

Reports of the Kansas State Board of Agriculture

Section 47, Pages 1381 - 1410

These reports by the State Board of Agriculture include the proceedings of the board, reports for the previous year, maps of counties, abstracts of counties, miscellaneous articles, and reports of agricultural societies, the state fair, state and county statistics, agricultural industries and products, the agricultural college, and the Kansas Academy of Science. The annual reports began in 1872 and were succeeded by biennial reports beginning in 1877-78. Volume numbers were discontinued with the 1953-1956 report; the last being volume 44. From 1953 to 1976 the reports drop "biennial" from the title. Annual reports begin again from 1976 to 1984, except 1982-1983 which is biennial. The dates for each report reflects the reporting year and not the publication date, which was usually a year later. The title of each report reflects the form given on the title page. Only volumes 1 (1872), 2 (1873), 3 (1874), 4 (1875), the centennial edition (1875), 5 (1876), 6 (1877-1878), 7 (1879-1880), 10 (1885-1886), 11 (1887-1888), 13 (1891-1892), and 14 (1893-1894) are currently available.

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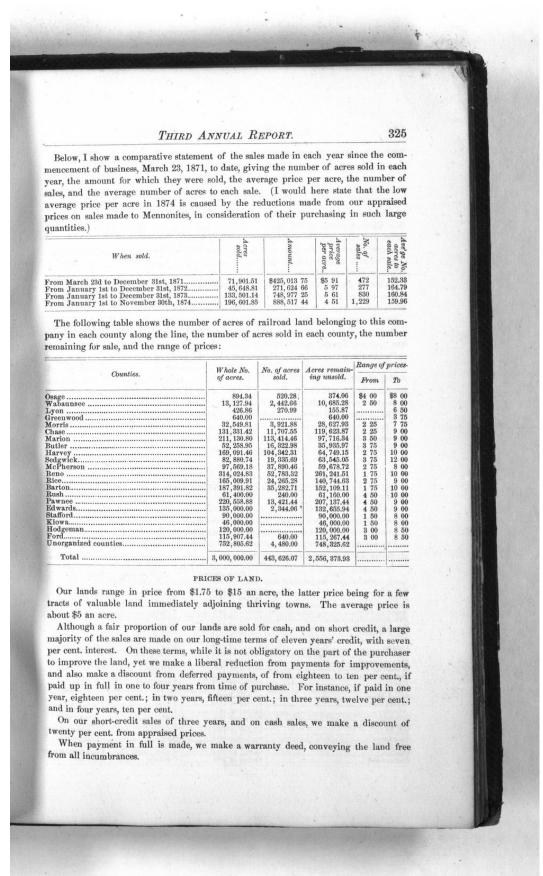
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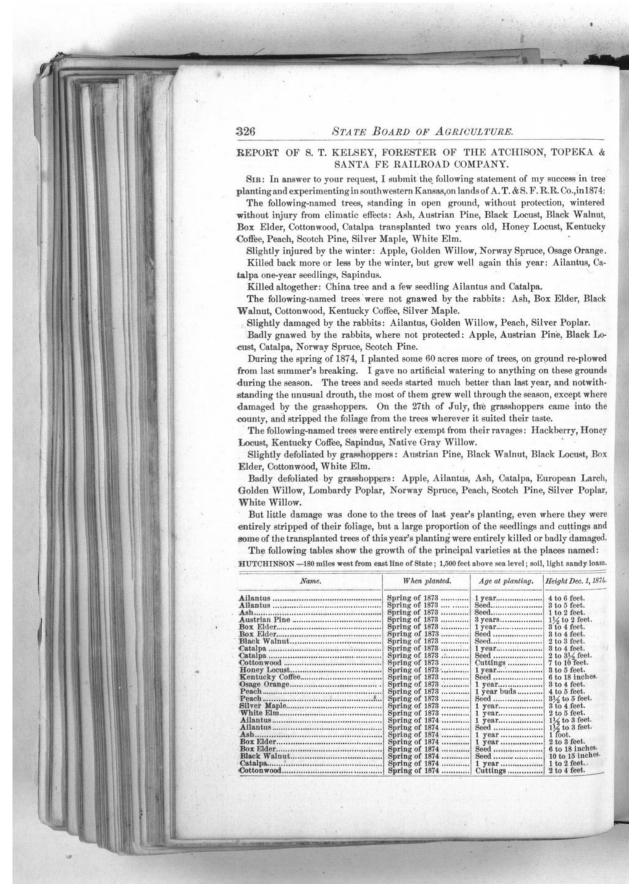
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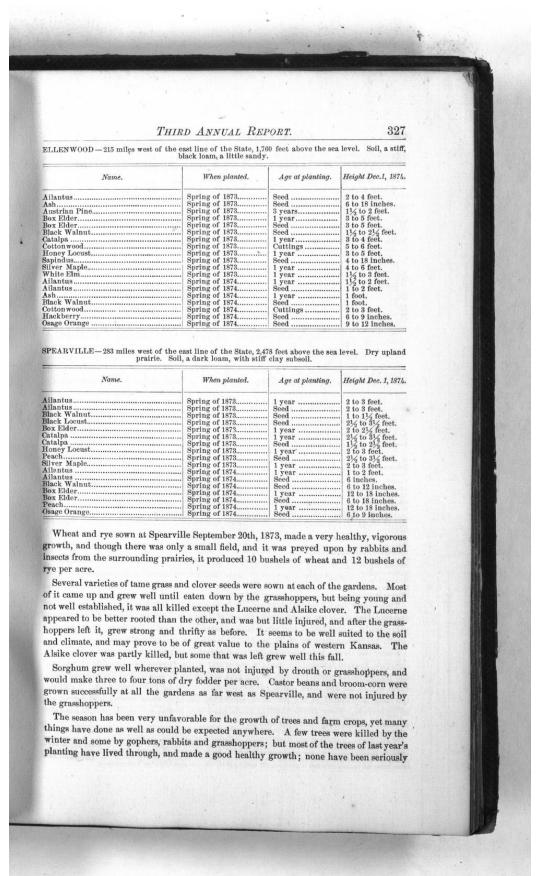




