

1900.

SB-97.41.1 (12)

William Brewster,
145 Brattle St.,
Cambridge, Mass., U.S.A.

(Any one finding this book
will be suitably rewarded on
returning it to the above address)



CALENDAR, 1900

| 1900 | | SUN. | MON. | TUE. | WED. | THU. | FRI. | SAT. |
|--------|----|------|------|------|------|------|------|------|
| JAN. | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| FEB. | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| MARCH. | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| APRIL. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| MAY. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| JUNE. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| JULY. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 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 |
| SEPT. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| OCT. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| NOV. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 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 |

ECLIPSES, 1900

There will be three Eclipses this year, two of the Sun and one of the Moon, as follows:

I. A Total Eclipse of the Sun, May 28, visible as a partial eclipse throughout most of the U. S. The line of totality extends from Norfolk, Va., to Mobile and New Orleans.

| | | | |
|--------------|-----------|------------|-------------|
| | Boston. | New York. | Washington. |
| Begins | 8.9 A. M. | 7.49 A. M. | 7.40 A. M. |
| Middle | 9.29 " " | 9.10 " " | 8.55 " " |
| Ends | 10.50 " " | 10.31 " " | 10.11 " " |

II. A Partial Eclipse of the Moon, June 13. This is so small as to scarcely amount to more than a contact, and details are therefore omitted.

III. An Annular Eclipse of the Sun, Nov. 22, invisible in America.

MORNING STARS.

MERCURY, until Feb. 9, and from March 24 to May 30, Aug. 1 to Sept. 13, and after Nov. 20. VENUS, after July 8. MARS, from Jan. 16 to Nov. 22. JUPITER, until Feb. 28, and after Dec. 14. SATURN, until March 25, and after Dec. 28. URANUS, until March 3, and after Dec. 5.

EVENING STARS.

MERCURY, from Feb. 9 to March 24, May 30 to Aug. 1, and Sept. 13 to Nov. 20. VENUS, until July 8. MARS, until Jan. 16, and after Nov. 22. JUPITER, from Feb. 28 to Dec. 14. SATURN, from March 25 to Dec. 29. URANUS, from March 3 to Dec. 5.

MOVABLE FEASTS.

| | | | |
|-------------------------|--------|--------------------------|--------|
| Septuagesima Sun...Feb. | 11 | Low Sunday.....Apr. | 22 |
| Sexagesima " " " | 18 | Rogation Sunday....May | 20 |
| Quinquagesima " " " | 25 | Ascension Thursday. " | 24 |
| Ash Wednesday | 28 | Whit-Sunday (Pent.) June | 3 |
| Quadragesima Sun...Mar. | 4 | Trinity " | 10 |
| Mid-Lent " " " | 25 | Corpus Christi..... " | 14 |
| Palm Sunday | Apr. 8 | Michaelmas.....Sept. | 29 |
| Good Friday | " 13 | Advent Sunday | Dec. 2 |
| Easter Sunday..... " | 15 | Christmas Day..... " | 25 |

CHRONOLOGICAL CYCLES.

| | | | |
|-------------------------|----|--------------------------|------|
| Dominical Letter..... | G | Roman Indiction | 13 |
| Epact..... | 29 | Julian Period | 6613 |
| Lunar Cycle (Gold. No.) | 1 | Dionysian Period..... | 229 |
| Solar Cycle | 5 | Jewish Lunar Cycle | 17 |

JANUARY, 1900

| MOON'S PHASES. | East. Time. | Cent. Time. | West. Time. |
|---------------------|-------------|--------------|--------------|
| New Moon... 1 D. | 8 h. 52 m. | 7 h. 52 m. | 6 h. 52 m. |
| First Quarter. 8 D. | 0 h. 40 m. | 11 h. 40 (7) | 10 h. 40 (7) |
| Full Moon... 15 D. | 2 h. 7 m. | 1 h. 7 m. | 0 h. 7 m. |
| Last Quarter. 23 D. | 6 h. 53 m. | 5 h. 53 m. | 4 h. 53 m. |
| New Moon... 30 D. | 8 h. 22 m. | 7 h. 22 m. | 6 h. 22 m. |

| New-York City, Phila., Conn., New Jersey, Penn., O., Ind., & Ill. | | | | D. OF MO. | D. OF WK. | Boston, New England, New-York, Mich., Wis., Iowa, and Oregon. | | | |
|---|----------|-----------|----------------------|-----------|-----------|---|-----------------------|-------|-------------|
| MEAN TIME. | | | STAN. TIME. | | | MEAN TIME. | | | STAN. TIME. |
| Sun rises | Sun sets | Moon sets | H. W. N. Y. Gov. Ia. | Sun rises | Sun sets | Moon sets | H. W. Boston. N. Yard | | |
| 7 25 | 4 43 | 5 8 | 8 26 | 1 | M. | 7 30 | 4 38 | 5 4 | 11 31 |
| 7 25 | 4 44 | 6 24 | 9 18 | 2 | T. | 7 30 | 4 39 | 6 20 | morn |
| 7 25 | 4 45 | 7 39 | 10 9 | 3 | W. | 7 30 | 4 40 | 7 36 | 20 |
| 7 25 | 4 46 | 8 53 | 10 52 | 4 | Th. | 7 30 | 4 41 | 8 52 | 1 11 |
| 7 25 | 4 47 | 10 6 | 11 41 | 5 | F. | 7 30 | 4 42 | 10 6 | 1 58 |
| 7 25 | 4 48 | 11 18 | morn | 6 | S. | 7 29 | 4 43 | 11 19 | 2 44 |
| 7 25 | 4 49 | morn | 32 | 7 | S. | 7 29 | 4 44 | morn | 3 34 |
| 7 24 | 4 50 | 27 | 1 26 | 8 | M. | 7 29 | 4 45 | 29 | 4 27 |
| 7 24 | 4 51 | 1 35 | 2 26 | 9 | T. | 7 29 | 4 46 | 1 39 | 5 28 |
| 7 24 | 4 52 | 2 42 | 3 27 | 10 | W. | 7 29 | 4 47 | 2 47 | 6 29 |
| 7 24 | 4 53 | 3 46 | 4 31 | 11 | Th. | 7 29 | 4 48 | 3 51 | 7 34 |
| 7 23 | 4 54 | 4 45 | 5 32 | 12 | F. | 7 28 | 4 50 | 4 50 | 8 35 |
| 7 23 | 4 55 | 5 38 | 6 28 | 13 | S. | 7 28 | 4 51 | 5 43 | 9 30 |
| 7 23 | 4 56 | 6 24 | 7 17 | 14 | S. | 7 28 | 4 52 | 6 29 | 10 20 |
| 7 22 | 4 57 | rises | 7 59 | 15 | M. | 7 27 | 4 53 | rises | 11 4 |
| 7 22 | 4 59 | 6 8 | 8 41 | 16 | T. | 7 27 | 4 54 | 6 5 | 11 44 |
| 7 21 | 5 0 | 7 8 | 9 20 | 17 | W. | 7 26 | 4 55 | 7 6 | ev. 22 |
| 7 21 | 5 1 | 8 5 | 9 57 | 18 | Th. | 7 26 | 4 56 | 8 4 | 59 |
| 7 21 | 5 2 | 9 2 | 10 33 | 19 | F. | 7 25 | 4 58 | 9 2 | 1 37 |
| 7 20 | 5 3 | 10 0 | 11 7 | 20 | S. | 7 24 | 4 59 | 10 1 | 2 12 |
| 7 19 | 5 4 | 10 58 | 11 46 | 21 | S. | 7 24 | 5 0 | 11 0 | 2 49 |
| 7 18 | 5 5 | 11 58 | ev. 28 | 22 | M. | 7 23 | 5 1 | morn | 3 30 |
| 7 17 | 5 7 | morn | 1 16 | 23 | T. | 7 22 | 5 3 | 1 | 4 17 |
| 7 17 | 5 8 | 1 0 | 2 9 | 24 | W. | 7 22 | 5 4 | 1 4 | 5 11 |
| 7 16 | 5 9 | 2 3 | 3 8 | 25 | Th. | 7 21 | 5 5 | 2 7 | 6 10 |
| 7 16 | 5 10 | 3 8 | 4 11 | 26 | F. | 7 20 | 5 6 | 3 12 | 7 17 |
| 7 15 | 5 11 | 4 7 | 5 18 | 27 | S. | 7 19 | 5 8 | 4 12 | 8 21 |
| 7 14 | 5 13 | 5 4 | 6 22 | 28 | S. | 7 18 | 5 9 | 5 8 | 9 24 |
| 7 13 | 5 14 | 5 54 | 7 19 | 29 | M. | 7 17 | 5 10 | 5 58 | 10 22 |
| 7 12 | 5 15 | 6 38 | 8 9 | 30 | T. | 7 16 | 5 12 | 6 41 | 11 14 |
| 7 12 | 5 16 | 7 15 | 8 59 | 31 | W. | 7 15 | 5 13 | 7 18 | morn |

Heavy figures, 12 noon to 12 midnight.

FEBRUARY, 1900

| MOON'S PHASES. | East. Time. | Cent. Time. | West. Time. |
|---------------------|-------------|-------------|-------------|
| First Quarter. 6 D. | 11 h. 23 m. | 10 h. 23 m. | 9 h. 23 m. |
| Full Moon... 14 D. | 8 h. 50 m. | 7 h. 50 m. | 6 h. 50 m. |
| Last Quarter. 22 D. | 11 h. 44 m. | 10 h. 44 m. | 9 h. 44 m. |

| New-York City, Phila., Conn., New Jersey, Penn., O., Ind., & Ill. | | | | D. OF MO. | D. OF WK. | Boston, New England, New-York, Mich., Wis., Iowa, and Oregon. | | | |
|---|----------|-----------|----------------------|-----------|-----------|---|-----------------------|-------|-------------|
| MEAN TIME. | | | STAN. TIME. | | | MEAN TIME. | | | STAN. TIME. |
| Sun rises | Sun sets | Moon sets | H. W. N. Y. Gov. Ia. | Sun rises | Sun sets | Moon sets | H. W. Boston. N. Yard | | |
| 7 11 | 5 18 | 7 38 | 9 45 | 1 | Th. | 7 14 | 5 14 | 7 37 | 1 |
| 7 10 | 5 19 | 8 58 | 10 31 | 2 | F. | 7 13 | 5 15 | 8 59 | 47 |
| 7 9 | 5 20 | 10 12 | 11 15 | 3 | S. | 7 12 | 5 16 | 10 14 | 1 35 |
| 7 7 | 5 21 | 11 24 | morn | 4 | S. | 7 11 | 5 18 | 11 27 | 2 21 |
| 7 6 | 5 22 | morn | 8 | 5 | M. | 7 10 | 5 19 | morn | 3 11 |
| 7 5 | 5 23 | 33 | 1 4 | 6 | T. | 7 9 | 5 21 | 37 | 4 5 |
| 7 4 | 5 25 | 1 38 | 2 1 | 7 | W. | 7 8 | 5 22 | 1 43 | 5 3 |
| 7 3 | 5 26 | 2 39 | 3 7 | 8 | Th. | 7 6 | 5 23 | 2 44 | 6 9 |
| 7 2 | 5 27 | 3 35 | 4 13 | 9 | F. | 7 5 | 5 24 | 3 40 | 7 16 |
| 7 1 | 5 28 | 4 22 | 5 14 | 10 | S. | 7 4 | 5 25 | 4 28 | 8 17 |
| 7 0 | 5 30 | 5 5 | 6 6 | 11 | S. | 7 2 | 5 26 | 5 9 | 9 8 |
| 6 58 | 5 31 | 5 40 | 6 54 | 12 | M. | 7 1 | 5 28 | 5 44 | 9 56 |
| 6 57 | 5 32 | 6 11 | 7 34 | 13 | T. | 7 0 | 5 29 | 6 14 | 10 39 |
| 6 56 | 5 34 | rises | 8 9 | 14 | W. | 6 59 | 5 30 | rises | 11 15 |
| 6 55 | 5 35 | 6 55 | 8 49 | 15 | Th. | 6 57 | 5 32 | 6 55 | 11 52 |
| 6 53 | 5 36 | 7 53 | 9 24 | 16 | F. | 6 56 | 5 33 | 7 53 | ev. 26 |
| 6 52 | 5 37 | 8 50 | 9 59 | 17 | S. | 6 54 | 5 35 | 8 51 | 1 1 |
| 6 51 | 5 39 | 9 49 | 10 31 | 18 | S. | 6 53 | 5 36 | 9 52 | 1 37 |
| 6 49 | 5 40 | 10 49 | 11 11 | 19 | M. | 6 52 | 5 38 | 10 53 | 2 18 |
| 6 48 | 5 41 | 11 51 | 11 54 | 20 | T. | 6 50 | 5 39 | 11 55 | 2 57 |
| 6 46 | 5 43 | morn | ev. 13 | 21 | W. | 6 48 | 5 40 | morn | 3 44 |
| 6 45 | 5 44 | 52 | 1 39 | 22 | Th. | 6 47 | 5 42 | 57 | 4 40 |
| 6 44 | 5 45 | 1 51 | 2 43 | 23 | F. | 6 45 | 5 43 | 1 56 | 5 45 |
| 6 42 | 5 46 | 2 49 | 3 48 | 24 | S. | 6 44 | 5 45 | 2 54 | 6 51 |
| 6 41 | 5 48 | 3 40 | 4 55 | 25 | S. | 6 42 | 5 46 | 3 45 | 8 0 |
| 6 39 | 5 49 | 4 25 | 6 0 | 26 | M. | 6 41 | 5 47 | 4 30 | 9 2 |
| 6 38 | 5 50 | 5 6 | 6 57 | 27 | T. | 6 39 | 5 49 | 5 9 | 9 59 |
| 6 37 | 5 51 | 5 42 | 7 44 | 28 | W. | 6 38 | 5 50 | 5 44 | 10 50 |

MARCH, 1900

| MOON'S PHASES. | East. Time. | Cent. Time. | West. Time. |
|---------------------|-------------|---------------|---------------|
| New Moon... 1 D. | 6 h. 25 m. | 5 h. 25 m. | 4 h. 25 m. |
| First Quarter. 8 D. | 0 h. 34 m. | 11 h. 34 (7) | 10 h. 34 (7) |
| Full Moon... 16 D. | 3 h. 12 m. | 2 h. 12 m. | 1 h. 12 m. |
| Last Quarter. 24 D. | 0 h. 36 m. | 11 h. 36 (23) | 10 h. 36 (23) |
| New Moon... 30 D. | 3 h. 30 m. | 2 h. 30 m. | 1 h. 30 m. |

| New-York City, Phila., Conn., New Jersey, Penn., O., Ind., & Ill. | | | | D. OF MO. | D. OF WK. | Boston, New England, New-York, Mich., Wis., Iowa, and Oregon. | | | |
|---|----------|-----------|----------------------|-----------|-----------|---|-----------------------|-------|-------------|
| MEAN TIME. | | | STAN. TIME. | | | MEAN TIME. | | | STAN. TIME. |
| Sun rises | Sun sets | Moon sets | H. W. N. Y. Gov. Is. | Sun rises | Sun sets | Moon sets | H. W. Boston. N. Yard | | |
| 6 35 | 5 53 | 6 31 | 8 33 | 1 | Th. | 6 36 | 5 51 | 6 31 | 11 38 |
| 6 34 | 5 53 | 7 49 | 9 21 | 2 | F. | 6 35 | 5 52 | 7 49 | morn |
| 6 32 | 5 54 | 9 1 | 10 6 | 3 | S. | 6 33 | 5 53 | 9 4 | 23 |
| 6 30 | 5 55 | 10 14 | 10 53 | 4 | S. | 6 31 | 5 54 | 10 17 | 1 11 |
| 6 29 | 5 56 | 11 25 | 11 46 | 5 | M. | 6 30 | 5 55 | 11 29 | 1 59 |
| 6 27 | 5 57 | morn | morn | 6 | T. | 6 28 | 5 56 | morn | 2 49 |
| 6 25 | 5 58 | 29 | 42 | 7 | W. | 6 26 | 5 57 | 35 | 3 43 |
| 6 24 | 5 59 | 1 28 | 1 42 | 8 | Th. | 6 25 | 5 58 | 1 33 | 4 43 |
| 6 22 | 6 0 | 2 21 | 2 46 | 9 | F. | 6 23 | 5 59 | 2 25 | 5 48 |
| 6 20 | 6 1 | 3 3 | 3 46 | 10 | S. | 6 21 | 6 0 | 3 8 | 6 49 |
| 6 19 | 6 2 | 3 42 | 4 43 | 11 | S. | 6 20 | 6 2 | 3 46 | 7 46 |
| 6 17 | 6 3 | 4 14 | 5 37 | 12 | M. | 6 18 | 6 3 | 4 17 | 8 40 |
| 6 16 | 6 4 | 4 42 | 6 23 | 13 | T. | 6 16 | 6 4 | 4 43 | 9 25 |
| 6 14 | 6 5 | 5 9 | 7 4 | 14 | W. | 6 14 | 6 5 | 5 10 | 10 6 |
| 6 12 | 6 6 | 5 33 | 7 39 | 15 | Th. | 6 13 | 6 6 | 5 33 | 10 44 |
| 6 11 | 6 8 | rises | 8 12 | 16 | F. | 6 11 | 6 7 | rises | 11 18 |
| 6 9 | 6 9 | 7 43 | 8 51 | 17 | S. | 6 9 | 6 9 | 7 45 | 11 55 |
| 6 7 | 6 10 | 8 41 | 9 28 | 18 | S. | 6 7 | 6 10 | 8 44 | ev. 30 |
| 6 6 | 6 11 | 9 42 | 10 6 | 19 | M. | 6 6 | 6 11 | 9 46 | 1 8 |
| 6 4 | 6 12 | 10 43 | 10 44 | 20 | T. | 6 4 | 6 12 | 10 47 | 1 50 |
| 6 2 | 6 13 | 11 42 | 11 28 | 21 | W. | 6 2 | 6 13 | 11 48 | 2 38 |
| 6 1 | 6 14 | morn | ev. 20 | 22 | Th. | 6 0 | 6 14 | morn | 3 22 |
| 5 59 | 6 15 | 38 | 1 18 | 23 | F. | 5 59 | 6 15 | 43 | 4 19 |
| 5 58 | 6 16 | 1 31 | 2 20 | 24 | S. | 5 57 | 6 16 | 1 36 | 5 22 |
| 5 56 | 6 17 | 2 17 | 3 27 | 25 | S. | 5 55 | 6 17 | 2 21 | 6 29 |
| 5 54 | 6 18 | 2 58 | 4 34 | 26 | M. | 5 53 | 6 18 | 3 1 | 7 37 |
| 5 52 | 6 19 | 3 35 | 5 35 | 27 | T. | 5 52 | 6 19 | 3 38 | 8 38 |
| 5 51 | 6 20 | 4 9 | 6 32 | 28 | W. | 5 50 | 6 20 | 4 10 | 9 34 |
| 5 49 | 6 21 | 4 43 | 7 22 | 29 | Th. | 5 48 | 6 21 | 4 43 | 10 26 |
| 5 47 | 6 22 | 5 16 | 8 9 | 30 | F. | 5 46 | 6 22 | 5 15 | 11 14 |
| 5 45 | 6 23 | 5 52 | 8 57 | 31 | S. | 5 44 | 6 23 | 5 50 | 11 59 |

* APRIL, 1900 *

| MOON'S PHASES. | East. Time. | Cent. Time. | West. Time. |
|---------------------|-------------|---------------|---------------|
| First Quarter. 6 D. | 3 h. 54 m. | 2 h. 54 m. | 1 h. 54 m. |
| Full Moon... 14 D. | 8 h. 2 m. | 7 h. 2 m. | 6 h. 2 m. |
| Last Quarter. 22 D. | 9 h. 33 m. | 8 h. 33 m. | 7 h. 33 m. |
| New Moon... 29 D. | 0 h. 23 m. | 11 h. 23 (28) | 10 h. 23 (28) |

| New-York City, Phila., Conn., New Jersey, Penn., O., Ind., & Ill. | | | | D. OF MO. | D. OF WK. | Boston, New England, New-York, Mich., Wis., Iowa, and Oregon. | | | |
|---|----------|-----------|----------------------|-----------|-----------|---|-----------------------|-------|-------------|
| MEAN TIME. | | | STAN. TIME. | | | MEAN TIME. | | | STAN. TIME. |
| Sun rises | Sun sets | Moon sets | H. W. N. Y. Gov. Is. | Sun rises | Sun sets | Moon sets | H. W. Boston. N. Yard | | |
| 5 44 | 6 24 | 9 2 | 9 46 | 1 | S. | 5 43 | 6 25 | 9 6 | morn |
| 5 42 | 6 26 | 10 11 | 10 32 | 2 | M. | 5 41 | 6 27 | 10 15 | 48 |
| 5 41 | 6 27 | 11 15 | 11 24 | 3 | T. | 5 40 | 6 28 | 11 19 | 1 38 |
| 5 39 | 6 28 | morn | morn | 4 | W. | 5 38 | 6 29 | morn | 2 32 |
| 5 37 | 6 29 | 12 | 21 | 5 | Th. | 5 36 | 6 30 | 16 | 3 23 |
| 5 36 | 6 30 | 58 | 1 18 | 6 | F. | 5 35 | 6 31 | 1 3 | 4 19 |
| 5 34 | 6 31 | 1 38 | 2 15 | 7 | S. | 5 33 | 6 32 | 1 43 | 5 17 |
| 5 33 | 6 32 | 2 14 | 3 11 | 8 | S. | 5 31 | 6 33 | 2 18 | 6 13 |
| 5 31 | 6 33 | 2 44 | 4 5 | 9 | M. | 5 30 | 6 34 | 2 46 | 7 8 |
| 5 30 | 6 34 | 3 10 | 4 55 | 10 | T. | 5 28 | 6 36 | 3 11 | 7 59 |
| 5 28 | 6 35 | 3 36 | 5 42 | 11 | W. | 5 26 | 6 37 | 3 37 | 8 45 |
| 5 26 | 6 36 | 4 1 | 6 25 | 12 | Th. | 5 25 | 6 38 | 4 1 | 9 27 |
| 5 25 | 6 37 | 4 27 | 7 6 | 13 | F. | 5 23 | 6 39 | 4 26 | 10 8 |
| 5 24 | 6 38 | rises | 7 42 | 14 | S. | 5 21 | 6 40 | rises | 10 47 |
| 5 22 | 6 39 | 7 35 | 8 18 | 15 | S. | 5 20 | 6 41 | 7 39 | 11 24 |
| 5 20 | 6 40 | 8 36 | 9 1 | 16 | M. | 5 18 | 6 42 | 8 41 | ev. 3 |
| 5 19 | 6 41 | 9 37 | 9 42 | 17 | T. | 5 16 | 6 43 | 9 42 | 44 |
| 5 17 | 6 42 | 10 35 | 10 25 | 18 | W. | 5 15 | 6 45 | 10 39 | 1 29 |
| 5 16 | 6 43 | 11 27 | 11 12 | 19 | Th. | 5 13 | 6 46 | 11 33 | 2 17 |
| 5 14 | 6 44 | morn | ev. 5 | 20 | F. | 5 12 | 6 47 | morn | 3 8 |
| 5 13 | 6 45 | 13 | 1 2 | 21 | S. | 5 10 | 6 48 | 17 | 4 3 |
| 5 11 | 6 46 | 56 | 2 0 | 22 | S. | 5 9 | 6 49 | 59 | 5 2 |
| 5 10 | 6 47 | 1 32 | 3 5 | 23 | M. | 5 7 | 6 50 | 1 35 | 6 7 |
| 5 8 | 6 48 | 2 9 | 4 7 | 24 | T. | 5 6 | 6 51 | 2 10 | 7 10 |
| 5 7 | 6 49 | 2 41 | 5 8 | 25 | W. | 5 4 | 6 52 | 2 42 | 8 11 |
| 5 6 | 6 50 | 3 12 | 6 5 | 26 | Th. | 5 3 | 6 53 | 3 11 | 9 7 |
| 5 5 | 6 51 | 3 35 | 6 59 | 27 | F. | 5 1 | 6 55 | 3 33 | 10 1 |
| 5 3 | 6 52 | 4 21 | 7 45 | 28 | S. | 5 0 | 6 56 | 4 18 | 10 51 |
| 5 2 | 6 53 | sets | 8 37 | 29 | S. | 4 58 | 6 57 | sets | 11 42 |
| 5 0 | 6 55 | 8 55 | 9 28 | 30 | M. | 4 57 | 6 58 | 9 0 | morn |

* MAY, 1900 *

| MOON'S PHASES. | East. Time. | Cent. Time. | West. Time. |
|---------------------|-------------|-------------|-------------|
| First Quarter. 6 D. | 8 h. 39 m. | 7 h. 39 m. | 6 h. 39 m. |
| Full Moon...14 D. | 10 h. 36 m. | 9 h. 36 m. | 8 h. 36 m. |
| Last Quarter. 21 D. | 3 h. 31 m. | 2 h. 31 m. | 1 h. 31 m. |
| New Moon...28 D. | 9 h. 50 m. | 8 h. 50 m. | 7 h. 50 m. |

New-York City,
Phila., Conn., New Jersey,
Penn., O., Ind., & Ill.

| MEAN TIME. | | | STAN. TIME. | D. OF MO. | D. OF WK. |
|------------|----------|-----------|----------------------|-----------|-----------|
| Sun rises | Sun sets | Moon sets | H. W. N. Y. Gov. Is. | | |
| 4 59 | 6 56 | 9 57 | 10 17 | 1 | T. |
| 4 58 | 6 57 | 10 49 | 11 4 | 2 | W. |
| 4 56 | 6 58 | 11 34 | 11 55 | 3 | Th. |
| 4 55 | 6 59 | morn | morn | 4 | F. |
| 4 54 | 7 0 | 12 | 46 | 5 | S. |
| 4 53 | 7 1 | 44 | 1 38 | 6 | S. |
| 4 52 | 7 2 | 1 13 | 2 29 | 7 | M. |
| 4 51 | 7 3 | 1 39 | 3 20 | 8 | T. |
| 4 49 | 7 4 | 2 4 | 4 7 | 9 | W. |
| 4 48 | 7 5 | 2 29 | 4 55 | 10 | Th. |
| 4 47 | 7 6 | 2 55 | 5 43 | 11 | F. |
| 4 46 | 7 7 | 3 24 | 6 29 | 12 | S. |
| 4 45 | 7 8 | 3 56 | 7 12 | 13 | S. |
| 4 44 | 7 9 | rises | 7 53 | 14 | M. |
| 4 43 | 7 10 | 8 27 | 8 42 | 15 | T. |
| 4 42 | 7 11 | 9 22 | 9 25 | 16 | W. |
| 4 41 | 7 12 | 10 18 | 10 11 | 17 | Th. |
| 4 40 | 7 13 | 10 56 | 10 58 | 18 | F. |
| 4 39 | 7 14 | 11 34 | 11 50 | 19 | S. |
| 4 39 | 7 15 | morn | ev. 44 | 20 | S. |
| 4 38 | 7 16 | 8 | 1 40 | 21 | M. |
| 4 37 | 7 17 | 40 | 2 38 | 22 | T. |
| 4 36 | 7 18 | 1 12 | 3 41 | 23 | W. |
| 4 36 | 7 19 | 1 43 | 4 40 | 24 | Th. |
| 4 35 | 7 20 | 2 17 | 5 41 | 25 | F. |
| 4 34 | 7 20 | 2 55 | 6 38 | 26 | S. |
| 4 34 | 7 21 | 3 38 | 7 31 | 27 | S. |
| 4 33 | 7 22 | sets | 8 18 | 28 | M. |
| 4 32 | 7 23 | 8 36 | 9 11 | 29 | T. |
| 4 32 | 7 23 | 9 25 | 9 57 | 30 | W. |
| 4 31 | 7 24 | 10 8 | 10 40 | 31 | Th. |

Boston, New England,
New-York, Mich., Wis.,
Iowa, and Oregon.

| MEAN TIME. | | | STAN. TIME. | D. OF MO. | D. OF WK. |
|------------|----------|-----------|-----------------------|-----------|-----------|
| Sun rises | Sun sets | Moon sets | H. W. Boston. N. Yard | | |
| 4 56 | 7 0 | 10 1 | 30 | | |
| 4 54 | 7 1 | 10 54 | 1 20 | | |
| 4 53 | 7 2 | 11 39 | 2 9 | | |
| 4 52 | 7 3 | morn | 2 58 | | |
| 4 51 | 7 4 | 16 | 3 47 | | |
| 4 49 | 7 5 | 47 | 4 39 | | |
| 4 48 | 7 6 | 1 15 | 5 31 | | |
| 4 47 | 7 7 | 1 40 | 6 22 | | |
| 4 46 | 7 8 | 2 4 | 7 10 | | |
| 4 44 | 7 9 | 2 28 | 7 59 | | |
| 4 43 | 7 10 | 2 53 | 8 46 | | |
| 4 42 | 7 11 | 3 21 | 9 31 | | |
| 4 41 | 7 12 | 3 52 | 10 15 | | |
| 4 40 | 7 13 | rises | 10 59 | | |
| 4 39 | 7 14 | 8 33 | 11 44 | | |
| 4 38 | 7 15 | 9 28 | ev. 27 | | |
| 4 37 | 7 16 | 10 17 | 1 14 | | |
| 4 36 | 7 17 | 11 0 | 2 3 | | |
| 4 35 | 7 18 | 11 37 | 2 53 | | |
| 4 34 | 7 19 | morn | 3 45 | | |
| 4 33 | 7 20 | 10 | 4 41 | | |
| 4 32 | 7 21 | 41 | 5 40 | | |
| 4 31 | 7 22 | 1 12 | 6 44 | | |
| 4 31 | 7 23 | 1 41 | 7 45 | | |
| 4 30 | 7 24 | 2 15 | 8 44 | | |
| 4 29 | 7 25 | 2 52 | 9 40 | | |
| 4 29 | 7 26 | 3 34 | 10 35 | | |
| 4 28 | 7 27 | sets | 11 24 | | |
| 4 27 | 7 28 | 8 42 | morn | | |
| 4 27 | 7 28 | 9 30 | 12 | | |
| 4 26 | 7 29 | 10 12 | 59 | | |

* JUNE, 1900 *

| MOON'S PHASES. | East. Time. | Cent. Time. | West. Time. |
|---------------------|-------------|-------------|--------------|
| First Quarter. 5 D. | 1 h. 58 m. | 0 h. 58 m. | 11 h. 58 (4) |
| Full Moon...12 D. | 10 h. 38 m. | 9 h. 38 m. | 8 h. 38 m. |
| Last Quarter. 19 D. | 7 h. 57 m. | 6 h. 57 m. | 5 h. 57 m. |
| New Moon...26 D. | 8 h. 27 m. | 7 h. 27 m. | 6 h. 27 m. |

New-York City,
Phila., Conn., New Jersey,
Penn., O., Ind., & Ill.

| MEAN TIME. | | | STAN. TIME. | D. OF MO. | D. OF WK. |
|------------|----------|-----------|----------------------|-----------|-----------|
| Sun rises | Sun sets | Moon sets | H. W. N. Y. Gov. Is. | | |
| 4 31 | 7 24 | 10 42 | 11 24 | 1 | F. |
| 4 30 | 7 25 | 11 18 | morn | 2 | S. |
| 4 30 | 7 26 | 11 41 | 10 | 3 | S. |
| 4 30 | 7 26 | morn | 54 | 4 | M. |
| 4 29 | 7 27 | 6 | 1 41 | 5 | T. |
| 4 29 | 7 28 | 31 | 2 29 | 6 | W. |
| 4 29 | 7 28 | 57 | 3 19 | 7 | Th. |
| 4 29 | 7 29 | 1 24 | 4 8 | 8 | F. |
| 4 28 | 7 30 | 1 54 | 5 0 | 9 | S. |
| 4 28 | 7 30 | 2 29 | 5 54 | 10 | S. |
| 4 28 | 7 31 | 3 8 | 6 44 | 11 | M. |
| 4 28 | 7 31 | rises | 7 32 | 12 | T. |
| 4 28 | 7 32 | 8 8 | 8 19 | 13 | W. |
| 4 28 | 7 32 | 8 54 | 9 11 | 14 | Th. |
| 4 28 | 7 32 | 9 33 | 9 58 | 15 | F. |
| 4 28 | 7 33 | 10 10 | 10 44 | 16 | S. |
| 4 28 | 7 33 | 10 48 | 11 31 | 17 | S. |
| 4 28 | 7 33 | 11 15 | ev. 23 | 18 | M. |
| 4 28 | 7 34 | 1 18 | 1 18 | 19 | T. |
| 4 29 | 7 34 | morn | 2 14 | 20 | W. |
| 4 29 | 7 34 | 18 | 3 14 | 21 | Th. |
| 4 29 | 7 34 | 54 | 4 19 | 22 | F. |
| 4 29 | 7 34 | 1 34 | 5 13 | 23 | S. |
| 4 29 | 7 34 | 2 19 | 6 22 | 24 | S. |
| 4 30 | 7 35 | 3 9 | 7 16 | 25 | M. |
| 4 30 | 7 35 | 4 8 | 8 3 | 26 | T. |
| 4 30 | 7 35 | sets | 8 51 | 27 | W. |
| 4 31 | 7 35 | 8 40 | 9 34 | 28 | Th. |
| 4 31 | 7 35 | 9 14 | 10 14 | 29 | F. |
| 4 32 | 7 35 | 9 42 | 10 51 | 30 | S. |

Boston, New England,
New-York, Mich., Wis.,
Iowa, and Oregon.

| MEAN TIME. | | | STAN. TIME. | D. OF MO. | D. OF WK. |
|------------|----------|-----------|-----------------------|-----------|-----------|
| Sun rises | Sun sets | Moon sets | H. W. Boston. N. Yard | | |
| 4 25 | 7 30 | 10 46 | 1 46 | | |
| 4 25 | 7 30 | 11 16 | 2 30 | | |
| 4 25 | 7 31 | 11 43 | 3 13 | | |
| 4 24 | 7 32 | morn | 3 55 | | |
| 4 24 | 7 32 | 6 | 4 42 | | |
| 4 24 | 7 33 | 30 | 5 31 | | |
| 4 23 | 7 33 | 55 | 6 21 | | |
| 4 23 | 7 34 | 1 21 | 7 11 | | |
| 4 23 | 7 35 | 1 51 | 7 54 | | |
| 4 23 | 7 36 | 2 24 | 8 56 | | |
| 4 22 | 7 36 | 3 3 | 9 46 | | |
| 4 22 | 7 37 | rises | 10 37 | | |
| 4 22 | 7 37 | 8 13 | 11 25 | | |
| 4 22 | 7 38 | 8 59 | ev. 12 | | |
| 4 22 | 7 38 | 9 36 | 1 0 | | |
| 4 22 | 7 38 | 10 12 | 1 42 | | |
| 4 22 | 7 39 | 10 44 | 2 35 | | |
| 4 22 | 7 39 | 11 15 | 3 25 | | |
| 4 22 | 7 39 | 11 44 | 4 18 | | |
| 4 23 | 7 40 | morn | 5 16 | | |
| 4 23 | 7 40 | 16 | 6 16 | | |
| 4 23 | 7 40 | 50 | 7 22 | | |
| 4 23 | 7 40 | 1 29 | 8 26 | | |
| 4 23 | 7 40 | 2 14 | 9 24 | | |
| 4 24 | 7 41 | 3 5 | 10 19 | | |
| 4 24 | 7 41 | 4 2 | 11 8 | | |
| 4 24 | 7 41 | sets | 11 54 | | |
| 4 25 | 7 40 | 8 44 | morn | | |
| 4 25 | 7 40 | 9 16 | 36 | | |
| 4 26 | 7 40 | 9 44 | 1 17 | | |

* JULY, 1900 *

| MOON'S PHASES. | East. Time. | Cent. Time. | West. Time. |
|---------------------|-------------|---------------|---------------|
| First Quarter. 4 D. | 7 h. 13 m. | 6 h. 13 m. | 5 h. 13 m. |
| Full Moon...12 D. | 8 h. 22 m. | 7 h. 22 m. | 6 h. 22 m. |
| Last Quarter. 19 D. | 0 h. 31 m. | 11 h. 31 (18) | 10 h. 31 (18) |
| New Moon...26 D. | 8 h. 43 m. | 7 h. 43 m. | 6 h. 43 m. |

New-York City,
Phila., Conn., New Jersey,
Penn., O., Ind., & Ill.

