

## **Surveyors** <sup>[1]</sup>

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by David Southern, 2006

See also: [Boundaries](#), [State](#).



Surveyor's chain, circa 1850-1900. Image from the North Carolina Museum of History. <sup>[2]</sup>From colonial times through the twentieth century, land surveying in North Carolina was an imperfect art at best, using old measurements such as furlongs, chains, and rods (or perches or poles) and imprecise boundaries such as trees or gulleys to map out often vague property lines. In the first half of the eighteenth century, the colony was blessed with the services of two first-class geographers, the surveyors-general [John Lawson](#) <sup>[3]</sup> and [Edward Moseley](#) <sup>[4]</sup>. Lawson made a reconnaissance deep into the Carolinas and in 1709 published *A New Voyage to*



A theolodite, or transit, a common surveyors' tool; circa 1850-1890. Image from the North Carolina Museum of

*Carolina* <sup>[5]</sup>, his account of that journey, with <sup>[6]</sup> an excellent map and drawings of the fauna. Some 20 years later, Moseley produced his well-known *1733 map* <sup>[7]</sup> of the colony. He also had the distinction of participating in three of the four major surveys of that day, which permanently shaped North Carolina's geography and influenced its ethnic distribution. These included the *running of the line dividing* <sup>[8]</sup> Virginia and North Carolina (made famous by the narrative written by Virginian [William Byrd](#) <sup>[9]</sup>), the line dividing North Carolina and South Carolina, the southern parallel of the *Granville District* <sup>[10]</sup>, and the tracts of the 1.2 million acres granted to [Henry McCulloh](#) <sup>[11]</sup>.

In the revolutionary era and the early years of statehood, North Carolina was served by a new generation of surveyors such as John Daniel, one of the original donors of land to the new *state university* <sup>[12]</sup>. He worked mainly in the New Hope Creek watershed of *Orange* <sup>[13]</sup> and *Chatham* <sup>[14]</sup> Counties, and many of his original plats are in the envelopes of the state land grants. *His map* <sup>[15]</sup> of the prominence between Morgan and Bolin Creeks is the earliest of what is now Chapel Hill.

A century later, in the days of *Reconstruction* <sup>[16]</sup> and the *new state constitution* <sup>[17]</sup>, the management of local taxes was taken from the courts and given to county commissioners, resulting in an immediate need for new and accurate county maps. Between the late 1870s and the mid-1890s many counties ordered maps from surveyor-engineer-cartographers such as [Fendol Bevers](#) <sup>[18]</sup> (*Wake* <sup>[19]</sup>), [Will Spoon](#) <sup>[20]</sup> (*Alamance* <sup>[21]</sup>), [George Tate](#) <sup>[22]</sup> (*Orange*), and Lemuel Johnson, a

mathematician at [Trinity College](#) [23] ([Davidson](#) [24], [Randolph](#) [25], and [Durham](#) [26]).

Not until the twentieth century and the advent of aerial surveys did county maps achieve a reliable accuracy. In the years just before World War I, the U.S. Department of Agriculture released an excellent [series of soil maps](#) [27], and the first of the [U.S. Geological Survey maps](#) [28] appeared. By the twenty-first century, surveying had been enhanced by remarkable developments in field equipment-utilizing radio beams, lasers, and even global positioning via satellites-that rendered a previously unimagined accuracy.

## References:

Harry Roy Merrens, *Colonial North Carolina in the Eighteenth Century: A Study in Historical Geography*(1964).

William S. Powell, *The First State University* (3rd ed., 1992).

## Additional Resources:

North Carolina Board of Examiners for Engineers and Surveyors official website: <http://www.ncbels.org/> [29] (accessed October 11, 2012).

North Carolina Society of Surveyors official website:<http://www.ncsurveyors.com/> [30] (accessed October 11, 2012).

Jones, Otis A., compiler. *Following in their footsteps: land surveying in North Carolina*[31]. Chapel Hill, N.C.: Chapel Hill Press, Inc. 2005.

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<https://digital.ncdcr.gov/Documents/Detail/north-carolina-bulletin-the-newsletter-of-the-north-carolina-board-of-examiners-for-engineers-and-surveyors-2012-april/2451013> [32] (accessed October 11, 2012).

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"Chain, Surveyor's, Accession #: [H.1952.80.29](#) [2]." 1850-1900. North Carolina Museum of History.

"Theodolite, Accession #: [H.1961.23.2](#) [6]." 1850-1890. North Carolina Museum of History.

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## Authors:

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[Encyclopedia of North Carolina, University of North Carolina Press.](#)[37]

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