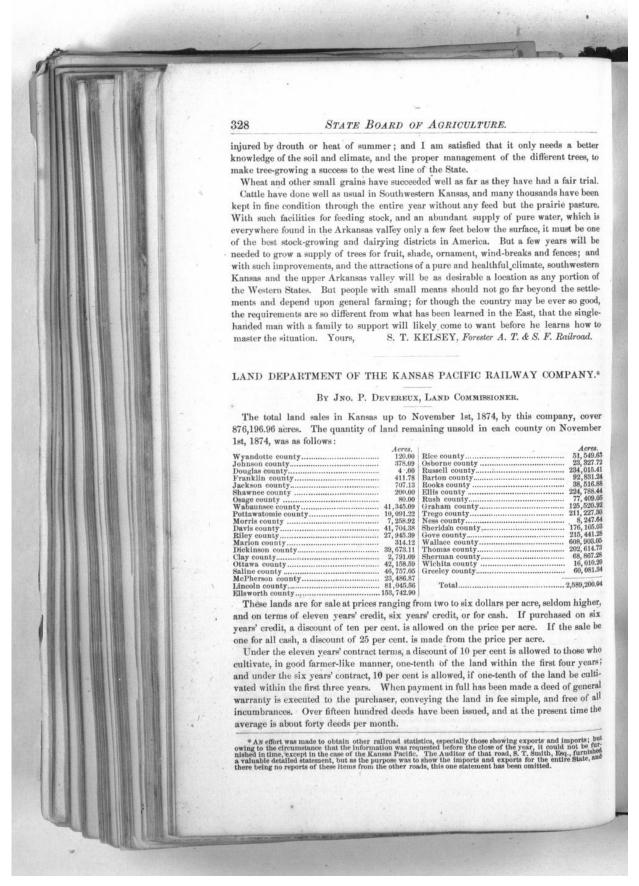




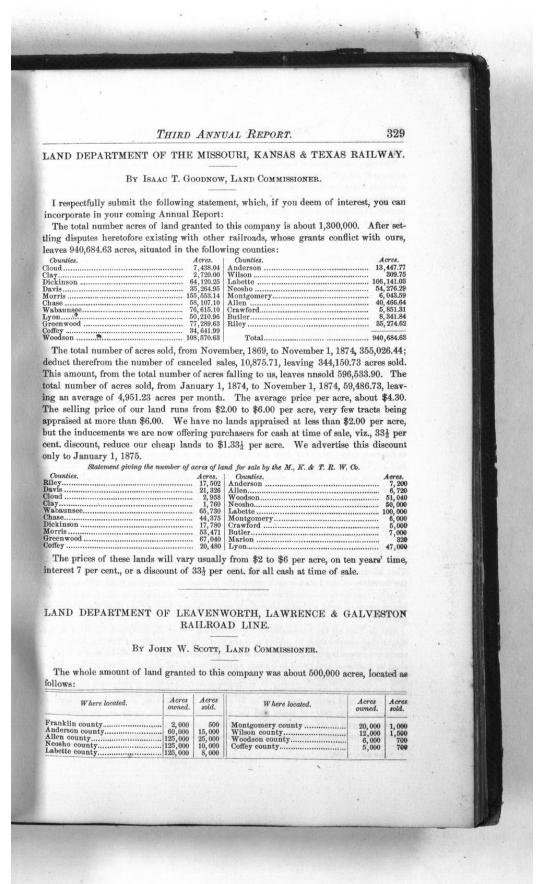




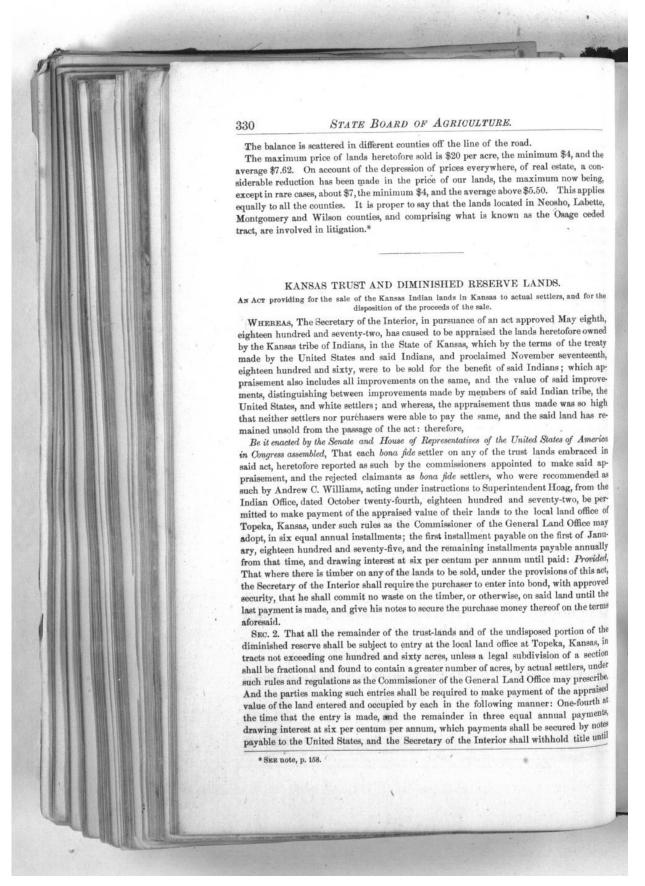




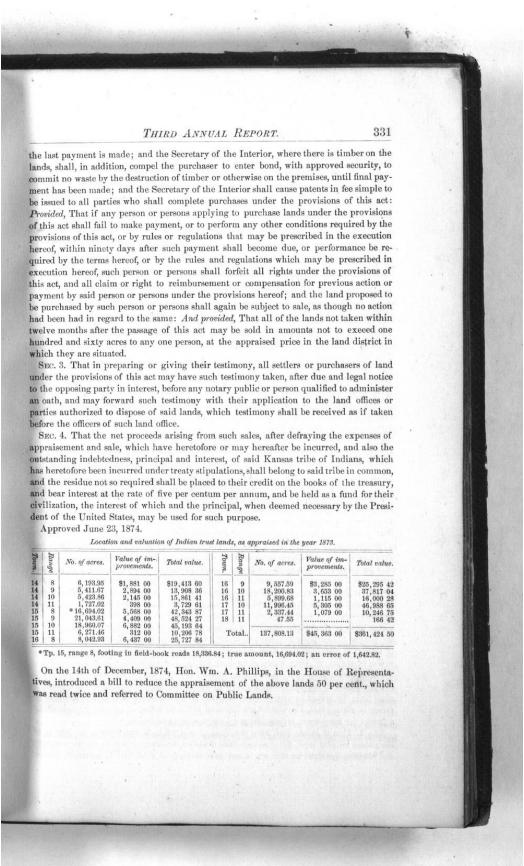




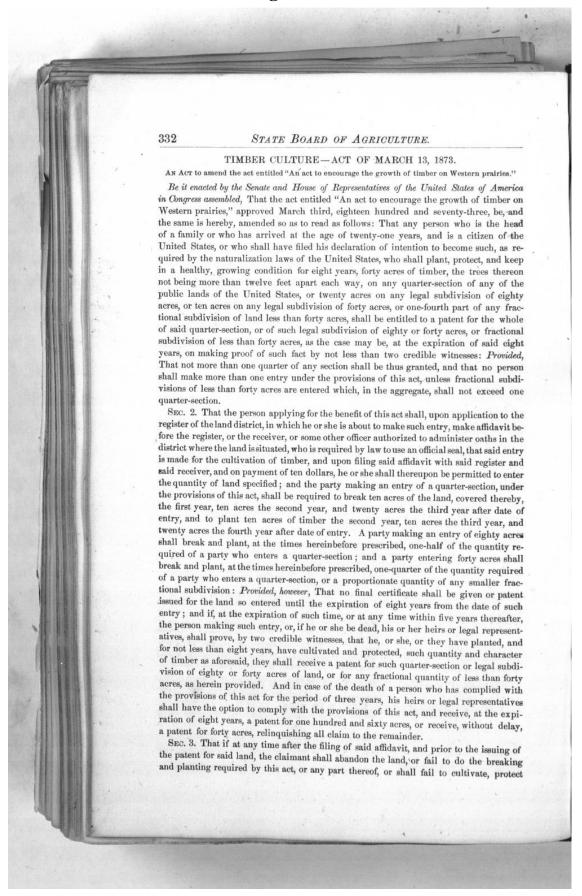




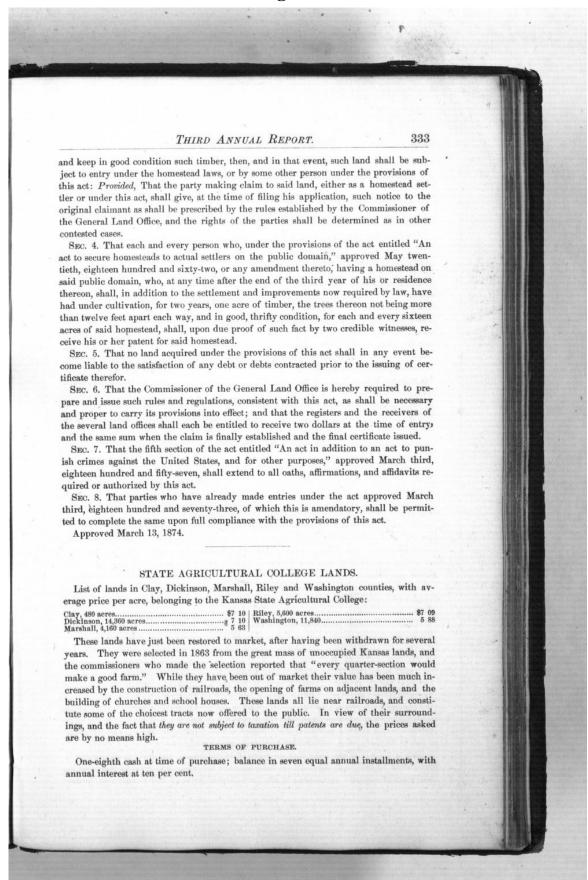




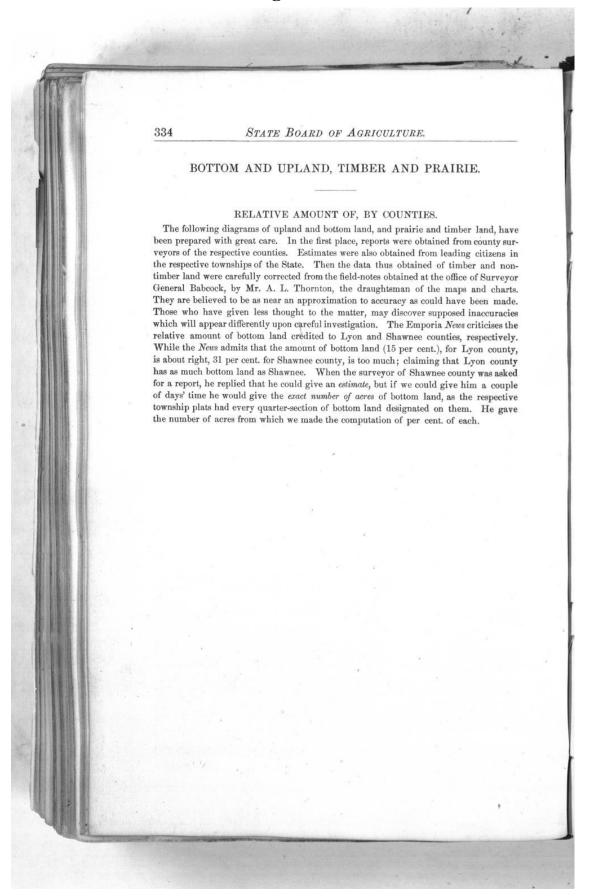




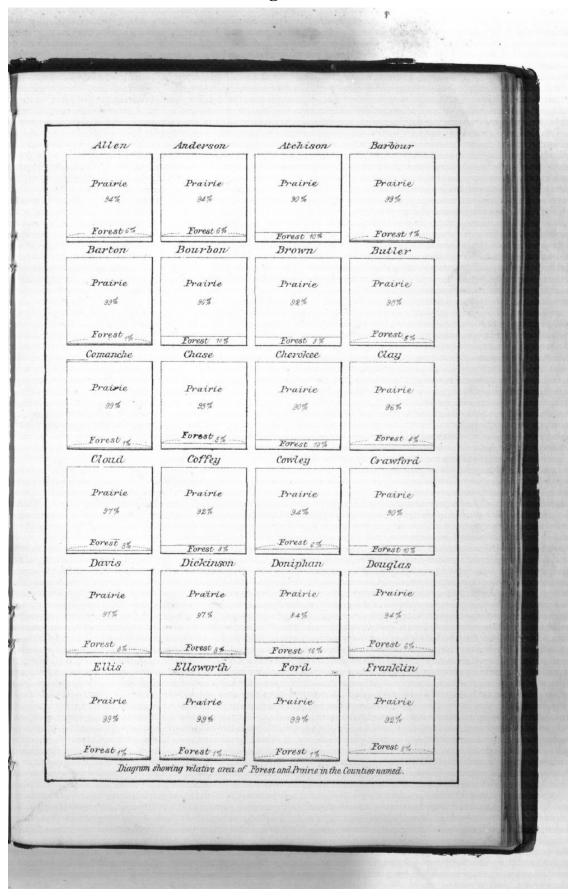




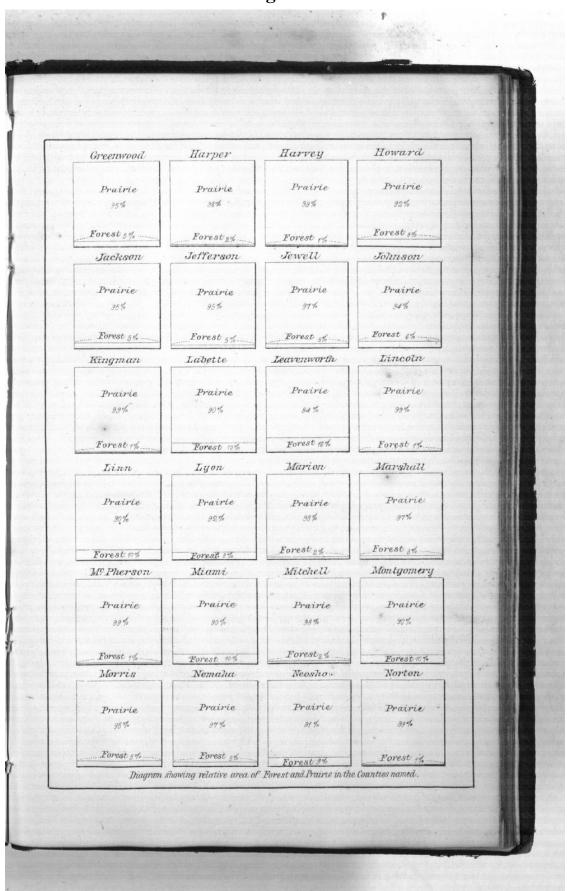




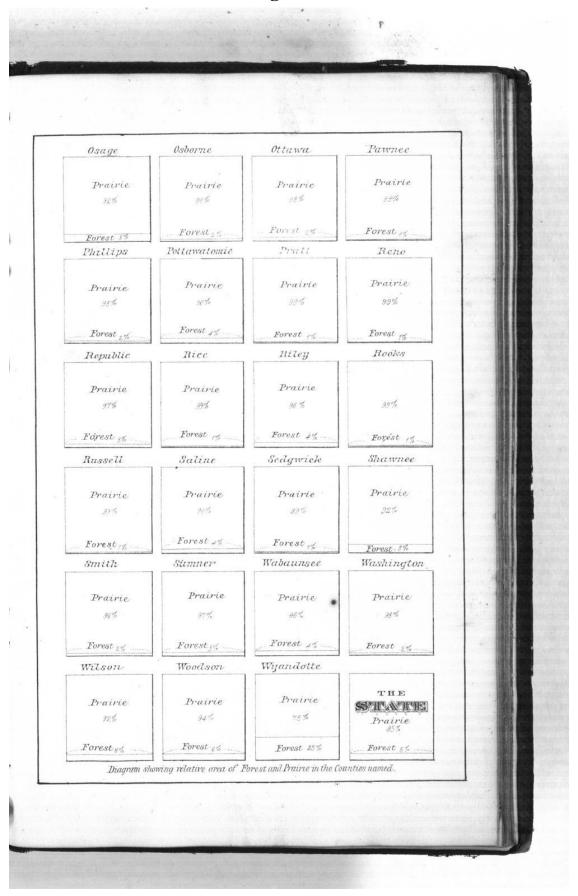




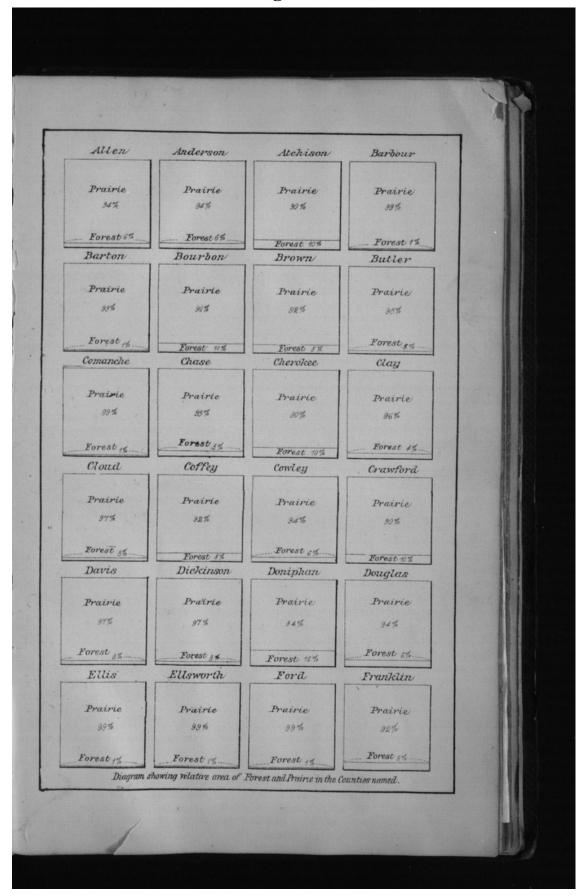




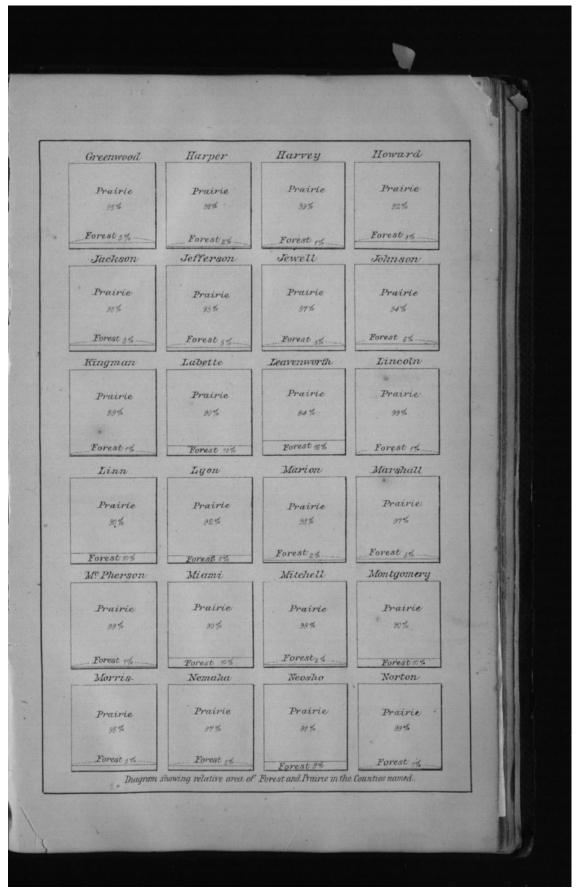




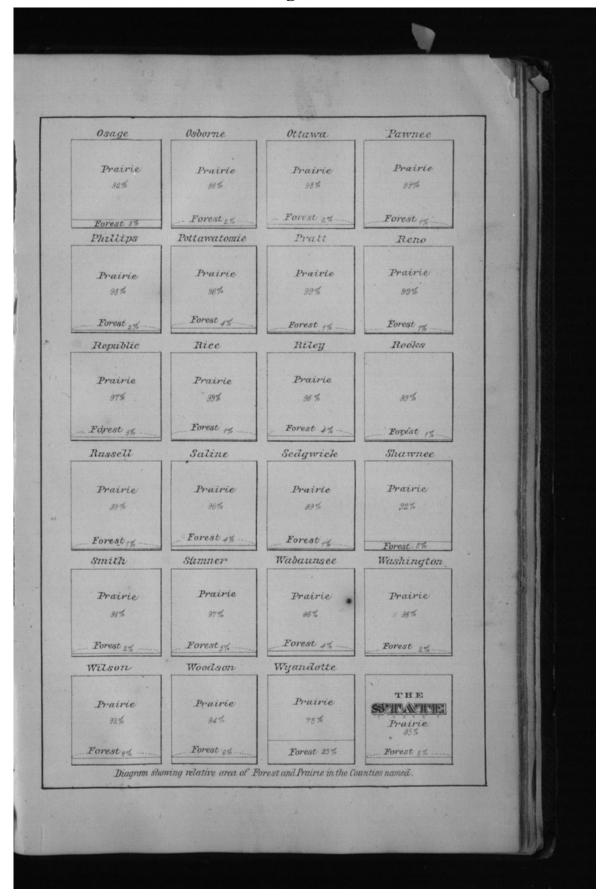




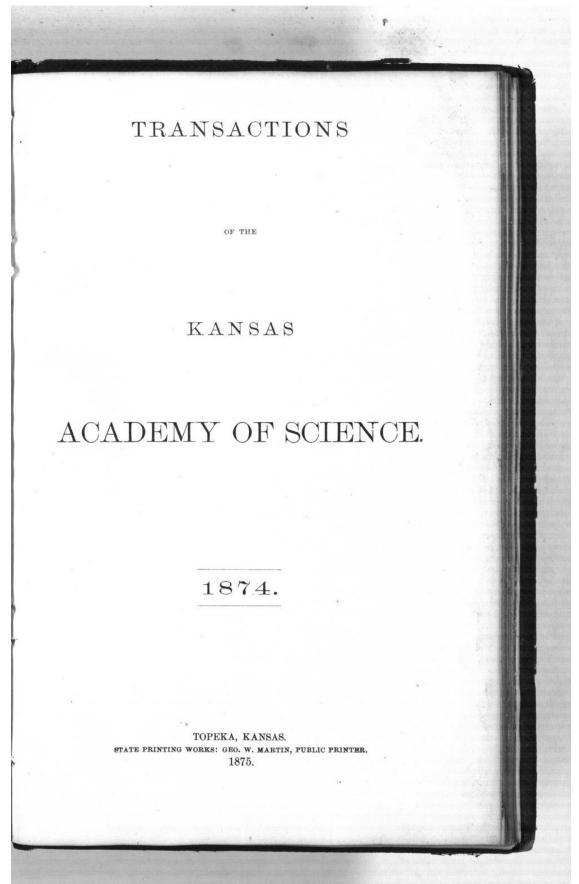




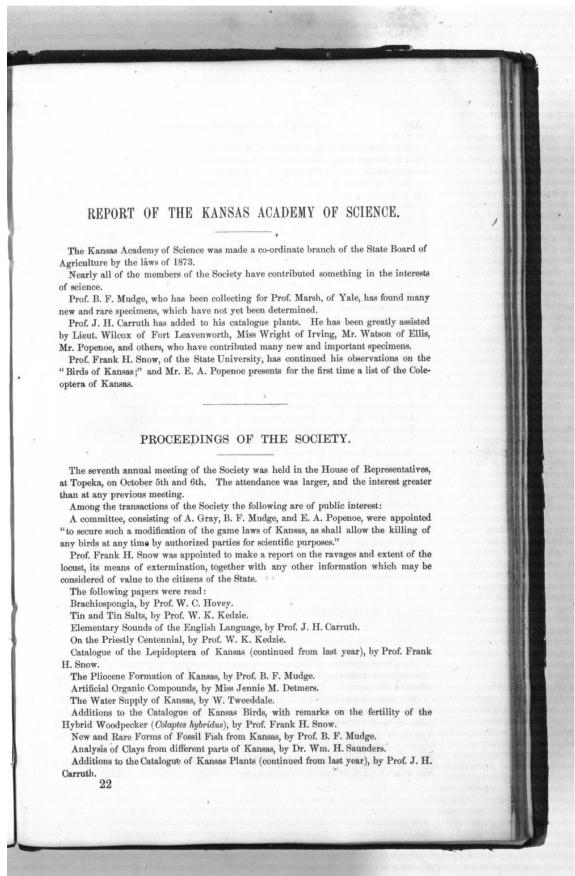