Boston, New England,
New-York, Mich., Wis.,
Iowa, and Oregon.

| MEAN TIME. | | | STAN. TIME. | D. OF MO. | D. OF WK. | MEAN TIME. | | | STAN. TIME. |
|------------|----------|-----------|----------------------|-----------|-----------|------------|----------|-----------|-----------------------|
| Sun rises | Sun sets | Moon sets | H. W. N. Y. Gov. Is. | | | Sun rises | Sun sets | Moon sets | H. W. Boston. N. Yard |
| 4 32 | 7 35 | 10 7 | 11 30 | 1 | S. | 4 26 | 7 40 | 10 9 | 1 57 |
| 4 32 | 7 35 | 10 34 | morn | 2 | M. | 4 26 | 7 40 | 10 34 | 2 34 |
| 4 33 | 7 34 | 10 59 | 12 | 3 | T. | 4 27 | 7 40 | 10 57 | 3 14 |
| 4 33 | 7 34 | 11 25 | 54 | 4 | W. | 4 28 | 7 40 | 11 28 | 3 55 |
| 4 34 | 7 34 | 11 53 | 1 41 | 5 | Th. | 4 29 | 7 39 | 11 50 | 4 42 |
| 4 35 | 7 34 | morn | 2 31 | 6 | F. | 4 29 | 7 39 | morn | 5 33 |
| 4 35 | 7 33 | 24 | 3 25 | 7 | S. | 4 30 | 7 39 | 21 | 6 27 |
| 4 36 | 7 33 | 1 2 | 4 23 | 8 | S. | 4 30 | 7 38 | 58 | 7 26 |
| 4 37 | 7 33 | 1 47 | 5 24 | 9 | M. | 4 31 | 7 38 | 1 42 | 8 27 |
| 4 37 | 7 32 | 2 37 | 6 21 | 10 | T. | 4 32 | 7 38 | 2 33 | 9 23 |
| 4 38 | 7 32 | 3 40 | 7 15 | 11 | W. | 4 33 | 7 37 | 3 35 | 10 18 |
| 4 39 | 7 31 | rises | 8 3 | 12 | Th. | 4 33 | 7 37 | rises | 11 8 |
| 4 39 | 7 31 | 8 10 | 8 53 | 13 | F. | 4 34 | 7 36 | 8 13 | 11 55 |
| 4 40 | 7 30 | 8 45 | 9 42 | 14 | S. | 4 35 | 7 36 | 8 47 | ev. 14 |
| 4 41 | 7 30 | 9 17 | 10 25 | 15 | S. | 4 36 | 7 35 | 9 17 | 1 29 |
| 4 42 | 7 29 | 9 50 | 11 11 | 16 | M. | 4 37 | 7 34 | 9 49 | 2 16 |
| 4 43 | 7 29 | 10 21 | ev. 1 | 17 | T. | 4 37 | 7 34 | 10 20 | 3 4 |
| 4 44 | 7 28 | 10 56 | 53 | 18 | W. | 4 38 | 7 33 | 10 53 | 3 54 |
| 4 44 | 7 27 | 11 34 | 1 52 | 19 | Th. | 4 39 | 7 32 | 11 31 | 4 54 |
| 4 45 | 7 26 | morn | 2 55 | 20 | F. | 4 40 | 7 31 | morn | 5 57 |
| 4 46 | 7 26 | 17 | 4 2 | 21 | S. | 4 41 | 7 30 | 13 | 7 5 |
| 4 47 | 7 25 | 1 5 | 5 7 | 22 | S. | 4 42 | 7 30 | 1 0 | 8 0 |
| 4 48 | 7 24 | 2 0 | 6 6 | 23 | M. | 4 43 | 7 29 | 1 54 | 9 8 |
| 4 48 | 7 23 | 2 58 | 7 0 | 24 | T. | 4 44 | 7 28 | 2 53 | 10 2 |
| 4 49 | 7 23 | 3 57 | 7 45 | 25 | W. | 4 45 | 7 27 | 3 53 | 10 50 |
| 4 50 | 7 22 | sets | 8 25 | 26 | Th. | 4 46 | 7 26 | sets | 11 29 |
| 4 51 | 7 21 | 7 44 | 9 6 | 27 | F. | 4 47 | 7 25 | 7 46 | morn |
| 4 52 | 7 20 | 8 12 | 9 42 | 28 | S. | 4 48 | 7 24 | 8 18 | 7 |
| 4 53 | 7 19 | 8 36 | 10 19 | 29 | S. | 4 49 | 7 23 | 8 36 | 44 |
| 4 54 | 7 18 | 9 2 | 10 52 | 30 | M. | 4 50 | 7 22 | 9 1 | 1 22 |
| 4 55 | 7 17 | 9 26 | 11 31 | 31 | T. | 4 51 | 7 21 | 9 25 | 1 58 |

AUGUST, 1900

| MOON'S PHASES. | East. Time. | Cent. Time. | West. Time. |
|---------------------|-------------|-------------|-------------|
| First Quarter. 3 D. | 11 h. 45 m. | 10 h. 45 m. | 9 h. 45 m. |
| Full Moon...10 D. | 4 h. 30 m. | 3 h. 30 m. | 2 h. 30 m. |
| Last Quarter. 17 D. | 6 h. 46 m. | 5 h. 46 m. | 4 h. 46 m. |
| New Moon...24 D. | 10 h. 52 m. | 9 h. 52 m. | 8 h. 52 m. |

New-York City,
Phila., Conn., New Jersey,
Penn., O., Ind., & Ill.

Boston, New England,
New-York, Mich., Wis.,
Iowa, and Oregon.

| MEAN TIME. | | | STAN. TIME. | D. OF MO. | D. OF WK. | MEAN TIME. | | | STAN. TIME. |
|------------|----------|-----------|----------------------|-----------|-----------|------------|----------|-----------|-----------------------|
| Sun rises | Sun sets | Moon sets | H. W. N. Y. Gov. Is. | | | Sun rises | Sun sets | Moon sets | H. W. Boston. N. Yard |
| 4 56 | 7 16 | 9 55 | morn | 1 | W. | 4 52 | 7 20 | 9 52 | 2 35 |
| 4 57 | 7 14 | 10 14 | 13 | 2 | Tp. | 4 53 | 7 18 | 10 11 | 3 15 |
| 4 58 | 7 13 | 10 58 | 1 0 | 3 | F. | 4 54 | 7 17 | 10 54 | 4 1 |
| 4 59 | 7 12 | 11 39 | 1 50 | 4 | S. | 4 55 | 7 16 | 11 34 | 4 52 |
| 5 0 | 7 11 | morn | 2 49 | 5 | S. | 4 56 | 7 15 | morn | 5 51 |
| 5 1 | 7 10 | 25 | 3 50 | 6 | M. | 4 57 | 7 14 | 21 | 6 53 |
| 5 2 | 7 9 | 1 26 | 4 55 | 7 | T. | 4 58 | 7 12 | 1 18 | 7 59 |
| 5 3 | 7 7 | 2 25 | 5 58 | 8 | W. | 4 59 | 7 11 | 2 21 | 9 0 |
| 5 4 | 7 6 | 3 34 | 6 55 | 9 | Th. | 5 0 | 7 10 | 3 31 | 9 57 |
| 5 5 | 7 5 | rises | 7 45 | 10 | F. | 5 1 | 7 8 | rises | 10 50 |
| 5 6 | 7 4 | 7 16 | 8 32 | 11 | S. | 5 2 | 7 7 | 7 17 | 11 37 |
| 5 7 | 7 2 | 7 49 | 9 19 | 12 | S. | 5 3 | 7 6 | 7 49 | ev. 21 |
| 5 8 | 7 1 | 8 23 | 10 7 | 13 | M. | 5 4 | 7 4 | 8 22 | 1 9 |
| 5 9 | 7 0 | 8 58 | 10 49 | 14 | T. | 5 5 | 7 3 | 8 55 | 1 55 |
| 5 10 | 6 58 | 9 34 | 11 40 | 15 | W. | 5 6 | 7 1 | 9 31 | 2 44 |
| 5 11 | 6 57 | 10 17 | ev. 34 | 16 | Th. | 5 7 | 7 0 | 10 12 | 3 36 |
| 5 12 | 6 55 | 11 5 | 1 36 | 17 | F. | 5 8 | 6 58 | 11 0 | 4 37 |
| 5 13 | 6 54 | 11 57 | 2 42 | 18 | S. | 5 10 | 6 57 | 11 51 | 5 44 |
| 5 14 | 6 53 | morn | 3 46 | 19 | S. | 5 11 | 6 55 | morn | 6 49 |
| 5 15 | 6 51 | 51 | 4 49 | 20 | M. | 5 12 | 6 54 | 46 | 7 53 |
| 5 16 | 6 50 | 1 50 | 5 46 | 21 | T. | 5 13 | 6 52 | 1 45 | 8 49 |
| 5 16 | 6 48 | 2 50 | 6 37 | 22 | W. | 5 14 | 6 51 | 2 46 | 9 39 |
| 5 17 | 6 47 | 3 51 | 7 20 | 23 | Th. | 5 15 | 6 49 | 3 48 | 10 23 |
| 5 18 | 6 45 | 4 52 | 7 59 | 24 | F. | 5 16 | 6 48 | 4 50 | 11 5 |
| 5 19 | 6 44 | sets | 8 33 | 25 | S. | 5 17 | 6 46 | sets | 11 38 |
| 5 20 | 6 42 | 7 7 | 9 11 | 26 | S. | 5 18 | 6 44 | 7 7 | morn |
| 5 21 | 6 41 | 7 32 | 9 45 | 27 | M. | 5 19 | 6 43 | 7 31 | 12 |
| 5 22 | 6 39 | 7 59 | 10 19 | 28 | T. | 5 20 | 6 41 | 7 57 | 47 |
| 5 23 | 6 37 | 8 27 | 10 57 | 29 | W. | 5 21 | 6 39 | 8 24 | 1 23 |
| 5 24 | 6 36 | 9 0 | 11 39 | 30 | Th. | 5 22 | 6 38 | 8 56 | 2 3 |
| 5 25 | 6 34 | 9 36 | morn | 31 | F. | 5 23 | 6 36 | 9 32 | 2 43 |

SEPTEMBER, 1900

| MOON'S PHASES. | East. Time. | Cent. Time. | West. Time. |
|---------------------|-------------|-------------|-------------|
| First Quarter. 2 D. | 2 h. 56 m. | 1 h. 56 m. | 0 h. 56 m. |
| Full Moon... 9 D. | 0 h. 6 m. | 11 h. 6 (8) | 10 h. 6 (8) |
| Last Quarter. 15 D. | 3 h. 57 m. | 2 h. 57 m. | 1 h. 57 m. |
| New Moon... 23 D. | 2 h. 57 m. | 1 h. 57 m. | 0 h. 57 m. |

New-York City, Phila., Conn., New Jersey, Penn., O., Ind., & Ill.

Boston, New England, New-York, Mich., Wis., Iowa, and Oregon.

| MEAN TIME. | | | STAN. TIME. | D. OF MO. | D. OF WK. | MEAN TIME. | | | STAN. TIME. |
|------------|----------|-----------|----------------------|-----------|-----------|-----------------------|------|-------|-------------|
| Sun rises | Sun sets | Moon sets | H. W. N. Y. Gov. Is. | | | H. W. Boston. N. Yard | | | |
| 5 26 | 6 33 | 10 20 | 26 | 1 | S. | 5 24 | 6 35 | 10 15 | 3 28 |
| 5 27 | 6 31 | 11 11 | 1 20 | 2 | S. | 5 26 | 6 33 | 11 6 | 4 21 |
| 5 28 | 6 29 | morn | 2 18 | 3 | M. | 5 27 | 6 31 | morn | 5 20 |
| 5 29 | 6 28 | 8 | 3 24 | 4 | T. | 5 28 | 6 29 | 3 | 6 34 |
| 5 30 | 6 26 | 1 12 | 4 30 | 5 | W. | 5 29 | 6 28 | 1 8 | 7 33 |
| 5 31 | 6 25 | 2 22 | 5 33 | 6 | Th. | 5 30 | 6 26 | 2 19 | 8 36 |
| 5 32 | 6 23 | 3 35 | 6 31 | 7 | F. | 5 31 | 6 24 | 3 32 | 9 33 |
| 5 33 | 6 21 | 4 39 | 7 22 | 8 | S. | 5 32 | 6 22 | 4 37 | 10 26 |
| 5 34 | 6 20 | rises | 8 9 | 9 | S. | 5 33 | 6 21 | rises | 11 14 |
| 5 35 | 6 18 | 6 55 | 8 56 | 10 | M. | 5 34 | 6 19 | 6 53 | 11 58 |
| 5 36 | 6 16 | 7 32 | 9 44 | 11 | T. | 5 35 | 6 17 | 7 29 | ev. 46 |
| 5 37 | 6 15 | 8 13 | 10 40 | 12 | W. | 5 36 | 6 15 | 8 9 | 1 36 |
| 5 38 | 6 13 | 9 1 | 11 21 | 13 | Th. | 5 37 | 6 14 | 8 56 | 2 37 |
| 5 39 | 6 11 | 9 51 | ev. 19 | 14 | F. | 5 38 | 6 12 | 9 46 | 3 21 |
| 5 40 | 6 9 | 10 47 | 1 19 | 15 | S. | 5 39 | 6 10 | 10 42 | 4 20 |
| 5 41 | 6 8 | 11 45 | 2 20 | 16 | S. | 5 40 | 6 8 | 11 41 | 5 22 |
| 5 42 | 6 6 | morn | 3 24 | 17 | M. | 5 41 | 6 7 | morn | 6 26 |
| 5 43 | 6 4 | 45 | 4 23 | 18 | T. | 5 43 | 6 5 | 41 | 7 26 |
| 5 44 | 6 3 | 1 45 | 5 16 | 19 | W. | 5 44 | 6 3 | 1 42 | 8 19 |
| 5 45 | 6 1 | 2 43 | 6 4 | 20 | Th. | 5 45 | 6 1 | 2 40 | 9 6 |
| 5 46 | 5 59 | 3 42 | 6 47 | 21 | F. | 5 46 | 6 0 | 3 41 | 9 49 |
| 5 47 | 5 58 | 4 40 | 7 26 | 22 | S. | 5 47 | 5 58 | 4 40 | 10 30 |
| 5 48 | 5 56 | 5 36 | 7 59 | 23 | S. | 5 48 | 5 56 | 5 36 | 11 4 |
| 5 49 | 5 55 | sets | 8 36 | 24 | M. | 5 49 | 5 54 | sets | 11 42 |
| 5 50 | 5 53 | 6 31 | 9 15 | 25 | T. | 5 50 | 5 53 | 6 28 | morn |
| 5 51 | 5 52 | 7 0 | 9 52 | 26 | W. | 5 51 | 5 51 | 6 57 | 16 |
| 5 52 | 5 50 | 7 38 | 10 31 | 27 | Th. | 5 52 | 5 49 | 7 34 | 54 |
| 5 53 | 5 48 | 8 18 | 11 11 | 28 | F. | 5 53 | 5 47 | 8 14 | 1 35 |
| 5 54 | 5 46 | 9 6 | morn | 29 | S. | 5 54 | 5 46 | 9 1 | 2 17 |
| 5 54 | 5 44 | 9 59 | 2 | 30 | S. | 5 56 | 5 44 | 9 54 | 3 5 |

OCTOBER, 1900

| MOON'S PHASES. | East. Time. | Cent. Time. | West. Time. |
|----------------------|-------------|-------------|-------------|
| First Quarter. 1 D. | 4 h. 10 m. | 3 h. 10 m. | 2 h. 10 m. |
| Full Moon... 8 D. | 8 h. 18 m. | 7 h. 18 m. | 6 h. 18 m. |
| Last Quarter. 15 D. | 4 h. 51 m. | 3 h. 51 m. | 2 h. 51 m. |
| New Moon... 23 D. | 8 h. 27 m. | 7 h. 27 m. | 6 h. 27 m. |
| First Quarter. 31 D. | 3 h. 17 m. | 2 h. 17 m. | 1 h. 17 m. |

New-York City, Phila., Conn., New Jersey, Penn., O., Ind., & Ill.

Boston, New England, New-York, Mich., Wis., Iowa, and Oregon.

| MEAN TIME. | | | STAN. TIME. | D. OF MO. | D. OF WK. | MEAN TIME. | | | STAN. TIME. |
|------------|----------|-----------|----------------------|-----------|-----------|-----------------------|------|-------|-------------|
| Sun rises | Sun sets | Moon sets | H. W. N. Y. Gov. Is. | | | H. W. Boston. N. Yard | | | |
| 5 56 | 5 43 | 10 59 | 55 | 1 | M. | 5 57 | 5 42 | 10 54 | 3 56 |
| 5 57 | 5 41 | morn | 1 54 | 2 | T. | 5 58 | 5 40 | 12 0 | 4 56 |
| 5 58 | 5 39 | 4 | 2 56 | 3 | W. | 5 59 | 5 39 | morn | 5 58 |
| 5 59 | 5 38 | 1 12 | 4 2 | 4 | Th. | 6 0 | 5 37 | 1 9 | 7 5 |
| 6 0 | 5 36 | 2 24 | 5 5 | 5 | F. | 6 1 | 5 35 | 2 22 | 8 8 |
| 6 1 | 5 35 | 3 35 | 6 2 | 6 | S. | 6 2 | 5 33 | 3 34 | 9 4 |
| 6 2 | 5 33 | 4 50 | 6 57 | 7 | S. | 6 3 | 5 32 | 4 51 | 10 1 |
| 6 3 | 5 31 | rises | 7 46 | 8 | M. | 6 4 | 5 30 | rises | 10 51 |
| 6 4 | 5 30 | 6 5 | 8 34 | 9 | T. | 6 6 | 5 28 | 6 2 | 11 39 |
| 6 5 | 5 28 | 6 51 | 9 25 | 10 | W. | 6 7 | 5 27 | 6 46 | ev. 27 |
| 6 7 | 5 27 | 7 44 | 10 15 | 11 | Th. | 6 8 | 5 25 | 7 39 | 1 18 |
| 6 8 | 5 25 | 8 38 | 11 6 | 12 | F. | 6 9 | 5 23 | 8 33 | 2 11 |
| 6 9 | 5 23 | 9 38 | ev. 1 | 13 | S. | 6 10 | 5 22 | 9 33 | 3 4 |
| 6 10 | 5 22 | 10 38 | 59 | 14 | S. | 6 11 | 5 20 | 10 33 | 4 0 |
| 6 11 | 5 20 | 11 37 | 1 54 | 15 | M. | 6 13 | 5 19 | 11 33 | 4 56 |
| 6 12 | 5 19 | morn | 2 51 | 16 | T. | 6 14 | 5 17 | morn | 5 53 |
| 6 13 | 5 17 | 38 | 3 46 | 17 | W. | 6 15 | 5 15 | 36 | 6 49 |
| 6 14 | 5 16 | 1 36 | 4 37 | 18 | Th. | 6 16 | 5 14 | 1 35 | 7 40 |
| 6 15 | 5 14 | 2 33 | 5 26 | 19 | F. | 6 17 | 5 12 | 2 33 | 8 29 |
| 6 16 | 5 13 | 3 25 | 6 10 | 20 | S. | 6 18 | 5 11 | 3 25 | 9 2 |
| 6 18 | 5 12 | 4 27 | 6 50 | 21 | S. | 6 20 | 5 9 | 4 28 | 9 52 |
| 6 19 | 5 10 | 5 25 | 7 30 | 22 | M. | 6 21 | 5 8 | 5 27 | 10 34 |
| 6 20 | 5 9 | 6 23 | 8 6 | 23 | T. | 6 22 | 5 6 | 6 26 | 11 11 |
| 6 21 | 5 7 | sets | 8 47 | 24 | W. | 6 23 | 5 5 | sets | 11 50 |
| 6 22 | 5 6 | 6 18 | 9 28 | 25 | Th. | 6 24 | 5 3 | 6 14 | morn |
| 6 23 | 5 4 | 7 3 | 10 9 | 26 | F. | 6 26 | 5 2 | 6 58 | 31 |
| 6 24 | 5 3 | 7 55 | 10 53 | 27 | S. | 6 27 | 5 1 | 7 50 | 1 12 |
| 6 26 | 5 2 | 8 52 | 11 42 | 28 | S. | 6 28 | 4 59 | 8 48 | 1 59 |
| 6 27 | 5 1 | 9 54 | morn | 29 | M. | 6 29 | 4 58 | 9 50 | 2 45 |
| 6 28 | 4 59 | 10 59 | 34 | 30 | T. | 6 31 | 4 57 | 10 56 | 3 36 |
| 6 29 | 4 58 | morn | 1 32 | 31 | W. | 6 32 | 4 55 | morn | 4 33 |

NOVEMBER, 1900

| MOON'S PHASES. | East. Time. | Cent. Time. | West. Time. |
|------------------------|-------------|-------------|-------------|
| Full Moon... 6 D. | 6 h. 0 m. | 5 h. 0 m. | 4 h. 0 m. |
| Last Quarter... 13 D. | 9 h. 37 m. | 8 h. 37 m. | 7 h. 37 m. |
| New Moon... 22 D. | 2 h. 17 m. | 1 h. 17 m. | 0 h. 17 m. |
| First Quarter... 29 D. | 0 h. 35 m. | 11 h. 35 m. | 10 h. 35 m. |

| New-York City, Phila., Conn., New Jersey, Penn., O., Ind., & Ill. | | | Boston, New England, New-York, Mich., Wis., Iowa, and Oregon. | | |
|---|----------|-----------|---|----------|-----------|
| MEAN TIME. | | | MEAN TIME. | | |
| Sun rises | Sun sets | Moon sets | Sun rises | Sun sets | Moon sets |
| 6 30 | 4 57 | 6 | 6 33 | 4 54 | 4 |
| 6 31 | 4 56 | 1 16 | 6 34 | 4 53 | 1 15 |
| 6 32 | 4 54 | 2 25 | 6 36 | 4 51 | 2 25 |
| 6 34 | 4 53 | 3 39 | 6 37 | 4 50 | 3 40 |
| 6 35 | 4 52 | 4 53 | 6 38 | 4 49 | 4 55 |
| 6 36 | 4 51 | 6 7 | 6 39 | 4 48 | 6 11 |
| 6 37 | 4 50 | rises | 6 41 | 4 47 | rises |
| 6 38 | 4 49 | 6 24 | 6 42 | 4 45 | 6 19 |
| 6 40 | 4 48 | 7 23 | 6 43 | 4 44 | 7 18 |
| 6 41 | 4 47 | 8 25 | 6 44 | 4 43 | 8 20 |
| 6 42 | 4 46 | 9 26 | 6 46 | 4 42 | 9 23 |
| 6 43 | 4 45 | 10 28 | 6 47 | 4 41 | 10 25 |
| 6 44 | 4 44 | 11 27 | 6 48 | 4 40 | 11 25 |
| 6 46 | 4 43 | morn | 6 49 | 4 39 | morn |
| 6 47 | 4 42 | 26 | 6 51 | 4 39 | 25 |
| 6 48 | 4 41 | 1 22 | 6 52 | 4 38 | 1 22 |
| 6 49 | 4 40 | 2 20 | 6 53 | 4 37 | 2 21 |
| 6 50 | 4 39 | 3 16 | 6 54 | 4 36 | 3 18 |
| 6 51 | 4 39 | 4 14 | 6 56 | 4 35 | 4 17 |
| 6 53 | 4 38 | 5 14 | 6 57 | 4 34 | 5 17 |
| 6 54 | 4 38 | 6 11 | 6 58 | 4 34 | 6 15 |
| 6 55 | 4 37 | sets | 6 59 | 4 33 | sets |
| 6 56 | 4 36 | 5 51 | 7 0 | 4 32 | 5 46 |
| 6 57 | 4 36 | 6 47 | 7 2 | 4 32 | 6 42 |
| 6 58 | 4 35 | 7 48 | 7 3 | 4 31 | 7 43 |
| 6 59 | 4 35 | 8 52 | 7 4 | 4 31 | 8 48 |
| 7 0 | 4 35 | 9 57 | 7 5 | 4 30 | 9 55 |
| 7 2 | 4 34 | 11 5 | 7 6 | 4 30 | 11 4 |
| 7 3 | 4 34 | morn | 7 7 | 4 30 | morn |
| 7 4 | 4 34 | 13 | 7 8 | 4 29 | 13 |

DECEMBER, 1900

| MOON'S PHASES. | East. Time. | Cent. Time. | West. Time. |
|------------------------|-------------|-------------|-------------|
| Full Moon... 6 D. | 5 h. 38 m. | 4 h. 38 m. | 3 h. 38 m. |
| Last Quarter... 13 D. | 5 h. 42 m. | 4 h. 42 m. | 3 h. 42 m. |
| New Moon... 21 D. | 7 h. 1 m. | 6 h. 1 m. | 5 h. 1 m. |
| First Quarter... 28 D. | 8 h. 48 m. | 7 h. 48 m. | 6 h. 48 m. |

| New-York City, Phila., Conn., New Jersey, Penn., O., Ind., & Ill. | | | Boston, New England, New-York, Mich., Wis., Iowa, and Oregon. | | |
|---|----------|-----------|---|----------|-----------|
| MEAN TIME. | | | MEAN TIME. | | |
| Sun rises | Sun sets | Moon sets | Sun rises | Sun sets | Moon sets |
| 7 5 | 4 34 | 1 23 | 7 10 | 4 29 | 1 24 |
| 7 6 | 4 33 | 2 33 | 7 11 | 4 29 | 2 35 |
| 7 7 | 4 33 | 3 45 | 7 12 | 4 28 | 3 48 |
| 7 8 | 4 33 | 4 57 | 7 13 | 4 28 | 5 1 |
| 7 9 | 4 32 | 6 7 | 7 14 | 4 28 | 6 11 |
| 7 10 | 4 32 | rises | 7 15 | 4 28 | rises |
| 7 11 | 4 32 | 6 5 | 7 16 | 4 28 | 6 1 |
| 7 12 | 4 32 | 7 8 | 7 17 | 4 28 | 7 4 |
| 7 13 | 4 32 | 8 13 | 7 17 | 4 28 | 8 9 |
| 7 14 | 4 32 | 9 12 | 7 18 | 4 28 | 9 10 |
| 7 15 | 4 32 | 10 14 | 7 19 | 4 28 | 10 12 |
| 7 16 | 4 33 | 11 12 | 7 20 | 4 28 | 11 11 |
| 7 16 | 4 33 | morn | 7 21 | 4 28 | morn |
| 7 17 | 4 33 | 1 6 | 7 22 | 4 28 | 9 |
| 7 18 | 4 33 | 2 3 | 7 22 | 4 29 | 1 7 |
| 7 18 | 4 33 | 3 2 | 7 23 | 4 29 | 2 6 |
| 7 19 | 4 34 | 4 0 | 7 24 | 4 29 | 3 5 |
| 7 20 | 4 34 | 4 58 | 7 24 | 4 29 | 4 4 |
| 7 20 | 4 35 | 5 56 | 7 25 | 4 30 | 5 3 |
| 7 21 | 4 35 | 6 50 | 7 26 | 4 30 | 6 1 |
| 7 21 | 4 36 | sets | 7 26 | 4 31 | 6 55 |
| 7 22 | 4 37 | 6 42 | 7 26 | 4 31 | sets |
| 7 22 | 4 37 | 7 50 | 7 27 | 4 32 | 6 39 |
| 7 23 | 4 38 | 8 48 | 7 27 | 4 32 | 7 47 |
| 7 23 | 4 39 | 10 5 | 7 28 | 4 33 | 8 56 |
| 7 23 | 4 39 | 11 14 | 7 28 | 4 33 | 10 5 |
| 7 23 | 4 40 | morn | 7 28 | 4 34 | 11 15 |
| 7 24 | 4 40 | 22 | 7 29 | 4 35 | morn |
| 7 24 | 4 41 | 1 32 | 7 29 | 4 36 | 24 |
| 7 24 | 4 42 | 2 42 | 7 29 | 4 37 | 1 35 |
| | | | 7 30 | 4 37 | 2 45 |

Domestic Postage.

FIRST CLASS.—Letters and all written matter, whether sealed or unsealed, and all other matter sealed, nailed, sewed, tied, or fastened in any manner, so that it cannot be easily examined, **two cents per ounce** or fraction thereof. A "Special Delivery" ten-cent stamp, when attached to a letter in addition to the lawful postage, shall entitle the letter to immediate delivery at, or within one mile of, any post-office. Postal cards, one cent each; with paid reply, two cents each.

SECOND CLASS.—All regular newspapers, magazines, and other periodicals issued at intervals not exceeding three months; the postage is **one cent for each four ounces**, payable by postage stamps.

THIRD CLASS.—Embraces **printed books**, pamphlets, circulars, engravings, lithographs, proof-sheets and manuscript accompanying the same, and all matter of the same general character, and not having the character of personal correspondence. Circulars produced by hektograph or similar process, or by electric pen, are rated as third class. The limit of weight for mail matter of the third class is four pounds, except in the case of single books exceeding that weight. The rate of postage on mail matter of the third class is **one cent for each two ounces** or fraction thereof.

FOURTH CLASS.—Allailable matter not included in the three preceding classes, which is so prepared for mailing as to be easily taken from the wrapper and examined. Rate, **one cent per ounce** or fraction thereof, except seeds, roots, cuttings, bulbs, plants and scions, which are 1 cent per two ounces. Limit of weight, 4 lbs. Full prepayment compulsory. Liquids, and other like injurious matter, not admitted, except under conditions which may be learned at any post-office.

Register all valuable letters and packages. **Registry fee, eight cents**, which, with the postage, must be fully prepaid.

FEEs CHARGED FOR MONEY-ORDERS.—For Money Orders in denominations of \$100 or less, the following fees are charged: For Orders for sums not exceeding \$2.50, 3 cents; \$2.50 to \$5, 5 cents; \$5 to \$10, 8 cents; \$10 to \$20, 10 cents; \$20 to \$30, 12 cents; \$30 to \$40, 15 cents; \$40 to \$50, 18 cents; \$50 to \$60, 20 cents; \$60 to \$75, 25 cents; \$75 to \$100, 30 cents.

Foreign Postage.

To all Foreign Countries (except Canada and Mexico):
On Letters, **five cents for each half ounce** or fraction thereof—prepayment optional. Double rates are collected on delivery of unpaid or short-paid letters.

On newspapers, books, pamphlets, photographs, sheet music, maps, engravings, and similar printed matter, **one cent for each two ounces** or fraction thereof. Limit, 4 lbs. 6 ozs.

TO CANADA (including Nova Scotia, New Brunswick, Manitoba, and Prince Edward Island): **LETTERS, two cents for each ounce** or fraction thereof; Books, Circulars, and similar printed matter, **one cent for each two ounces** or fraction thereof; **SECOND CLASS MATTER** same as in the United States; **SAMPLES, one cent per two ounces** (must be paid at least 2 cents); **MERCHANDISE, one cent per ounce**. Packages must not exceed 4 lbs. in weight—prepayment compulsory. No sealed packages other than letters in their usual and ordinary form may be sent by mail to Canada.

TO MEXICO: Letters, Postal Cards, and printed matter, same rates as in the United States. **SAMPLES, one cent per two ounces**; **MERCHANDISE** other than Samples can only be sent by Parcel Post. No sealed packages other than letters in their usual and ordinary form may be sent by mail to Mexico.

LIMITS OF SIZE AND WEIGHT: Packages of samples of merchandise to all countries must not exceed 12 ozs., nor measure more than 12 inches in length, 8 in breadth, and 4 in depth; and packages of printed matter must not exceed 4 lbs. 6 ozs.

