>
<td>3</td>
<td>43</td>
<td>00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Honolulu, S. I.</td>
<td>9</td>
<td>39</td>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melbourne, Aust.</td>
<td>5</td>
<td>48</td>
<td>00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pekin, China</td>
<td>3</td>
<td>56</td>
<td>00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sydney, Australia</td>
<td>6</td>
<td>14</td>
<td>00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Singapore, E. I.</td>
<td>3</td>
<td>8</td>
<td>00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shanghai, China</td>
<td>4</td>
<td>12</td>
<td>40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tobolsk, Siberia</td>
<td>12</td>
<td>48</td>
<td>00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yeddo, Japan</td>
<td>5</td>
<td>30</td>
<td>00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yreka, Cal.</td>
<td>1</td>
<td>15</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acapulco, Mex.</td>
<td>1</td>
<td>26</td>
<td>28</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Archangel, Russia</td>
<td>10</td>
<td>50</td>
<td>00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aspinwall, Isthmus</td>
<td>2</td>
<td>50</td>
<td>40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Berlin, Prus.</td>
<td>9</td>
<td>3</td>
<td>55</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boston, Mass.</td>
<td>3</td>
<td>25</td>
<td>48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cape Good Hope</td>
<td>9</td>
<td>32</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charleston, S. C.</td>
<td>2</td>
<td>50</td>
<td>40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicago, Ill.</td>
<td>2</td>
<td>19</td>
<td>44</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cincinnati, O.</td>
<td>2</td>
<td>32</td>
<td>16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Constantinople</td>
<td>10</td>
<td>9</td>
<td>44</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detroit, Mich.</td>
<td>2</td>
<td>35</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastport, Maine</td>
<td>3</td>
<td>42</td>
<td>00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fort Yuma, Cal.</td>
<td>12</td>
<td>31</td>
<td>18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frankfurt, Ger.</td>
<td>8</td>
<td>45</td>
<td>24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Galveston, Tex.</td>
<td>1</td>
<td>50</td>
<td>32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geneva, Switz.</td>
<td>8</td>
<td>34</td>
<td>42</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gibraltar, Spain</td>
<td>7</td>
<td>48</td>
<td>44</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Temperature of Various Localities

<table>
<thead>
<tr>
<th>Place</th>
<th>Latitude</th>
<th>Mean Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Of Year</td>
</tr>
<tr>
<td>Algiers</td>
<td>36°48′</td>
<td>60.98°</td>
</tr>
<tr>
<td>Amsterdam</td>
<td>52°22′</td>
<td>51.62°</td>
</tr>
<tr>
<td>Berne</td>
<td>46°05′</td>
<td>49.28°</td>
</tr>
<tr>
<td>Bordeaux</td>
<td>44°50′</td>
<td>56.48°</td>
</tr>
<tr>
<td>Brussels</td>
<td>50°50′</td>
<td>51.80°</td>
</tr>
<tr>
<td>Cairo</td>
<td>30°02′</td>
<td>72.32°</td>
</tr>
<tr>
<td>Cambridge, U.S.</td>
<td>42°25′</td>
<td>50.36°</td>
</tr>
<tr>
<td>Cincinnati</td>
<td>39°06′</td>
<td>33.78°</td>
</tr>
<tr>
<td>Copenhagen</td>
<td>55°41′</td>
<td>45.08°</td>
</tr>
<tr>
<td>Dublin</td>
<td>53°21′</td>
<td>49.10°</td>
</tr>
<tr>
<td>Edinburgh</td>
<td>55°57′</td>
<td>47.54°</td>
</tr>
<tr>
<td>Geneva</td>
<td>44°12′</td>
<td>49.28°</td>
</tr>
<tr>
<td>Havana</td>
<td>23°10′</td>
<td>78.08°</td>
</tr>
<tr>
<td>London</td>
<td>51°30′</td>
<td>50.38°</td>
</tr>
<tr>
<td>Marseille</td>
<td>43°17′</td>
<td>59.00°</td>
</tr>
<tr>
<td>Moscou</td>
<td>55°45′</td>
<td>40.10°</td>
</tr>
<tr>
<td>Nagasaki</td>
<td>32°45′</td>
<td>60.80°</td>
</tr>
<tr>
<td>Natchez</td>
<td>31°28′</td>
<td>64.76°</td>
</tr>
<tr>
<td>New York</td>
<td>40°40′</td>
<td>58.78°</td>
</tr>
<tr>
<td>Paris</td>
<td>48°50′</td>
<td>51.08°</td>
</tr>
<tr>
<td>Pekin</td>
<td>39°54′</td>
<td>54.86°</td>
</tr>
<tr>
<td>Philadelphia</td>
<td>39°56′</td>
<td>53.42°</td>
</tr>
<tr>
<td>Quebec</td>
<td>46°47′</td>
<td>41.74°</td>
</tr>
<tr>
<td>Rome</td>
<td>41°53′</td>
<td>60.44°</td>
</tr>
<tr>
<td>Sacramento</td>
<td>38°32′</td>
<td>59.90°</td>
</tr>
<tr>
<td>San Francisco</td>
<td>37°47′</td>
<td>53.85°</td>
</tr>
<tr>
<td>Stockholm</td>
<td>59°20′</td>
<td>42.26°</td>
</tr>
<tr>
<td>St. Petersburg</td>
<td>59°56′</td>
<td>38.84°</td>
</tr>
<tr>
<td>Verona</td>
<td>19°11′</td>
<td>77.72°</td>
</tr>
<tr>
<td>Vienna</td>
<td>48°12′</td>
<td>50.54°</td>
</tr>
<tr>
<td>Warsaw</td>
<td>52°14′</td>
<td>48.56°</td>
</tr>
</tbody>
</table>

