

B.

tration, York Factory, Hudson's Bay, Latitude 57° N., Longitude 92° 26' W. level, 51 feet.

| Frost Penetration. | Superficial Thaw. | Total Depth of Boring. | Rain and Snow-fall for mean of year. | | Thermometrical readings for mean of year. | Explanatory Remarks. |
|--------------------|-------------------|------------------------|--------------------------------------|-------|---|---|
| | | Feet. | Rain. | Snow | | |
| Avg. 6 ft. 6 in. | | 33 | 29.92 | 43.70 | 17.45 | Lowest, 5 ft. 6 in.; highest, 7 ft. |
| | | 33 | 22.84 | 57.80 | 15.75 | No frost found at 33 feet. |
| 38 inches | 38 inches | 10 | 21.78 | 51.60 | 18.19 | do 33 do |
| | | 10 | 23.21 | 39.47 | 21.90 | do 10 do |
| Avg. 5 ft. 10 in. | | | | | | |
| | | 13 | 25.31 | 50.18 | 16.51 | Information courteously given me by H. Jukes, Esq., C.E., engineer in charge. Surveyors employed by Winnipeg and Hudson Bay Railway Co. |
| | 36 inches | 16 | 14.27 | 47.46 | 15.08 | |
| | | | | | | No frost found at 16 feet. |
| 33 inches | Nil | 17 | 21.18 | 41.86 | 15.01 | do 17 do |
| | 37 in., 29 in. | | | | | 37 in. white clay, 29 in. blue clay. |
| | Avg. 1 inch | | | | abt 16 | |
| 48 inches | do 2 inches | 17 | | | | No frost found at 17 feet. |
| | 7½ to 9 inches | | | | | Thaw dependent upon nature of ground; wet average 9 in., dry 7½ in. |
| 40 inches | 2½ inches | | | | | No frost found at 17 feet. |
| | 10 to 12 inches | | | | | |
| 30 inches | 10 inches | | | | | do 18 do |
| | Avg. 12½ inches | | | | | |
| | 28 inches | | | | | |
| | 10 feet | | | | | do 10 do |
| | Avg. 18 inches | | | | | |
| 31 inches | do 14 do | 18 | | | | do 18 do |
| 3 do | 65 inches | | | | | A lodgement of 3 inches of frozen water over clay bed at 65 inches. |
| 8 feet | 14 do | 21 | | | | |
| | | *15 | | | | |
| | 30 inches | | | | | |
| | Avg. 36 inches | | | | | |
| | 37 inches | | | | | |
| | Avg. 37½ inches | | | | | |
| | do 48 do | | | | | |
| | 40 inches | | | | | |

times freed from its winter's snow by the action of fierce easterly gales sweeping over Hudson's Bay, downwards, but from its position, laterally, therefore having selected this, the most exposed site, I had This last experiment is, in my opinion, conclusive, inasmuch as I consider it indicates the greatest a scale so small as to be wholly comprised within 10 acres. To give an idea of quarrying in frozen

different diameters and lengths, ice chisels, &c.) explains the somewhat arbitrary appearance of some