INTERNATIONAL OR FOREIGN MONEY-ORDER FEES.
On Money Orders payable in foreign countries the following fees are charged:

| | |
|---|-----------|
| For Orders for sums of \$10 or less | 10 cents. |
| Over \$10 and not exceeding \$20 | 20 cents. |
| Over 20 and not exceeding 30 | 30 cents. |
| Over 30 and not exceeding 40 | 40 cents. |
| Over 40 and not exceeding 50 | 50 cents. |
| Over 50 and not exceeding 60 | 60 cents. |
| Over 60 and not exceeding 70 | 70 cents. |
| Over 70 and not exceeding 80 | 80 cents. |
| Over 80 and not exceeding 90 | 90 cents. |
| Over 90 and not exceeding 100 | \$1.00. |

Interest Tables.

| 4% | \$1 | \$2 | \$3 | \$4 | \$5 | \$6 | \$7 | \$8 | \$9 | \$10 | \$100 | \$1000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|--------|
| 4 DAY. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 45 |
| 8 " | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 | 89 |
| 12 " | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 14 | 1.34 |
| 16 " | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 18 | 1.78 |
| 20 " | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 22 | 2.22 |
| 24 " | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 27 | 2.67 |
| 28 " | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 31 | 3.11 |
| 1 MO.. | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 34 | 3.34 |
| 2 " | 0 | 2 | 2 | 3 | 4 | 4 | 5 | 6 | 6 | 7 | 67 | 6.67 |
| 3 " | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1.00 | 10.00 |
| 6 " | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 2.00 | 20.00 |
| 1 YR.. | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 4.00 | 40.00 |

| 5% | \$1 | \$2 | \$3 | \$4 | \$5 | \$6 | \$7 | \$8 | \$9 | \$10 | \$100 | \$1000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|--------|
| 4 DAY. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 56 |
| 8 " | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 11 | 1.11 |
| 12 " | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 17 | 1.67 |
| 16 " | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 22 | 2.22 |
| 20 " | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 28 | 2.74 |
| 24 " | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 34 | 3.34 |
| 28 " | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 39 | 3.84 |
| 1 MO.. | 0 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 42 | 4.17 |
| 2 " | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 84 | 8.34 |
| 3 " | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 1.25 | 12.50 |
| 6 " | 3 | 5 | 8 | 10 | 13 | 15 | 18 | 20 | 23 | 25 | 2.50 | 25.00 |
| 1 YR.. | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 5.00 | 50.00 |

| 6% | \$1 | \$2 | \$3 | \$4 | \$5 | \$6 | \$7 | \$8 | \$9 | \$10 | \$100 | \$1000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|--------|
| 4 DAY. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 7 | .67 |
| 8 " | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | 1.33 |
| 12 " | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 20 | 2.00 |
| 16 " | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 27 | 2.67 |
| 20 " | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 33 | 3.33 |
| 24 " | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 40 | 4.00 |
| 1 MO.. | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 50 | 5.00 |
| 2 " | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1.00 | 10.00 |
| 3 " | 2 | 3 | 5 | 6 | 8 | 9 | 11 | 12 | 14 | 15 | 1.50 | 15.00 |
| 6 " | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 3.00 | 30.00 |
| 1 YR.. | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 6.00 | 60.00 |

Rules for Computing Interest.

The following will be found to be excellent rules for finding the interest on any principal for any number of days. When the principal contains cents, point off four places from the right of the result to express the interest in dollars and cents. When the principal contains dollars only, point off two places.

Four per Cent.—Multiply the principal by the number of days to run, and divide by 90.

Five per Cent.—Multiply by number of days, and divide by 72.

Six per Cent.—Multiply by number of days, and divide by 60.

Seven per Cent.—Multiply by number of days, and divide by 52.

Eight per Cent.—Multiply by number of days, and divide by 45.

Nine per Cent.—Multiply by number of days, and divide by 40.

Ten per Cent.—Multiply by number of days, and divide by 36.

Twelve per Cent.—Multiply by number of days, and divide by 30.

Fifteen per Cent.—Multiply by number of days, and divide by 24.

Eighteen per Cent.—Multiply by number of days, and divide by 20.

Twenty per Cent.—Multiply by number of days, and divide by 18.

Twenty-four per Cent.—Multiply by number of days, and divide by 15.

Rate of Income on Stocks.

Purchased at the following prices (par value being \$100), and bearing interest at the following rates:

| Paid. | 3% | 4% | 5% | 6% | 7% | 8% | 9% |
|-------|------|------|-------|-------|-------|-------|-------|
| \$50 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 |
| 55 | 5.45 | 7.27 | 9.09 | 10.90 | 12.72 | 14.55 | 16.36 |
| 60 | 5.00 | 6.67 | 8.33 | 10.00 | 11.66 | 13.33 | 15.00 |
| 65 | 4.62 | 6.15 | 7.69 | 9.23 | 10.76 | 12.30 | 13.85 |
| 70 | 4.28 | 5.71 | 7.14 | 8.57 | 10.00 | 11.42 | 12.85 |
| 75 | 4.00 | 5.33 | 6.66 | 8.00 | 9.33 | 10.66 | 12.00 |
| 80 | 3.75 | 5.00 | 6.25 | 7.50 | 8.75 | 10.00 | 11.25 |
| 85 | 3.53 | 4.70 | 5.88 | 7.05 | 8.23 | 9.41 | 10.58 |
| 90 | 3.33 | 4.44 | 5.55 | 6.66 | 7.77 | 8.88 | 10.00 |
| 91 | 3.30 | 4.40 | 5.49 | 6.59 | 7.69 | 8.79 | 9.89 |
| 92 | 3.26 | 4.34 | 5.43 | 6.52 | 7.60 | 8.70 | 9.78 |
| 93 | 3.23 | 4.30 | 5.38 | 6.45 | 7.53 | 8.60 | 9.68 |
| 94 | 3.19 | 4.26 | 5.32 | 6.38 | 7.45 | 8.51 | 9.57 |
| 95 | 3.15 | 4.21 | 5.26 | 6.31 | 7.36 | 8.42 | 9.47 |
| 96 | 3.13 | 4.17 | 5.21 | 6.25 | 7.29 | 8.33 | 9.38 |
| 97 | 3.09 | 4.12 | 5.15 | 6.18 | 7.22 | 8.25 | 9.28 |
| 98 | 3.06 | 4.08 | 5.10 | 6.12 | 7.14 | 8.16 | 9.18 |
| 99 | 3.03 | 4.04 | 5.05 | 6.06 | 7.07 | 8.08 | 9.09 |
| 101 | 2.97 | 3.96 | 4.95 | 5.94 | 6.93 | 7.92 | 8.91 |
| 102 | 2.94 | 3.92 | 4.90 | 5.88 | 6.86 | 7.84 | 8.82 |
| 103 | 2.91 | 3.88 | 4.85 | 5.83 | 6.80 | 7.77 | 8.74 |
| 104 | 2.88 | 3.85 | 4.81 | 5.77 | 6.73 | 7.69 | 8.65 |
| 105 | 2.86 | 3.80 | 4.76 | 5.71 | 6.66 | 7.61 | 8.57 |
| 106 | 2.83 | 3.77 | 4.72 | 5.66 | 6.60 | 7.55 | 8.49 |
| 107 | 2.80 | 3.74 | 4.67 | 5.61 | 6.54 | 7.48 | 8.41 |
| 108 | 2.78 | 3.70 | 4.63 | 5.56 | 6.48 | 7.41 | 8.33 |
| 109 | 2.75 | 3.67 | 4.59 | 5.50 | 6.42 | 7.34 | 8.26 |
| 110 | 2.72 | 3.63 | 4.54 | 5.45 | 6.36 | 7.27 | 8.18 |
| 120 | 2.50 | 3.33 | 4.16 | 5.00 | 5.83 | 6.66 | 7.50 |

Table of Wages.

TABLE OF WAGES BY THE WEEK.

| Wages | One hour. | Five hours. | Eight hours. | Nine hours. | One day. | Two days. | Three days. | Four days. | Five days. | Six days. |
|-------|---------------------------------|----------------------------------|----------------------------------|-------------|----------------------------------|----------------------------------|-------------|-----------------------------------|-----------------------------------|-----------|
| \$3 | .05 | .25 | .40 | .45 | .50 | 1.00 | 1.50 | 2.00 | 2.50 | 3.00 |
| 4 | .06 ² / ₃ | .33 ¹ / ₃ | .53 ¹ / ₃ | .60 | .66 ² / ₃ | 1.33 ¹ / ₃ | 2.00 | 2.66 ² / ₃ | 3.33 ¹ / ₃ | 4.00 |
| 5 | .08 ¹ / ₃ | .41 ² / ₃ | .66 ² / ₃ | .75 | .83 ¹ / ₃ | 1.66 ² / ₃ | 2.50 | 3.33 ¹ / ₃ | 4.16 ² / ₃ | 5.00 |
| 6 | .10 | .50 | .80 | .90 | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 | 6.00 |
| 7 | .11 ² / ₃ | .58 ¹ / ₃ | .93 ¹ / ₃ | 1.05 | 1.16 ² / ₃ | 2.33 ¹ / ₃ | 3.50 | 4.66 ² / ₃ | 5.83 ¹ / ₃ | 7.00 |
| 8 | .13 ¹ / ₃ | .66 ² / ₃ | 1.06 ² / ₃ | 1.20 | 1.33 ¹ / ₃ | 2.66 ² / ₃ | 4.00 | 5.33 ¹ / ₃ | 6.66 ² / ₃ | 8.00 |
| 9 | .15 | .75 | 1.20 | 1.35 | 1.50 | 3.00 | 4.50 | 6.00 | 7.50 | 9.00 |
| 10 | .16 ² / ₃ | .83 ¹ / ₃ | 1.33 ¹ / ₃ | 1.50 | 1.66 ² / ₃ | 3.33 ¹ / ₃ | 5.00 | 6.66 ² / ₃ | 8.33 ¹ / ₃ | 10.00 |
| 11 | .18 ¹ / ₃ | .91 ² / ₃ | 1.46 ² / ₃ | 1.65 | 1.83 ¹ / ₃ | 3.66 ² / ₃ | 5.50 | 7.33 ¹ / ₃ | 9.16 ² / ₃ | 11.00 |
| 12 | .20 | 1.00 | 1.60 | 1.80 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 |
| 13 | .21 ² / ₃ | 1.08 ¹ / ₃ | 1.73 ¹ / ₃ | 1.95 | 2.16 ² / ₃ | 4.33 ¹ / ₃ | 6.50 | 8.66 ² / ₃ | 10.83 ¹ / ₃ | 13.00 |
| 14 | .23 ¹ / ₃ | 1.16 ² / ₃ | 1.86 ² / ₃ | 2.10 | 2.33 ¹ / ₃ | 4.66 ² / ₃ | 7.00 | 9.33 ¹ / ₃ | 11.66 ² / ₃ | 14.00 |
| 15 | .25 | 1.25 | 2.00 | 2.25 | 2.50 | 5.00 | 7.50 | 10.00 | 12.50 | 15.00 |
| 16 | .26 ² / ₃ | 1.33 ¹ / ₃ | 2.13 ¹ / ₃ | 2.40 | 2.66 ² / ₃ | 5.33 ¹ / ₃ | 8.00 | 10.66 ² / ₃ | 13.33 ¹ / ₃ | 16.00 |
| 17 | .28 ¹ / ₃ | 1.41 ² / ₃ | 2.26 ² / ₃ | 2.55 | 2.83 ¹ / ₃ | 5.66 ² / ₃ | 8.50 | 11.33 ¹ / ₃ | 14.16 ² / ₃ | 17.00 |
| 18 | .30 | 1.50 | 2.40 | 2.70 | 3.00 | 6.00 | 9.00 | 12.00 | 15.00 | 18.00 |
| 19 | .31 ² / ₃ | 1.58 ¹ / ₃ | 2.53 ¹ / ₃ | 2.85 | 3.16 ² / ₃ | 6.33 ¹ / ₃ | 9.50 | 12.66 ² / ₃ | 15.83 ¹ / ₃ | 19.00 |
| 20 | .33 ¹ / ₃ | 1.66 ² / ₃ | 2.66 ² / ₃ | 3.00 | 3.33 ¹ / ₃ | 6.66 ² / ₃ | 10.00 | 13.33 ¹ / ₃ | 16.66 ² / ₃ | 20.00 |
| 24 | .40 | 2.00 | 3.20 | 3.60 | 4.00 | 8.00 | 12.00 | 16.00 | 20.00 | 24.00 |

This Table is based upon the usual calculation of 10 hours to a day.

Weights—Measures.

MEASURES OF WEIGHT.—*Avoirdupois*: 1 pound equals 7000 grains; 16 drams, 1 ounce; 16 ounces, 1 pound; 112 pounds, 1 hundredweight; 20 hundredweight, 1 ton. *Troy*: 1 pound equals 5760 grains; 24 grains, 1 pennyweight; 20 pennyweights, 1 ounce; 12 ounces, 1 pound. *Apothecaries*: 1 pound equals 5760 grains; 20 grains, 1 scruple; 3 scruples, 1 dram; 8 drams, 1 ounce; 12 ounces, 1 pound. *Metric*: 1 kilogramme equals 1000 grammes, equals 2.2 Avoirdupois pounds.

MEASURES OF LENGTH.—*Customary*: 12 inches equal 1 foot; 16½ feet, 1 rod; 40 rods, 1 furlong; 8 furlongs, 1 statute mile; 1 statute mile, 5280 feet or 1760 yards; 1 marine league, 3 nautical miles; 1 fathom, 6 feet; 1 nautical mile equals 6080.2 feet. *Metric*: 1000 millimetres equal 1 metre; 1000 metres, 1 kilometre; 1 metre equals 39.37 inches.

SURFACE OR SQUARE MEASURE.—*Customary*: 144 square inches equal 1 square foot; 9 square feet, 1 square yard; 30.25 square yards, 1 square rod; 40 square rods, 1 square rood; 4 square roods, 1 acre; 640 acres, 1 square mile; 1 acre equals 208.7 feet square. *Metric*: 1 square metre equals 10.764 square feet; 100 square metres equal 1 are; 1 hectare equals 100 ares, or 2.471 acres.

SOLID OR CUBIC MEASURE.—*Customary*: 1728 cubic inches equal 1 cubic foot; 27 cubic feet, 1 cubic yard; 40 cubic feet of round timber, 1 ton; 50 cubic feet of hewn timber, 1 ton; 128 cubic feet of wood (4 feet by 4 feet by 8 feet), 1 cord; 24.75 cubic feet of stone, 1 perch—usually 16½ feet by 1½ feet by 1 foot, but varies greatly. *Metric*: 1000 cubic centimetres equal 1 litre; 1 litre equals 1.0567 quarts.

LIQUID MEASURE.—English gallon equals 277.274 cubic inches, or 1.20032 U. S. gallons; 4 gills, 1 pint; 2 pints, 1 quart; 4 quarts, 1 gallon.

DRY MEASURE.—1 bushel equals 2150.42 cubic inches; 2 pints, 1 quart; 4 quarts, 1 gallon; 2 gallons, 1 peck; 4 pecks, 1 bushel. *Metric*: 10 millilitres equal 1 centilitre; 10 centilitres, 1 decilitre; 10 decilitres, 1 litre; 1 litre, 0.908 dry quart.

CAPACITY OF BOXES.

| | | |
|----------------------------|---|------------------------------|
| 25 in. sq., 11.66 in. deep | = | Approx. 1 wine barrel. |
| 20 " " 9.10 " " | = | " " 1 wine half barrel. |
| 17 "x 14 in. 9.00 " " | = | " " 1 bushel. |
| 10 "x 12 " 9.00 " " | = | " " ½ " |
| 8 " sq., 8.40 " " | = | " " 1 peck. |
| 8 " " 4.20 " " | = | " " 1 gal. (dry measure). |
| 7 " diam., 6.00 " " | = | " " 1 gal. (liquid measure). |

The Metric System.

The Metric System of Weights and Measures has been legalized by act of Congress, July 18, 1896.

METRIC WEIGHTS.—10 milligrams make 1 centigram, 10 centigrams 1 decigram, 10 decigrams 1 gram, 10 grams 1 dekagram, 10 dekagrams 1 hektogram, 10 hektograms 1 kilogram, 1,000 kilograms 1 metric ton.

METRIC MEASURES.—(One milliliter equals cubic centimeter.) 10 milliliters make 1 centiliter, 10 centiliters 1 deciliter, 10 deciliters 1 liter, 10 liters 1 dekaliter, 10 dekaliters 1 hektoliter, 10 hektoliters 1 kiloliter.

METRIC LENGTHS.—10 millimeters make 1 centimeter, 10 centimeters 1 decimeter, 10 decimeters 1 meter, 10 meters 1 dekameter, 10 dekameters 1 hektometer, 10 hektometers 1 kilometer.

APPROXIMATE EQUIVALENTS.

A meter is about a yard; a kilo is about 2 pounds; a liter is about a quart; a centimeter is about ½ inch; a metric ton is about same as an ordinary ton; a kilometer is about ½ mile; a cubic centimeter is about a thimbleful. A nickel five-cent piece of our coinage is a handy key to metric measures and weights. It is two centimeters in diameter and weighs five grams.

PRECISE EQUIVALENTS.

1 acre equals .4047 hectare; 1 bushel, 35.24 liters; 1 centimeter .3937 inch; 1 cubic centimeter, .0610 cubic inch; 1 cubic foot, .0283 cubic meter; 1 cubic inch, 16.39 cubic cent.; 1 cubic meter, 35.31 cubic feet; 1 cubic meter, 1.308 cubic yards; 1 cubic yard, .7645 cubic meter; 1 foot, 30.48 centimeters; 1 gallon, 3.785 liters; 1 grain, .0648 gram; 1 gram, 15.43 grains; 1 hectare, 2.471 acres; 1 inch, 25.40 millimeters; 1 kilogram, 2.05 pounds; 1 kilometer, .6214 mile; 1 liter, .9081 quart (dry); 1 liter, 1.057 quart (liquid); 1 meter, 3.281 feet; 1 mile, 1.609 kilometers; 1 millimeter, .0394 inch; 1 ounce (avd.), 28.35 grams; 1 ounce (Troy), 31.10 grams; 1 peck, 8.809 liters; 1 pint, .4732 liter; 1 pound, .4536 kilogram; 1 quart (dry), 1.101 liters; 1 quart (liquid), .9464 liter; 1 sq. centimeter, .1550 sq. inch; 1 sq. foot, .0929 sq. meter; 1 sq. inch, 6.452 sq. cent.; 1 sq. meter, 1.196 sq. yards; 1 sq. meter, 10.76 sq. feet; 1 sq. yard, .8361 sq. meter; 1 ton (2,000 lbs.), .9072 metric ton; 1 ton (2,240 lbs.), 1.017 metric ton; 1 ton (metric), 1.102 ton (2000 lbs.); 1 ton (metric), 9.842 ton (2,240 lbs.); 1 yard, .9144 meter.

PRESIDENTS OF THE UNITED STATES.

| Names. | Born. | Inaugurated. | In Office. | Died. | Native of |
|------------------------|----------------|----------------|--------------|----------------|------------|
| George Washington. | Feb. 22, 1732 | April 30, 1789 | 8 years. | Dec. 14, 1799 | Virginia. |
| John Adams..... | Oct. 30, 1735 | Mar. 4, 1797 | 4 " | July 4, 1826 | Mass. |
| Thomas Jefferson .. | April 2, 1743 | " 4, 1801 | 8 " | July 4, 1826 | Virginia. |
| James Madison..... | Mar. 16, 1751 | " 4, 1809 | 8 " | June 28, 1836 | " |
| James Monroe | April 2, 1759 | " 4, 1817 | 8 " | July 4, 1831 | " |
| John Quincy Adams. | July 11, 1767 | " 4, 1825 | 4 " | Feb. 23, 1848 | Mass. |
| Andrew Jackson | Mar. 15, 1767 | " 4, 1829 | 8 " | June 8, 1845 | S. Carol. |
| Martin Van Buren.... | Dec. 5, 1782 | " 4, 1837 | 4 " | Dec. 27, 1862 | New-York. |
| William H. Harrison. | Feb. 9, 1773 | " 4, 1841 | 1 month. | April 4, 1841 | Virginia. |
| John Tyler..... | Mar. 20, 1790 | April 5, 1841 | 3 yrs. 11 m. | Jan. 17, 1862 | " |
| James K. Polk..... | Nov. 2, 1795 | Mar. 4, 1845 | 4 years. | June 15, 1849 | N. Carol. |
| Zachary Taylor | Nov. 24, 1790 | " 4, 1849 | 1 yr. 4 m. | July 9, 1850 | Virginia. |
| Millard Fillmore | May 7, 1800 | July 10, 1850 | 2 yrs. 8 m. | Mar. 8, 1874 | New-York. |
| Franklin Pierce | Nov. 23, 1804 | Mar. 4, 1853 | 4 years. | Oct. 8, 1869 | N. Hamp. |
| James Buchanan | April 23, 1791 | " 4, 1857 | 4 " | June 1, 1868 | Pennsylva. |
| Abraham Lincoln | Feb. 12, 1809 | " 4, 1861 | 4 yrs. 40 d. | April 15, 1865 | Kentucky. |
| Andrew Johnson..... | Dec. 29, 1808 | April 15, 1865 | 3 yrs. 11 m. | July 31, 1875 | N. Carol. |
| Ulysses S. Grant | April 27, 1822 | Mar. 4, 1869 | 8 years. | July 23, 1885 | Ohio. |
| Rutherford B. Hayes | Oct. 4, 1822 | " 5, 1877 | 4 " | Jan. 17, 1893 | " |
| James A. Garfield.... | Nov. 19, 1831 | " 4, 1881 | 6 m. 15 d. | Sept. 19, 1881 | Vermont. |
| Chester A. Arthur..... | Oct. 5, 1830 | Sept. 19, 1881 | 3 yrs. 5 m. | Nov. 18, 1886 | N. Jersey. |
| Grover Cleveland..... | Mar. 18, 1837 | Mar. 4, 1885 | 4 years. | " | Ohio. |
| Benjamin Harrison... | Aug. 20, 1833 | " 4, 1889 | 4 " | " | N. Jersey. |
| Grover Cleveland | Mar. 18, 1837 | " 4, 1893 | 4 " | " | Ohio. |
| William McKinley | Jan. 29, 1843 | 4, 1897 | " | " | Ohio. |

Presidents.

Revenue Stamps.

| | | | |
|--|--------|--|--------|
| Bank Checks | \$0.02 | Agreement of Sale of Merchandise | \$0.01 |
| Bankers—for first \$25,000 of capital..... | 50.00 | Telephone Messages, 15c. or more..... | .01 |
| For each \$1,000 in excess of \$25,000 | 2.00 | Bond, indemnifying | .50 |
| Brokers | 50.00 | Surety Bond..... | .50 |
| Pawnbrokers..... | 20.00 | Telegram | .01 |
| Commercial Brokers.... | 20.00 | Custom House—Entry value \$100, 25c.; \$500 | .50 |
| Custom House Brokers. | 10.00 | Over \$500..... | 1.00 |
| Theatres, Museums and Concert Halls in cities, popu'n 25,000 | 100.00 | Entry for withdrawal. | .50 |
| Circus..... | 100.00 | Stocks on sales or transfers, per \$100 | .02 |
| Public Exhibitions..... | 10.00 | Money Orders—Foreign Telegraph—per \$100..... | .04 |
| Bowling Alleys, ea. alley | 5.00 | Foreign Letters of Credit—per \$100 | .04 |
| Billiard Rooms, ea. table | 5.00 | Drafts payable on sight. | .02 |
| Bill of Exchange (foreign) for each \$100 or fraction (not in sets).. | .04 | Drafts payable on time, per \$100 or fraction... | .02 |
| In sets, for each bill of set, for each \$100.. | .02 | Protest of Notes | .25 |
| Bill of Exchange (inland) for ea. \$100 or fraction | .02 | Lease—One year..... | .25 |
| Promissory Note..... | .02 | Three years..... | .50 |
| Draft..... | .02 | Over three years..... | 1.00 |
| Certificate of Deposit, drawing int., per \$100 | .02 | Power of Attorney... .. | .25 |
| Not drawing interest | .02 | Proxy for Voting | .10 |
| Government Money Or's | .02 | Warehouse Receipt..... | .25 |
| Bonds—issued by companies, per \$100 | .05 | Parlor Car Seat | .01 |
| Foreign, per \$100..... | .05 | Sleeping Car Berth..... | .01 |
| Deed of real estate for each \$500, or less, above \$100, or fraction of \$500 | .50 | Tobacco—per pound. | .12 |
| Mortgage on real or personal estate, first \$1,000 exempt. First, \$1,500 or less, above \$1,000 | .25 | Tea—per pound | .10 |
| For each \$500 or fraction in excess of \$1,500..... | .25 | | |
| Assignment of Mortgage—same taxes as on mortgage. | | | |
| Assignment of Lease—same taxes as on lease. | | | |
| Mixed Flour—upon the person or company engaged in business, per annum | 12.00 | | |
| On each barrel, 4c.; ½ bbl., 2c.; ¼ bbl., 1c.; ⅛ bbl. . | .0½ | | |
| Cigars—not more than 3 lbs. per 1,000, per thousand.... | 1.00 | | |
| Weighing more than 3 lbs. per 1,000, per thousand.... | 3.60 | | |
| Cigarettes—more than 3 lbs. per 1,000, per thousand.... | 3.60 | | |
| Weighing less than 3 lbs. per 1,000, per thousand..... | 1.50 | | |

Principal Cities.

POPULATION, DISTANCE FROM NEW-YORK, AND DIFFERENCE BETWEEN MEAN AND STANDARD TIME.

| CITIES. | Population 1890. | Miles | Hours | Stan. Time | |
|------------------------|---------------------|-------|--------|-----------------------|------|
| | | | | - } Mean + } Time. | |
| New-York, N. Y..... | 2,321,644 | | | - | 4 m. |
| Chicago, Ill..... | 1,099,850 | 912 | 24. | - | 9 |
| Philadelphia, Pa..... | 1,046,964 | 90 | 2. | + | 1 |
| St. Louis, Mo..... | 451,770 | 1065 | 29.40 | + | 1 |
| Boston, Mass..... | 448,477 | 234 | 5. | - | 16 |
| Baltimore, Md..... | 434,439 | 188 | 4.09 | + | 6 |
| San Francisco, Cal.... | 298,997 | 3269 | 100.15 | + | 10 |
| Cincinnati, Ohio..... | 296,908 | 757 | 21.10 | - | 22 |
| Cleveland, Ohio..... | 261,353 | 595 | 14.20 | + | 27 |
| Buffalo, N. Y..... | 255,664 | 410 | 8.20 | + | 16 |
| New Orleans, La..... | 242,039 | 1371 | 48. | | 0 |
| Pittsburgh, Pa..... | 238,617 | 444 | 12. | + | 20 |
| Washington, D. C.... | 230,392 | 228 | 5.25 | + | 8 |
| Detroit, Mich..... | 205,876 | 646 | 16.55 | - | 28 |
| Milwaukee, Wis..... | 204,468 | 997 | 27.10 | - | 8 |
| Newark, N. J..... | 181,830 | 10 | .30 | - | 3 |
| Minneapolis, Minn.... | 164,738 | 1332 | 39. | + | 12 |
| Louisville, Ky..... | 161,129 | 867 | 24.30 | - | 18 |
| Omaha, Neb..... | 140,452 | 1402 | 41.30 | + | 14 |
| Rochester, N. Y..... | 133,896 | 371 | 6.55 | + | 11 |
| St. Paul, Minn..... | 133,156 | 1322 | 38.40 | + | 12 |
| Kansas City, Mo..... | 132,716 | 1385 | 41.30 | + | 19 |
| Providence, R. I..... | 132,146 | 188 | 4.01 | - | 14 |
| Denver, Col..... | 106,713 | 1974 | 60. | | 0 |
| Indianapolis, Ind..... | 105,436 | 825 | 22.30 | - | 16 |
| Albany, N. Y..... | 94,923 | 143 | 2.45 | - | 5 |
| Columbus, Ohio..... | 88,150 | 540 | 17. | - | 28 |
| Syracuse, N. Y..... | 88,143 | 291 | 5.28 | + | 5 |
| Worcester, Mass..... | 84,655 | 190 | 5. | - | 13 |
| Toledo, Ohio..... | 81,434 | 706 | 17.30 | - | 16 |
| Los Angeles, Cal..... | 65,000 | 3177 | 100. | - | 7 |
| Grand Rapids, Mich.. | 60,278 | 934 | 23.08 | - | 17 |
| Seattle, Wash..... | 57,542 | 3358 | 120. | + | 10 |
| Lincoln, Neb..... | 55,154 | 1460 | 30.30 | + | 22 |
| Des Moines, Iowa.... | 50,093 | 1270 | 41. | + | 14 |
| Portland, Or..... | 46,385 | 3226 | 112.30 | + | 20 |
| Salt Lake City, Utah.. | 44,843 | 2471 | 72. | + | 28 |
| Tacoma, Wash..... | 45,000 | 3209 | 128. | + | 9 |
| Savannah, Ga..... | 43,189 | 904 | 31. | + | 24 |

Foreign Coins.

| DENOMINATION. | COUNTRY. | Equivalent U. S. Money. |
|-----------------------------|------------------------|----------------------------|
| Alfonso..... | Spain..... | \$4.80. |
| Boliviano..... | Bolivia..... | .69.8 |
| Crown..... | Nor'y, Swed'n, Den'k. | .26.8 |
| Dollar..... | British America..... | 1.00. |
| "..... | Mexico..... | .75.8 |
| "..... | Spain..... | .94. |
| Drachma..... | Greece..... | .19.3 |
| Florin..... | Austria..... | .34.5 |
| "..... | Netherlands..... | .40.2 |
| Franc..... | France, Belg., Switz.. | .19.3 |
| 20 Kroner..... | Nor'y, Swed'n, Den'k. | 5.25. |
| Lira..... | Italy..... | .19.3 |
| Mark..... | German Empire..... | .23.8 |
| Milreis of 1000 reis..... | Brazil..... | .54.6 |
| "..... | Portugal..... | 1.08. |
| Peseta of 100 centimes..... | Spain..... | .19.3 |
| Peso..... | Chili..... | .91.2 |
| "..... | Cuba..... | .92.6 |
| Piaster..... | Egypt..... | .04.9 |
| "..... | Turkey..... | .04.4 |
| Pound Sterling (Sovereign) | England..... | 4.87. |
| Rouble of 100 copecks..... | Russia..... | .55.8 |
| Shilling..... | England..... | .24. |
| Sol..... | Peru..... | .69.8 |
| Thaler (3 marks)..... | Germany..... | .70. |
| Yen..... | Japan..... | .88.8 |

Explanation of the Currencies of the various Countries.

AUSTRIA AND RUSSIA.—The Paper Currencies are continually subject to important fluctuations.

In FRANCE, BELGIUM, SWITZERLAND, AND ITALY, 1 franc = 100 centimes. GERMANY, 1 mark = 100 pfennig. HOLLAND, 1 florin or gulden = 100 cents. NORWAY, SWEDEN, AND DENMARK, 1 kroner = 100 öre. UNITED STATES, 1 dollar = 100 cents. SPAIN, 1 peseta = 100 centavos. AUSTRIA, 1 florin = 100 kreuzer. PORTUGAL, 1 milreis = 1000 reis. GREECE, 1 drachma = 100 leptas. TURKEY, 1 piaster = 40 paras. RUSSIA, 1 rouble = 100 copecks.

Italian notes and silver are not current in France, Belgium, and Switzerland, but the silver of these countries passes current in Italy.

Help in Case of Accidents.

DROWNING.—1. Loosen clothing, if any. 2. Empty lungs of water by laying body on its stomach, and lifting it by the middle so that the head hangs down. Jerk the body a few times. 3. Pull tongue forward, using handkerchief, or pin with string, if necessary. 4. Imitate motion of respiration by alternately compressing and expanding the lower ribs, about twenty times a minute. Alternately raising and lowering the arms from the sides up above the head will stimulate the action of the lungs. Let it be done gently but persistently. 5. Apply warmth and friction to extremities. 6. By holding tongue forward, closing the nostrils, and pressing the "Adam's apple" back (so as to close entrance to stomach), direct inflation may be tried. Take a deep breath and breathe it forcibly into the mouth of patient, compress the chest to expel the air, and repeat the operation. 7. **DON'T GIVE UP!** People have been saved after **HOURS** of patient, vigorous effort. 8. When breathing begins, get patient into a warm bed, give **WARM** drinks, or spirits in teaspoonfuls, fresh air, and quiet.

SUNSTROKE.—There are two important indications for treatment—reduction of temperature and the use of stimulants. The patient should first be removed to a cooler spot if possible, or at least where shade can be secured. The treatment should be begun at once. The clothing about the neck and body must be either loosened or removed. Cold is particularly indicated in cases where there is great heat of the body, and delirium and convulsive movements are present. This means of reducing the temperature may be applied in the shape of cracked ice about the head and spine, or the use of cold water. If the heat of the body is very great, it may be necessary to wrap the patient in sheets wet with cold water. If there is, besides the great heat, evidence of serious depression, stimulants must be used while the cold is being applied.

HÆMORRHAGE.—The usual treatment is rest in the recumbent position; small pieces of ice should be freely swallowed, and the application of ice wrapped in a towel or in an ice-bag, or snow, cold water, etc., over the stomach; hot applications may be applied to the extremities.

FIRE IN A BUILDING.—Crawl on the floor. The clearest air is the lowest in the room. Cover head with woolen wrap, wet if possible. Cut holes for the eyes. *Don't get excited.*

Help in Case of Accidents.

BURNS AND SCALDS.—Cover with cooking soda and lay wet cloths over it. Whites of eggs and olive oil. Olive oil or linseed oil, plain, or mixed with chalk or whiting. Sweet or olive oil and lime-water. Shock, which is always present in severe burns, requires the administration of stimulants. Pain is more constant and intense in burns than in any other form of injury, and requires sedatives, which should be administered by the medical attendant. Later on the appearances of inflammation and other complications are to be carefully watched for.

SUFFOCATION FROM INHALING ILLUMINATING GAS.—Get into the fresh air as soon as possible and lie down. Keep warm. Take ammonia—twenty drops to a tumbler of water, at frequent intervals; also, two to four drops tincture of nux vomica every hour or two for five or six hours.

TESTS OF DEATH.—Hold mirror to mouth. If living, moisture will gather. Push pin into flesh. If dead, the hole will remain; if alive, it will close up. Place fingers in front of a strong light. If alive, they will appear red; if dead, black or dark.

MAD DOG OR SNAKE-BITE.—Tie cord tight above wound. Suck the wound and cauterize with caustic or white-hot iron at once, or cut out adjoining parts with a sharp knife. Give stimulants, as whisky, brandy, etc.

FIRE IN ONE'S CLOTHING.—*Don't run*—especially not downstairs or out-of-doors. Roll on carpet, or wrap in woolen rug or blanket. Keep the head down, so as not to inhale flame.

FIRE FROM KEROSENE.—*Don't use water*, it will spread the flames. Dirt, sand, or flour is the best extinguisher, or smother with woolen rug, table-cloth, or carpet.

CINDERS IN THE EYE.—Roll soft paper up like a lamp lighter, and wet the tip to remove, or use a medicine dropper to draw it out. Rub the *other* eye.

FAINTING.—Place flat on back; allow fresh air, and sprinkle with water. Place head lower than rest of body.

STINGS OF VENOMOUS INSECTS, ETC.—Apply weak ammonia, oil, salt water, or iodine.

LIGHTNING.—Dash cold water over a person struck.

Poisons and Antidotes.

FIRST.— Send for a physician.

SECOND.— **INDUCE VOMITING**, by tickling throat with feather or finger. Drink hot water or strong mustard and water. Swallow sweet oil or whites of eggs.

Acids are antidotes for alkalies, and vice versa.

ACIDS, MINERAL.— Chalk, magnesia (plaster off wall in emergency), solution carbonate of soda, emollient drinks, fixed oils.