### Important Epochs and Eras

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grscian Year of the World</td>
<td>September 1, B.C. 5398</td>
</tr>
<tr>
<td>Julian Period</td>
<td>January 1, B.C. 4713</td>
</tr>
<tr>
<td>Jewish Mardane Era</td>
<td>B.C. 5761</td>
</tr>
<tr>
<td>Destruction of Troy</td>
<td>June, B.C. 1184</td>
</tr>
<tr>
<td>Building of Solomon's Temple</td>
<td>May, B.C. 1015</td>
</tr>
<tr>
<td>Era of Olympiads</td>
<td>New Moon, Summer Solstice, B.C. 776</td>
</tr>
<tr>
<td>Roman Era</td>
<td>April 24, B.C. 535</td>
</tr>
<tr>
<td>Era of Nabonasser</td>
<td>February 26, B.C. 747</td>
</tr>
<tr>
<td>Metonic Cycle</td>
<td>July 15, B.C. 432</td>
</tr>
<tr>
<td>Julian Year</td>
<td>January 1, B.C. 45</td>
</tr>
<tr>
<td>Augustan Era</td>
<td>February 14, B.C. 27</td>
</tr>
<tr>
<td>Indiction of Constantinople</td>
<td>September 1, B.C. 3</td>
</tr>
<tr>
<td>Christian Era</td>
<td>January 1, A.D. 1</td>
</tr>
<tr>
<td>Destruction of Jerusalem</td>
<td>September 21, A.D. 69</td>
</tr>
<tr>
<td>Era of Dioscladian</td>
<td>September 17, A. D. 284</td>
</tr>
<tr>
<td>Era of Hegira</td>
<td>July 16, A.D. 622</td>
</tr>
<tr>
<td>Persian Era</td>
<td>June 16, A.D. 632</td>
</tr>
<tr>
<td>Conquest of England</td>
<td>October 14, A.D. 1066</td>
</tr>
<tr>
<td>Declaration American Independence</td>
<td>July 4, A.D. 1776</td>
</tr>
</tbody>
</table>
**THE SOLAR SYSTEM.**

The Sun, the centre of the Solar System, has a diameter of 865,680 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.**

<table>
<thead>
<tr>
<th>Name</th>
<th>Diameter in Miles</th>
<th>Volume</th>
<th>Distance from Sun</th>
<th>Period of Revolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>2,650</td>
<td>1-19</td>
<td>36,000,000</td>
<td>3 mos.</td>
</tr>
<tr>
<td>Venus</td>
<td>5,800</td>
<td>9-10</td>
<td>67,000,000</td>
<td>74½ mos.</td>
</tr>
<tr>
<td>Earth</td>
<td>7,212</td>
<td>1</td>
<td>22,000,000</td>
<td>1 yr</td>
</tr>
<tr>
<td>Mars</td>
<td>4,600</td>
<td>1-6</td>
<td>140,000,000</td>
<td>2 yrs</td>
</tr>
<tr>
<td>Asteroids (approximate)</td>
<td>250,000,000</td>
<td></td>
<td></td>
<td>4½ yrs</td>
</tr>
<tr>
<td>Jupiter</td>
<td>85,000</td>
<td>1,400</td>
<td>480,000,000</td>
<td>12 yrs</td>
</tr>
<tr>
<td>Saturn</td>
<td>79,000</td>
<td>1,000</td>
<td>876,000,000</td>
<td>29 yrs</td>
</tr>
<tr>
<td>Uranus</td>
<td>35,000</td>
<td>86</td>
<td>1,762,000,000</td>
<td>84 yrs</td>
</tr>
<tr>
<td>Neptune</td>
<td>31,000</td>
<td>60</td>
<td>2,760,000,000</td>
<td>164 yrs</td>
</tr>
</tbody>
</table>

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 20 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, micro-encrusted 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 FUJI 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 22nd, 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.