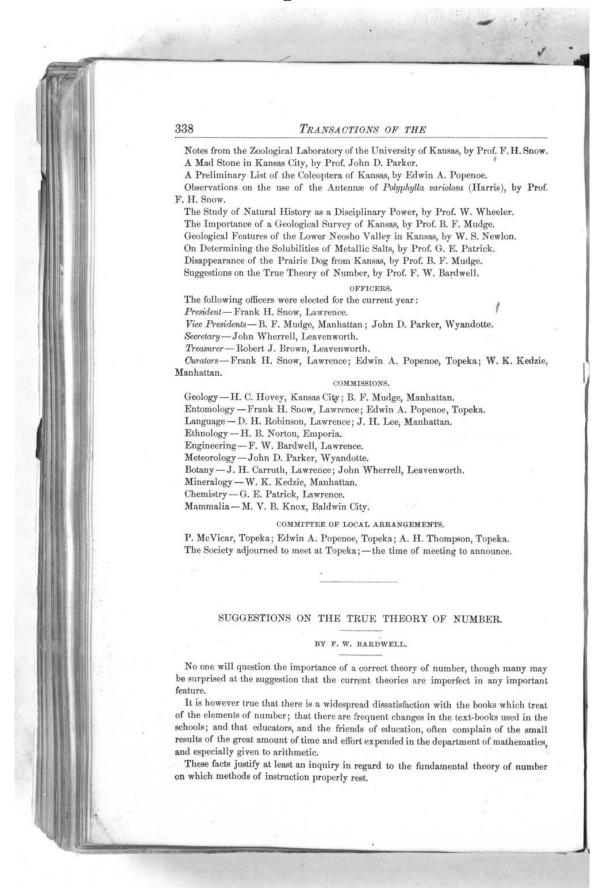




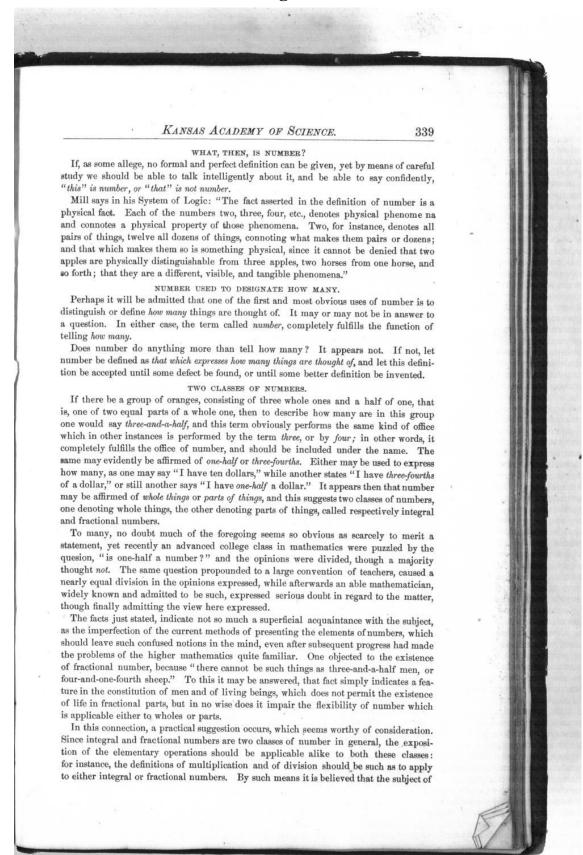




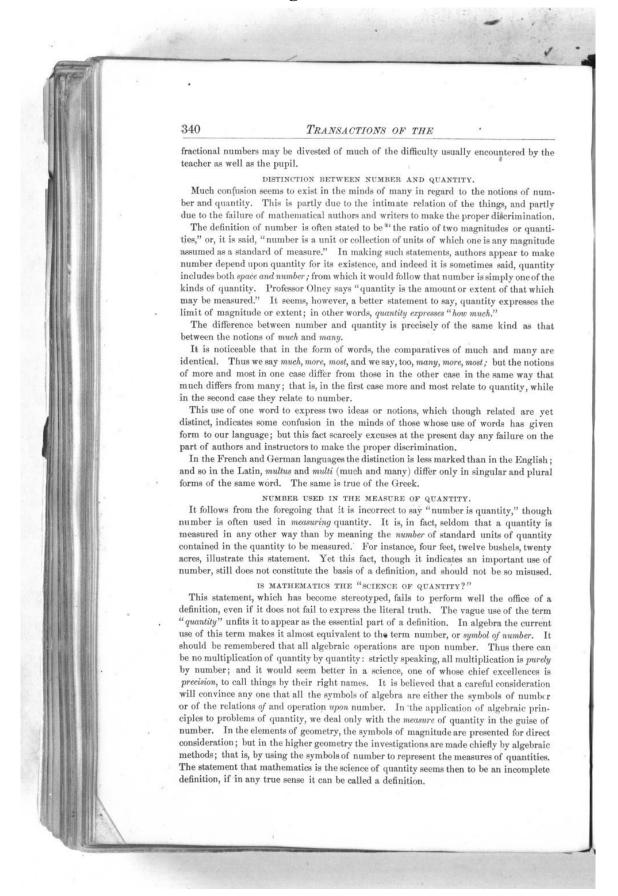






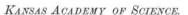








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34.

ABSTRACT AND CONCRETE NUMBERS.

Perhaps the frequent occurrence of these terms forms a sufficient reason for noticing them in this connection. Number in its very nature is abstract, and it is an obvious misnomer to call it concrete in any case. Two means two things, and though the kind of things is not explicitly named, the essential character of number is not affected. The statement "two and