

(2)

CASUAL PHENOMENA.

NOTE OBSERVATIONS OF THE FOLLOWING:

THUNDER STORMS—Time of occurrence and direction of motion. TORNADOES—Time of occurrence, width and direction of path, effects produced, and whether attended by electricity or hail. LIGHTNING AT A DISTANCE—Time of occurrence, direction from observer, whether zigzag, forked, or diffuse. Objects struck by lightning, as trees, buildings, &c. HAIL STORMS—Time of occurrence, direction and width of path, size and quantity of stones, and amount of injury. AURORA BOREALIS—Time of appearance and disappearance; time of the formation of arch, beams, and corona, and whether there is a dark cloud below the arch. Direction and time of occurrence of METEORS, SHOOTING STARS, SOLAR AND LUNAR HALOS, PARHELIA, and PARASELENES. Time of early and late FROSTS, particularly first and last. DEPTH OF GROUND FROZEN, in feet and inches; disappearance of frost from the ground. Time of closing and opening of RIVERS, LAKES, CANALS, AND STREAMS, and their extreme rise and fall. TEMPERATURE of wells and springs at least once each season. EARTHQUAKES—Time of occurrence, direction of impulse, number of shocks, and effects produced. HAZY OR SMOKY APPEARANCE OF THE ATMOSPHERE—Time of occurrence and intensity.

Martha at Englewood, Rockwell Co.

1. Heavy frost cloudy at 11. hail & sleet later, hard rain.
2. Extremely heavy blow last night mountains spotted with snow.
3. Cloudy & sleet-like snowed fast at 5 P.M.
4. More snow after the mountains quite calm.
5. Wind E.
6. Cloudy early at 9. sleet & rain.
7. Mild.
8. Cloudy Wind E.
9. Hazy a little snow fog alternate cloud & sunshine sprinkle near 5 P.M.
10. A little rain fell about dusk & later.
11. A few drops from 11 P.M. down to dawn snow again gentle rain from 11 to night.
12. Snow fell heavily for a short time between 11 & 1 P.M.
13. Strong N. wind.
14. Bright with cold N. wind.
15. Snow day.
16. Heavy frost.
17. Lovely day, like spring.
18. Bright day rain near 11. more heavily towards dusk but cleared soon after 9.
19. Cloudy to near 11. then bright & clear out. fresh breeze blowing. Cold again going & V. dark & other birds numerous.
20. Cold & strong N. wind. reducing mercury from 45° to 32° at 11 below 30° at 4 P.M. 24° at 9.
21. Bright day.
22. Not bright but cloudy & m.
23. Wind E. & mostly cloudy.
24. A little rain fell last night foggy morning bright at noon. Strong N. wind this evening.
25. Heavy blow last night.