Moons' Phases.

<table>
<thead>
<tr>
<th>Day</th>
<th>Sun Rises</th>
<th>Sun Sets</th>
<th>Days' Length</th>
<th>Moon R &amp; S</th>
</tr>
</thead>
</table>

February.

Moons' Phases.

<table>
<thead>
<tr>
<th>Day</th>
<th>Sun Rises</th>
<th>Sun Sets</th>
<th>Days' Length</th>
<th>Moon R &amp; S</th>
</tr>
</thead>
</table>

HIGH TIDES: JANUARY.

<table>
<thead>
<tr>
<th>Day</th>
<th>Morn'g</th>
<th>Even'g</th>
</tr>
</thead>
</table>

February.

<table>
<thead>
<tr>
<th>Day</th>
<th>Morn'g</th>
<th>Even'g</th>
</tr>
</thead>
</table>

30

31
## Almanac for 1875

### March

<table>
<thead>
<tr>
<th>Date</th>
<th>W</th>
<th>M</th>
<th>D</th>
<th>Sun Rises</th>
<th>Sun Sets</th>
<th>Sun Days' Length</th>
<th>Moon Rises</th>
<th>Moon Sets</th>
<th>Moon Days' Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>4</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
</tbody>
</table>

### April

<table>
<thead>
<tr>
<th>Date</th>
<th>W</th>
<th>M</th>
<th>D</th>
<th>Sun Rises</th>
<th>Sun Sets</th>
<th>Sun Days' Length</th>
<th>Moon Rises</th>
<th>Moon Sets</th>
<th>Moon Days' Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>4</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
</tbody>
</table>

### May

<table>
<thead>
<tr>
<th>Date</th>
<th>W</th>
<th>M</th>
<th>D</th>
<th>Sun Rises</th>
<th>Sun Sets</th>
<th>Sun Days' Length</th>
<th>Moon Rises</th>
<th>Moon Sets</th>
<th>Moon Days' Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>4</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
</tbody>
</table>

### June

<table>
<thead>
<tr>
<th>Date</th>
<th>W</th>
<th>M</th>
<th>D</th>
<th>Sun Rises</th>
<th>Sun Sets</th>
<th>Sun Days' Length</th>
<th>Moon Rises</th>
<th>Moon Sets</th>
<th>Moon Days' Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>4</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
</tbody>
</table>

### High Tides: March

<table>
<thead>
<tr>
<th>Date</th>
<th>Morn'</th>
<th>Eve'n</th>
<th>Date</th>
<th>Morn'</th>
<th>Eve'n</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5:31</td>
<td>8:36</td>
<td>17</td>
<td>7:31</td>
<td>10:37</td>
</tr>
<tr>
<td>2</td>
<td>6:34</td>
<td>9:35</td>
<td>18</td>
<td>7:47</td>
<td>10:42</td>
</tr>
<tr>
<td>3</td>
<td>7:35</td>
<td>10:36</td>
<td>19</td>
<td>8:40</td>
<td>11:45</td>
</tr>
<tr>
<td>4</td>
<td>8:35</td>
<td>11:35</td>
<td>20</td>
<td>9:33</td>
<td>12:38</td>
</tr>
</tbody>
</table>

### High Tides: April

<table>
<thead>
<tr>
<th>Date</th>
<th>Morn'</th>
<th>Eve'n</th>
<th>Date</th>
<th>Morn'</th>
<th>Eve'n</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7:33</td>
<td>10:39</td>
<td>17</td>
<td>9:35</td>
<td>12:37</td>
</tr>
<tr>
<td>2</td>
<td>8:36</td>
<td>11:37</td>
<td>18</td>
<td>10:37</td>
<td>13:38</td>
</tr>
</tbody>
</table>

