MICHIGAN'S SOII

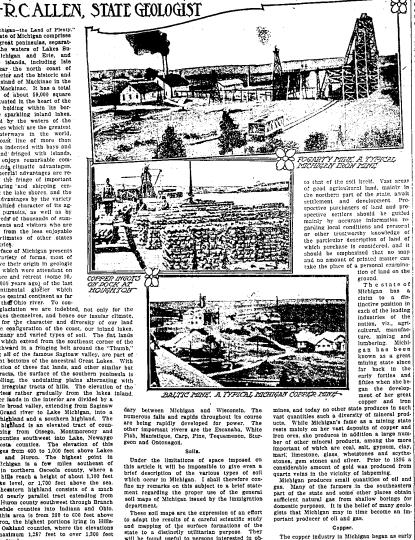
From "Michigan—the Land of Pleoty."

The State of Michigan comprises two great peninsulas, separating: the waters of Lakes Superior, Michigan and Erie, and about 200 islands, including Isle Royale near: the north coast of Lake Superior and the historic and beautiful island of Mackinae in the straits of Mackinae. It has a total land area of about 59,000 square miles. Situated in the heart of the continent, holding within its borders 5,000 sayarising piniand lakes, surrounded by the waters of the Great Lakes which are the greatest inland waterways in the world, with a coad line of more than 3,500 miles indented with hays and harbors and fringed with islands, Michigan enjoys remarkable commercial and climatic advantages. The commercial and climatic advantages. The commercial and climatic advantages by the variety and specialized character of its agricultural pursuits; as well as by the hundred of thousands of sumer residents and visitors who are well one of the states.

mer residents and visitors who are welcomed from the less enjoyable summer climates of other states and countries. The surface of Michigan presents a great variety of forms, most of which have their origin in geologic processes which were attendant on the attract and are the entire of the state.

The surface of Michigan presents a great variety of forms, most of which have their origin in geologic processes which were attendant on the advance and retreat (some 10. 500 to 20,000 years are) of the lark recording to the advance and retreat (some 10. 500 to 20,000 years are) of the lark recording to the covered the central continents after south as the Ohior river. To continental glacitation we are indebted, not only for the Great Lakes themselves, and hence our insular climate or plains which extend from the southeast correr of the and our many and variet types of soil. The flat lands or plains which extend from the southeast correr of the ancient better the form the southeast correr of the ancient better the form the southeast correr of the ancient better the form the southeast correr of the ancient better the form the southeast correr of the ancient better the form the southeast correr of the ancient better the form the southeast correr of the ancient better the form the southeast correr of the ancient between the following the form the southeast correct of the ancient form the southeast correct the following th

perior raised 150 feet its water sould for through this old valley into Lake Michigan. The state is drained by a number of important rivers. Many of these seasons of incortant rivers. Many of these seasons of incortant rivers and the seasons of the state of contral reportation of lowest milk and have determined the state in the future they are destined to farming on the state in the future they are destined to farmin an increasing amount of electric power for transmission to viliages, cities, industrial content, and swen to the farms. The Raisin, Huron, larginary and AuSable are the most important once of the seasons alope of the Lower Peninaula, and the Mankree, Mankepon, Ornand, Kalamaco and St. Joseph of the western. The Huron and AuSable, raing in the interior highlands, afford a large amount of water power. The Saginary, the center of one of the richest agricultural and manufacturing districts of the state, and the Grand to Grand Rapids, where water power has been estematively developed. In the Upper Peninsula the rivers are in general shorter and more rapid, having steeper gradients. The Menoninee is the largest river, travaling for a greet part of the length the boundaries.



BALTIC MINE. A TYPICAL MICHIGAN COPPER MINE

dary between Michigan and Wisconsin. The numerous falls and rapids throughout its course are being rapidly developed for power. The other important rivers are the Escanaba, White Fish, Manistique, Carp, Pine, Tequamenon, Stur-geon and Ontonsgon.

Under the limitations of space imposed on this article it will be impossible to give even a brief description of the various types of soil which occur in Michigan. I shall therefore confine my remarks on this subject to a brief statement regarding the proper use of the generated and the soil maps of Michigan issued by the immigration

soli maps of Michigan issued by the immigration department of the proper use of the general control of the cont

portant producer of oil and gas.

Copper.

Copper.

Copper.

The copper industry in Michigan began as early as 1845. The mines are located on Keweenaw point and southwestward in Ontonagon county. Michigan has the distinction of being, all years considered, the largest contributor in metallic copper, of exhibiting the largest copper mining operations, of attaining the lowest cost per ton of ore handled, of exploiting with profit ores of lower grade than are mined elsewhere, and of paying larger total dividends than any other mined district in the world. The annual output of refuned copper is valued at from \$24,000,000 to \$40,000,000 to \$40,000, readily understood and the humber is not so great as to be contusing to the general reader of layman.