ACID, CARBOLIC.— Any soluble sulphate, such as magnesia.

ACID, HYDROCYANIC.— Fresh air and artificial respiration, with cold effusion. Ammonia by inhalation and intravenously in vein of leg.

ACONITE.— Emetics, stimulants, external and internal; keep up external heat, keep flat on back.

ANTIMONY TART.— Vegetable acids, such as tannic acid, catechu.

ARSENIC.— Freshly precipitated hydrated sesquioxide of iron made by adding magnesia to any iron solution.

ATROPIA.— Same as Belladonna.

BELLADONNA.— Emetics — mustard flour in water; give physostigma or pilocarpine; cold to head.

CANTHARIDES.— Emetics, emollient drinks, opiates by mouth and rectum, large draughts of water to flush kidneys.

CHLORINE WATER.— Albumen, white of egg, milk, flour.

CHLOROFORM.— Fresh air, artificial respiration (inclining head down, pull tongue forward), brandy and ammonia intravenously in leg, the **HYPODERMIC** injection of 15 m. tincture of digitalis and 1-60 of a grain of atropine.

COLCHICUM.— Emetics, followed by demulcent drinks. If coma be present brandy, ammonia, coffee. Opium in large dose. Keep up external heat.

CONIUM.— Emetics, followed by stimulants external and internal.

CORROSIVE SUBLIMATE.— Albumen, white of egg (4 gr. sublimate require white of one egg), flour, milk. Equal parts of lime water and milk. Emetics, or evacuate stomach by pump.

Poisons and Antidotes.

COPPER SULPH.— Yellow prussiate of potash or soap.

CROTON OIL.— Emetics; wash out stomach, followed by mucilaginous fluids, containing opium.

DIGITALIS.— Recumbent posture after emetics. Emetics and opium; give tincture aconite.

ELATERIUM.— Demulcent drinks, enemata of opium, and external heat.

HYOSCYAMUS.— Stomach pump, emetics, stimulants external and internal, physostigma and pilocarpine.

ILLUMINATING GAS.— Hypodermic injections of nitroglycerin are recommended by Kloman, of Baltimore.

IODINE.— Emetics and demulcent drinks, starch or flour diffused in water, opium and external heat.

LEAD SALTS.— Any soluble sulphate, either magnesia or soda, succeeded by emetics, and afterwards by opium and milk.

LOBELLA.— Stimulants externally and internally; external heat.

MORPHINE.— Same as opium.

NUX VOMICA.— 30 grs. of chloral and 60 grs. of bromide of potash. Nitrite of amyl.

OPIUM.— Atropine hypodermically till respirations number 8 per minute. Stomach pump, stimulants, external and internal, brandy and coffee, cold affusion, ammonia to nostrils, galvanic shocks, compelling to move about, artificial respiration, electric brush. Permanganate of Potash.

OXALIC ACID.— Lime, not potash or soda.

PHOSPHORUS.— Sulphate of copper in emetic dose as chemical antidote. No oils. Emetics and purgatives.

POTASH AND SODA SALTS.— Dilute acetic acid, citric acid, lemon juice, fixed oils, demulcents, vinegar.

SILVER NITRATE.— Solution of common salt and demulcent drinks. Emetics.

STRAMONIUM.— Same as Belladonna.

STRYCHNINE.— Same as Nux Vomica.

TOBACCO.— Emetic, stimulants, external and internal, strychnine, external heat.

ZINC SALTS.— Carbonate of soda, emetics, warm demulcent drinks.

**Things
Easily forgotten.**

The No. of my Bicycle.....

Weight.....

Height.....

Size of my Hat.....

" Gloves.....

" Hosiery.....

" Collar.....

" Cuffs.....

" Shoes.....

Name.....

Address.....

Cambridge.

Wea. MON. JAN. 1, 1900 Ther. 17°-8 a.m.

First snow storm of the winter 20°-1 P.M.
beginning about daybreak & lasting until
4 P.M. ten inches of fine, dry snow falling

Spent the whole day in Museum working
on some notes made last summer
at Peterboro recasting & rewriting them.
Purdie went to Boston in A.M.
no calls to-day. A single Chickadee
which visited the nest in the elm was
the only bird noted

Wea. TUESDAY 2 Ther. 14°-8 a.m.

Cloudless with little wind, a
fine winter day, 26°-1 P.M.

Dryobates pubescens. Feeding nest in elm 8 a.m.

Spent the day in Museum working
on the notes made at Peterboro last summer.
While Purdie & I were at lunch we saw
four Gray Squirrels in a maple outside.
Two of them struggled long & stubbornly
for a large piece of bread.
no calls to-day.

Cambridge.

Wea.

WED. JAN. 3, 1900

Ther.
14°-8 a.m.

Clear and calm

No birds in the garden to-day.

Clangula americana.. 12 diving off Harvard Bridge
Sarus a. north.. Only one " " "

Spent a.m. writing in museum.

To Boston in P.M. Had some teeth filled at Dr. Rowd's, bought a set of taxidermist's tools at Codman's, called at Ferriss's, bought 8 Pigeons on Court St. & got back at 6.30 P.M. Spent evening with Percie working alone.

Wea.

THURSDAY 4

Ther.
5°-8 a.m.
20° 1 P.M.

Clear & still.

Chickadee heard in garden

Spent the day in museum working on the journal notes for last summer. Received a young Sabine's & a young Iceland Gull from Lord. Both birds were taken near Portland, Me. Lord also sent for identification a hybrid between the Mallard & Black Duck. The case has been sold & is now on return. It has more green on the head than my hybrid & the bills are more buffy & nearly unaccented. C. returned from New York this P.M. but his bill was

Cambridge.

Wea.

FRI. JAN. 5, 1900

Ther.
20°-8 a.m.

Cloudy with light S. wind & 1. 40°-8 P.M. rising temperature. Snow thawing rapidly in P.M.

Dryobates pubescens - heard in garden.

To Boston at 9 a.m. met J. S. Brewster & Arthur Estabrook at our office & talked about the Kingbird affair. Dr. Munkland dropped in by chance & joined the discussion. It was practically decided to remove Kingbirds quietly but at once. Estabrook opposed this plan. Dined at Parthen & came home at 4 P.M. Bought some plants at Carbone's.

Wea.

SATURDAY 6

Ther.
40°-8 a.m.

Morning overcast, the clouds breaking away before noon. Skinning all gone. 36°-5 a.m.

Cyanocitta cristata.. One heard in garden by W. Deane.

Dryobates pubescens.. 2 at tree in elms 8 a.m.

Colaptes auratus.. One in garden.

Clangula americana 12 off Harvard Bridge.

Spent a.m. in museum writing. To Boston in P.M. to have more teeth filled. C. went to Concord to lunch at the Heyess's & to visit the farm. Five English Sparrows have been living there for a week or more.

Cambridge.

Wea. SUN. JAN. 7, 1900 Ther.
 Clear and mild. 24° 8 a.m.
 40° 1 P.M.
 38° 6 ..

Spent day in Museum writing letters & working on last summer's notes. Packed with me through the morning. In P.M. we walked to Mt. Auburn & Fresh Pond seeing one or two Brown Creepers & hearing a whistler. There were no birds in the garden to-day. My knee which was bruised by a fall last Sunday is troubling me a good deal.

Wea. MONDAY 8 Ther.
 Clear with rising N.W. wind & gradually falling temperature. Streets bare & muddy but most of the ground elsewhere still covered with sudden snow.
 40° 8 a.m.
 38° 1 P.M.
 22° 6 ..

Colaptes auratus - One in garden.

Spent day in Museum working on last season's notes.

Cambridge.

Wea. TUES. JAN. 9, 1900 Ther.
 Brilliantly clear, calm, dry cold. 10° 8 a.m.
 26° 1 P.M.

No birds in garden.
Colaptes auratus about 50 between the bridges.
 To Boston at 10 a.m. visiting office and dining at River House.
 Bought 21 Pigeons at the Bird Store in Court Street. Among them were a pair each of red & cream tumblers, of black tumblers, of black, white & blue fan-tails, of pointers & two or three cross-bred birds. F.C. Browne died at 5.30 P.M.

Wea. WEDNESDAY 10 Ther.
 38° 8 a.m.

Cloudy A.M., clear P.M. with falling therm. 22° 6 P.M.
Parus atricapillus (5) in garden.
Certhia americana - One in garden
Regulus satrapa - Heard distinctly ..
Spizella monticola - One in garden.
Ampelis cedrorum (65+) Mt. Ash, Dodge's Spools & Co.

To Boston at 11.30. A tooth filled at Dr. Rand's, lunch at Athletic Club, Trustees' meeting at office (2-3 P.M.) meeting Audubon Directors at Mrs. Coburn's (4-5.30) after dinner tea at Mrs. Cunningham's (5.30-6 P.M.)
 Drove out in coupe with C.

Cambridge

Wea. THUR. JAN. 11, 1900 Ther. 14° - 8 a.m.

Cloudless morning, threatening afternoon 25°. P.M. with 2 inches of sticky snow followed by heavy rain at night.

Parus atricapillus 1 met at museum.

Dryobates pubescens 1 " in elms

Spent day in Museum, writing on bird notes in A.M. making down nesting boxes for ten Peewees in P.M. To Tremont Theater this evening with C., E., R. S. & the W. Deans to see Mrs. Fisher as "Becky Sharp". She good, the support poor.

Wea. FRIDAY 12 Ther. 38° - 8 a.m.
36° - 8 p.m.

Cloudy with fine rain in A.M.

Parus atricapillus 1. eating seeds } in our
Certhia f. americana 1 on crab apple } garden
Amphisp. cedrorum 1 a scout, apparently, }
out trying for berries

Day spent in Museum writing on the notes in A.M., at letters in P.M. No calls.

Received from Manly Hardy for examination a specimen of *Arctostelea scalaris* labeled "*Papilio scalaris*" ♀. Inlet, New Zealand '98. It agrees very closely with my type but has the white edging of the dorsal feathers less marked & the lower folded with less dusky mottling.

Cambridge

Wea. SAT. JAN. 13, 1900 Ther. 26° - 7.30 a.m.

Cloudy, "spitting" snow - a raw disagreeable day.

Dryobates pubescens - one in garden

Colaptes auratus - one eating fruit of P. apple in garden

Megascops asio - one working in Peckham place, Gargi St.

Spent A.M. working on the bird notes;

Called on Faxon at M.C.Z. in P.M. & discussed Dwight's plan for an Index of Auk & Bull. N.O.C. Mr. & Mrs. Emerson & Florence dined with us at 6.30.

The Kimball matter settled at last. He leaves the school & Wolfboro on or before Jan. 29th & Chadwick takes his place.

Wea. SUNDAY 14 Ther. 22° - 8 a.m.

A.M. Brilliantly clear, calm. Cloudy in late P.M. snowing from 6-8 P.M. about 2 inches falling.

Colaptes auratus - one calling ki-ee in garden.

Spent A.M. in Museum writing. In P.M. drove with C. through the new park on the Brighton marshes & back by way of E. Water town. No birds seen. Began Ford's fine novel "Peter Sterling" in evening. E. R. S. reading it aloud.

Cambridge

Wea. MON. JAN. 15, 1900 Ther. 32°-8 a.m.

Clear & calm. The trees in early morning powdered with snow which clung to every thing.

38°-1 P.M.

Corvus americanus - one in lindens.

Dryobates pubescens - " " elm.

Driving with C. in sleigh 9-10 a.m.

Spent day working on last summer's journal sheets & bird notes, no callers.

Gray Squirrels eating beet greedily this winter though they did not touch it last.

Pigeons laying freely for the past two weeks.

Word came to us this morning that a cousin Mrs. F. H. Manning died yesterday in Philadelphia on Saturday. I drove in town & had a call this evening.

Wea. TUESDAY 16 Ther. 38°-8 a.m.

Fine, drizzling rain in A.M. 44°-3 P.M.
P.M. clear, calm & warm

Parus atricapillus - 2 in garden, W.D.

The day was broken up for me by Mrs. F. H. Manning's funeral at St. Stephen's church at 12. C. & I drove in at 10.30. I was one of four ushers. There were few people I knew besides the Mannings, Greenoughs, Lucas & May (Harvard). Service by Mr. Hall. Dined at River House. Bought a pair of ruff necked Pigeons & a pair of turtle doves.

Cambridge

Wea. WED. JAN. 17, 1900 Ther. 31°-8 a.m.

Clear with moderate W. wind & slowly falling temperature. 27°-1 P.M.
26°-6 P.M.

Dryobates pubescens - ♂ in garden at museum

Spent A.M. working on the notes.

R. H. Howe Jr. & George Shattuck called in P.M. bringing them skins of Black Ducks that I wanted to see & a Horned Lark shot at Ipswich (by Howe, last October which Foxon has thought might be *arenicola*. It looked to me like a *pala pacifica*).

Wea. THURSDAY 18 Ther. 23°-8 a.m.
30°-1 P.M.

Cloudy, calm, chilly

Sitta carolinensis - one in garden (a ♀ I thought).

Parus atricapillus (4) in garden

Dryobates pubescens ♂ at Museum sent.

Corvus americanus heard cawing in lindens at 7 a.m.

Certhia f. americana - One in garden.

Regulus satrapa - " " "

Amphisp. cedrorum " " "

Spent day in Museum writing on the notes. No callers. Our dining club met at Thayer's this evening all because of apt Jeffries & Chubbdown.

Cambridge.

Wea. FRI. JAN. 19, 1900

Ther.

45° 8 a.m.

55° 1 P.M.

Cloudy, calm, very mild.

Certhia f. americana 1 in gardenParus atricapillus 1 " "Ampelis cedrorum (36) Spent whole day in gardenDryobates pubescens ♂ sent to museum " "Corvus americanus 3 flying over " "

Spent most of day writing. To Harvard Sq. in P.M. buying from Morris. Skinned two

Green Scamps received in Dec. from the breyoid.

Wea. SATURDAY 20

Ther.

42° 8 a.m.

45° 1 P.M.

Cloudy & calm with dense fog & steady, fine rain. Day dark & gloomy. Snow nearly all gone & larvae as well as their bare over snow.

No birds in garden. A ♂ Downy Woodpecker on Resident Street.

Made up the Duke Allen's & water letters in A.M. Received a good letter from H. W. Henderson written at Hills, Dec. 31/99.

Miss Marion Keyes came from Concord to go to the Dramatic Club, with us this evening. The play "Dandy Dick" was one of the best things in our land for years.

Cambridge.

Wea. SUN. JAN. 21, 1900

Ther.

27° 8 a.m.

28° 1 P.M.

28° 6 P.M.

Clear with high N.W. wind.

Scozia leucophaea 6 flying over Craigie St. near the Parkline

Visited the greenhouse at Botanic Gardens with Miss Keyes in forenoon, walking both ways. The Will Stones, Purdie & Walter Deane dined with us & we all went to Walter's in P.M. to see his herbarium. Miss K. returned to Concord by the evening train.

Saw several Gray Squirrels at once in our garden. Has never been more than five before.

Wea. MONDAY 22

Ther.

28° 8 a.m.

48° 1 P.M.

Clear & calm. Snow & ice practically all gone.

Dryobates pubescens (3 ♂ & ♀) crab apple tree in garden
Corvus americanus (2) flying over garden

Spent day in museum working on notes. No callers. A young Glaucous Gull received in flesh from Lord of Portland.

Gilbert has been absent since Monday when his baby fell ill of diphtheria.

Cambridge.

Wea. TUES. JAN. 23, 1900 Ther.
40-8 a.m.
52°-1 P.M.
44°-8 P.M.

Alternating clouds & sunshine with
light W. wind

Ampelis cedrorum - (12) eating *V. sp.* in garden
Dryobates pubescens - ♂ " seen in "Elabothk" "

Spent the forenoon in Museum working on
the bird notes & journal. To Boston in P.M.
with C., E. R. S., & Mrs. Walter Dean to see
the "Diamond Robbery" at the Court St. Theatre
It was well acted but sensational.
Almy called in the evening.

Wea. WEDNESDAY 24 Ther.
14°-8 a.m.
24°-1 P.M.
23°-6 P.M.

Early morning clear & bracing. Rest
of day cloudy & chilly with frequent
of snow.

Certhia f. americana - heard in garden
Dryobates pubescens - ♀ seen " "

Spent day in Museum. Finished the
1899 journal & began posting the field
list. No calls.

Cambridge.

Wea. THUR. JAN. 25, 1900 Ther.
24°-8 a.m.
29°-1 P.M.

Cloudy with fine drizzling rain
freezing as it struck - a gloomy day.
Two very heavy showers in P.M.

Parus atricapillus - (2) in garden
Dryobates pubescens ♂ visited nest at Mrs. Thier.
Corvus americanus (2) flying over.

Spent day in Museum posting last
season's notes into my field book.
No calls.

Wea. FRIDAY 26 Ther.
33°-8 a.m.
26°-1 P.M.
14.6 ""

Clear with violent N.W. wind &
falling temperature.

Dryobates pubescens ♂ visited Mrs. Thier

Spent day in Museum. Finished posting
last season's notes. Outram Bangs
called to work over my *Picoides* series.
He will separate the Ft. Klammath *P. arcticus*
& the Labrador form of *P. americanus*.
He stayed to lunch & Alice Keyes also
dropped in to make a fifth.

Cambridge.

Wea. SAT. JAN. 27, 1900 Ther.
 14° - 8 a.m.
 Clear; wind N. W., decreasing. 24° - 1 P.M.

In the Garden 22° - 7 P.M.
Parus atricapillus 1. (I choose call for time)
Dryobates pubescens ♂ visited me this.

Spent day in Museum preparing journal for binding. Constant Grunough came to dinner & C. A. Bishop called in P.M. He had nothing to say about local birds as he has not been out for the past month. C. went to Andover this afternoon to stay at my cousins until Tuesday.

Wea. SUNDAY 28 Ther.
 20° - 8 a.m.
 A. M. clear; P. M. cloudy. Snow 36° - 1 P.M.

Began falling at 6 P.M. changing to heavy rain later in the evening & lasting all night.

Regulus satrapa.. heard in garden

Parus atricapillus " " "

Dryobates pubescens " " "

Pinicola canadensis.. at Abington Sts. - Haffmann.

Spent A. M. in Museum. Dined at the Thayers with Mr., Mrs. & Miss Thayer, Mrs. Sumner & Irving. Started for W. Newton at 4 P.M. & spent night at Melvins. Mr. & Mrs. James called in evening.

Wea. MON. JAN. 29, 1900 Ther.
 32° - 1 P.M.
 Early morning rainy clearing before noon. P.M. blustering N.W. 24° - 5...
 wind & falling temperature.

Parus atricapillus.. one in garden.
Dryobates pubescens.. 1. at sent in.

Returned from the Melvins' this morning stopping at Dees greenhouse & buying a lot of plants. Spent day in Museum working on the bird notes.

Wea. TUESDAY 30 Ther.
 14° - 7 a.m.
 Clear with light W. wind. 30° - 1 P.M.
 24° - 6 " "

Dryobates pubescens ♀ in garden.

Spent day in Boston. Trustees meeting 11.30 A.M. to 2 P.M.

Verified the specimens at Safety Vault & found them all right. Afterwards called on Frank Manning & went to Charles' with Nell & son Jr.

Wea. WED JAN. 31, 1900 Ther.
 30° 8 a.m.
 Cloudy with a light dust of 34° 1 P.M.
 snow. 31-6° "

Dryobates pubescens ♂, ♀ in garden.
Syrnium nebulosum - One seen in Norton's woods by Faxon, Hoffmann & Purdie.
 Spent day in Museum. Dr. Bishop called in a.m. & lunched with us. He brought down birds which he collected on the Yukon last summer, among them new forms of *Parus hudsonicus*, *Sayornis sayi* & *Contopus rich.*
 Mr. Abbott Frazar called in P.M. bringing a hybrid group, a Gos hawk & some White Is. Crosses all of which I took in each for Mexican skins.

Wea. THUR. FEB. 1 Ther.
 8° - 8 a.m.
 Clear with fresh N.W. wind 17° - 1 P.M.

Parus atricapillus 1: in garden.

Spent day in Museum. Began on an article for Bird Lore choosing the specimens with the young Whistlers at Bernard's Pond in 1897. I struggled all day on the opening paragraph & got nothing for my pains.
 To Boston at 6 P.M. via C. at the Brunswick. We took tea with the Stones at the Hotel & saw a lot of fine slides afterwards.

Wea. FRI. FEB. 2, 1900 Ther.
 7° - 8 a.m.
 Clear with moderate W. wind. 17° - 1 P.M.
 14° - 6° "

Dryobates pubescens ♂ visited nest four times }
Colaptes auratus (2 ♂) eating Parkman's apples }
Corvus americanus ♂ flying over }
 in garden

Spent day in Museum working on the Whistler article and making almost no progress. It is trying to be considered a writer & yet to be unable to write.
 No calls except Story whom I did not see.

Wea. SATURDAY 3 Ther.
 12° - 8 a.m.
 Clear with fresh west wind. 24° - 1 P.M.
 21° - 6° "

Spent the whole day in the museum working on the Whistler article. The Raven escaped from his cage early in the forenoon & flew up into the linden at the E. end of the house where I exposed several plates on him from one chamber window. He opened the door when first disappointed before house. Walter Deane went to Norton's woods with Faxon to see a Barred Owl that has been living there for some time. It was in the neighborhood in a year or two.

Wea.

SUN. FEB. 4, 1900

Ther.

28° - 8 a.m.

Cloudy & calm with slowly rising temperature 36° - 1 P.M.
and rain at evening & through the night.

Regulus satrapa ② in willow

Dryobates pubescens 3

Colaptes auratus - heard

Ceryle alcyon, one on pile, Charleston, E. Waterman

A.M. Drove to Chestnut Hills to call on
Miss Hayes & Mrs. Gay.

P.M. Attended lecture by Dean Hodges at St. Johns
Church & called at the Hayes' with C.
Two "marsh" boys caught the Raven in the Baron Mupp
yard this evening & brought him back to me.

Wea.

MONDAY 5

Ther.

38° - 8 a.m.

A.M. Cloudy with rain & snow squalls 34° - 1 P.M.

P.M. clear. Violent W. wind all day 30° - 6 P.M.

Heavy rain fall last night & early this morning.

Dryobates pubescens. - 3 visited nests

Spent day in Museum. Skinned Puffin &
wrote letters in A.M. In P.M. a man
called to plan for wiring the museum for
electric lights.

Mutual Club met this evening, talked by
Strong on his methods of measuring characters.
Rather small meeting

Wea.

TUES. FEB. 6, 1900

Ther.

24° - 8 a.m.

Cloudy, calm, chilly, clearing in late P.M.

Dryobates pubescens 9

Colaptes auratus 1

Spent day in Museum working on the
Whistler article. I seem to have lost what
I had given at writing I have now possessed.

Wea.

WEDNESDAY 7

Ther.

24° - 8 a.m.

Clear, calm, mild; a rare day
for midwinter. 37° - 1 P.M.
34° - 6 P.M.

Spent the day working on the Whistler
article making slow progress. The
man began wiring the Museum for
electric lights. E. J. Maynard called
in P.M. He tells me that Foster H. Brackett
died last month & that he has bought his
entire collection.

Wea.

THUR. FEB. 8, 1900

Ther.

36° 8 a.m.

39° 1 P.M.

39° 6"

Cloudy & calm with fine,
icy rain beginning at 10 a.m. &
lasting until the night.

Dryobates pubescens ♂ visited sent
Boya leucophaea. I had heard by W. Deane
in Observatory ponds.

Working all day on Whistler article &
still making almost no progress.
No catches.

Wea.

FRIDAY 9

Ther.

39° 8 a.m.

40° 1 P.M.

40° 6"

Very heavy rain last night, decreasing
rain all day.

Dryobates pubescens ♂ visited sent

Spent day in Boston. Trustees meeting
11.30 - 1 to consider nominations & was open.
Dined with Estabrook & J. L. B.
Ordered two new cameras of Lloyd, a Reflex
& a long focus Ray. Bought a pair of
Black Turnstones, Dragons, Boobies & common
white Peppers. C. came to Boston for the night

Wea.

SAT. FEB. 10, 1900

Ther.

30° 8 a.m.

36° 1 P.M.

Cloudy & calm.

Megascops asio. Seen in garden at 8.30 P.M.

Parus atricapillus 1 ♀ in garden

Dryobates pubescens hatched. " " "

Mimus migratorius (25) Waltham - Boston.

Spent day in Museum working on
Whistler article. Lotthrop called in P.M.

The Cummings & Roland Hayward
dined with us at 7 P.M. Roland saw
a Screech Owl fly from the catalpa to the
old cedar as we were going to the museum at 8.30
P.M.

Wea.

SUNDAY 11

Ther.

36° 8 a.m.

38° 1 P.M.

36° 6"

Cloudy with flurries of snow,
the ground dusted lightly with
snow in the early morning

No birds in garden to-day.

Spent a.m. in Museum writing letters.
Purdie & the Miss Stones dined
with C. & me at 1 P.M.
Purdie walked through Mr. Auburn in
the forenoon seeing there a solitary
Pine Grosbeak & a Sharp-shinned Hawk.

Wea.

MON. FEB. 12, 1900

Ther.

36° 7.30 a.m.

Cloudy & calm with a drizzling
rain & chilly air.

43° 1 P.M.

42° 6"

Dryobates pubescens ♂ visited nest.

Spent day in Museum working on the
Whistler article which is nearing
completion. I have Batchelder, Kennard
& Somburger called in P.M. Kennard
describes a Warbler which sounds like H. celata
which is wintering in Bristol.
Gilbert returned to work to-day after
an absence of four weeks.

Wea.

TUESDAY 13

Ther.

51° 8 a.m.

Violent S.W. storm with torrents
of rain falling all day. There
has been no snow or ice this month &
the frost is apparently all out of the
ground now for the rain water soaks in.

58° 1 P.M.

57° 6"

Dryobates pubescens. ♂ visited nest.

Spent day in Museum working
on Whistler article. No calls.

Wea.

WED. FEB. 14, 1900

Ther.

30° 8 a.m.

Brilliantly clear with high N.W. wind

36° 1 P.M.

34° 5.30 a.m.

Dryobates pubescens ♂ visited nest.

Spent day in Museum. The writing
goes better. I began an article on
Louisiana Finch this morning and
finished it by afternoon. At 5 P.M.
went with C. to the Spelmann's to
see the baby. No calls to-day.

Wea.

THURSDAY 15

Ther.

30° 2.30 a.m.

Cloudy & calm.

43° 1 P.M.

Spent day in town. To Court House at
10.50 to witness 2 motions to Betty Manning
and. Then to 33 Congress St. for a talk
with Estabrook about a new room for birds
Dined at Puller's. Then to Lloyd's &
Clark's. Then to Keith's Theater where I
spent 2 hours. Then to Athletic Club where
I put on my dress suit to call at the
Cummings. Spent the evening at Jackson's
with the Ice Cream Club. Jeffers & Chubb
were absent.

Wea.

FRI. FEB. 16, 1900

Ther.

24° 7.30

Colder, calm, the sun half veiled
by gauzy clouds.

30° 1 P.M.

28° 6 P.M.

Parus atricapillus (5) *Sitta canadensis* (5),
S. carolinensis ♀ - Brookline

Spent A.M. in Museum working on Swainson's
sparrows article. In P.M. Walter & I drove
over to Brookline to call on the Messrs Kendall
They have been being daily for weeks a strange
bird, probably an Orange-crowned Warbler, which
has visited their lawn & eaten of its fruit. This
bird did not appear during our call but we
saw the birds later about. Lots of the
chickadees perched on & took seeds from my
hand.

Wea.

SATURDAY 17

Ther.

24° 8 a.m.

Cloudy and very chilly. Fine snow
began falling at 5 P.M. continuing
through the night.

28° 1 P.M.

24° 6 " "

Dryobates pubescens ♂ visited here.

To Newtonville at 10 a.m. to call on
Maynard. Bought of him a number of birds
from the Pease collection, supposed to be Wilson's
types. A Night Hawk & Glossy Ibis were
evidently the subjects of Wilson's papers & those of
Maynard had the specimens of the Boston Society
& Museum they were given by Boston Museum.
Dined at the Walter Deans at 7 P.M. with
the fellows & Prof. Georges, an elaborate,
frittery dinner. Lothrop called in P.M.
bringing a Cambridge that Widgeon as a gift.

First snow storm since Jan. 1. Cambridge.

Wea.

SUN. FEB. 18, 1900

Ther.

18° 8 a.m.

Clear with high N.W. wind.

23° 1 P.M.

The snow storm continued through
last night & up to 8 a.m. to day when nearly
18 inches of fine, dry snow had fallen drifting
badly in exposed places. Up to this time
the ground everywhere, even in dense woods
& all covered as well as here, has been
wholly free from snow since the month began.

Dryobates pubescens ♂ visited here.

Spent day in Museum reading & writing letters.
Botchelder called in forenoon, Will Stone in P.M.

Wea.

MONDAY 19

Ther.

12° 6 a.m.

Clear with strong N.W. wind.

26° 1 P.M.

Dryobates pubescens ♂ ♀ in garden.

Spent day in Museum writing.
Will Stone called to borrow my large camera.
Karl, driving on Huron Avenue with his
wife & child, tipped the sleigh over &
Dandy, escaping, trotted freely to his stable,
being firmly stopped by two boys on Brookline
Kuller Club meeting this evening.
Have called about birds of Penobscot Bay.

Wea.

TUES. FEB. 20, 1900

Ther.

14° 6.30

Clear with moderate W. wind.

35° - 1 P.M.

Colaptes auratus 1 in lindens*Corvus americanus* 1 " "*Parus atricapillus* heard, *Sitta carolinensis* ♀ } Species*Coccyzus leucopterus* (♂♀), *Spizella monticola* } in(5), *Dryobates pubescens* ♂ } Camb. Observatory groundsSpent most of day working in museum.
Walked to Observatory grounds after lunch.

Wea.

WEDNESDAY 21

Ther.

18°

Clear & calm

40° 1 P.M.

37° 6 "

Colaptes auratus ♂♀ in garden*Corvus* 1 " "Had a headache all day but
kept at work until evening.
When I went to bed I felt
certain that I was in for
a fit of sickness of some kind.

Wea.

THUR. FEB. 22, 1900

Ther.

Heavy rain storm with heavy
E. wind lasting all day & more of the
following night & removing nearly all
the snow which has given us
good sleeping snow the 18th.Was too ill to rise this morning. When
Dr. Dixon came to see me he
told me that I had the grippe.

Wea.

FRIDAY 23

Ther.

Slight showers in forenoon
clearing in late afternoon.

Wea.

SAT. FEB. 24, 1900

Ther.

Forenoon clear. Clouds gathering in P.M. with a rising S. wind developing a storm which began soon after midnight with a heavy cloudb of thunder followed by bursts of rain

410

Wea.

SUNDAY 25

Ther.

The heavy storm of last night ceased at day break. The rain has fallen off all the remaining snow.

24° - 1 P.M.

Wea.

MON. FEB. 26, 1900

Ther.

Brilliantly clear with violent W. wind.

14° - 6 A.M.

20° - 1 P.M.

I am stronger to-day but my cough is still troublesome & my temperature also normal. Dr. Dine will not consent to my getting up. C. & E. R. S. take turns reading to me & I do some reading myself at Townsend's Narrative a fascinating book.

Wea.

TUESDAY 27

Ther.

Brilliantly clear with moderate N.W. wind. The coldest day of the whole winter.

-3° - 6.30

8° - 1 P.M.

For about half an hour after sunrise the Squirrels hole in the big linden in front of my window steamed like a huge tea-kettle. Indeed the steamer fairly poured out in wreaths & jets and was driven back by the W. wind. It must have been the breath of less 3 or 4 Squirrels when they kept their places inside all day.

Wea.

WED. FEB. 28, 1900

Ther.

A dull cold day with very little
 sun. In p. m. wind changing from
 East to S.E. (I had a bad night,
 but slept somewhat during the
 morning.) 8°

Wea.

THUR. MARCH 1

Ther.

Drizzling, slaty rain, growing heavier.
 Very slippery. Very strong wind, E. to S.E.
 (Had a better night.) 18°

Wea.

FRI. MARCH 2, 1900

Ther.

A cloudy morning, clearing; 33°
 Afternoon bright. Very strong, gusty
 West wind, changing to South-west and
 North-west

Wea.

SATURDAY 3

Ther.

A bright windy day, gusty and brilliant.
 Wind West, veering to N.W. & S.W. 26°

Wea.

SUN. MARCH 4, 1900

Ther.

23°

33°

Rather cloudy, wind weak.

Wea.

MONDAY 5

Ther.

22°

44°

Snowing in the night and early morning
cloudy and still.

(A good night, coughing my little).

Wea.

TUES. MARCH 6, 1900

Ther.

18°

38°?

Wind east, snowing through the
morning quietly, to about two inches
in depth. Stopped in afternoon, but still
cloudy.

Wea.

WEDNESDAY 7

Ther.

21°

37°

Gusty west wind, bright day.

Wea.

THUR. MARCH 8, 1900

Ther.

21°

38°

A perfect day, sunny, still and
bracing.

Walter tells me that about a dozen yellow
crocus flowers appeared in front of the
Museum. To-day some were
now fully open. Several have also
also thrown themselves.

Wea.

FRIDAY 9

Ther.

21°

36°

Much like yesterday, but slightly
overcast in afternoon

Some of the crocuses were
fully open this morning Walter
says

Wea.

SAT. MARCH 10, 1900

Ther.

26°

46°

Warmer than Thursday & Friday, &
with more clouds. Mild heat.

Walter reports a few squirrels in
blow to-day.

Wea.

SUNDAY 11

Ther.

16°

46° ?

Cold, bright, & windy. N. & N.W.

Wea. MON. MARCH 12, 1900 Ther.
Very cold. Bright sun, windy. 6°
26°

Wea. TUESDAY 13 Ther.
Pleasant. Cool, with East Wind. 15°
26°

Wea. WED. MARCH 14, 1900 Ther.
Perfect: hazy and still. 16°
32°

Wea. THURSDAY 15 Ther.
Chilly and cold, beginning 19°
to snow about four or a little 45°
later.

Dressed & went down stairs for
first time spending afternoon &
evening in the den.

Wea.

FRI. MARCH 16, 1900

Ther.

23°

Very heavy rain, following snow in the night, and clearing at noon. Afternoon clear, bright and warm.

54°

Wea.

SUN. MARCH 18, 1900

Ther.

9° 6 a.m.

Clear & cold with moderate W. wind

28° 1 P.M.

Spent day in my den. C. read to me in a.m. & P.M. I am still very weak & good for nothing.

Wea.

SATURDAY 17

Ther.

20°

Bright and cold, fresh wind.

55°

Wea.