### High Tides: May

<table>
<thead>
<tr>
<th>Date</th>
<th>Morn'</th>
<th>Eve'n</th>
<th>Date</th>
<th>Morn'</th>
<th>Eve'n</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8:41</td>
<td>11:42</td>
<td>17</td>
<td>10:43</td>
<td>13:44</td>
</tr>
<tr>
<td>2</td>
<td>9:42</td>
<td>12:44</td>
<td>18</td>
<td>11:44</td>
<td>14:44</td>
</tr>
<tr>
<td>3</td>
<td>10:44</td>
<td>13:46</td>
<td>19</td>
<td>11:45</td>
<td>14:45</td>
</tr>
<tr>
<td>4</td>
<td>11:46</td>
<td>14:46</td>
<td>20</td>
<td>12:46</td>
<td>15:46</td>
</tr>
</tbody>
</table>

### High Tides: June

<table>
<thead>
<tr>
<th>Date</th>
<th>Morn'</th>
<th>Eve'n</th>
<th>Date</th>
<th>Morn'</th>
<th>Eve'n</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>11:36</td>
<td>14:37</td>
<td>17</td>
<td>13:38</td>
<td>16:39</td>
</tr>
<tr>
<td>2</td>
<td>12:38</td>
<td>15:39</td>
<td>18</td>
<td>14:39</td>
<td>17:39</td>
</tr>
<tr>
<td>3</td>
<td>13:39</td>
<td>16:39</td>
<td>19</td>
<td>14:40</td>
<td>17:40</td>
</tr>
<tr>
<td>4</td>
<td>13:41</td>
<td>16:41</td>
<td>20</td>
<td>14:40</td>
<td>17:40</td>
</tr>
</tbody>
</table>
### ALMANAC FOR 1875

#### July

<table>
<thead>
<tr>
<th>Day</th>
<th>New Moon</th>
<th>2d. 9h. 18m. A.</th>
<th>First Quarter</th>
<th>10d. 2h. 30m. M.</th>
<th>Full Moon</th>
<th>18d. 3h. 17m. M.</th>
<th>Last Quarter</th>
<th>26d. 9h. 21m. A.</th>
</tr>
</thead>
</table>

#### August

<table>
<thead>
<tr>
<th>Day</th>
<th>Moon's Phases</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Moon</td>
<td>1st 14. 5h. 18m. M.</td>
</tr>
<tr>
<td>First Quarter</td>
<td>8th. 2h. 30m. M.</td>
</tr>
<tr>
<td>Full Moon</td>
<td>16th. 3h. 17m. M.</td>
</tr>
<tr>
<td>Last Quarter</td>
<td>24th. 9h. 21m. A.</td>
</tr>
</tbody>
</table>

#### September

<table>
<thead>
<tr>
<th>Day</th>
<th>First Quarter</th>
<th>7d. 1h. 28m. A.</th>
<th>Full Moon</th>
<th>15d. 4h. 32m. M.</th>
<th>Last Quarter</th>
<th>23d. 1h. 51m. A.</th>
<th>New Moon</th>
<th>29d. 4h. 46m. M.</th>
</tr>
</thead>
</table>

#### October

<table>
<thead>
<tr>
<th>Day</th>
<th>Moon's Phases</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Quarter</td>
<td>7d. 7h. 55m. M.</td>
</tr>
<tr>
<td>Full Moon</td>
<td>14d. 3h. 5m. A.</td>
</tr>
<tr>
<td>Last Quarter</td>
<td>21d. 6h. 3m. M.</td>
</tr>
<tr>
<td>New Moon</td>
<td>28d. 9h. 3m. A.</td>
</tr>
</tbody>
</table>

#### High Tides: July

<table>
<thead>
<tr>
<th>Day</th>
<th>Morn'g</th>
<th>Even'g</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>2nd</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>3rd</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>4th</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>5th</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>6th</td>
<td>10:05</td>
<td>03:40</td>
</tr>
</tbody>
</table>

#### High Tides: August

<table>
<thead>
<tr>
<th>Day</th>
<th>Morn'g</th>
<th>Even'g</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>2nd</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>3rd</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>4th</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>5th</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>6th</td>
<td>10:05</td>
<td>03:40</td>
</tr>
</tbody>
</table>

#### High Tides: September

<table>
<thead>
<tr>
<th>Day</th>
<th>Morn'g</th>
<th>Even'g</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>2nd</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>3rd</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>4th</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>5th</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>6th</td>
<td>10:05</td>
<td>03:40</td>
</tr>
</tbody>
</table>