While a single small area of land may show wide variations in soil character, the number of soil types depending, as stated above, on the importance attached to slight variations in character; it is not less true that the same area may have a great predominance of soil of a particular character and formation of possible and pended and the conditions in such an area could be properly represented on a small-scale map by a single color or symbol. The colors and symbols to the maps express dominance in various areas covered by them of a particular soil of the general character set forth in the legend and not the entire exclusion of other types. In the mapping of the soil formations it should be understood that no attempt has been made to measure general fertility or the rope-growing capacity of the soil formations or particular crops adaptations to particular soils. Soil fertility is a thing which cannot be expressed on a map. Local conditions of temperature, moistore, topography, physical and chemical composition, the property of supporting bacterial life, the character of the sub-soil, etc., are imperatively as the sub-soil, etc., are imperatively as a superior of the superior of particular kinds of soil under certain compand it follows that this being two, real conditions. Particular kinds of soil under certain combinations of the above factors will grow excellent-crops of particular kinds when other crops will fail, wholly or partially. In these days of specialized farming practically every kind of soil can be managed in such a manner as to grow remunerative crops, and soil under certain combinations of un particular whose and soil under certain combinations of under particular whose of particular conditions and the particular cequivalent is a factor in crop growing cannot not manner as to grow remunerative crops, and soil unangement is a factor in crop growing cannot not manner as to grow remunerative crops,

Iron was discovered in the Lake Superior region in 1844 near Negaunee by William A. Burt, who was in the employ of Dr. Douglass Houghton, the first state geologist of Michigan. For nearly half a century, prior to 1901, Michigan held first lines that of Michigan. The main centers greater than that of Michigan. The main centers of the Marquette range. Norway, in Negaunee on the Marquette range. Norway, the Negaunee on the Marquette range. Norway in Negaunee of the Marquette range. Norway in Negaunee of the Marquette range. As old mines are abandoned new mines are started on new discoveries of ore, and although Michigan has been mining Iron ore for nearly seventy years there still remains in the ground ready for mining almost, if not quite, as much root of the state o

GOLD'S SIREN LURE FOR MEN

Hardship and Death Dared by Thou sands That They May Gain Riches Quickly.

It was in 1898 that the rush of gold seekers to the Klondike reached its flood. The instruction probably never will know the fame of the forty-niers, but they have a place in the long history of the gold hunters, the men of all nations, ancient, medieval and modern. The book has a bundred chapters telling of failure and of death to every one lightened with the story of success.

chapters telling of failure and of death to every one uccess.

H. M. Cadell recently visited the Klondike and there made a study of present conditions. He describes them and adds an interesting account of the early day rush to the Northwest territory. The Smithsonian institution has put Mr. Cadell's report fato print. It is an interesting document. Some of the happenings in the Klondike were duplicates of like happenings in California and Australia during the first years of the surface washing in these fields. These duplications show that human nature is unchanging.

Joseph Mr. School, M

Wash day is smile day if you use Red Cross Ball Blue, American made, therefore the best made. Adv.

Nothing to Be Said, Judge—You admit, then, that you stole the loaf of breat? Woman Prisoner—Yes, your honor, Judge—What have you to say for yourself?

yourself?
Woman—Nothing, your honor. It it was lace or jewelry, I night plead kleptomania, but we can't try that when it's bread.

Something Just as Good.
"Let's get up a piscatorial excur sion."
"Why not have just a good old fish ing party?"

Correct. "In what state does it cost the mos

to live?"
"In the state of matrimony,"—Boston.

Circumstantial Evidence,
"How did you know that man was
a sporting fellow?"
"Because when I tred on his corns
he let out a regular football yell."

its Kind.
"I see where they have a little Thimble theater in New York. What kind of plays have they?"
"Oh, I dare say, they are sew, sew."

It has been discovered that our system of education makes children wiser than their parents. But the children are no wiser than their parents were at their age.

It was a Kansas woman, of course, who traded the family refrigerator for a pair of roller skates. A Kunsas man would have dickered for a different kind of skate.

Small Comfort.
Asker—He' calls me a donkey!
Should I challenge him?
Tellit—You might—to prove it!

If there is anything more misleading than the average guaranty, we would gladly give up a nickel to see a moving picture of it.

MOTHER OF SCHOOL GIRL

Tells How Lydia E. Pinkham's Vegetable Compound Re-stored Her Daughter's Health.

Plover, Jova.—"From a small child my 18 year old daughter had female weakness. I spoke to three doctars about it and they did not help her any. Lydia E. Pinkham's Vege table Compound to the pound had been of great hearts to have regive it a trial. She has taken five of the vegetable Compound and her periods did not come right. She was so poorly and weak that of them had been of the trouble of the trouble she was all run down when she started taking the Compound and her periods did not come right. She was so poorly and weak that of them had is repoined and services all rundreds of such better expressing.

Hundreds of such betters expressing.

Hundreds of such letters expressing gratitude for the good Lydia E. Pink-ham's Vegetable Compound has accom-pished are constantly being received, proving the reliability of this grand old remedy.

If you are ill do not drag along and continue to suffer day in and day out but at once take Lydia E. Pinkham's Vege-table Compound, a woman's remedy for woman's illa.

woman's ills.

If you want special advice write to Lydia E. Pinkham Medicine Co. (confidential) Lynn, Mass. Your letter will be opened, read and answered by a woman and held in strict confidence. WILL AEROPLANES STOP WAR

Orville Wright Is Moved to Say He Likes to Think So, Anyhow.

Like to Think So,

Anyhow.

Did you ever stop to think that there is a very defluit reason why the present of the control of t

A man is a basso when he talks to women. But he often is a tenor when he converses with men.

naturally come with proper care of the brain and body. And in this connection food plays a mighty important

In many cases the daily food lacks certain elements necessary for keeping brain and body upbuilt and in trim. These elements—phosphates for the brain, iron for the blood and lime for the bones—are abundantly supplied in the famous pure food-

Grape-Nuts

Made of prime wheat and malted barley, this partially pre-digested food supplies all the rich nutriment of the grains, including their vital mineral

Grape-Nuts comes ready for the table—serve direct from the package and add cream. Tasty, economical and convenient.
Thousands have found a daily ration of Grape-Nuts wonderfully helpful to body and brain.

"There's a Reason"

Sold by Grocers everywhere.