MONDAY 19

Ther.

~~34°~~ 70 a.m.

Sunny but hazy; calm; very mild. 58° 1 P.M.

Much better this morning. Went out to Museum in forenoon spending two hours there. Nearly all the crocuses in bloom. Saw a honey bee in a snow drop blossom.

Wea. TUES. MARCH 20, 1900 Ther.
 53° 6.30
 Forenoon cloudy; afternoon
 clear. 54° 12.45
 50° 4 P.M.

Dryobates pubescens - ♂♀ visited nest.

Visited the Museum twice to-day
 10-12 A.M. & 2-4 P.M. Was
 too weak to do more than write
 a couple of letters and look over some
 of the accumulated work.

Wea. WEDNESDAY 21 Ther.
 23° 6.30
 38° 1 P.M.
 Sunny but with the sky filled
 with clouds driving before the
 strong N.W. wind. An day when
 a raw & rather typical March day.

4 Chickadees visited the nest.
 Goldfinch singing loudly & its voice in
 an apple tree in the garden.

Spent most of the forenoon & part
 of the afternoon in the museum.
 My strength comes back very slowly.

Wea. THUR. MARCH 22, 1900 Ther.
 23° 6 A.M.
 Clear with light N.W. wind 42° 2 P.M.
 44° 4 P.M.

Ampelis cedrorum (15) visited garden
Spinus tristis - ♂ in plain winter plumage
 feeding on cherry seeds in garden & singing
 almost constantly the while in low sweet
 tones

Spent most of the forenoon & the early
 part of the afternoon in the museum
 reading most of the time. Walked
 around the garden in the evening.
 my longest excurion thus far.

Wea. FRIDAY 23 Ther.
 34° 6 A.M.
 54° 12 M.
 Forenoon cloudy & calm. P.M. clear with strong W. wind

Passerella iliaca (2) in garden
Colaptes auratus 1 ♂ in linden 7 A.M.
Corvus americanus (8) migrating high up
Dryobates pubescens ♂♀ visited nest.

Spent most of day in museum.
 Started on drive with C. at 2 P.M.
 but went only as far as Appleton & so
 returned it proved to windy & chilly.

Wea. SAT. MARCH 24, 1900 Ther.
Clear & cold with strong N. W. wind 27° 60. W.
34° 1 P. M.

Luscalus aeneus ♂ on ground in garden
Dryobates pubescens ♂ ♀

Spent a long day at the Museum
& walked about the garden a
good deal. I am much stronger
to-day.

Arthur Bangs called in the
forenoon, C. E. Bailey in the
afternoon.

Wea. SUNDAY 25 Ther.
Clear & calm. Ground muddy
or frozen, grass brown.

In the Garden:
Passerella iliaca 1. in lilacs
Corvus americanus (4) flying over bus depot
Cyanocitta cristata (3) in lilacs 10 a.m.
Colaptes auratus 1 ♂ in early morning
Dryobates pubescens ♂ ♀ in the yard.

Spent most of day in Museum.
Wrote a few letters in a.m. In P.M.
Will Stone came over & stayed to
tea.

Wea. MON. MARCH 26, 1900 Ther.
Cloudy with snow storm 22°
beginning at 5 P.M. 42°

Melospiza melodia 1 feeding on Chelidonium seeds

Passerella iliaca 1 " " " "

Dryobates pubescens

Spent the day in Museum
taking a walk through Highland
Park in the forenoon.

F. M. Chapman came on from New York
to lecture on Cornell Res. & spent
the afternoon with me.

Wea. TUESDAY 27 Ther.
Alternating clouds & snow. 27°
About 2 inches of damp snow
covering ground & blocking the trees
early this morning but some of it
melted before noon.

Took a walk up Brattle St. at
9 a.m. Heard a Robin calling in
Hudson Park. Either the same or
another was calling in our lindens
at sunset.

Wea. WED. MARCH 28, 1900 Ther.

Clear with strong N.W. wind 32°
46°

Spent the day in the Museum.
Taking several numbers about the
garden and walking up Sparks St.
to the Museum.

Wea. THURSDAY 29 Ther.

Brilliantly clear with strong 33°
N.W. wind. 44°

Took a number of photographs
in the garden to test my new
4x5 camera the Ray, Reflex
& long focus Prisms. Also photographed
the ♂ & ♀ Downy Woodpecker in the
bush by the Museum window.
Leon C. Hildreth & Ouliam Bangs collected
in P.M.

Wea. FRI. MARCH 30, 1900 Ther.

A.M. clear, dead calm & very 29°
warm. East wind in P.M. with gathering 44°
clouds.

Walked up Highland St. at 10 A.M. On
reaching Mr. Smith's I found about 8 or 10
Crows Blackbirds flying to & fro among the trees
singing & calling. A Song Sparrow was singing
brilliantly under the trees. A Robin was
running about on the Gurney's lawn & a
Sitta Canadensis pecking at a stump in an
else on the street. Spent the rest
of the day reading & working in Museum.

Wea. SATURDAY 31 Ther.

Cloudy with a light drizzle 34°
of snow in early evening. 43°

Parus atricapillus 1 in garden
Dryobates pubescens ♀ at house.

C. E. R. S. & Walter went to Jaffrey
for the day prospecting for downy
woodpecker. But finding nothing satisfactory
I spent the day in the Museum.
Fred B. Me. Redburn Collected in P.M.

Wea. SUN. APRIL 1, 1900 Ther.

Clear with strong W. wind. 34°
5-3°

The most beautiful day of the
Spring thus far.

Merula migratoria 1 ♂ full song at evening
in Hubbard Park.

Colaptes auratus 1 ♂ in garden

Dryobates pubescens ♀ at home

Spent much of the day in the
garden rambling slowly about.

It was delightful to hear a Robin
in full song at evening in Hubbard Park.

Wea. MONDAY 2 Ther.

40°

Forenoon clear; afternoon cloudy. 60°

Colaptes auratus 1 ♂ in garden.

Merula migratoria (2), *Melospiza fasciata* 2,
Passerella iliaca 1, *Corvus* 3, *Dryobates pubescens*
♂ ♀ in garden.

Drove around Fresh Pond with C. 9 a.m.
4 Beak Ducks & 3 Gulls in water.

1 *Sitta canadensis* 1 juncos & others a
dozen Song Sparrows in the Hubbard.

A Bluebird flying over the fields near
Grays.

Chapman called in P.M. & told her

Wea. TUES. APRIL 3, 1900 Ther.

40°

Cloudy with gentle rain 48°

Merula migratoria 1 ♂ in full song
at evening, one in the bushes, the
other in Hubbard Park.

Spent day in museum. J. G. Clark
came out in a.m., bring an ad ♂
European Widgeon taken at Halifax, N.S.
He thinks he can buy it for me
I am now able to do a good deal of
light work but am still weak.

Wea. WEDNESDAY 4 Ther.

Briefly clear with fresh W. wind.

Parus atricap. 1 ♂, *Merula* 2 ♂, *Colaptes* 1 ♂
Molothrus 1 full song about sundown as I
lay in bed. *Lophia minor* (♂ ♀) flew
over garden in a.m.

Spent much of day in garden planning
the Spring work. Also wrote a few letters.
Drove through Mt. Auburn with C. in P.M.
Mr. Libby called at 3 P.M. He has been
in for 2 weeks but is going back to
the farm on Saturday.

Wea.

THUR. APRIL 5, 1900

Ther.

30°

50°

Brilliantly clear, the forenoon
dead calm, a breath of S. wind
in the afternoon.

Spent most of the day in the garden.
Patsy & his men were digging a
large pit for a new pond on the
E. side of the garden next the jungle.
A Robin alighted in the excavation
after the men left & found many worms.
C. went to Groton & Concord for the day.
I drove to Porter's with her in the morning
& to W. Scarborough to watch her on evening.

Wea.

FRIDAY 6

Ther.

32°

60°

Clear, the forenoon very pleasant
a strong cold N. wind in P.M.

James - 1 in garden
Chickadee 1/2

Out in the garden nearly all day.
Transplanted some Blackberry in
P.M. getting very tired, in
fact exhausted.

Wea.

SAT. APRIL 7, 1900

Ther.

40°

56°

Brilliantly clear with strong
N. wind.

Spinus tristis 1 (full song) in garden
Merula migratoria 2 " "
Colaptes auratus 1 " "
Dryobates pubescens " "

C. started for Washington by 9 a.m. train.
I had planned to go to Balls Bluff in
P.M. but was too used up by the
collapse of yesterday. Pender came out
at evening to stay with me.

Wea.

SUNDAY 8

Ther.

35°

52°

Brilliantly clear with fresh
N. wind.

Parus atricapillus 1 in garden
Merula mig. 2 at house
Junco hyemalis 1 heard in garden.

Spent the day in the Museum.
with Pender. We read &
talked by hours. I am
feeling weak & despondent
still.

Wea.

MON. APRIL 9, 1900

Ther.

28°

42°

A. M. Clear. P. M. Cloudy
A bitterly cold N. wind.

In the garden

Amphisp. cedrorum (15) alighted in pear tree
Parus atricapillus (3) 1 ♀
Merula migratoria 1 ♀
Dryobates pubescens ♂ ♀
Colaptes auratus 1 ♀
Corvus americanus 2

Spent most of day in Museum
writing letters etc.

Wea.

TUESDAY 10

Ther.

26°

Brilliantly clear with light N. wind.

Merula migratoria 1 ♀ In the garden
Parus atricapillus 1 ♀ " " "
Dryobates pubescens ♀ " " "
Colaptes auratus 2 " " "
Corvus americanus (2) " " "

Spent most of day in Museum
preparing a field list for Concord.
Also worked a little in the garden
Mills is progressing slowly with
the mason work of the new pond
ground from about this morning.

Wea.

WED. APRIL 11, 1900

Ther.

34°

52°

Clear and calm with an
occasional puff of east wind.

In the garden

Merula migr. 3 ♀ at evening & others calling
Parus atricapillus 1 ♀
Turdus cyaneus 1.
Sporus trichas 1 ♀
Amphisp. ced. heard
Colaptes 1 ♀ *Dryob. pubescens*.

Had another nervous collapse to-day but
kept a walk in the Museum & garden.
Pardie had to me in the evening.

Wea.

THURSDAY 12

Ther.

34°

52°

Cloudy & calm with fine, steady
rain.

Spent the entire day in the
Museum working on some articles
written last winter. One goes to
the Ark, the other to Midway.
Horton & Pardie came in to
Chapman's last lecture in the
evening. His course (on *Boreas* etc.)
has been a brilliant success.

Wea.

FRI. APRIL 13, 1900

Ther.

40°

42°

Cloudy and calm with
fine rain much of the time.

Spent most of the day
replanting Peter's tree
who transplanted a lot of
plants in the garden. It was
an ideal day for this work.

I got very tired but very fit
of water exhaustion from the
things of the past

Wea.

SATURDAY 14

Ther.

33°

51°

Clear with cool N.W. wind

Ampelis cedrorum (42) alighted in garden
Merula migratoria (3) " "

Mr. Bibby left the Boston farm today.

Spent most of the day working in
the garden transplanting trees. Chopped
all these in the morning and finished
planting along the walk while
I opened the autumn in the night.

The grass is getting green in the
place. Pardon me on my ^{Joseph's} ^{side} ^{was} ^{on}

Cambridge

Concord.

Wea.

SUN. APRIL 15, 1900

Ther.

Cloudless with fresh W. 5-8°
wind. The more bright day than for.

Ampelis cedrorum 6

Dryobates pubescens 0

Anas obscura 32 Fresh Pond

Loon a *Somateria* 40 " "

In a. m. took a drive with Purdie
around Fresh Pond, to Poyson Park &
through W. Arbor. Saw a *Merula* *black*
2 flocks of *Redwings*, a *Savanna Sparrow*, a
Chipping Sparrow (W. Arbor) a *great many Junco* *Robin*
etc. *Hesperis* in garden at *thin* *trim*. *First*
Ceryle *Blotches* out

Wea.

MONDAY 16

Ther.

33

62

Clear, calm, very warm.

Spent a. m. in garden. Peter's men
were moving perennials into the large middle
space in the flower garden, Mills was working
on floor of pond. Heard a Bluebird call
& looking up saw 2 of them birds flying over
towards it. Also heard a Goldfinch sing &
saw 6 Cedar birds.

With Purdie took 2 P.M. train for
Concord. Gilbert met us at W. Bad. Station.
Took a short walk behind hill. *Hesperis*
& *Ceryle* in bloom at cabin

Wea.

TUES. APRIL 17, 1900

Ther.
40°

Cloudy & calm with continuous
but light & fine rain.

Purdie & took a walk in the
forenoon to Davis's Hill, in the
afternoon another along the
river path to the Barnett meadows.
Birds were rather numerous &
in full song most of the day.
At about 7 P.M. a Swift
dropped over the cabin. Gilbert &
Pat saw 3 flocks of Geese at sunset.

Wea.

WEDNESDAY 18

Ther.
53°

58°

Cloudy with strong S.W. wind
& rain in the early morning
& again at evening.
Spent the day behind Ball's Hill
where I have resumed cutting
out trees around the springs
& new wood roads. Karl worked
there all the morning, Pat & Karl
in the afternoon. The high wind
silenced the birds & I heard only
a very few.
Purdie went to Bellemea to spend
the night.

Wea.

THUR. APRIL 19, 1900

Ther.
56°
70°

Early morn. cloudy. P.M. clear
with violent W. wind.

Spent forenoon on farm driving
up & back. Christian Peterson & his
wife called on them & inspected the
place. They are very anxious to
take charge of it for me.
Uncovered my wild flower beds &
found the plants in fine condition.
Wrote letters in P.M. & took a walk
with Purdie just before home.

Wea.

FRIDAY 20

Ther.

Clear & very warm. Wind
light from N. to N.E.
41°
74°

Spent the day at the farm
driving both ways, dining &
supping in the old house.
The men (Bensen & Hansen)
were ploughing. Gilbert & Karl
were setting up beds etc. It
was very warm. Mosquitoes
appeared in numbers in P.M.
It was dark when we got
back to the cabin.

Wea.

SAT. APRIL 21, 1900

Ther.

37°

73°

Sun shining dimly through
thin clouds by the S.W. wind

Spent the entire day with
Pat & Hansen in the field in
front of the wood shed transplanting
pines taking them from the
plantation I made three
years ago & carrying several
rows of them across the field.
Purdie & Gilbert drove to Concord
in P.M.

Wea.

SUNDAY 22

Ther.

47°

59°

Cloudy with frequent
showers of fine rain. Wind N.E.

Purdie & I walked to the end of
Davis's Hill after breakfast,
in late P.M. along the main
path to Blankenship's hill.
E. R. Simmons & Walter Deane
drove down to the Hill in forenoon
& spent about an hour looking
over the place for the house.
We decided to go to Joppy for July.

Wea.

MON. APRIL 23, 1900

Ther.

45°

60°

Similar to that of yesterday
but with lighter & less frequent
thunder & lighter wind walking into
N. & N.W. in P.M.

Spent the entire day transplanting
pines & cypresses in the field
by the wood shed. Had Pat, Karl
& Hansen to-day - a strong force
who made great progress.

Purdie spent day in Boston

Wea.

TUESDAY 24

Ther.

48°

58°

38.8 P.M.

Forenoon cloudy with N.E.
wind & frequent showers of
fine rain. A violent gale of wind
with hail in P.M. Calm &
perfectly clear at home.

Spent the day working
with Pat, Karl & Hansen
in the field opposite the
wood shed. Purdie & Gilbert
drove to Concord in P.M.

Wea. WED. APRIL 25, 1900 Ther.

33°

Billimety clear with heavy
N. W. wind.

68°

52°

Spent the day at the farm
driving up in early morning, back
at 6 P.M.

Worked on the flower garden
taking the mat behind the house
that was planted with squashes
last year & running walks through
& around it. Purdie walked to
Green Hill in A.M. Mr. Bobby came
up to see accounts & spent the day -

Wea. THURSDAY 26 Ther.

37°

Billimety clear with west
N. W. wind.

69°

46°

Spent day at farm. Collected
about 50 red pines in A.M.
& planted them north of the
orchard. In P.M. dug about
200 white pines which are
to go into the town
here to - - -

Purdie at farm all day.

Wea. FRI. APRIL 27, 1900 Ther.

35°

Cloudy & cold with high,
harsh N. W. wind; a most
disagreeable day for this season.

67°

40°

Spent the forenoon at the
farm, planting various things.
Drove to Concord at noon, dined
at the Hayes', called at the Maner
where I saw Mrs. Linnings & G.R.S.
and drove back to the farm at
4 P.M. & to the cabin at 5.30.
Birds silent & few very few to be seen.

Wea. SATURDAY 28 Ther.

33°

Early morning clear. Rest
of day cloudy with N.E.
wind & occasional light showers.

61°

42°

Spent the day at the farm
driving up at 7.30, walking
back at evening by way of Pine Ridge.
Worked at Puffin Rock in the
forenoon planting some things
sent me by Bradford.
The Petersons moved in & Karl
left for Cambridge this evening

Concord

Cambridge

Wea.

SUN. APRIL 29, 1900

Ther.

First cherry blossoms at Cambridge.

Cloudless with light W wind 68°-11 P.M.

Spent a.m. digging plants with
Gilbert crossing the river &
visiting the railroad embankment,
where in collected cinamon, & wild
geraniums principally.

Took 4:10 P.M. train to
Cambridge. Vegetation there a week
a week ahead of that at Concord.
About a dozen cherry blossoms out in
the garden, the first looked on.

Wea.

MONDAY 30

Ther.

53°

Forenoon clear; afternoon hazy
The warmest day thus far. 78°
68°

In the Garden

Yellow Warbler ♂, arrival
Canada Warbler * 1 hd.
Cherry Sunfish heard
Goldfinches. (4) in spruce ♂♂ in half change
Cedar birds - heard

Spent day superintending Poley
& his men. We planted a few things
& worked on the pond, which is
practically finished in length.

Cambridge.

Wea.

TUES. MAY 1, 1900

Ther.

52° 7 a.m.

Brimingly clear with fresh N.W.
wind.

The Garden

Redstart ♂* in hinders 6 a.m. / arrival /
Yellow-rump ♂* " " " "
Black & white Creeper. ♂* in pear tree
Red Crossbills heard.
Browned Grackle (6) flying over
Robins 2 or 3, Chippers (2) Fleeter 1 etc

Spent day working with Poley & his men.
Ostram Bangs lunched with me.

Wea.

WEDNESDAY 2

Ther.

42° - 6 a.m.

Clear & calm; a fine day. 64° 1 P.M.

Spent the day working in
the garden with Poley, Karl
& Gilbert. We moved a lot of
things & planted a number of
wild flowers received from
Hansford's nursery.
Purdie came to Wilbur for
the evening. I called on
Mrs. Alving -

Wea.

THUR. MAY 3, 1900

Ther.

Cloudy with heavy rain
beginning late night & continuing
until 4 P.M. At 8 P.M.
the clouds dispersed & the
sun was clear but later
(at 8 P.M.) we had a
thunder shower.

Spent the day in the
house writing letters etc.
Gibson came to Concord &
stayed at 5 P.M. with a big
bundle of grand juniper & cedars.

Wea.

FRIDAY 4

Ther.

52° 7 a.m.

Clear with strong, cool N.W. wind
70° noon

Took 8.34 a.m. train for
Concord. Found Peterson &
the house on Balls Hill & drove
to farm where I spent the
day with Hanson & Peterson
clearing the ground of red pine from
bushes & other brush & cutting a
wood road through. Had a
delightful walk home at evening.

Wea.

SAT. MAY 5, 1900

Ther.

36° highest

58° lowest

Sunny, the sky half-filled
with clouds, violent & icy N.W. wind
Snow equal at about 10 a.m.

Took 8.13 a.m. train for
E. Lexington where I met
O.C. Bothwell by appointment.
He had leased a Leaky Boat
with which we explored the
reservoir thoroughly. Found only one
Gull's nest - 6 eggs. Photographed it &
the property returned to Bothwell at 5 P.M.
Friday Pardon on train.

Wea.

SUNDAY 6

Ther.

34°

59°

Apparently cloudless but the
sun obscured completely obscured
by a dense smoky haze. Strong, cool
S.W. wind. Pot sprouts, frozen ground
& Hanson paddles skinned with ice
early this morning. To do some
work on the cabin.
Spent a.m. writing, P.M.
Chopping down trees behind the hill.
Pardon walked to farm. We went
to Dore Hill together early this
morning.

| | | |
|---------------------------------|------------------|------------|
| Wea. | MON. MAY 7, 1900 | Ther. |
| Cloudless with strong N.W. wind | | 35° 60° |

Spent day at farm finishing cutting out the new wood road that leads to the red pine.

| | | |
|---|-----------|------------|
| Wea. | TUESDAY 8 | Ther. |
| Cloudy with light showers. Much warmer feeling & actually warmer at evening when (at 7 P.M.) the thermometer was 60°. | | 37° 62° |

A great bird war around last night. All day long. Bull's Hill was alive with birds mostly warblers. There were horned larks too. Spent day at Bull's & Davis. There walking with Pat.

| | | |
|--|------------------|---|
| Wea. | WED. MAY 9, 1900 | Ther. |
| Early morning clear & very warm with strong W. wind. Remainder of day cloudy with heavy rain from 10 a.m. to 12 m. | | 48°-80° reg. 65° 5.45 a.m. 57° 7 P.M. |

| | | |
|---|-------------|--|
| Wea. | THURSDAY 10 | Ther. |
| Clear with high N.W. wind. Several snow squalls in P.M. Ice thicker than window glass formed along the edges of flooded windows across the river. Pat had to crawl his way through it this evening. No signs of frost on one side. My wild flowers unopened. Visited Bassett farm in early morning. Rather cold there. Spent most of day in wood shed when the man was working on the wood- | | 30°-68° reg. 34-5.30 a.m. 37° 7 P.M. |

Wea.

FRI. MAY 11, 1900

Ther.
28°-58°^{ny}

Clear with strong W. to S.W. wind. Early morning bitter cold. Pot brought ice 1/4 in. thick from the window across the bars. The ground was frozen hard at the cabin but strong to lay the ferns, young foliage of trees & shrubs & wild flowers. There was signs of injury. C. down down from covered in a.m. & on down to the farm to yellow winter Purple Rock. Jan left at 2 P.M.

Wea.

SATURDAY 12

Ther.
33°-52°

Clear with S.W. wind in a.m. but wind in P.M.

Down to the farm at 9 a.m. returning at noon. Spent most of P.M. photographing Maryland Yellow-throats in front of the cabin. Visited Dalton's Hill at 5 P.M. & got a lot of *Vireo pedata*.

Wea.

SUN. MAY 13, 1900

Ther.
51°-76°^{ny}

Wea.

MONDAY 14

Ther.
50°-70°^{ny}

Wea.

TUES. MAY 15, 1900

Ther.

48°

70°

Clear with strong S.W. wind. Thunder storms at evening. Country flooded with birds. Keenest about everywhere.

To Bowen farm at 9 a.m. Walked to Pulpit Rock & through the old oak woods. About Thayer arrived by 9.30 train & I found him at cabin on my return. In late P.M. we walked to Davis Hill.

Wea.

WEDNESDAY 16

Ther.

54°

73°

Clear with light S.W. wind

After breakfast Thayer & I walked around Bull's Hill. At 8 a.m. we drove to the farm where we spent about 2 hours. At 11 a.m. C. F. W. & E. R. S. arrived from Cambridge. Mr. & Mrs. Edward Benson appeared at 1 P.M. to drink with us. In P.M. we all drove to Unifarm. At 5 P.M. Thayer & I walked to Webster's Hill.

Wea.

THUR. MAY 17, 1900

Ther.

47°-63°

Cloudy, wind N.E. in a.m., S.W. in P.M.

In a.m. walked with Thayer to Davis Hill & Prescott's pines returning at 11. Birds numerous but scattered.

In P.M. we paddled up to Nashawink bridge where Thayer left me to take the cars for Dublin, N.H.

On the way back I called at the Kayses where I saw M. K. & Miss D.

Paddled back to cabin in evening twilight.

Wea.

FRIDAY 18

Ther.

Cloudy & cool with heavy rain in late P.M.

Visited the farm in a.m. & burnt some brush here. A fine set of Cape May Warblers singing in the blooming orchard behind the house. A Trillium *fl. giganteum* at cabin.

Took 4.20 P.M. train for Cambridge. Found the garden alive with birds. A pair of Cat Birds have settled there.

Wea.

SAT. MAY 19, 1900

Ther.

Heavy N. E. rain storm.

Spent a. m. in Museum. Took
1.08 P. M. train for Woods Hole, where
a small knockabout from Nahant met
the train. With Waldo Forbes & Jack Hollowell
I crossed to the island in a N. E. gale
& floods of rain. Saw a White-winged Scoter
& a few Terns. Found Edward W. Emerson
awaiting us at the Wm. Forbes house where
I am to spend two days. He was chary
with birds open faces.

Wea.

SUNDAY 20

Ther.

Clear in the early morning; cloudy most
of the day with cool S. W. winds.
Emerson & I spent a. m. driving
about through the pine oak bush
& oak woods. Skinned 2 Deer, birds
abundant but mostly tame.

After dinner sat in Mrs. Forbes'
pretty little circular walled garden for
an hour. In late P. M. walked
to the north shore where we had
a superb sunset. Took only 2
photographs to-day.

Wea.

MON. MAY 21, 1900

Ther.

Clear & rather warm with cool S. W. wind.

Spent an a. m. driving about about
through the woods stopping often to try
for a photograph of which I took 4.
Birds very common & singing well.

In P. M. took a long drive with
Mr. Emerson - along the S. shore to the
Dart, across the Dart nearly to the W. end,
back along the N. shore reaching the harbor
at 7 P. M. Skinned 6 or 8 Deer. Took 6 photos
this P. M.

Wea.

TUESDAY 22

Ther.

Clear & cool with strong N. W. wind.

Mr. Emerson & I crossed to Woods Hole
before a strong breeze & took the 8 a. m. train
for Boston. I reached Cambridge about noon.
Found a ♀ Whippoorwill in an apple tree
in the garden & exposed two plates at her
& two more at a flowering dog wood.
Took 5.10 P. M. train for No. Scituate
where Arthur Chittenden met me at
station. Beautiful drive to his house.
Wood Thrushes singing on every tree at
house.

Wea.

WED. MAY 23, 1900

Ther.

Clear, rather heavy, warm but with cool E. wind.

Took 2 photos of house before breakfast. After breakfast went to cedar swamp where we found nests of A. U. photographing a Brown Creeper's nest which Carlsson found above a wood pile. It had 4 young to-day. Both birds flitted about it in & taking the young.

Returned to Boston by 5:12 P. M. train.

Wea.

THURSDAY 24

Ther.

Cloudy with E. wind & every appearance of a gathering storm.

Spent the forenoon walking in the garden. Saw there a pair of Canada Warblers, a pair of Maryland Yellow-Throats, a Robin Thrush, an Oven Bird, a Gray Checkered Thrush & an Olive backed Thrush. Miss Marion Hayes & Miss Davidson came from Concord in P. M. to see us. They, Mary, Walter & Wagon Deane.

Wea.

FRI. MAY 25, 1900

Ther.

Fair with a veiled sun & cool E. wind.

Spent the forenoon walking in the garden with Karl. There were a number of N. virens there including a pair of Canada Warblers, an Oven Bird, a Water Thrush, a Black & Yellow Warbler, a pair of Maryland Yellow-Throats, a Gray-checkered Thrush & a Swainson's Thrush. The last two sang a little at evening. In P. M. went to South Hall with C. to attend Chapman's Lecture at the lecture

Wea.

SATURDAY 26

Ther.

36°-48°

Fair with dim sunshine at intervals. Cool with light E. wind.

Returned to Concord by 8:34 train E. R. S. driving me to the station. Found Mr. Libby on the train. He has been engaged by Mrs. Ritchie for the summer. I found him across the river. At 10:30 I drove to the farm returning at noon. Mr. & Mrs. Gleason called. In P. M. took 2 photos one of a flock of 303 flossens of hole holes.

Wea.

SUN. MAY 27, 1900

Ther.
41°-77°

Clear & nearly dead calm all day.

Directly after breakfast went out with the camera. Gilbert took me to the *Psittacidae* nest with 9 eggs at foot of ridge on W. side of Balls Hill camp. Examined 3 plants on in the bird about. Then went to Davis's Hill & exposed 3 more plants. Hill & Alben Stone arrived at 11. We went at once to Davis's Hill. After dinner ^{round up line to Davis's Hill. The} Stone left at 4.15 P.M. A few mosquitoes

Wea.

MONDAY 28

Ther.
43°-68°

Cloudy with chill S. wind, clearing at sunset. Eclipse of sun this a.m. dimly visible here through rents in clouds 9-10 a.m.

To farm at 8 a.m. Crossed through oak woods to Pulpit Rock, then by red pines to house. Returned to cabin at noon. Chopping after dinner, starting 4-6 P.M. After supper walked to Davis's Hill, over Pine Ridge & in by way of Pinebel & the river path. Very cool, no mosquitoes

Wea.

TUES. MAY 29, 1900

Ther.
35°-73°

Cloudless & calm all day. Very cold last night. Ice and water froze & it is said that all the Hawthorn blossoms were killed & the crop ruined.

Walked around Balls Hill & to the woodshed just after breakfast. Work from 10 a.m. to 12.30. At 1 P.M. C. came from Concord driving down the Misses White. After dinner we all walked to Davis's Hill & back along Pine Ridge & over Balls Hill. The Cochrans left at 4.30. I got cold yesterday & am half sick with a cough enough to-day.

Wea.

WEDNESDAY 30

Ther.
48°-78°

A.M. clear; P.M. cloudy.
Strong S.W. wind.

I feel so wretchedly when I arose this morning that after a short walk around Balls Hill I went back to bed & slept until noon. As we were talking dinner time, Cannon ran in to the landing. My visitors were Miss Bush of Concord, Miss Lois Howe of Cambridge, a Miss Edwards & a Miss ~~Mc~~ ^{Mc} ~~Smith~~ ^{Smith} & took them to Davis's Hill & back over Pine Ridge. Later photographed the nest of *Parus* *trichas* *trichas* found by C. yesterday

Wea.

THUR. MAY 31, 1900

Ther.

Clear with light S. W. to W. winds. Apparently warm in P.M. 60°-83°

Drove to farm at 8 a.m.

Photographed *Cadus' Blippers* in woods near *Palmer's Rock*. Saw three a few *8* May - *Great* & found a *Black-throated*. Returned to cabin at 11 & slept until 12:30 as I felt weak & ill with very cold. In P.M. wrote & took photos. saw cabin & of *Nashville* *Warren's* were

Wea.

FRI. JUNE 1

Ther.

Sunny, but hazy. Day warm with S. W. wind in P.M. 62°-84°

Spent the forenoon near the cabin taking from photographs & writing. In P.M. Gilbert found me up river to *Century Brook* where we tried in vain to net some small fish for the pond at home. Saw a *Cool* (*Fishes*) at the hole. Got *Troglodytes*, *Houstonia*? a few other plants. Mosquitoes bad to-day.

Wea.

SAT. JUNE 2, 1900

Ther.

68°-82°
Sunny & cloudy by turns. A violent W. to S. W. wind which brought several sprinkles of rain in P.M. I am still feeling weak & listless with my cold, & it is only that. Walked a little with Paul in the spring behind *Boris Hill* in a.m. In P.M. crossed the river & got a quantity of yellow-eyed grass. All the *weibone* *whigwags* gone to-day.

Wea.

SUNDAY 3

Ther.

Cloudy with cool E. wind. Heavy rain in late P.M. & evening

Spent a.m. digging plants & visiting nests. Went to *Davis Hill* & *Am Park* among other places. Birds singing fairly well. After dinner packed up our things & took 4.10 P.M. train for *Cambridge* carrying river in heavy rain. Found C., E. R. S., & Miss *Sweeney* at the house in *Cambridge*. The garden I scarcely saw on account of the rain.

Wea.

MON. JUNE 4, 1900

Ther.

Clear & cool with strong W. wind.

Spent day working in garden setting out plants brought from Concord, transplanting others etc. Heard a Black-bird singing; all the other migrants gone. The pair of Cat-birds still present & evidently breeding but no nest found yet. 2 ♂♂ Robins singing abundantly all day. Also heard a Wood Pewee, Red-eyes, Redstart, Yellow Warbler, Chipping & both species of Cuckoos.

Wea.

TUESDAY 5

Ther.

Clear & calm; E. wind in P.M. Warm.

Took several photographs in garden two at E. Watertown & two in Belmont C. during run to the low two localities about noon. In P.M. drew off water from pond & placed water lilies, water chestnut, Pickered weed etc. brought from Concord. Braconid caught seen & brought home to-day.

Wea.

WED. JUNE 6, 1900

Ther.

Wea.

THURSDAY 7

Ther.

Clear & warm with S.W. wind.

Off photographing more of the forenoon using the 6 1/2 x 8 1/2 camera. C. drove me first to Arsenal Ridge, E. Watertown where I exposed three plates & found a number of common birds singing. We next went to Payson Park stopping by the way to photograph the big willow on the Adams place. Finally we drove to the Housley Reservation where we took the horse & visited the waterfall & some willow ponds. Over Duffus found a *Phyllis* nest with 6 - 7 c. *Phyllis* with 5 eggs in nest.

Wea.

FRI. JUNE 8, 1900

Ther.

Clear & rather warm with fresh S.W. wind.

With Hubert spent a. m. driving in Belmont & S. Burlington stopping twice in Prospect St. & over in Willingtonham I had intended taking photographs but there was too much wind. Collected a number of plants including *Actaea* etc. The Prospect St. region has been much ruined by fire & the Prairie Warblers have apparently deserted it.

Wea.

SATURDAY 9

Ther.

Wea.

SUN. JUNE 10, 1900

Ther.

Brilliantly clear with strong S.W. wind. Cool.

To Concord by 9 a. m. train. Got home & buggy at Mr. Mann's & drove to Cemetery to see nest of Canada Warbler found by Miss White watched it 15 m. but no bird appeared. Nest in dead top of gray birch 20 ft. up no hole. Drove to Keyes'. Mr. K. found me & we drove up through Escomb woods & back by way of Barrett farm. Dug a lot of plants including *Zephania*. Fine birds. Drove at Keyes' Mr. K. took me to Holton where I took 5.20 P.M. train for home.

Wea.

MONDAY 11

Ther.

Clear & cool with strong S.W. wind.

Took 3.03 P. M. train for Warham.

Outram Bangs met me at Station. Pheasant dinner. *Lupinus* in profusion & in full bloom. Saw three Mon. Pheasants in open grass fields, a pair & a single well. They stood erect & quacked when I got out of the wagon lying close as I approached. A female was crouching near the Bangs' house. Walked about the grounds & gardens before dinner. Then Whippoorwill flying in evening.

