

the Dominion standard yard, measured when the bar is at a temperature of sixty-one degrees and ninety-one hundredths of Fahrenheit's thermometer, and when it is supported on bronze rollers, placed under it in such manner as best to avoid flexure of the bar, and to facilitate its free expansion and contraction from varying temperatures, shall be the legal standard measure of length, and shall be called the Dominion standard yard, and shall be the only unit or standard measure of extension from which all other measures of extension, whether line or superficial or solid, shall be ascertained." 42 Vic., chap. 16, sect. 10.

Standard foot,  
inch, rod,  
chain, link,  
furlong, and  
mile.

10. "One third part of the Dominion yard shall be a foot, and the twelfth part of such foot shall be an inch; and the rod, pole or perch, in length, shall contain five such yards and a half; and the chain shall contain twenty-two such yards, and the link shall be the one-hundredth part of the chain; the furlong shall contain two hundred and twenty such yards; and the mile, one thousand seven hundred and sixty such yards." 42 Vic., chap. 16, sec. 11.

Standard rood  
and acre.

11. "The rood of land shall contain one thousand two hundred and ten square yards, according to the Dominion standard yard; and the acre of land shall contain one hundred thousand square links, being four thousand eight hundred and forty such square yards, or one hundred and sixty square rods, poles or perches." 42 Vic., chap. 16, sect. 12.

With regard to section 9, I do not propose to make any alteration. I, for one, am satisfied to retain the one described as the standard. I cordially endorse what Mr. Bates, in his paper, says about running after false gods. Our standard will answer fully as well for all practical purposes as though it were derived from a quadrant of the meridian of the earth. No doubt, in fact, it is derived from either the proverbial barley-corn or from the length of the feet of the first sixteen men coming out of church on a Sunday morning.

Sections 10 and 11 are the ones in which I should suggest a change. The first I would make to read thus:—"The third part of a Dominion standard yard shall be a foot, the 10th part of such foot shall be a tenth, and the 100th part of said foot shall be a hundredth, and so on for thousandths, etc. The mile shall contain 2,580 feet, equal to 1,760 yards."

Section 11, I would change thus:—"The acre of land shall contain 43,560 square feet, equal to 4,840 square yards." Thus, I would practically make the foot the unit of measurement, as by doing this, little difficulty will be experienced in adapting this method to the existing system.

Let us now consider some of the results which will follow this change. 1st. What effect will it have on surveyors, engineers, etc.?