three are five," means merely "two things and three things counted together, are five things." It may be mentioned in passing, that since the office of number is exclusively that of fixing a limit of "how many," the greater or less extent of "how many," does not at all affect the character of the number applicable to the particular case. Thus the number two or three, possesses as completely the character of number as a thousand or a million. It follows then that zero or naught, when used, as it often is, to designate the limit of "how many," is properly included under the name number. It is believed that this consideration is not only logically consistent, but that it simplifies the use of naught, as well in arithmetic as in algebra, where it often appears as the root of an equation, and in many instances performs as conspicuous and important services as are assigned to any number.

The necessarily brief limits of the present paper do not permit a further examination of these questions at this time; but it is believed enough has been said to show that a thorough revision of the fundamental theory of number is required in order that this branch of instruction should not fall behind in the developments of the day.

ANALYSIS OF CLAYS.

The following brief notes of qualitative and quantitative analyses, taken from my laboratory record, will be of interest to some, and give a general idea of the chemical composition of some of the clays found in so great abundance in this State.

In this form of mineral wealth, Kansas is rich, the list embracing every variety in inexhaustible quantities, from pure white porcelain clay to common marl, and in time it must develop a large and varied manufacturing industry.

Many of you have heard of the Osage City ochre, which is found in an immense bed, varying from twelve to twenty-four feet in thickness. Its composition is —

In that portion of the bed worked at the present time, the percentage of oxide of iron is a little larger than the sample gave from which the analysis was made.

At Council Grove is found an ochre with the same constituents:

Silicate of Alumina... Large amount | Silicate of Magnesia... Trace | Silicate of Lime... Small amount | Sesqui-oxide of Iron... Moderate amount

This ochre has exactly the shade of the *Spanish brown* largely used as a mineral paint, and is in every way equal to it.

The extent of the deposit, its geological position, and its physical characters, I do not

the extent of the deposit, its geological position, and its physical characters, I do not know.

Over the eastern half of the State are distributed strata of a light, bluish clay, varying from one to two feet in thickness, lying immediately over or under the coal, commonly called fire clay, but none that I know of are sufficiently pure to furnish first-class refractory fire brick, suitable for furnace linings. Some sufficiently pure, however, will, I believe, eventually be found. Clays sufficiently pure for the manufacture of stone-ware, and other articles that are not required to resist an intense and prolonged heat, are known.

A so-called fire clay found at Council Grove, contains—

Silicates of Alumina and Iron. | Carbonate of Lime. | Sulphate of Lime. | Chloride of Calcium. Carbonate of Magnesia.