Wareham

Wea. TUES. JUNE 12, 1900 Ther.

Clear & warm with strong N.W. wind.
 Started off at 8.30 a.m. in open wagon
 taking camera, rubber boots etc. Drove
 directly to Reservoir Pond where in spare
 woods of day looking for nests. Found
 a Parula Warbler's with 3 & a Pine Warbler's
 with 4 eggs, all these eggs incubated badly.
 Only one pair of Cowbirds seen at this
 pond. A single Sparrow & a high bird seen
 during drive. Drove home through E. Wareham
 Heard 4 Thrushes singing & saw a hen Partridge
 with young in the wood road. Reached home
 at 7 P.M. & found Mrs. Strong's children there

Wea. WEDNESDAY 13 Ther.

Brilliantly clear with fresh N.E. wind.

Spent practically the whole day driving about,
 through the fascinating Copse woods, visiting
 first an extensive pine swamp where Bangs once
 took the nest with 7 eggs of an Acadian Owl
 (the pine thick is still standing - a rather leaning
 one a brook), lunching on the shore of
 beautiful White Island Pond, passing a
 ruined hunting camp which Daniel Webster
 used to frequent. Hermit Thrushes common.
 Heard a heron (wandered near to Bangs' nest)
 Reached home about 7 P.M. Took several
 photographs & dry a lot of plants. No nests.

Wea. THUR. JUNE 14, 1900 Ther.

Cloudy with heavy rain from 12 - 1 P.M.

Started at 9 a.m. & drove through
 Wareham to a white pine country beyond.
 At noon the rain forced us to seek
 shelter in a barn. Lunched on the
 banks of a pretty brook with a pine clad
 knoll behind us. Dry a number of plants.
 One found no nests & took no photographs.
 Reached home about 4 P.M. Found
 a Mr. Coffin there. Pheasant crowing
 was the honor at home.

Wea. FRIDAY 15 Ther.

Clear & cool.

Left Wareham by 8.15 a.m. train
 & reached Cambridge about 11 a.m.
 Spent most of the afternoon getting
 out the plants brought from Wareham.
 They include *Coccyzus erythrophthalmus*,
Sialia, *Coccyzus erythrophthalmus* etc.

Wea.

SAT. JUNE 16, 1900

Ther.

Brilliantly clear with light W. wind.
Rather warm.

With Gilbert took 8.34 a. m. train
to Concord. Crossed the river to
Ball's Hill where I spent forenoon
at 2 P. m. drove to farm. Walked
back through woods by way of Palfrey Ponds,
the Spring, Perceval's farms & Davis's Hill
reaching cabin at 6 P. m.

Wea.

SUNDAY 17

Ther.

Clear & cool with N. E. wind.

Drove to Concord at 9 a. m. met
C. E. R. S. & Mr. Bennett at the
"Continental". In a. m. drove through
Estabrook woods visiting Bonner Field.
Returned by way of Boletus Pond.
Dined at Hotel. In P. m. Mr. & Mrs.
Emerson joined us. We all drove to
Fairyland & Warden

Wea.

MON. JUNE 18, 1900

Ther.

Brilliantly clear with strong, cool E. wind.

Spent the forenoon in the Ball's Hill
woods chopping a few trees & visiting
Davis's Hill. Also transplanted some
manzanita & moved ferns to the bed
in front of the cabin.

Took the 4.20 P. M. train for
Cambridge.

Wea.

TUESDAY 19

Ther.

Clear & cool with light S. W. wind.

Started for Wolfboro by the 9 a. m.
train from Boston with Estabrook.
Judge Abbott joined us at Concord, N. H.
& J. K. Board at the "Wiers" where we
were all met by the "Swallow" with
Miss Ada Board & Mr. W. M. Rubin on board.
Crossed the falls to Wolfboro, Austin
meeting on arrival, Austin's dinner at
5 P. m., Graduating Exercises in Hall 7.30-10
P. m., Alumni Dinner 10-12.30 P. m.
To bed at 2 a. m.

Wea.

WED. JUNE 20, 1900

Ther.

Cloudy & rather sultry.

Left Wolfboro at 8.30 A.M. & reached home at 1.30 P.M. Found Dr. Woodhouse of Phila. here & passed two pleasant hours through him my collections. He is 79 years old but still hale & vigorous.

C. started for Lancaster a few minutes before I got home. She went to Boston first to see Maria Kellid off on the New England for Europe.

Wea.

THURSDAY 21

Ther.

Clear & warm with strong W. wind.

Spent day in Hanson writing letters etc. E. R. S. drove "Danda" to Concord in A.M.

The ♀ Cat Bird is sitting on her nest in a cluster of *Spiraea* bushes on the head of the grape arbor. The ♂ sings but little now. Orioles have nearly ceased singing. I hear at all hours the Red Start, Yellow Warbler, Red-eyed Vireo & Robins also occasionally as follows. Thrasher Vireo Chipping in the garden and the

Wea.

FRI. JUNE 22, 1900

Ther.

Wea.

SATURDAY 23

Ther.

Cloudless & warm with light variable E., S.W., & W. winds

Spent whole A.M. photographing in Maple Swamp using 4x5 & 6 1/2 x 8 1/2 cameras Gibbet helping me. Returned to dinner & went up again at 4 P.M. staying until 7. Exposed thirty plates in all. Birds numerous. Saw or heard Yellow Warblers, Maryland H. Thrush, Heron, Swamp Sparrows, Rose Br. Grosbeak etc. One Green Heron. Many Wood Thrush.

Wea.

SUN. JUNE 24, 1900

Ther.

Clear & very warm.

Spent most of day in Museum writing. Dined at the Thayers. Called on the Harry Spolmans in the evening.

Wea.

MONDAY 25

Ther.

Clear & warm.

Spent most of day in Boston. Meeting of Mass Com. at 11 but only Dr. Johnson & I attended it. He proposes that the Com. pledge themselves individually for \$400. each for the remainder (\$2400) of sum necessary to buy Bangs Coal. Dined with Estabrook at Exchange Club.

Wea.

TUES. JUNE 26, 1900

Ther.

Brilliantly clear with cool S. W. breeze.

With Walter & George Deane & O. A. Bothrop started at 8 a. m. for Sherman's Pond to the west of Myiascenus pond by Bothrop about 2 miles up. Went by electric car via Water town & Holliston & returned via Lexington. Here had 5 beautiful eggs. Photographed it & took tea, rest & things. Pond but little changed but woods cleared off underneath.

Wea.

WEDNESDAY 27

Ther.

Clear & hot with strong S. W. wind.

With Gilbert & Mills (the mason) I took the 8.54 a. m. train for Concord. Spent the forenoon on the Bedford shore sketching a plan for a boat house which Mills is to build for me. After dinner Mills & Pat joined me at cabin & began excavating for a cistern. I took a walk to Pine Ridge when I found deer tracks of a buck. Apparently Pat & Benven have both been in the place work.

Wea.

THUR. JUNE 28, 1900

Ther.

A. M. clear & hot; thunder showers in P. M. & evening.

Drove to Concord at 8 A. M. Made one or two calls & transacted some business. Took 12 M. train for Danvers to visit C. at Mrs. Holman's. Got to P. M. by E. R. S., Miss Holman, Miss Olive, Miss Wood & I started on two excursions for Plover Hill. We drove one through woods thru beautiful woods for wood piles. Then a threatening cloud covered as dark. It rained for an hour after we reached the house.

Wea.

FRIDAY 29

Ther.

Clear & nearly as warm as yesterday but with a cool & fresh air. With E. R. S. left Danvers at 7.30. We parted at Anger & going to Weston to try a horse & returning to Concord at 10.10. Peterson was with us & we drove first to the farm then to the cabin, where I dined. Stay with the man in P. M. Walter Deane arrived at 5.30. He walked to Davis's Hill & back over Pine Ridge after supper.

Concord

Cambridge

Wea.

SAT. JUNE 30, 1900

Ther.

Brimingly clear & much cooler with strong blowing N. W. wind.

Walter & I went to the farm at 8 A. M. & spent the forenoon walking back through the woods. Saw a Raccoon in Davis's Swamp, it hovered about 30 yds. away & ran rather slowly, stopping & crawling, along the swamp path out of sight. Heard very few birds. Returned to Cambridge with Walter by 6 P. M. train.

Wea.

SUN. JULY 1

Ther.

56° 7am

Clear & cool with strong N. W. wind 72° noon

Went to the First Church with the Always in a. m. to hear Mr. Gault. Afterwards we all went over to the Phillips Brooks house. Saw several parties of the newly arrived Cuban students in the College yard.

Dined with Mrs. Simmons & leaving at the Hayers'. In P. M. Gilbert & I packed my trunks for the start to Jaffrey to-morrow.

Wea.

MON. JULY 2, 1900

Ther.

Brilliantly clear with light W. wind.
Very cool for the season.

With E. R. S. & Charlotte I started for
Joffrey by the 8.06 train this morning.
Reached the Shoemakers' at 11.30 a.m.

When we had finished unpacking most
of the afternoon was spent for a walk
in the woods with E. R. S. We first
visited two pretty camps near the house,
then followed the road to the first brook
& back down the course of the brook.
After tea walked about 1/2 mile along the
wood westward.

Wea.

TUESDAY 3

Ther.

Early morning clear & calm. Remainder
of day cloudy with strong S. E. wind,
threatening rain which came on evening.

Rose early & breakfasted with E. R. S.
at 6.10. She took the 7.01 train back
to Cambridge & I spent the early part
of a.m. photographing. Birds numerous
& singing freely. Noted a long list
of species. Gerald Thayer called at 4 P.M.
Had two severe attacks of nose-bleed, one
about noon, the other at 6 P.M. Charlotte sent
for the doctor at Joffrey. I lost a great
quantity of blood.

Wea.

WED. JULY 4, 1900

Ther.

Clear & warmer with strong W. wind.

Spent entire day in my room. The
doctor came at 9 a.m. I am
very weak from loss of blood but
otherwise well. Edward Emerson
called in P.M. but I did not feel
equal to seeing him.

Many birds singing down about the house,
a Hermit Thrush, a Wood Thrush, Oven Bird,
Maryland Yellow-Throats, an Indigo Bird,
Wood Pewee, Chub, Phoebe, Red-eyed Vireo etc.

Wea.

THURSDAY 5

Ther.

Clear & still warmer with light W. wind.

Spent the day in my room.
The Deans arrived from Cambridge
this morning. The doctor forbids
both reading & writing & the train
drops slowly. The birds are a compensation.
I hear the Hermits all morning & evening
& through the day the Robin, Red-eye
Oven bird, Indigo Bird, Maryland Yellow
throat, Song Sparrow etc.

Wea.

FRI. JULY 6, 1900

Ther.

Cloudy with rather heavy rain & distant thunder in forenoon.

Spent day in house. Walter with me much of the time. C. arrived from Cambridge by the forenoon train.

We took a short walk along the road at evening.

Wea.

SATURDAY 7

Ther.

Clear & hot.

91°

Walked to the brook with C. just after breakfast & to the schoolhouse with C. & the Deans at evening. The schoolhouse is said to be alive with Bats. We could hear them squeaking & rattling their claws under the clapboards but saw only three or four common ones. Heard a bird song wholly new to me early this morning. It was new like a Mourning Warbler's but quite different.

Wea.

SUN. JULY 8, 1900

Ther.

Clear & hot. Thunder shower at 5 P.M. followed fall of 12° in temperature & high, calm W. wind.

Spent the day in the house. In P.M. C. & Walter drove over to the Emersons. Albert & Gerald Thayer called just as they were starting off. My hip is troubling me again & I have had to discontinue my daily walks.

Wea.

MONDAY 9

Ther.

Clear & cool with strong W. wind.

Spent the day in the house. Gilbert arrived at noon with "Sylvia" a mare that I have hired of Tuttle (of Concord) for the summer. C. & I took a drive around the four mile square after supper. The evening was cool & beautiful. Heard 2 Wood Thrushes, a Hermit & a meadow Wren all in full song.

Jaffrey

Cambridge.

Wea.

TUES. JULY 10, 1900

Ther.

Clear & cool. with strong S. W. wind.

Starting at 9 a.m. & returning at 11
C. & I drove around Thoreau's Pond.
The roads were smoother & especially
beautiful & the weather delightful.
He heard very many birds singing,
including 2 Wood Thrushes, 2 Herons,
a Black & Yellow Warbler, 4 Black-burnians,
a Bobolink, a Grass Finch etc.

With Charlotte & Gilbert in Cafe Jaffrey at 3 P.M.
C. & I got off at Fitchburg to go to Lawrence. The
first of all continued on to Cambridge. I look
ed with Mrs. Simmons & Miss & Tony Adams & called on
the Cooks & always on the water.
Wea. WEDNESDAY II Ther.

Clear & warmer but yet a beautiful &
comfortable day.

Spent day in Museum & garden. Saw or
heard Merula 1*, 3 or 4 juv, Galusgus
1 ad., Dendroica aestiva 1*, 1 juv,
Setophaga 3 ad., Vireo olivaceus 2*, 1 juv.
V. flavifrons 1*, V. gilvus 1*, Carpodacus
1*, Icterus galbula 2 or 3 juv, Coccyzus
americanus 1 young, Chaetura ②
in all 11 species.

Visited Mus. Camp. Took in A. M.
& took tea at the Always!

Cambridge

Concord

Wea.

THUR. JULY 12, 1900

Ther.

Clear & very warm with violent S. W. wind
& thunder storm at evening.

A Robin, a Redstart, a Yellow Warbler,
2 Red-eyes & a Chipping Sparrow at dinner
& a Yellow-billed Cuckoo, a Wood Thrush
calling. Both the Cow Bird sang a few notes.

With Gilbert & Mills took 8.34 train for
Concord. Spent most of day with the
men at or near cabin. Only birds heard
singing were a Robin, Maryland Yellowthroat,
Song Sparrow & Swamp Sparrow. Saw 2 Red-tails
& 100 swallows.

Wea.

FRIDAY 13

Ther.

Clear & cool with fresh N. W. wind

Rose at 5:30 and took a walk along
the river path to Birch grove, up the road
to Benson's pasture & back around the
W. side of Ball's Mill Swamp. The morning
was delightfully cool & fresh & the birds sang
unusually freely for the season.

Took 9.48 a.m. train for Boston where
Dr. Blake removed an obstruction of way
from my left ear improving my hearing thereby.
Returned to Ball's Mill by 4.47 P.M. train.

Wea.

SAT. JULY 14, 1900

Ther.

Clear & slightly warmer.

Spent the forenoon over the cabin planning for a new steam cabin but failing to accomplish much or even to select the location. Took the 12.35 train for Cambridge where I spent 2 hours at home then went to Cohasset by the 5.10 P.M. train. I could manage with me on the Halber & Marguerite met us at Cohasset. Found Mrs. Manning, a Miss Hill & two girl friends of Marguerite's Alice & Blanchette at the house. A boy looking across pond in evening.

Wea.

SUNDAY 15

Ther.

Sunny but hazy. Nearly dead calm all day & decidedly warmer.

Just after breakfast Frank took me through his 8 acres of woods, mostly red cedars with some good oaks & red maples & some green birch & alder. Saw water vole (Hollown) for first time. Noted 21 species of birds in these woods.

To boat house at 11 meeting those Matt Green, a Mr. Reed & other friends of Frank's. Home in bathing beach where Frank followed.

Spent P.M. evening on porch talking. Looked at stars through telescope. Cool night but this

Cohasset - Concord - Jaffrey N.H. 1

Wea.

MON. JULY 16, 1900

Ther.

Clear & hot with breezy S.W. wind.

Took 8.20 a.m. train to Boston, then by 10.15 train to W. Bedford. After seeing Mike & Pat who were beginning to lay the foundations for the new boat house I crossed the river & found Gilbert at the cabin. Spent the afternoon there & on the W. Bedford steam. At evening walked to the Boxed meadows. Much ferns of both kinds being freely in numbers. A hot but not uncomfortable night.

Wea.

TUESDAY 17

Ther.

98° at

Concord, 3 P.M.

Clear with strong S.W. wind. One of the hottest days for many years the papers say. At the cabin where I spent most of the forenoon, however, we were not uncomfortable & at times there was a delicious breeze. The birds sang but little.

Drove to Concord after dinner & took the 3.40 train to Jaffrey where Walter met me on the station with "Sybil" in my buggy. A pretty evening. Heron's long legs collected

Jaffrey.

Wea.

WED. JULY 18, 1900

Ther.

Clear & much cooler after a bark thrown
which passed just after dinner.

Drove to E. Jaffrey to meet E. R. S. &
Mrs. Simmons who arrived by the
10.50 a. m. train. I drove Mrs. S.
up in my buggy & later in the
afternoon she & I drove to
Thunder Point & back by way
of the oak. Home then home
in good time.

Wea.

THURSDAY 19

Ther.

Clear & cool with fresh N. W. wind.

In a. m. Walter & I walked to the
bog where we received under some
hurdles on a bedstead for our brown
or more. Saw a 2 Musk Oxen, Mark-
thundered Bear & Canadian Hare &
heard an American Woodpecker
digging.

In P. M. drove to the Emersons where
we found Mrs. Emerson has two daughters,
& Miss Maria Hayes. They took us
on a pretty walk down through a young
pasture. Found Hares digging in
woods at intervals all evening.

Jaffrey

Wea.

FRI. JULY 20, 1900

Ther.

Clear in A. M. Clouds gathering in
P. M. with light E. wind.

Spent the forenoon in my room
writing. In P. M. drove Mrs. Simmons
around Gelmer Pond.

Wea.

SATURDAY 21

Ther.

Cloudy most of the day with heavy
showers about noon. Rather hot.

Spent most of day in my room
writing & making plans for a
stone cabin on Concord.
At evening walked to the school house
with Mrs. Simmons, E. R. S., Walter
& Wayne Dean. Saw the ~~fox~~
come out of the school house
where they found this day under
the loose clapboards.

Jaffrey

Concord

Wea.

SUN. JULY 22, 1900

Ther.

Brilliantly clear with light E. wind
& long intervals of deep color. Rather warm.
Rose at 5 a.m. & talking in corner
Hauled out following the road westward
to the schoolhouse, stopping a down place
returning to breakfast at 8.30. Birds
singing freely.

Spent forenoon writing. E. P. S. went up
Mooseknock with the Gomersons.

In P.M. Walter & I drove over to Dublin
talking tea with Arthur Thayer & his family
& getting back at 8 P.M.

Wea.

MONDAY 23

Ther.

Clear & hot with light S.W. wind.

Left Jaffrey at 7.01 a.m. &
reached Concord at 9 a.m. Peterson
met me at station with Charlie. We
drove first to Barrett farm where I
heard 3 Towhees singing at once.

Thence to cabin. Found new boat house
walls about half way up; canal to
boat house nearly completed.

Spent P.M. near cabin. Song & Swamp
Sparrows & Red-wings singing. At least
500 Swallows flocking over Holden's meadow
at evening. Hoop falling at 8.30 P.M.

Concord.

Wea.

TUES. JULY 24, 1900

Ther.

Slight rain at day break. Day cleared
soon after sunrise. Rest of day warm
with light S. to S.W. wind.

Took a short walk at 6 a.m. - to
Bear Park & back over Ball's Hill
Other birds singing were Song & Swamp Sparrows,
Redwings, a Whistler, a Wood Pewee &
a Rose-breasted Grosbeak, & 2 Thrush.

Spent day on Ball's Hill & over on here
Walked to Davis's Hill in late P.M. Saw
deer tracks a few days old on a sandy flat
in the Holden meadow. A Solitary Veery
singing lustily on Ball's Hill this forenoon.

Wea.

WEDNESDAY 25

Ther.

A.M. clear with violent S.W. wind.

P.M. cloudy with heavy thunder storm
followed by light rain - all night.

Spent forenoon on Ball's Hill improving
the men at work on the boat house &
laying plans for the new cabin.
Drove to Concord in P.M. & took 3.40
train for Jaffrey where Walter met
me at the station. We drove to the
Shattuck's in a steady but light rain
which foreboded the storm.

Wea. THUR. JULY 26, 1900 Ther.

Cloudy with light showers at intervals and very heavy rain in the evening.

Spent most of the day at the house taking a walk to the brook with Walter just after dinner. E. R. S. drove over to the Simmons in the forenoon & brought Mrs. S. back to dinner. Mr. Simmons & Ellen called in P.M. Walter & I went to the Kellys' camp after supper to her photographs. A Hermit very nearly the whole day near the brook.

Wea. FRIDAY 27 Ther.

Brilliantly clear with moderate S.W. wind.

Walter & I drove around Thoreau's Pond in A.M. I taking six or seven photographs, he collecting some of the butterflies.

In P.M. took Mrs. Simmons on a short drive.

Wea. SAT. JULY 28, 1900 Ther.

Clear & cool with light W. winds & intervals of dead calm.

In A.M. was driven by E. R. S. to the Heath's near Gilman Pond. Walter met me here & took me to some fine old beech & hemlock woods where we saw a ♀ Hairy Woodpecker. Came back across the fields. In P.M. drove Mrs. Simmons half around Thoreau's Pond.

Wea. SUNDAY 29 Ther.

Clear and warmer.

In P.M. drove E. R. S. around Thoreau's Pond. Heard several Hermits flying.

Walter & I spent most of the forenoon at Heath's near Gilman Pond. He followed the course of the brook & I dry a few plants. We afterwards drove around the pond.

Wea. MON. JULY 30, 1900 Ther.

Cloudy with several light showers.

Starting at 9 a.m. I drove E.R.S. to the Svenssons & with them we continued on up the road to the Mountain House. Mrs. Gage, Ellen Svensson & I dined there while the others walked to the Plateau where they lunched. In the spruce woods behind the house I found fresh works of a Pileated Woodpecker. Heard singing a Hermit, an Olin-bird, a Junco, a Chickadee, a D. maculosa etc. Returned to Stranville in late P.M.

Wea. TUESDAY 31 Ther.

Clear & cool.

The drive up the mountain yesterday brought on a rather severe attack of my old bladder trouble & I spent to-day very quietly reading & writing in my room most of the time. Walter was also ill & confined to his room.

Wea. WED. AUG. 1, 1900 Ther.

Clear with cool N.W. wind.

Took the 7 a.m. train for Concord where Peterson met me at the station. We drove first to Auger's mill where I bought some chestnut & oak planks for the new cabin; thence to Bolt's Hill where I found Gilbert arranging work. The new boat house was nearly completed.

Wea. THURSDAY 2 Ther.

Brilliantly clear & deliciously cool.

Spent most of the day at the cabin and near the new boat house across the river when the men were at work on the new canal.

Percie arrived by the 5:30 P.M. train & we at once started out for a walk going across the Haden meadow to David's Hill & returning by way of Pine Ridge & Pine Park.

Wea.

FRI. AUG. 3, 1900

Ther.

Clear & cool with strong N.E. wind.

Spent most of the forenoon across the river when the men were putting the finishing touches on the boat house.

In the afternoon Percie took me into the Boole's Hill swamp to see a quantity of Virginia Chain Ferns which he has just found there. This species as well as Aspidium truncatum seems to be common here as well as in Davis's Swamp. After supper we walked to the Barrett meadow

Wea.

SATURDAY 4

Ther.

Brilliantly clear with light N.E. to W. winds. Morning & evening cool. We had a fine breakfast trim.

Spent the entire day near the cabin and at the new boat house.

After supper Percie & I walked along the river path to Pine Park.

Just after breakfast there Great Blue Herons appeared opposite the cabin & loomed in circles over the meadow tiller to many Egrets.

Wea.

SUN. AUG. 5, 1900

Ther.

Morning clear, clouds gathering in the late afternoon.

Percie & I spent most of the morning in the woods on Holden's Hill. They were alive with small birds among which we detected 2 Black-brown Kinglets. In P.M. we went up river in the dugout with Gilbert & bought back my two fishing canoes which have been stored on the "Keyes".

Wea.

MONDAY 6

Ther.

Clear & oppressively hot with light S.W. wind.

Spent the day at the cabin when all the men were at work, Mills finishing the ceiling, the carpenter repairing the old canoe pit, Poe & Hanson digging out & enlarging the House Boat pit.

At evening walked to the Barrett meadow where Bobolinks, Red wings & Indigo Buntings were feeding to waste. Percie left me this evening.

Wea.

TUES. AUG. 7, 1900

Ther.

Cloudy with light E. wind and frequent light showers.

Spent most of the day on or near the cabin superintending the men at work on the boat house.

In the afternoon we found several large heaps of brush and among I found under some glancing live birds a pair of birds of the King's Gull.

Wea.

WEDNESDAY 8

Ther.

Cloudy with occasional light showers. Rather sultry with light S.W. wind. Heavy rain all last night.

Spent the forenoon near the cabin. In the afternoon walked to Pine Ridge & the Barren wooded woods. After supper strolled around the E. end of Ball's Hill. The men worked on the new causeway & were preparing for beginning work on the new cabin.

Wea.

THUR. AUG. 9, 1900

Ther.

Clear & hot.

90° - 3 P.M. Cloud

Spent the forenoon with Pat & Hanson making a specimen sample of a road underneath across the Barren woods. Mills & John Flannery began the excavation on the hillside for the new cabin. Peterson was towing Christmas logs down from the Barren woods.

Left the cabin by boat at 2 P.M. Gilbert went on to Concord where I took 3.48 train for E. Jeffery where E. R. S. met & drove me to the ~~station~~.

Wea.

FRIDAY 10

Ther.

Clear in early morning. Cloudy later with light showers.

Just after breakfast I walked to the old log house & saw there for nearly an hour, smelling my pipe. It was cool & quite under the fine old trees. E. R. S. went up Monday this morning with the gunners to camp for a couple of nights. I spent most of the day in my room. The Herons on all islands were but I still saw Redlegs & Indigo Buntings.

Wea.

SAT. AUG. 11, 1900

Ther.

Sunny but hot with strong S.W. wind.
Intensely hot.

After breakfast walked to the
beautiful beech woods just beyond
the first brook. It was especially
cool & quiet under the firm old
trees.

Drove Mrs. Seavins past Thicket
Point in the afternoon.

Wea.

SUNDAY 12

Ther.

Cloudy & cool with light rain in
the early morning.

Wea.

MON. AUG. 13, 1900

Ther.

Cloudy with N.E. wind and heavy
rain most of the day.

Visited the swamp beyond the pine
woods in the forenoon & dug a number
of ferns & some fine jaw plants.

Saw a Canadian Warbler feeding a brood
of young.

Spent most of the afternoon reading aloud
with Mrs. Seavins.

The Deans returned this evening after an
absence of more than a week at Cambridge.

Wea.

TUESDAY 14

Ther.

Forenoon cloudy; clearing in P.M.

In A.M. took a rather long walk
with Walter in the beech & pine woods
beyond the first brook. Dug a few
ferns & a small fern. Heard a
Red-shouldered Hawk screech.

Wea.

WED. AUG. 15, 1900

Ther.

Cloudy with heavy rain from 10 a.m. into & through the following night. In the early forenoon Walter & I walked to the pine woods behind the Kelly Camp. I dug there a number of young ferns & balsams to take to Concord to - unseason.

Spent most of the afternoon writing my annual report for the Mass. Camp. Soc.

Wea.

THURSDAY 16

Ther.

Forenoon cloudy with a succession of heavy showers the last & more violent at noon. The sky cleared soon afterwards & the afternoon was sunny & warm.

Left Jaffrey by 7.01 a.m. train with E. R. S. She got off at Fitchburg to visit C. Mrs. De Jersey & Lucia Huger at Lancaster. I went to Concord where Gilbert & Theresa met me. We drove to Red Bridge where I paddled down in Balls Hill on the river. Went to the farm in Pills & set out a lot of plants at Pulpit Rock.

Wea.

FRI. AUG. 17, 1900

Ther.

Sunny & warm with several light showers lasting only a few minutes each.

Spent the day with the men who were working on the new cabin, Mills finishing the exterior, the others digging & working among dirt etc, the carpenter making a condenser from a pine trunk. At evening walked to the Mass. headland & thence to Pine Ridge. The air was cool the weather surprisingly beautiful.

Wea.

SATURDAY 18

Ther.

Clear & warm with light variable winds.

Spent the forenoon at Balls Hill. The men worked chiefly on the roofing & troughs for the eaves behind the old cabin. Started for Concord at 2.15 P.M. driving a big dog was called Nancy which I had decided to buy for the farm work. Took the 3.40 P.M. train for Jaffrey. Walter met me at E. R. S. station. E. R. S. returned from Concord yesterday.

Wea.

SUN. AUG. 19, 1900

Ther.

Brilliantly clear with light N.W. wind,
a deliciously cool day.

In the forenoon Walter & I explored
some pine woods beyond the school house.
They were pretty but uninteresting as
far as birds & plants were concerned.

Shortly after dinner Madame the French
lady was found to have been wearing her
morning. Five or six of us started to search
for her. Walter & I took the main road
& were in driving boat with the Japanese
they the E.R.S. had been up to the women's house.

Wea.

MONDAY 20

Ther.

Clear & cool with light W. winds.

In the forenoon I took two $6\frac{1}{2} \times 8\frac{1}{2}$
photographs of the sugar house.
Walter & I then walked to Spaulding's
& returned along the beach. Found
a white pine of unusual size & unique
habit of growth with several large, twisted
upright trunks.

Wea.

TUES. AUG. 21, 1900

Ther.

Clear & cool with light W. wind.

In A.M. Walter & I drove around
Thunder Pond. I took 3 $6\frac{1}{2} \times 8\frac{1}{2}$
& 4 - 4×5 photographs in the park.

In P.M. we drove past Gull Pond
& visited a Mr. Baker who lives in
a pretty & very old house at the
end of a grassy lane. I took a few
photographs there. There were lots of
birds about the house. Bluebirds, Goldfinches,
Cedar birds etc. A fine sunset as we were returning.

Wea.

WEDNESDAY 22

Ther.

Clear & cool.

Spent A.M. writing. At noon
Walter, E.R.S. & I drove over
to the Burrows where we
dined & Home. The afternoon
meeting, in addition to the family,
Dr. Ayer & Mrs. Bliss. The
funeral services were well.
The walk in one of Spaulding's
canyons and one of Roddy's.

Wea.

THUR. AUG. 23, 1900

Ther.

Clear & cool.

I spent most of the day at or near the house not feeling well. Walter in A. M. drove E. R. S. to the Baker farm.

Later in the afternoon I walked to the first brook & explored two $6\frac{1}{2} \times 8\frac{1}{2}$ plates.

Wea.

FRIDAY 24

Ther.

Cloudy with light rain most of the afternoon & a perfect deluge between 8 & 9 P. M.

Spent A. M. in my room. E. R. S. went up the mountain with the Grubbers & returned described as evening. Walter & I spent the afternoon in the woods beyond the log house getting plants. I dug a number of fine young *P. borealis* & *S. borealis* trees. Birds very few.

Wea.

SAT. AUG. 25, 1900

Ther.

Clear & warm with light S. wind.

Spent A. M. in the woods beyond the log house with Walter getting a lot of ferns to send to Cornell to-morrow. Heard a Red eye calling & saw 2 Chickadees. The country seems to be almost completely drained of birds.

Alfred Meyer arrived at noon & took dinner with us. In P. M. he, Walter & I walked to the brook. A *Boar* Owl hooting was the hour or about midnight.

Wea.

SUNDAY 26

Ther.

Clear & intensely hot with light S. wind.

Spent most of A. M. photographing taking the 4x5 camera & visiting the log house & the first brook.

Wrote letters in P. M. At evening there was a rather heavy flight of night hawk. 2/3 birds passing Shattuck which others can be seen by E. R. S. at Culler's on the hill. Shortly after midnight the Boar Owl hooted on. He hooted for nearly half an hour.

Concord

Wea.

MON. AUG. 27, 1900

Ther.

Clear, hot & very sultry with almost no wind.

I packed my things yesterday afternoon & left Joffrey for good by the 7 a. m. train on which I found Mr. Gilson with whom I had a pleasant talk.

On reaching Concord I drove to Father's Hotel where I found Gilbert who had just arrived with Sylvia. We drove to Balls Hill together. Spent the day with Tom, went to Pine Ridge to plant some ferns on evening.

Wea.

TUESDAY 28

Ther.

A. M. cloudy; P. M. clear, a light E. wind. Cooler than yesterday but rather sultry.

Spent the entire day crossing the work at the new cabin. I had Miss, Hester (Carpenter) Pat & John & Lenny & Nansen besides Plummer. We built the kitchen & part of the chimney. The outer boarding is nearly finished & the floor timbers on. Walked to the Barrett workshop on evening.

Wea.

WED. AUG. 29, 1900

Ther.

A. M. cloudy with shower but brisk shower. P. M. sunny with cool S. E. wind.

Drove to the farm just after breakfast & let out a lot of yews at Puffin Rock. Spent most of A. M. near cabin. At 3 P. M. took electric car at W. Bedford for Cambridge, where I had my hair cut. Reached home at 5 P. M. and found C. there. Gilbert drove down the big man Nancy arriving on 6 P. M.

Wea.

THURSDAY 30

Ther.

X 50.00.

Clear & warm.

Starting at 9 a. m. I drove C. to Arlington Heights where I left her to call on Sarah Dearborn.

I spent most of the day in the museum writing letters. Also planted down things from Joffrey in wild garden. The Deans (Walter & Margie) took tea with C. & me on the back piazza. I spent the whole evening. See Annette in future blast here now.

Wea.

FRI. AUG. 31, 1900

Ther.

Clear with cool E. wind.

Spent most of day in house
& museum. Long talk with C. 5-5.30
a.m. Walter called in forenoon.
In P.M. drove C. around Mt. Auburn
for an hour & we had another
long & bad talk.
Grandma came at 7 P.M. to
spend night.

Wea.

SAT. SEPT. 1

Ther

Clear & warmer but yet a
comfortable day.
Another talk with C. 5-7 a.m.
Then breakfast. Then with C.
& Grandma I drove to Boston &
took train to Boston. Met
Will & Alice Stone on North
Union Station & took 9 a.m.
train for Portland. Received
Betty at 5.15. Dr. & Mrs.
Gebring met us at Station &
we all went to their house for
the night.

Wea.

SUN. SEPT. 2, 1900

Ther.

Clear & hot with S. wind 90°

After breakfast walked about
the place with Dr. Gebring looking at
his shrubs.
At 10.30 a.m. the Stones & I started
for Lake in open carriage with a good
pair of horses & George Chapman as
driver. Dined at Poplar Tavern &
stopped at Green Ayer Falls & collected
to photographs. Reached Dedham about
7 P.M.

Wea.

MONDAY 3

Ther.