#### High Tides: October

<table>
<thead>
<tr>
<th>Day</th>
<th>Morn'g</th>
<th>Even'g</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>2nd</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>3rd</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>4th</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>5th</td>
<td>10:05</td>
<td>03:40</td>
</tr>
<tr>
<td>6th</td>
<td>10:05</td>
<td>03:40</td>
</tr>
</tbody>
</table>
### Almanac for 1875

#### November

<table>
<thead>
<tr>
<th>Date</th>
<th>Moon's Phases</th>
<th>Sun Rises</th>
<th>Sun Sets</th>
<th>Days' Length</th>
<th>Moon Rises</th>
<th>Moon Sets</th>
<th>Moon Rises &amp; Sets</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### December

<table>
<thead>
<tr>
<th>Date</th>
<th>Moon's Phases</th>
<th>Sun Rises</th>
<th>Sun Sets</th>
<th>Days' Length</th>
<th>Moon Rises</th>
<th>Moon Sets</th>
<th>Moon Rises &amp; Sets</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### High Tides: November

<table>
<thead>
<tr>
<th>Date</th>
<th>Morn's</th>
<th>Even's</th>
<th>Morn's</th>
<th>Even's</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### High Tides: December

<table>
<thead>
<tr>
<th>Date</th>
<th>Morn's</th>
<th>Even's</th>
<th>Morn's</th>
<th>Even's</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Wednesday, January 6, 1875.

Thursday, January 7, 1875.

First snow of the season. Father & I went up to Olympia on the 7:30 train. Arrived at 4 P.M.

Filed our homestead applications in the eve after office hours.

Stopped at Mary's.
Friday, January 3, 1875.

We returned home to-day, arrived at Lake Washington at 7 P.M.
Thursday, January 14, 1875.

We moved out of the cabin into our new house today. The weather is very cold. The house has not yet a partition in it.

Y his 2 below.

Yours,
Saturday, January 16, 1875.

No entries made.

(Handwritten text not legible)

Sunday, January 17, 1875.

No entries made.
Saturday, January 30, 1875.

Sunday, January 31, 1875.

Have had continued cold weather the past three weeks—one of the coldest snaps that has been known for several years.
Saturday, February 13, 1875.

Mr. Proctor came over with his dogs. I went with him to Wright's Point; we killed a fine deer.
Friday, February 19, 1875.

Saturday, February 20, 1875.

I went to town I brought Mother home.
Friday, February 19, 1875.

Saturday, February 20, 1875.

I went to town & brought Mother home.
Saturday, February 27, 1875.
I went over to town today.
Carried a book to Mrs. Horwitz, made a short call.

Sunday, February 28, 1875.
Pleasant.
Grafted some few scions.
This has been the pleasantest February I ever saw. The weather has been very mild.
Thursday, March 25, 1875:


Friday, March 26, 1875:

[Handwritten text not legible]
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 French's letter.
Friday, April 16, 1875.

Peaches in bloom.

Saturday, April 17, 1875.

Kirkland Heritage Society
The weather has changed from hot to cold to fog. The past week has been very warm. Potatoes & beans are up an inch, our young Peaches bloom & the 16th.
Tuesday, April 20, 1875.

[Handwritten text]

Wednesday, April 21, 1875.

Kirkland Heritage Society
Saturday, April 24, 1875.

I went to town this morning. Capt. Tom asked him for work on his new boat and got a favorable answer. Father renewed his subscription to the Semi-Weekly Tribune today.
Friday, April 30, 1875

Saturday, May 1, 1875

I went to town. Carried Miss Penfield her books back. It has been a cold raw day.
Friday, April 30, 1875.

Saturday, May 1, 1875.

I went to town, carried Mrs Penfield some letters. It has been a cold, raw day.
Mr. Barnett brought two emigrants to look at land here.
Tuesday, May 18, 1875.

My house is completed, on Homestead claim. Slept in it last night.

Wednesday, May 19, 1875.

I stand missing House to night.
Saturday, May 22, 1875.

I went to town.

I called at Capt.彭菲尔德.

Sunday, May 23, 1875.

South Wind.

The Spring boys called this day and got some Tomato plants.
Dr. B. Bagley
came over to 
Mrs. Popham, he 
stopped with 
me. First No. 
Of Semi-Weekly 
Tribune came to day 
called "May 11," 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 fixed and we came back on the train. Obstetric wife came here about 8 P.M.
WEDNESDAY, JUNE 9, 1875.

THURSDAY, JUNE 10, 1875.

Kirkland Heritage Society