Clear; warm, very heavy & sultry.
A thunder storm at 8 P.M.
Took steam up lake at 8.30 with
lawn boat in tow.
When we reached Pine Point on
Sage, 7 Shadocks & a Kingfisher
flew out of the boat cover. Spent
the rest of day getting and things
in order - a busy talk.
George Fairbank joined us at
4 P.M. Sailing up in his canoe.

Wea.

TUES SEPT. 4, 1900

Ther.

Brilliantly clear & cooler with fresh W. to N.W. wind.

Spent most of the day working on the ladder. George Collins was down in his canoe.

In the afternoon Jack crossed to & paddled through Bernard's Pond, where we saw 2 Eagles, 2 Black Ducks & 4 Wood Ducks.

A brilliant sunset & a calm beautiful unclouded night.

Wea.

WEDNESDAY 5

Ther.

Clear & warm with strong S.W. wind.

Gilbert arrived by steamer at 8 a.m.

At noon the Steamer, Geo. Fairweather & started on a trip up the Gallaway River with Jim as guide. Took the big boat & 2 factory canoes. With Tom & I started the entire crew of the way to the lower boundary where that point met us with 2 canoes. He took us to his house, the canoe & boat to his landing.

Wea.

THUR. SEPT. 6, 1900

Ther.

Cloudy most of the day with a mist, thick thicket at 8 a.m. & 2 others in Lake P.M. Strong S.W. wind. Left 7 locks at 7.30 a.m. Paddled slowly for first 5 miles stopping to take photographs at several places. Lunched in the boats under Diamond Falls.

Two heavy thunders overtook us near Purple Rock. Saw many large birds: Eagles, Ospreys, Herons, 2 Wood. Kingfishers, 7 or 8 Whistlers, 14 Herring Gulls - large etc. Fine sunset as in outside book to correct.

Wea.

FRIDAY 7

Ther.

Brilliantly clear & cooler with light N. to N.W. wind.

Spent a.m. rigging a new canoe trail. To Moon Point with George Fairweather at evening. Placed him near the end of the Point & went further along the shore myself. About 30 or 40 Black Ducks came in I had no shot but George found a number including one Duck. The evening was perfect. Saw Herons & heard Snipe.

Wea.

SAT. SEPT. 8, 1900

Ther.

Sunny but very hazy, most of A.M.
Calmer. A fresh S.W. wind in P.M.

Spent most of day on the boat
writing. In P.M. took a walk
with the Stones, to Oggs's Point.
Very little life on the woods - only
a few Red Squirrels. Found a lot of
fresh Moose dung within 150 yds of
camp near our boat cover.
30 Moose Pt. at evening with George.
About 30 Ducks, mostly Black, came in.
Very fine & wind behind them.

Wea.

SUNDAY 9

Ther.

Clear & cool with strong to light
N.W. wind.

Sailed off the Point, walked to
Spelman's Pt. (in P.M.) and went
to Moon Pt. with the Stones (without
a gun) at evening. About 20
Black Ducks came in. There
were also several Hens & we
heard a few Snipe. As on
the last two evenings a night hawk
came skimming about low over
the marsh.

Took a few photographs in the eve-
ning in the forenoon.

Wea.

MON. SEPT. 10, 1900

Ther.

Cloudy most of the day with long
periods of calm.

George Tomlinson left us to return to
Bethel at 9 A.M. At 11 A.M. the
Stones & I crossed to Moon Point
where we took a number of photographs.
I got a very good picture of 2 King-eels
& a Great Sandpiper.

At evening the Stones & I again crossed to
Moon Pt. I took my gun but had no shots.
Less than a dozen Ducks came in. Sutton &
Harry Russell were there. They shot at &
wounded a Great Blue Heron.

Wea.

TUESDAY 11

Ther.

Cloudy with steady rain all
day & light E. winds.

Spent the entire day writing
letters & in my journal.

Wea.

WED. SEPT. 12, 1900

Ther.

Cloudy with a violent gale starting at about 10 a.m. & blowing from the S.W. until noon when it changed to N.W. Some of the small boats dropped their moorings & one went nearly ashore. The house boat rode it out well but her awning was blown & torn.

We spent most of the day looking after the matters. It was an exciting time.

Wea.

THURSDAY 13

Ther.

A gray day with light N.W. to S.W. winds, the water & sky of nearly the same color.

Spent most of the day on the house boat writing letters a long one to C. Consuming most of the afternoon.

Immediately after dinner I walked to the Mason logging works with the Stoms. These works found glass & gloomy.

Wea.

FRI. SEPT. 14, 1900

Ther.

Sunny, the sky half-filled with cloud masses driven rapidly before the strong N.W. wind. Sunset very fine. Warm at midday cool at evening & evening.

The Stoms & I with Jim left camp at 9 a.m., they in the big boat, I in the little canoe & spent the day down the Androscoggin visiting Beal & Curtis meadows, taking a number of photos & being many from birds. Met Dutton & Harry Russell off. Leonard's Pond. Back to camp by twilight.

Wea.

SATURDAY 15

Ther.

Clear & calm with clouds gathering late in P.M.

We left camp at 9 a.m. The Stoms & Jim in the big boat, I in the little canoe. Took the E. shore & followed it closely stopping several times to photograph. Saw a Fox hunting near in Maspy Cove & several Sleds elsewhere. Reached the end of Tyler Cove at noon & anchored there on the sand beach. Called at Metlakelch on the return & the Duttons brought us back to camp in their fur Hebe.

Wea.

SUN. SEPT. 16, 1900

Ther.

Cloudy with light easterly winds & brief showers in the early evening.

Spent the forenoon writing letters. There was a Pied-billed Grebe swimming close to the rocks at the end of the Point in peculiar places for their species to harbor.

In late P.M. paddled to Whales Head. One with the storm. The water was nearly dead calm then.

Wea.

MONDAY 17

Ther.

Cloudy in A.M. clearing in P.M. with rather heavy rain from 8-9 P.M.

Spent forenoon on home boat & at camp. In P.M. went to & up Rapid Run near the stream. The water was low & the current very strong but we got to Cedar Swamp. Saw 4 Skunkhounds, one Eagle along the river, a large Rabbit on the shore. Took several sunset pictures on the way back to camp.

Wea.

TUES. SEPT. 18, 1900

Ther.

Sunny, the sky filled with cloud masses, a strong N.W. wind.

The balls was so rough that we were virtually imprisoned on the Point all day. I wrote in A.M. & in P.M. tried the causes of their storm sails just off the end of the Point. The sea was high & the whole boat was covered. Saw a Semipalm's Plover, a Parula Warbler & Maryland H. Wren & 2 Black-thr. Green Warblers at the boat cover.

Wea.

WEDNESDAY 19

Ther.

Brilliantly clear, absolutely cloudless, warm with light S. to S.E. winds & subsides of calm.

Packed everything on the home boat this morning, closed & locked the camp, warped the boat out to the outer mooring & spent the day there waiting for the steamer which took us in tow at 6 P.M. & got us to Koolanida at 8 P.M. when we spent the night on the boat. A small mixed flock of Waxwings & one Phoebe-bird on the Point this evening.

Wea.

THUR. SEPT. 20, 1900

Ther.

Cloudy with light rain all day,

Early this morning the steamer
towed us to Upton where we made
the horse boat fast to the bank at
Pleasant beach. It began raining
soon after this. We built a fire
on shore & sat by it under umbrellas
much of the time. Took several
photographs of the boat.

Wea.

FRIDAY 21

Ther.

Early morning cloudy. Part of day clear
& warm up to 4 P.M. when a heavy
thunder storm broke. This was
followed by other storms during the evening.
Started up Cambridge River in the
2 small boats at 8 A.M. Passed
flock 16 Great Grebes on flat near horse
boat. Up river took photos. Saw
1 Black Duck, 2 Partridges, a Wilson's
Snipe & many house birds. Photographed
Snipe. Shame Belle just as we
reached Jim's place on our return.

Wea.

SAT. SEPT. 22, 1900

Ther.

Cloudy most of the forenoon with light
showers; clearing in P.M. with a glorious
sunset.

Left the horse boat at 8 A.M. & went
to Lakeside by boat. George Chapman had
not appeared so we got a team of Chandler
& started for Bethel at 10 A.M. Stopped to
photograph & reached Grafton by noon taking
refuge from the rain & eating lunch in a barn
on the farm just below Brooks'. Then photographing
in P.M. Reached Bethel just before dark.
I went to the Gehring's, then down to the horse boat.

Wea.

SUNDAY 23

Ther.

Cloudy most of the day with occasional
bursts of sunshine. A fine sunset.
The Stearns went through to Boston
to-day. I spent the A.M. answering
letters. In P.M. took a walk with
B. Gehring & Mr. Potter (of Cleveland O.)
in the woods below the horse boat.
There White-crowned Sparrows all about
& a Yellow Palm Warbler spent the
day in the thicket around the house.

Wea.

MON. SEPT. 24, 1900

Ther.

Clear & cool with a fine sunset,

In A. M. drove around Sougs Pond with Mr. Potter (of Cleveland) one of Dr. Gehring's patients, who took several photographs. Saw only a few birds. C. arrived by 4.30 P. M. train. I went her at Station & we drove to Paradise Hill to see the sunset.

Wea.

TUESDAY 25

Ther.

Clear & warmer.

In A. M. repeated the drive of yesterday, this time with C. The Pond yesterday was wild & white-capped, to-day mostly calm. Saw a great many birds, mostly Sparrows. A White-crown & a Myrtle Warbler sang freely early this morning near the house.

In P. M. we had a long talk with Dr. G. about my health. He has decided that I go to him for treatment in Nov.

Wea.

WED. SEPT. 26, 1900

Ther.

Clear & warm with light S. wind.

C. & I started for Boston at 9.05 A. M. Dr. Gehring accompanied us as far as Portland. The day was perfect & the country beautiful but there was little autumn coloring below Portland save on the hill masses where the russet ledges contrasted with the blood red patches of *Q.* On reaching Boston we went to the Parker House for the night.

Wea.

THURSDAY 27

Ther.

Cloudy most of the day.

Went to Cambridge in the early A. M. and returned to Boston at 5 P. M. Spending the day at my museum, where I found Gilbert & just missed E. R. S. who went in town to lunch with C. The garden looked empty & bare & there were no birds. A pair of Goldfinches, *Boleophthalmus* came in P. M. to talk over the A. O. U. meeting. Took C. to Keith's in the evening. He saw a wonderful red. downy, "Popinot"

Wea.

FRI. SEPT. 28, 1900

Ther.

Cloudy & damp.

Gave up one room at Parker's this morning. C. went to Cambridge for the day & night. I met Dr. Woodworth at Outram Bangs's to conclude the arrangements for acquiring & transferring the latter collection of mammals to the M.C.Z. We spent most of the day there. At 5.30 P.M. I went to the Cummings' where I dined & spent the night.

Wea.

SATURDAY 29

Ther.

Cloudy & damp.

Spent day in Boston. Called at Dentist, ordered an overcoat at Lint's, met Miss E.W. Fuller by chance at Hill & Richards.

Took 4.47 train for Readville to ~~spend~~ stay at the Haywards on Sunday. Aunt Mary, Roland, May & Harry Cummings & Miss Hammond were there & I had a warm welcome. We spent the evening talking.

Wea.

SUN. SEPT. 30, 1900

Ther.

Cloudy with occasional bursts of drizzle & several light showers. Rather heavy rain last night. In A.M. drove with Roland around Houghton's Pond to Park of the Pond, where I saw many ducks were quacking & pecking in front of two Houghton's. In P.M. we walked to the pasture & up the road. The woods on the hill look as if killed by fire the result of the winter drought.

Wea.

MON. OCT. 1

Ther.

Clear & warm.

Back to Cambridge at 9 A.M. Found Walter at Museum. Woodworth & Bangs called in A.M. Out walking in evening. Dined at the Always & spent night there.

Covered

Wea.

TUES. OCT. 2, 1900

Ther.

Forenoon cloudy; afternoon clear with heavy E. wind.

Spent A.M. at Museum. To Concord with Gilbert by 1.47 train from Boston wharves. I went at noon to order a lot of shingles at Messinger & Jones. Found Pat at cabin, Peterson arrived shortly. Everything all right & woods looking well in spite of drought. Walked to Pine Park & back home in P.M.

Wea.

WEDNESDAY 3

Ther.

Cloudy, calm, mild.

Drove to the farm in A.M. The woods, orchards & fields look well in spite of the drought. Returned to cabin at 11. Met Mr. & Mrs. Pierce of New York. They had been to the cabin to be my wild garden & to get advice as to how to water it. Had Johnson & Karl Engstrom come down at noon. Benson worked on the Board's Meadow in P.M.

Wea.

THUR. OCT. 4, 1900

Ther.

Early morning foggy; forenoon cloudy; afternoon clear & warm.

Spent A.M. in Holden woods with Peterson cutting out a new wood road. Benson, Hansen & Pat's boy joining men at work on the wooding in the Board's Meadow. Had Johnson & Karl Engstrom begin work on the new cabin cutting out the various etc. In Board's Meadow & Holden woods in P.M.

Wea.

FRIDAY 5

Ther.

Early morning foggy. Remainder of day clear & uncomfortably warm.

Drove to the farm directly after breakfast. Also called on Mrs. Ritchie & at Mr. Howe's.

On returning wrote a lot of letters. In P.M. went to Holden's Mill & cleared a lot of trees along the line of the wood road I am making there.

Wea.

SAT. OCT. 6, 1900

Ther.

Cloudy with E. wind & fine rain at evening.

To farm at 8 a.m. Called on Mr. Horn & had a talk with him about the school house. At the farm supervised the building of a scaffold in the barn.

In P.M. worked on the wood roads in the Barrett Meadow & Holden Hill woods.

Wea.

SUNDAY 7

Ther.

Cloudy with fine driving rain. Rain more than a dense mist - all day.

In A.M. walked to Davis's Hill, in P.M. through the Blakeman & Holden's Hill woods. Blazed trails for cutting & watched the birds & squirrels. Red Squirrels are numerous this autumn; Chipmunks fairly so.

I have seen but few Jays.

Mrs. John Barrett died at E. Burlington to-day as the result of an operation for appendicitis performed ten days ago.

Wea.

MON. OCT. 8, 1900

Ther.

Sunny with drifting clouds, sunset showers in P.M. and heavy continuous rain after dark. Oppressively warm with light S.W. wind.

Spent the entire day in the Barrett Meadow where I had Benson, Hansen, Jimmy Flannery & Peterson at work. We nearly completed the new roadway. Saw a flock of 25 Black Ducks, an Osprey, a Marsh Hawk & 2 Herring Gulls.

Wea.

TUESDAY 9

Ther.

Rained hard all last night & through the whole of to-day & this evening it is heavily pouring. The wind was N.E. all day & strong in the P.M.

Spent most of the day in the new cabin where the carpenters were busy at work on the structure. The oak window & door frames were put in yesterday.

In late P.M. walked to the Barrett Meadow & the E. end of Bull's Hill.

Wea.

WED. OCT. 10, 1900

Ther.

Cloudy with violent N. E. wind. Showers in A. M., heavy rain in late P. M., & windy

Took the 12.34 train for Boston where I attended a meeting of the Directors of the Audubon Society. Also called on Roland Hayward & lunched with Jim Melvin at the Exchange Club. Came out in the car with Mrs. Babbs & Miss Doris Brown. Spent night at the Almy's!

Wea.

THURSDAY 11

Ther.

Blue sky flecked with clouds at day break. Cloudy rest of day with heavy cold N. W. wind & frequent heavy showers.

Took 8.34 A. M. train for W. Sudbury. Soon after I reached the cabin Purdie came from Concord to spend the day & night with me. Only the carpenters & Jimmy Flannery worked. There was a gorgeous sunset.

Wea.

FRI. OCT. 12, 1900

Ther.

Brilliantly clear with light W. wind. Very warm. Sky cloudy at sunset

Spent the day in the Barren meadow woods with Peterson, Hansen, Jimmy T. Frank the new man whom I have heard for a while. He worked at the wood sheds & was busy felling out the trees. I got seven chestnut logs for the new cabin & found them down with my little crew. Met Raymond Emerson Purdie left at 2 P. M. & came to Boston

Wea.

SATURDAY 13

Ther.

Cloudy with E. wind.

In A. M. went to Barren meadow & Davis Hill. Took 12.35 train to Cambridge to attend meeting of A. S. N. Committee at 3 P. M. Present Purdie, & Brewster. Went to Lancaster by 5 P. M. train. C. met me at station & we drove to Miss Holman's. Took a walk to the river after supper. Miss Olive, Miss Austin & Miss Ward the only boarders besides ourselves.

Wea.

SUN. OCT. 14, 1900

Ther.

N.E. rain storm with violent wind.

Spent A.M. in room. Lunched at John Thayer's at 1 P.M. Mr. Thayer showed me his collection of mounted N.A. Birds & his aviary. In the latter he has a Golden Eagle, 3 young Bald Eagles, 3 Great Horned Owls, 3 Screech Owls, a Raven, 2 Crows & a Pittman. The last eats frogs & snails. C. talked with Mrs. Thayer. We walked to the river again this evening.

Wea.

MONDAY 15

Ther.

A.M. cloudy. P.M. clear & very warm

C. & I drove to Pomission Hill in A.M. Saw a Partridge & Winter Wren, a Grass Finch, large flock of Robins, flocks of about 12 Cedar Birds, Jays, Crows etc.

In P.M. with Miss Loring at 3.15 & drove with her & C. to Bolton.

It was deliciously warm. The foliage is brilliant in spots.

C. & I walked to river again this evening.

Wea.

TUES. OCT. 16, 1900

Ther.

Brilliantly clear & very warm. 76° up to 4 P.M. when there was a violent squall. After this it was much calmer with heavy rain through the evening. In A.M. C. & I drove with Miss Loring to Fort Pond & around Pomission Hill. Saw lots of birds. One had a Sapsucker. The foliage was beautiful - as it has I think.

Took 3.15 train for Belmont reaching the cabin at 4.30 P.M.

Wea.

WEDNESDAY 17

Ther.

Brilliantly clear with high N.W. 34° wind. "Finger cold" this morning, rather warm at noon.

Spent most of day at Belmont meadows & in Holden woods. The men finished clearing out the road woods & began looking for birds. In P.M. Mr. Armstrong a geologist appeared & started the drift hills which the boys are seeking, we knew as I had supposed. At 4 P.M. Mrs. Emerson called.

Wea.

THUR. OCT. 18, 1900

Ther.

Clear with fresh W. wind 34°
Early morning cold, warm at noon.

In A. M. paddled up to the
Moose when I met E. R. S. by
appointment to advise her about
cutting down some berries & other trees.
Dined at the Keyes'. In the P. M.
walked to the boat pasture with Miss
Keyes, Miss Parker & Mrs. Gosh.
Got back to the cabin at 5 P. M.
riding part of the way down.

Wea.

FRIDAY 19

Ther.

Clear & cool with strong N. W.
wind

Spent the day with the men
on the Barren meadow. We
made good progress with the
ditch & roadway & expect to
finish both to-morrow.

Raymond Emerson came down
in his canoe at 6 P. M. to
spend the night & go shooting
down river to-morrow.

Wea.

SAT. OCT. 20, 1900

Ther.

Cloudless & calm.

27°-57°

Spent still another day at the
Barren meadow where the men
practically finished the roadway &
ditch. He also, dragged out an
enormous quantity of brush and
burnt it on the meadow at evening.
Raymond Emerson started out at
day break this morning. He shot at & missed
(or failed to kill) a Grebe, a Mink & my
large curlew-colored *Buteo lineatus*.
Roland Hayward came by 5:35 train to pass
Sunday

Wea.

SUNDAY 21

Ther.

Clear with strong W. wind. 32°-65°

Roland & I drove to the farm
after breakfast & walked back
through the woods looking the cabin
quite in time for dinner.
In the afternoon we went to
Holden's Hill.

Wea. MON. OCT. 22, 1900 Ther.

Cloudless with soft haze &
deliciously warm, third S. W.

50°

72°

58°

We broke ground this morning for
a wood shed & took down part east
of Gilbert's cabin. I stayed with the
men all day & by night we had the
excavation completed & down of the
stone underpinning laid. Roland
left us by the 8.15 train this
morning.

Wea. TUESDAY 23 Ther.

Clear and warmer even than yesterday
with fresh S. wind.

52°

77°

67° 8 PM

Spent entire day at or near cabin.
James Long, a Corleish mason, came at
10 a.m. to lay the wall for the
new wood shed. He set the steps
in front of the new cabin in the
afternoon. A Hermit, 4 Golden Crests,
2 Black Poles, 4 Chickadees, a Downy
& a White-throat visited the thicket
about the cabin during the day.

Wea. WED. OCT. 24, 1900 Ther.

Clear, very warm, calm all day. 40°-78°

Took 9 a.m. electric to Concord to meet
C., Beaudin & Ada Brewster at Titchburg
station at 10 a.m. Beaudin & Ada came but
C. did not so I returned to Balls Hill
having L. & A. to wait for me. Ben arrived
at noon & they all drove down together
& dined at the cabin. After dinner we
drove to the farm where C. & I spent our
first night at L. & A. departing for home at 3.30.
The oak foliage gorgeously colored to-day.
It would last night.

Wea. THURSDAY 25 Ther.

Brilliantly clear with fresh N.E.
wind. Cooler than yesterday.

In a.m. C. & I drove to cabin, round
thence to Davis's Hill, walked to Birch Island
& through the Danvers wood road to the
farm where we dined.

Soon after dinner we drove again to Balls Hill
& I carried C. up over the covered up the
creek & finally to Nashawank bridge.
She took 4.41 train for Danvers. I spent
the evening at home at 6 P.M.
Oak foliage still at its prime. I have seen
no more fall colors.

Wea.

FRI. OCT. 26, 1900

Ther.

37°-56°

Cloudy with fine mist which wet the leaves & grass thoroughly & set the trees dripping.

Spent the day with the men cutting brush at the E. end of Davis Hill. Two of the men were hauling stone from the old wall to the new wood shed which has advanced rapidly & will probably be ready for the roof by the - unknown night. Saw very few birds. A Partridge drummed this whole forenoon.

Wea.

SATURDAY 27

Ther.

Cloudy with mist & at times 53°-58° fine rain.

Spent the early forenoon & late afternoon with the men. The stone walls of the new wood shed were practically finished by night & we did a lot of miscellaneous work at or near the cabin. The structures of the new cabin are now hung, the inside shalting finished. May & Harry, Amey & Harry arrived at 11.00 & dined at cabin. We went to the farm in P. M.

Wea.

SUN. OCT. 28, 1900

Ther.

50°-57°

Cloudy with N. E. wind & heavy rain through the forenoon.

Drove to farm in A. M. met Mr. Long, the mason, there & talked with him about building a high wall at N. end of orchard. Next called on Mrs. Ritchie & agreed to employ Mr. Dobbie for 2 weeks. Finally called on the Howes & talked about schoolhouse without definite results. The Howes party were to have come down to dinner but the rain prevented. In late P. M. walked to Davis Hill.

Wea.

MONDAY 29

Ther.

Cloudy with N. E. wind up to 4 P. M. when the wind fell calm, the sky cleared & the sun shone gloriously until at night started but foggy.

Spent most of day on Davis Hill where the men cut a number of rather large pieces for the timber etc. for the new wood shed. We put them in the run & Pat rowed the boom up to the cabin towing them behind his boat.

Wea.

TUES. OCT. 30, 1900

Ther.

48°-55°

Cloudy & cooler with strong, harsh N. E. wind.

Spent the forenoon on Davis' Hill. The mason was finishing the culvert there and Pat and down from some pieces. After they were in the river I tied them in a long string & towed them up to the cabin using my little canoe & hauling the whole way, in about half an hour. He also began this morning an excavation at the E. end of Bobb's Hill for a horse stable. Pardon came unexpectedly at 2 P.M. to spend the night.

Wea.

WEDNESDAY 31

Ther.

A duplicate of yesterday but 40°-51° cooler - altogether a dismal, desquith day.

Pardon left us at 9 a.m. I had a very busy day with the men. We finished the excavation for the stable & the mason finished his work on the wood shed & also put in a second culvert at Davis' Hill. The new cabin is advancing slowly. The oak window coverings both inside & out are now in place.

Wea.

THUR. NOV. 1, 1900

Ther.

41° at night

Cloudy with S.W. wind & light rain all evening. The sun shone for an hour or two in the afternoon.

Still another busy day with the men. The carpenters working on the trimmings of the wood shed, the mason on the stone walls of the stable, I accompanied about with John & Jimmy & Jimmy cutting some pieces in the big opening, finishing the grading of the road to Davis' Hill etc.

Wea.

FRIDAY 2

Ther.

Brimingly clear with fresh W. wind 72° 2 P.M.

Spent most of the day at the house with Pardon & I carried cutting down & into posts a number of fine boards that stood in the clothes yard. Dined at the Hayes' where I saw Miss Marvin, Miss Goss, Miss Davidson & Miss Patten. Had a stiff head with up wind against the wind but a glorious sail took us home before sunset.

Concord.

Wea.

SAT. NOV. 3, 1900

Ther.

Cloudy with light E. wind 37°-57°

Spent entire day at cabin attending to "last things". The carpenters finished roofing on the wood shed, the mason nearly finished the stone wall around the stable excavation.

Pat, John & Jimmy Flannery were busy grading, making boards, putting in stone steps etc.

Wea.

SUNDAY 4

Ther.

Cloudy most of the day with light E. wind. Densely foggy in early morning. 34°-52°

Spent the day at the farm where I met Mr. Long the wagon, the two carpenters Ellsper & Bergerstrom, Peterson & Loring. Talked over the farm work & decided to build on the stone wall on the head of the orchard.

Walked back to the cabin before sunset.

Concord

Wea.

MON. NOV. 5, 1900

Ther.

Cloudless, calm, very warm.

My last day at Concord and the busiest of this very busy autumn. I had ten men at work on or near the cabin. The mason finished the stable pit wall. At noon we discovered that the chimney of the new cabin had cracked & killed & we braced the foundations with timbers. In P.M. Hanson brought a large Christmas log for a garden table. Gilbert & I closed the cabin & went to Cambridge by 6 P.M. Arrived at C. at the house.

Wea.

TUESDAY 6

Ther

Brilliantly clear & colder with fresh N. wind.

Spent most of day in museum writing E. R. S. who has been ill for two or three weeks at the Thayer came up in a carriage to-day to stay with us.

Wea. WED. NOV. 7, 1900 Ther

Clear with light S.W. wind, a delightful day for this season.

Drove to Mans Camp 7:00 at 10 a.m. & had a long conference with Woodward then to Boston where I dined at Fillies, called at 35 Congress St, "aid on" and collected at Smith's & Hestings & Jones, & attended meeting Anderson Soc. Directors at 3.30 P.M.

Wea. THURSDAY 8 Ther.

Cloudy most of the day with thunder showers in late P.M. & evening. Very warm.

To Concord with Gilbert by 8.34 train. Crossed river in little open canoe. Saw carpenters who were finishing wood shed & Pat & John who were clearing up the paths in Holden woods. Then walked to Eagle Hill & walked thence to farm where I found Loug, Peterson, Henry, Jimmy, Frank & Benjamin all were getting out wells. Paid off Peterson & discharged him. Back to Cambridge by 6 P.M. train. Henry under stone with hole outside as at Bedford.

Wea. FRI. NOV. 9, 1900 Ther.

Cloudy with violent thunder shower in forenoon & drizzling rain in P.M.

Spent day in museum writing & getting things ready for the A.O.U. meeting next week. Saw two Orange-crowned Warblers in the garden & shot one of them with my 22 cal case gun in the willows just behind the house. I tried to shoot the other but it was shy & finally escaped me. The bird I got was a ♂ I made it into a skin.

Wea. SATURDAY 10 Ther.

Brilliantly clear with violent N.W. 34° wind.

Gilbert & I went to Concord by 8.34 a.m. train. Crossed river to Ball's Hill & walked thence to the farm where we dined. Found Benjamin Frank & Jimmy at work down, at the cabin the two carpenters Pat & John. The wood shed finished & Collected up. Took 4.24 P.M. back to Cambridge. There was ice on the waterways back at Concord.

Wea. SUN. NOV. 11, 1900 Ther.

Cloudy & chilly.

Spent a.m. in Museum writing.
Went to Boston at noon with C. &
dined at the Haywards'. Aunt Mary,
Roland, May, Harry & Miss Hammond at table.
Called on Frank Manning afterwards.
Came over at 4 P.M.

Wea. MONDAY 12 Ther.

Cloudy & mild.

A.O.U. meetings began to-day. To Battery's
at 10 a.m. to attend Council meeting,
which lasted until 5.30 P.M. all but
one of the Council then. Among them
Cory, Drayton, Dutton, Sage, Roberts,
Fisher, Morrison, R. Dean, Allen,
Chapman, Elliot.

We gave a dinner party at 6.30 P.M.
at 8 P.M. the Active members held the
annual business meeting in my Museum

Wea. TUES. NOV. 13, 1900 Ther.

Clear & mild.

Morning session 10-1 afternoon 2-4
at Wash Hall. Lunch at Colonial Club.
Large attendance. More important
scientific papers to-day. A few
Lenten slides in P.M. (I showed some
of mine). Dinner at Pottery's at 7 P.M.
I went with Walter. 22 men present.

Wea. WEDNESDAY 14 Ther.

Clear & mild.

The sessions to-day mainly devoted
to Lenten slide exhibitions & talks.
I gave a reception at the museum
this evening to the A.O.U. members.
About forty were present.

Wea.

THUR. NOV. 15, 1900

Ther.

Cloudy with light rain.

The reports of the Protection Committee came this forenoon. In the afternoon the Audubon Societies held a Congress in ~~the~~ Geology Room on the Mansions. Allen, Merriam, Deane, Chapman, Deaton & a few others of the ^{local} A. O. U. members attended this meeting.

I gave a dinner this evening at which Mr. J. B. Hoop, Horace Swadlow, Geo. V. Bryant, ^{Judith} Percey, John Brewster, Edward Johnson, Dr. Gehring, Dr. Blakely & several others were present. Dr. Johnson read his lecture on the same to us after the dinner.

Wea.

FRIDAY 16

Ther.

Brisibly clear with strong N.W. wind 26°

Twenty of the A. O. U. men went to Concord with Walter by 9 a.m. train. Gilbert & I went up about by 8.34 train crossing river at Ball's Hill. I drove them to the farm where my guests arrived in a stage drawn by 4 black horses at noon. After a lunch of sandwiches, milk, cider etc., we walked to the cabin through the woods. The A. O. U. men went back by stage while Gilbert & I stayed the night & returned on the farm train with them.

Wea.

SAT. NOV. 17, 1900

Ther.

A. M. clear, clouds gathering in P.M. Light W. to S.W. wind, very cold. 20° at 6 a.m. 15° at 6 p.m.

Took 8.34 train for W. Bedford. Found wire entirely frozen but Pat had broken a channel through which we crossed. Dined at cabin with Gilbert & at 2 P.M. went to farm where C. joined me later to spend Sunday. Heard a Partridge drumming in the Barn this evening. Beyond the "Sly Pilot" this evening. It is a thing from Henry 9 left in the house.

Wea.

SUNDAY 18

Ther.

Clear & warm with strong S.W. winds

To Ball's Hill with C. at 9 a.m. driving down in the farm wagon. As we were in the new cabin the whole Swadlow family arrived & we had a pleasant talk. C. & I walked back to the farm through the woods leaving the wagon in train for dinner. Finished the "Sly Pilot" in the evening.

Wea.

MON. NOV. 19, 1900

Ther.

Cloudy with steady rain in A.M.

C. departed for Cambridge at 9 a.m. driving up to Concord for the train. Gilbert & I dined at the Cabin & took the 12.30 train from W. Medford. I kept on into Boston to wait on appointment at Dr. Rand's at 2 P.M. taking an electric car to Cambridge at 4 P.M.

Wea.

TUESDAY 20

Ther.

Cloudy, misty, warm.

Spent the entire day at Mrs. Corp. Zook, working with Dr. Woodworth & Ostrom Bangs on the Scott Jamaica collection of birds. There were a large number of duplicates & part the same birds as in order for cataloging.

Wea.

WED. NOV. 21, 1900

Ther.

Cloudy with strong S.W. wind & heavy shower at evening.

Spent A.M. at Mrs. C. Z. with Dr. Woodworth, Ostrom Bangs & North finishing the work on the Scott Birds. Returned to home for lunch & found Dr. & Mrs. Roberts there. I hurried in town for another session with Dr. Rand. Dined at the Haywards & met C. & E. R. S. at Boston Society where Dr. Roberts read his paper on Fossil Birds' Eggs.

Wea. Friday ~~THURSDAY 22~~ 23rd Ther.

Brilliantly clear with strong W. wind. Warm at noon, chilly at evening.

Gilbert & I went to Concord by 8.34 a.m. train. Dined at Cabin. Carpenters have finished floor of new Cabin & are working on chimney by for Ball's Lab. Bangs & his man staying with Mr. H. D. D. to finish in P.M. C. finished work there at 8.30 to pass the night.

Wea. ~~Thursday~~ ²² ~~FRI~~ NOV. 23, 1900 Ther.

Cloudy & ~~calm~~, with strong N. W. wind.

C. & I drove around Fresh Pond after breakfast. Hundreds of Geese & a great many Ducks, including a flock of 17 Ruddy Ducks on Cambridge Neck. Spent most of day working in the garden with Peter & his men. Peter bought a load of fine kyes from Concord. In the eve drove out with the Botetys on T.V. to Plum. Botety, Dean, Howard, Jordan, Jeffers & myself.

Wea. SATURDAY 24 Ther.

Cloudy, calm, very mild.

C. & I spent the forenoon at the farm. I was busily engaged with the men putting things in order. I have decided to clear the place for the winter. George Dean will take Charley, the boy will go to Merrimack, the cow to Home's, the hogs to Benson's. After dinner C. & I walked to the cabin & drove down to Concord taking 4:20 P.M. train for Cambridge.

Wea. SUN. NOV. 25, 1900 Ther.

Cloudy & chilly with heavy rain in A.M.

Spent A.M. writing letters in Museum. C. & I went into Boston at noon & dined at the Haywards with Aunt Mary, May, Harry, Roland & Miss Hammond.

Wea. MONDAY 26 Ther.

Cloudy with strong N.E. wind & heavy rain all day.

Drove around Fresh Pond with C. just after breakfast. About 100 Geese, 25 Black Ducks, a flock of 17 Ruddy Ducks, & a lesser scaup were swimming in the water, a flock of 6 White-winged Scoters flying about over it. Most of the birds were in rough water near the low shore, but the Ruddy Ducks & Scaup were in Court. Wood. Spent day in Museum.

Wea. TUES. NOV. 27, 1900 Ther.

A. M. cloudy with strong N.E. wind & 36°
fine rain.

To Fresh Pond near C. at 9 a. m.
5-2 Black Ducks at S.W. end of Pond,
(17) Ruddy's, the 3 Lesser Scaup & a
fine ad. ♂ Whistler (a new comer) in
Cambridge Nook. The Ruddy's were within
gunshot of those diving for food & I had a fine
view of them.

Wea. WEDNESDAY 28 Ther.

Brilliantly clear with crisp but not
cold air & but moderate W. winds.

I had intended starting for Bethel to-day
but finding it impossible to arrange all
my affairs here in to buy a train here
put it off until Saturday. Spent to-day
in the Museum working over my
new books etc.

Wea. THUR. NOV. 29, 1900 Ther.

Cloudy with light rain at 9 P.M. &
through the night.

Spent a. m. in Museum with Walter
& Gilbert getting my things together for
the flitting to Bethel. C. & I dined
alone at 1.30 and then later
went into Boston & spent about 2 hours
at Keith's Theater. Had supper at
Parker's & came out at 8.30

Wea. FRIDAY 30 Ther.

Cloudy with drizzling & rather light
rain. There is no frost in the
ground & the leaves are as green
as in June.

Spent day in Museum making
the final preparations for the trip to
Bethel. Gilbert & I packed two trunks
& a portmanteau. I am taking a good
many books.

J. T. Clark called in A. M. & took away
the European Widgeon ^{shot at Halyport, Mass. Dec. 20, 1899.} The owner will not sell
Clark offered him \$25.00.

Wea.

SAT. DEC 1, 1900

Ther.

Clear & mild. There is still no frost & the Cambridge lawns are emerald green.

C. & I left Boston at 12.30 & went to Portland over the Eastern R.R. Found Dr. Gehring on the train. Saw a few washed snow drifts on N. slopes after passing Portsmouth but the fields were bare all the way. & in Portland some of the lawns & heavy banks were green. Went to Congress Square Hotel. Spent evening reading Miss Howard's "The Garden of Eden" aloud. It is a strong story.

Wea.

SUNDAY 2

Ther.

Clear & mild. with no wind

C. & I went to St. Stephens Church in a.m. and afterwards walked about the city admiring its beautiful old houses.

Spent the afternoon & evening in our room reading the Garden of Eden which we furnished by bed time.

Portland

Bethel.

Wea.

MON. DEC. 3, 1900

Ther.

Clear but heavy with light S. wind. 27°
42°

C. took 9 a.m. train for Boston. I spent most of a.m. at Lord's taxidermist shop where I met several local bird men among them Dr. Brock & the veteran taxidermist Sime Daniels now running a set of camps at Sebago Lake. Lord had few interesting birds to show me. His work runs largely to deer heads.

Dined at R.R. Station & started for Bethel at 1.15. Country snow covered at So. Paris & beyond. Found a trace of snow & good sleighing on Bethel.

Wea.

TUESDAY 4

Ther.

Cloudy & mild. Snow began falling thickly 30°
40° at 3 P.M. but it had made but little by dark.

Took a cross walk with the family after breakfast. The crust was hard & firm in most places. It was overlaid by a dusting of fine snow which showed tracks with wear detail. I saw those of Skunk, White Hares, House Cats & near a flower heap, those of a chipmunk. Not a bird of any kind visible. Dr. Gehring had a Blue Jay, however. Had my first breakfast in the forenoon (10.30-12). Walked to town office in P.M. seeing a small flock of English Sparrows in the street.

Bethel, Me.

Wea. WED. DEC. 5, 1900 Ther.

It snowed steadily all last night & through to-day, more than 18 inches falling. The snow was light but damp & clung to the trees in horizontal flows. But the wind blew it off from them about the house. The mountains have been obscured during the past two days. There is no bird or animal life visible from the house, nothing but the unbroken mass of Hollow Snow.

Took a walk at 10.30

Wea. THURSDAY 6 Ther.

Clear with light W. wind. Early morning cold; middle of day warm
13°
30°

Passer domesticus 2 in valley
Cyanus cristatus 2 flying over woods
Geothlypis trichas 1 in apple orchard.

In A.M. took 6 photos with Panoram Kodak. In P.M. walked through deep snow to woods W. of house where I found 2 Blue Jays, tracks of many Rabbits & one track of a Squirrel. The sunset (at 4 P.M.) was very fine.

Bethel, Me.

Wea. FRI. DEC. 7, 1900 Ther.

Veiled sunrise in A.M. cloudy in P.M. with snow squalls at evening. They snowed a little & the snow drifted slightly in P.M. 17°
32°

Out with the 5x7 camera after breakfast. Walked through deep snow up the clearing (~~the woods~~) & exposed 4 plates on distance view. The air was still & seemed warm. I wore neither overcoat nor gloves yet came in dripping with perspiration. Heard a Jay ~~calling~~ calling. Walked to the edge of P.M. Saw a Shrike chasing a Sparrow (downy) which I could not catch.

Wea. SATURDAY 8 Ther.

Brilliantly clear, dead calm, mild at midday. 14°
28°

Took my usual walk (or wade) after breakfast over the fields S. of the house. Exposed 2 plates there. Heard Blue Jays & the distant flight call of a Goldfinch. In P.M. drove out 2 miles along the Middlebrook Road with Dr. Gehring & Mr. Potter. Exposed 6 plates, 5 of them in snow loaded with ferns through which the road passed, 1 (15 m. after house) on a distance view of the low valley. The woods & fields were wonderfully beautiful & the mountains beyond. Saw a Blue Jay & heard a Chickadee. The air though frosty was singularly soft & grateful. Got back at 4.30 P.M.

Wea.

SUN. DEC. 9, 1900

Ther.

30° 9 a.m.

A wild day, brilliant sunshine & dense 2° 8 P.M.
 snow squalls alternating, the snow blowing
 from the trees & drifting across the fields
 before the raging N. wind. Air frosty but not
 really cold. This is the first windy day there for
 I took my usual walk in the fields after
 breakfast. The drifting snow drove past me
 in dense weather half blowing me over &
 enjoyed the exercise & the cold tannish of
 the elements. The mountains were hidden.
 No signs or sound of bird or animal were
 seen & back in the air drifting snow.
 Spent rest of day in doors.

Wea.

MONDAY 10

Ther.

Brilliantly clear with violent -10°
 N. W. wind - 2°

The Potters started for Boston, Mrs. Gehring
 & the girls for Portland, by the morning
 train. The Doctor & I went to the
 station to see them off. He sat down
 down together on a platform seat. It was
 bitterly cold but with a day of white drift
 air. The Doctor & I walked all the way
 back. Spent rest of day in house.
 At evening had news that a wrecked freight
 had derailed on the W. Pass
 all day. No birds. Two Deer with claws
 killed within 2 or 3 days of our home this winter.

Wea.

TUES. DEC. 11, 1900

Ther.

-10°

Clear with moderate N. W. wind. +14°

Regulus satrapa 1 hd. 1 seen wood road S. of G's.

Spent a. m. in doors. At 3 P. M. started
 for a walk with Dr. G. We followed the wood
 road which enters behind Miss Jure's house for
 nearly a mile. Met several sleds laden with
 cord wood. Woods silent as the grass. Saw for the
 first of the two Kinglets. Saw only rabbit tracks
 & few feet of them. Had an exhilarating walk,
 however. The Doctor was testing my hip & pushed
 me hard & fast.

Wea.

WEDNESDAY 12

Ther.

-4°

Brilliantly clear with strong N. W. +12°
 wind.

In a. m. the Doctor gave me a rough
 ride to the station & back. At 3 P. M.
 we repeated yesterday's walk but went
 a little further on getting finally into
 a dense woods of tall balsams & hemlocks.
 Neither sight nor sound of bird or mammal
 and no fresh tracks save those of a Squirrel.
 The animal pounced noiselessly on the tree tops
 & the snow crunched under our feet. Attention and
 was silence. My hip troubled me somewhat
 but I walked the whole way at least 2 miles.

Wea.

THUR. DEC. 13, 1900

Ther.

Cloudy. Wind N.E. to N.W., light

a gloomy day with light flurries of snow. Dr. Gehring departed for Portland this morning to stay until to-morrow. I spent the forenoon writing. In the late P.M. walked up the wood road for a little more than a mile. The trodden snow in the roadway had softened very noticeably although the therm. had risen about 20° to-day & there was no sun. Saw 3 chickadees lyellii on alders & made one of them whole phoebe. No fresh tracks.

Wea.

FRIDAY 14

Ther.

Brilliantly clear; calm.

Received my new Folding Kodak camera yesterday & tested it this forenoon by posing a dozen film plates along the stairs to the village & from our piazza. The sun was warm & I was perfectly comfortable without either gloves or overcoat.

Went in P.M. walked up Plover Hill to beyond the apple orchard. When the road became too difficult to follow further. The forest was very fine.

Developed my films in the evening
noticed to-day.

+ 2°

+ 12°

Wea.



SAT. DEC. 15, 1900

Ther.

Cloudless, no wind.

+ 1°

+ 24°

Spent a.m. photographing near house. Up wood road to Balsam Knoll 2.30-4 P.M. taking 4 pictures there. Found tracks of large Wild Cat which had crossed road at right angles making jumps of 2 to 5 ft. The track was sometimes  sometimes  the former arrangement of prints like that of Rabbit. The prints of hind feet were 2 1/2 to 3 in across (estimated). Some of them were very distinct. Also found tracks of Porcupine leading to hemlock. A solitary Chickadee the only bird seen or heard.

Wea.

SUNDAY 16

Ther.

Brilliantly clear without a breath
of wind + 14°

Spent 2 hours up the wood road this a.m. starting at 11.30 & walking to the crossroads (about 2 m.). It was simply heavenly in these woods. The sun was warm the air soft & windless. Birds out in unusual numbers. Heard a Canada Warbler, Chickadee in 3 places, Kinglets in 2 places. Started 2 Partridges from tops of tall trees near Logpile & saw tracks of another. Snow everywhere marked with footprints of Rabbits. Saw many Fox tracks also & found 7 Porcupines.

+ 2°

+ 2°

+ 14°

Wea.

MON. DEC. 17, 1900

Ther.

- 8

Cloudless with absolutely no wind. + 22°
 Scenery looking on mountains admirable,
 fine & dark trees the most rich &
 delicate that I have seen thus far.
 Took a turn with the doctor on snow
 shoes after breakfast going to the
 upper end of our clearing & a little beyond
 into the heavily young birch growth. Saw
 2 Chickadees & many mouse trails leading
 from stump to stump over the snow. In
 late P.M. walked to Balsam Knob
 & back. Snow clear the mountains were timbered

Wea.

TUESDAY 18

Ther.

- 0°

Cloudless, dead calm all day + 22°
 a heavenly morning, air keen but soft.
 Took a turn with the doctor on
 snow shoes after breakfast going to
 the upper end of our clearing ~~about~~ ^{about} 1/4 mile
 beyond into the woods, following an old
~~In late P.M. walked up the woodland~~
~~to Balsam Knob, wood path. Found~~
 a beautiful region heavily wooded with pine,
 hemlocks & larches with frequent openings.
 Many Kinglets in 2 places, Chickadee one,
 2 Red Squirrels. Saw a Partridge tree,
 a Porcupine trail & many Fox, Rabbit tracks.
 12 plants with 4 1/2 3 1/4 7 seeds, Hordes

Wea.

WED. DEC. 19, 1900

Ther.

+ 2°

+ 40°

Cloudy, calm, mild.

To village in A.M. Saw a Blue Jay in apple
 trees near a house.

To Glen Woods in late P.M. Snow thawing
 everywhere & falling from trees in masses. Every now
 & then the branch of a pine would break with a
 report as loud as a pistol as a cascade of snow
 fell on it from a branch above. The snow falling
 was very different & laborious as the wet heavy
 snow clogged & loaded the shoes at every step.
 Saw one flock of 4 Chickadees accompanied by a
 Creeper, another of 5 by 2 Canada Nuthatches.
 no fresh tracks in these woods. Evidently the
 forest folk stayed in their dens last night.

Wea.

THURSDAY 20

Ther.

+ 35°

Cloudy with light rain last night + 40°
 and snow squalls this P.M. Violent N.W. wind
 started up at 8 P.M.

Heard Blue Jays screaming this morning &
 later I caught into apple tree near our house.
 Spent A.M. in doors writing etc.
 Started out on snow shoes at 3 P.M.
 taking the better trail to the Glen Woods.
 Went far beyond where the doctor & I stopped
 on Tuesday coming out at Rose Meadows.
 Saw 4 Kinglets (3 together, 1 alone) & a Creeper.
 There were no fresh tracks save those of Squirrels.
 The snow has settled badly & is nearly all of the
 trees. It was nearly dark when I got back.

Bethel, Me. Cambridge, Mass.

Wea. FRI. DEC. 21, 1900 Ther.

Brightness clear in a.m. Cloudy + 18°
in P.M. Almost no wind. + 34°

Out on snow shoes with the Doctor & George
8.30 - 10 a.m. following the wood edge
around one clearing following animal trails etc.

To my surprise found trails of Skunk that
had come out onto the field last night.

Then some Jays, in the orchard this morning
a Chickadee visited some tree tops up yesterday
saw a flock of Goldfinches (a dozen or two
of them). Spent P.M. putting in dark
room with D.L.

Wea. SATURDAY 22 Ther.

Cloudless & dead calm most of the day. + 8°
30°
Early morning cold at Bethel, coming at Cambridge with

Left Bethel at 9.15 a.m. for home. Dr. Gehring
went with us as far as Portland where
dined alone at the Union Station. The
afternoon ride on the Eastern Division
was very interesting the woods being especially
beautiful. There was a thin crust of ice snow
over the fields about Portland & only a
Portsmouth forest of which the country was almost
bare. At Cambridge the crows on the ground.
C. & Gilbert were in at Boston. On looking up
I found a handsome party Mrs. Higgins, Dr. Gehring
Walter & Morgan, Mrs. May, Mary, Anne, Jennie & Phyllis

Cambridge.

Wea. SUN. DEC. 23, 1900 Ther.

Clear & mild with light N. wind 50°

[at Bethel 10° & 30°]
Directly after breakfast down to Fresh Pond
with C. Found Frank Allen there looking at the
birds. The Pond was covered with thin smooth ice
on which were sitting or standing fully 1000 Gulls
& about 60 Black Ducks. covering a space of 2 or 3 acres.
In clear water, was a small ice hole full of birds
wading & diving. It was a beaver for a 1/2 mile
down the Gulls were 2 adult Black-backs.
Continuing on around the Pond we saw 2 Hens &
6 or 8 very tame Crows. We went down through
Ponyon Park where we saw 2 Cedar Birds.
Dined at the Haystack with the family &
Mr. Bennett. Will & Alice Stone took tea with
us & Parker called later on the way

Wea. MONDAY 24 Ther.

Cloudy & calm, very mild. 50°

[at Bethel 38° & 44°]
To Fresh Pond with C. at 10 a.m. About
700 Gulls (one or 2 Black-back), 128 Black Ducks,
1 ad ♂ Mallard & 6 Whistlers were sitting on the
ice or swimming in a broad bay of open water
that has at intervals thawed since yesterday.
Had a fine view of the Mallard as he stood out
on the edge of the ice. Saw a Pigeon Hawk
flying across the fields from the Haystack.
Also a number of town Crows.
Two Cedar Birds on the Haystack & a Shrike
singing in our Conifers.

Cambridge.

Wea.

TUES DEC. 25, 1900

Ther.

32°
44°

Clear, calm, mild.

(The weather has been very uniform here for nearly two weeks it is like early November.)

To church with C. at 8.30. Walked afterwards up the River Parkway & through Elmwood. Opened the pictures at 11 a.m. Frank Manning with us & Lorry at the time. Dined at the Hayes. All the family & children there as well as Will & Edward Simmons & the latter wife & children. Will Simmons very interesting about his hunting experiences. Were in town with C. & E. R. S. in the evening & heard the "Methuon" on the river near the Hall. Walter counted 1378 Gulls on Fresh Pond.

Wea.

WEDNESDAY 26

Ther.

29°
32°

Fair, clouds & sunshine alternating. A rather high & very cold N. wind.

Drove to Fresh P. with Gilbert at 10 a.m. taking the 6 1/2 x 8 1/2 camera. There were about 300 Gulls & 140 Ducks on the ice at the edge of a rather large area of open water off the Humboldt. Exposed 2 plates at them but the light was poor & they turned out badly.

Spent P.M. in the Museum. Meeting of Council of Museum Club at 8 P.M. to consider re-nominating Secretary. voted to give him \$25 for past years services.

Cambridge.

Wea.

THUR. DEC. 27, 1900

Ther.

20°
30°
10°
21°

Brilliantly clear with almost no wind.

Drove to Mus. Comp. Zoology at 10 a.m. to meet with the Committee on Distribution. The other two members, Dr. Chace & Dr. Blake, appeared at 10.30 & Dr. Mack showed us through all the various rooms in the Biological Dept. This tour of inspection consumed nearly 2 hours.

In P.M. C. & I drove over to Longwood to call on the Greenoughs. Only Constance & her baby were there to receive us. Called at the Cobridges after our return.

Wea.

FRIDAY 28

Ther.

32°

Cloudy with about 1/2 inch of snow falling in a.m.

Spent day in Museum. In a.m. wrote down different letters to Hyatt & Botschelder about the supposed Wilson "types". These are 16 birds originally from the Peck Collection which I bought of Maynard Love February. I have offered to return them to the Society on certain conditions.

Lois Howe called at 8 P.M. with plans for getting the four hours at Concord.

Cambridge

Bethel (Me.)

Wea.

SAT. DEC. 29, 1900

Ther.

+ 22° Cambridge

Clear, calm, cool.

14° } Bethel
29° } —

Returned to Bethel to-day taking 9 a.m. train, Eastern Div, from Boston. C. went with me to Portland & took 12.45 train back to Boston. I left Portland at 1.15 & reached Bethel at 4.45 P.M.

The country from Boston to Portland was dusted over with fine snow that fell yesterday. It powdered all the way, producing effects of great beauty & interest in the deep woods. Saw a Shrike near Portland.

Wea.

SUNDAY 30

Ther.

+ 2°

A.M. clear, P.M. cloudy, no wind

+ 36°

In A.M. wrote letters, & exposed 4 plates from the process in a 4x5 camera to test some new lenses which I am trying. At 12.30 put on my snow shoes & walked down through the orchard to the edge of the woods. In P.M. developed the negatives & took a snow shoe walk with Dr. Gehring to the ~~factory~~ end of our clearing. The snow has fallen a few inches more than a foot & has on my chest. Heard Blue jays, downy & found 3 chickadees on the first near my window.

Wea.

MON. DEC. 31, 1900

Ther.

+ 20°

+ 36°

Cloudy, calm, mild. A brooding & passing day. Snow squalls in P.M.

Out with the Doctor on snow shoes in early A.M. & later P.M. going both times into the woods south of our clearing. Put up some snare & set a rabbit trap there. Also hung up a large beef bone to attract Foxes etc. Snow covered & no fresh tracks to see. Saw a Kinglet & heard another. A Blue Jay attacked a squirrel this morning. Three Chickadees hung about all day.

NOTES FOR 1901

MEMORANDA

MEMORANDA

MEMORANDA

MEMORANDA

WAGES

Name

Engaged

Pat Flannery

37.20 advance to
by furniture
Dec. 1899.

15. on acc.
April 18

13. on acc.
May 12

5. on acc.
July 16

Worked in all
80 days to June 3

~~120.00~~
120.00
~~65.00~~ paid in adv.
55.00 bal. pd. June 4
15. on acc. Aug. 29

Christian

25. Advance on
acc. May 1899
Hay on Holden
meadows.

Karl Ellison

ps " "

WAGES
When Paid

Amount

When Due

W.F. Libby # 5 cash paid for shares Jan. 12th
Settled account in
full April 26th 1900.

Peter Severson }
Worked in lawn } days 25.
autumn & winter } 6. 25

(Pd. in full to) Apr. 22 to May 12 18 # 30. ^{May 12/}
" " " June 3 17.1/2 34.25 ^{June 2/}
" " " June 3 - 14 10 25. ^{July 2/}
" on acc. " - 3.
" " " July - 5
" " " Aug. 20 15

Mr. Hansen 8 days @ 1.75 on acc.
2 1/2 horses Apr. 28
30.

8 days to May 14
" 4 8 hrs horse in
all \$ 36.95
Cash 30. Apr. 28
Bal. 6.95 pd. May 30
Haying # 33. " July 23. ^{in full}
On account Aug. 20. # 20.
" " " 29 24

✓ Christmas presents given in 1899.

LETTER REGISTER

| Name | Received | Answered |
|--------------------|----------|----------|
| C. F. B. | | |
| E. R. S. | | |
| Walter Deane | | |
| Margie " | | |
| J. M. Chapman | | |
| Dr. Coolidge | | |
| H. A. Purdie | | |
| George & Bessie J. | | |
| Gilbert | | |
| Harold | | |
| Mr. Horn | | |
| Pat Flannery | | |
| Mr. Daly | | |
| " Libby | | |
| " Benson | | |
| Pat Flannery | | |
| Annida Merriam | | |
| " | | |

Subscriptions ✓

LETTER REGISTER

| Name | Received | Answered |
|---------------|---------------------------------|----------|
| Prosper Union | # 25 ^{Dec. 24} 1900 | |

ADDRESSES

| Name | Residence |
|---|----------------------------|
| Joseph Berner (nurse) | Berner Hall Mt. Auburn St. |
| Lapham (Has rustic blinds for old windows) | Dock Square, Boston |
| Dudley Pickman | 931 Exchange Bldg " |
| Harvey J. Black | 226 Marlboro St. |
| W. J. Cogan | Room # 32, Tremble Bldg. |
| H. A. Johnson (gay home) | Quincy, Mass. |
| C. B. Cory | 160 Boylston St. |
| Miss C. M. Carr | So. Sudbury, Mass. |
| Putnam & Pope (Hardwood flooring 1/2 inch) | Beverly " |
| John Crawford | Lakefield, Minn. |
| Will collect eggs of Franklin's Gull in selected birds. Recommended by Dr. Roberts | |

| | |
|--------------------|---------------------------------------|
| Christian Petersen | 21 in. 1st class St. Boston, Mass. |
| Karl Nielsen | Quincy, Mass. |
| John Peterson | Quincy, Mass. |
| David L. Benson | Quincy, Mass. |

ADDRESSES

| Name | Residence |
|-----------------|--|
| J. W. Vinal 760 | 7 Dock Sq. Boston Recom. by Dr. Chubbuck for tools. etc. Has long splint breast piece & small spread " " Get to needs |

Desirable Plants

VISITS

| Name | Address |
|---|---|
| <u>Morandia borelayana</u> | Flowering vine on Balth St admitted by E. R. S. |
| <u>Nymphaea devoniana</u> (night bloomer) | Seed by Henry A. Dean 714 Chestnut St. Philadelphia 75 to 1.50 each Blue |
| " <u>keveensis</u> | |
| " <u>Zawinbaueri rosea</u> | |
| " <u>aurora</u> (especially fine) | |
| " <u>stellata</u> | |
| " <u>multiflora</u> | |
| " <u>gracilis</u> | |

VISITS

| Reception Day | Visit Received | Visit Returned |
|---------------|----------------|----------------|
|---------------|----------------|----------------|

List of Birds observed at Bethel, Me

MEMORANDA

| Date | | Dolls. | Cts. |
|-------|--|--------|------|
| | December, 1900 | | |
| ✓ 1. | <i>Cyanocitta cristata</i> 4 ^{hd} 6 ² 7 ¹ 8 ¹ 19 ¹ | | |
| ✓ 2. | <i>Passer domesticus</i> 4 ⁸ 6 ² 7 ¹ | | |
| ✓ 3. | <i>Dryobates villosus</i> 6 ¹ 22 ⁵ | | |
| ✓ 4. | <i>Parus atricapillus</i> 8 ¹ 13 ⁽³⁾ 15 ¹ 16 ⁽⁴⁾ 17 ⁽²⁾ | | |
| ✓ 5. | <i>Spirurus tristis</i> 8 ¹ 2 ¹ | | |
| ✓ 6. | <i>Regulus satrapa</i> 11 ¹ 16 ⁽²⁾ 18 ^{hd} | | |
| ✓ 7. | <i>Sitta canadensis</i> 16 ¹ 19 ⁽²⁾ | | |
| ✓ 8. | <i>Boreo v. wyata</i> 16 ² 18 ¹ | | |
| ✓ 9. | <i>Certhia f. americana</i> 19 ¹ 20 ¹ | | |
| ✓ 10. | | | |

MEMORANDA

| Date | | Dolls. | Cts. |
|------|--|--------|------|
| | | | |
| | 20 ⁽²⁾ 21 ⁽³⁾ 30 ^{hd} 31 ¹ | | |
| | 18 ^{hd} 19 ⁽⁴⁾ 21 ⁽¹⁾ 30 ⁽³⁾ 31 ⁽³⁾ | | |
| | 20 ⁽³⁾ 31 ^{hd} | | |

BILLS RECEIVABLE

| Date | Name | Dolls. Cts. |
|------|------|-------------|
|------|------|-------------|

BILLS PAYABLE

| Date | Name | Dolls. Cts. |
|------|------|-------------|
|------|------|-------------|

CASH ACCOUNT—NOVEMBER

| Date | ✓ | Received | Paid |
|---|---|----------|------|
| <p>Utham Bangs' preservation to take the floor of arsenic. 16 parts burnt alum to 1 " Sattpeter.</p> | | | |

CASH ACCOUNT—NOVEMBER

| Date | Received | Paid |
|-----------------------------|----------|------|
| <p>(This page is blank)</p> | | |

Prescriptions

CASH ACCOUNT—DECEMBER

| Date | Received | Paid |
|------|----------|------|
|------|----------|------|

For Cough (by Dr. Gehring)
 Suction cup removed 4 drops in
 1/3 of a tumbler of water. Sip at
 intervals making it last 2 hours. &
 repeat several times a day.

" Chronic Bowel Trouble (by Dr. Gehring.)

Icthyol. Fill a number 1
 gelatin capsule & take one after each
 meal. Buy capsules & ictyol separately
 (the latter in 6 oz. bottle) & fill
 capsule just before taking.

CASH ACCOUNT—DECEMBER

| Date | Bonds | Received | Paid |
|------|-------|----------|------|
|------|-------|----------|------|

| | | | |
|---|---------------------|----------|--|
| 6 | Mexican Central | due 1910 | |
| 1 | Rainier Water Works | " 1897 | |

Stocks

| | |
|---------------------|---------------------------|
| 35 sh. | Boston & Providence |
| 15 " | Old Colony |
| 15 " | Boston & Albany |
| 103 " | Fitchburg |
| 80 " | Juney Cold Storage |
| 166 " | Boston Wharf |
| 15 " | Brownfield Building |
| 22 | Bell Telephone |
| 10 | Third Nat. Bank |
| 5 | Hide & Leather " |
| 3 | Merrimack " |
| 37 | West End R.R. pref'd |
| 25 | Shady Hill Nursery |
| 117 | Cambridge Fuel |
| 100 | Newport Bond |
| 16 $\frac{95}{100}$ | Atch. Sp. & St. Fe pref'd |
| 50 | West End Bond |

SUMMARY

| | Received | Paid |
|------------------------|----------|------|
| Cash on hand Jan. 1 | | |
| JANUARY | | |
| FEBRUARY | | |
| MARCH | | |
| APRIL | | |
| MAY | | |
| JUNE | | |
| JULY | | |
| AUGUST | | |
| SEPTEMBER | | |
| OCTOBER | | |
| NOVEMBER | | |
| DECEMBER | | |
| Total | | |
| Balance to new account | | |

Calendar, 1901.

| 1901 | | | | | | | 1901 | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| SUN. | MON. | TUE. | WED. | THU. | FRI. | SAT. | SUN. | MON. | TUE. | WED. | THU. | FRI. | SAT. |
| 6 | 7 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 2 | 3 | 4 | 5 | 6 |
| 13 | 14 | 8 | 9 | 10 | 11 | 12 | 14 | 15 | 9 | 10 | 11 | 12 | 13 |
| 20 | 21 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 16 | 17 | 18 | 19 | 20 |
| 27 | 28 | 22 | 23 | 24 | 25 | 26 | 28 | 29 | 23 | 24 | 25 | 26 | 27 |
| | | 29 | 30 | 31 | | | | | 30 | 31 | | | |
| | | | | | 1 | 2 | | | | | 1 | 2 | 3 |
| | 3 | 4 | 5 | 6 | 7 | 8 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 10 | 11 | 12 | 13 | 14 | 15 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | 24 | 25 | 26 | 27 | 28 | | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| | | | | | | | | | | | | | |
| | | | | | 1 | 2 | | | | | | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | 10 | 11 | 12 | 13 | 14 | 15 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | 24 | 25 | 26 | 27 | 28 | 29 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | 31 | | | | | | 29 | 30 | | | | | |
| | | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | | | 1 | 2 | 3 | 4 | 5 |
| | 7 | 8 | 9 | 10 | 11 | 12 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | 14 | 15 | 16 | 17 | 18 | 19 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | 21 | 22 | 23 | 24 | 25 | 26 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| | 28 | 29 | 30 | | | | 27 | 28 | 29 | 30 | 31 | | |
| | | | | | | | | | | | | | |
| | | | | 1 | 2 | 3 | | | | | | 1 | 2 |
| | 5 | 6 | 7 | 8 | 9 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | 12 | 13 | 14 | 15 | 16 | 17 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 19 | 20 | 21 | 22 | 23 | 24 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| | 26 | 27 | 28 | 29 | 30 | 31 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| | | | | | | | | | | | | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | 9 | 10 | 11 | 12 | 13 | 14 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | 16 | 17 | 18 | 19 | 20 | 21 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | 23 | 24 | 25 | 26 | 27 | 28 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | 30 | | | | | | 29 | 30 | 31 | | | | |

"Teach me, Father, how to be
Kind and patient - as a tree
joyfully the cricket's room
Under shady oak at noon:
Beetle, on his mission bent,
Tavies in that cooling tent:
Let me also cheer a spot
Hidden field or garden spot -
Place where passing ants can meet -
On the way and be their host."

10. 11. 1911
John W. Washburn
on Henry's Island, N.H.

4. 11. 11
John W. Washburn
on Henry's Island, N.H.

There are many interesting things about a night in late summer and early autumn, but few things that belong to it are more exciting than the determination of the temperature by the rapidity of the chirping of the "crickets," as the little green fellows that fiddle monotonously with their wings are popularly called. That measured, ceaseless "chirp, chirp, chirp" is certainly quickened as the temperature rises and slowed as it falls. I have seen the scale of the thing in print somewhere, and I doubt not that it is fairly familiar—so many chirps for 75 degrees, so many for 70, so many for 60; and at 50 the chirping is low and very slow indeed. One of the recent nights the mercury stood at about 80 degrees, and the chirping was simply fast and furious. I was the witness of a curious little experiment in connection with this phenomenon. One of the green insects somehow got into a country dwelling-house and took up his residence on a pair of lace window curtains. There he chirped every night, and never ceased when a bright light was brought close to him and a public exhibition made of his method of fiddling with his wings. As the air in the room became heated during the day and did not for some hours fall to so low a temperature as the air out-of-doors, this indoor cricket was bound by the rules of the game to chirp much more rapidly than the crickets out in the cool night air—and he did. His rate was considerably quicker than theirs. Moreover, when he felt the reflected heat of the lamp he began to chirp still more rapidly. This gave me an idea. As the night was still and a lighted lamp could be carried out-of-doors, I took the lamp and went out to a wild cucumber vine, on which several of the insects were chirping. I held it underneath the vine; and as soon as its warmth had permeated the air about the vine, the two or three insects that were there began chirping at a more rapid rate than the insects about them. I have never seen any scientific explanation of this phenomenon. It is easy to understand that a considerable degree of cold might make the insects' wings torpid; but why a heat of 80 degrees should set them to chirping more rapidly than the presumably agreeable one of 75 degrees is a little hard to understand.

There is another slight difficulty about this matter. Though the chirping of the out-of-door crickets is practically synchronous, so that for many minutes they are all absolutely in time, so far as the ear can reach out into the night, they do occasionally get out of step. For two or three seconds their chorus is in rag-time, or askew; but in another moment they come into step again, and the full burst of the thing—chirp, chirp, chirp—is as measured as if it were timed by a metronome. This for a considerable time; then chee-chirp, chee-chirp, chee-chirp—they are out again. Now if the rate of the chirping were absolutely regulated by the temperature, it would seem that all the crickets within a comparatively limited out-of-door area would chirp perfectly and continuously in time. Possibly the crickets vary a trifle in recording the temperature, as the thermometers themselves do.

F. H. Gilson.

Pres. F. H. Gilson Company.

Printers, Lithographers
and Bookbinders,
54-60 Stanhope Street.

Boston.

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MRS. JOHN PARKER ILSLEY.

**20 STUYVESANT PLACE,
NEW BRIGHTON, N.Y.**

Mr. J. F. Jameson.

A RECORD EGG.

OVER 300 GUINEAS PAID FOR
ONE OF THE GREAT AUK.

The first bid for the hitherto unrecorded egg of the great auk at Mr. Stevens's auction rooms yesterday was 150 guineas. The successful offer was £330 15s., and established a record.

Even the smaller, and, in comparison, poor specimen which was also offered yesterday fetched 180 guineas—five guineas more than in 1894, when it brought its lucky owner 175 guineas.

The history of this particular egg is interesting. A young fellow attended a furniture sale in Kent, riding to the place on his bicycle. Among some odd fossils he caught sight of two large eggs. Under ordinary circumstances he would have got the lot for about eight shillings, but a man who wanted the fossils started bidding, and ran him up to thirty-six shillings.

In the end the eggs, which travelled home tied up in a pocket handkerchief on the back of the bicycle, turned out to be those of the great auk, and one of them proving a handsome specimen fetched, though cracked, 260 guineas in 1894.

The increase in prices for these eggs has of late years been very remarkable. In 1856 an egg was sold at Stevens's for twenty guineas. Four duplicates belonging to the Royal College of Surgeons averaged £30 apiece in 1865. One of these in 1837 brought £168. A year later another specimen, bought privately for £18 in 1851, was knocked down at King-street, Covent-garden, for £225.

In 1892 Sir Vauncey Crewe had to give 300 guineas for an historical specimen, and twice that sum in the same year purchased a stuffed great auk and its egg. Since then a cracked specimen cost Mr. Middlebrook 300 guineas.

Mr. Stevens expressed a hope yesterday that the larger egg would remain in this country and find its way into the British Museum. Its destination is at present uncertain. Mr. Gardner, the natural history agent, bought both it and its fellow, presumably a commission.

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