

**MAP OF MONTANA
LARGEST YET MADE**

By international agreement the United States and nearly all of the other principal countries of the world in 1909 planned for the preparation of maps of the entire surface of the earth, to be published on a scale one-millionth of actual size or about 1 inch to every 16 miles, the United States Geological Survey undertaking to prepare the United States portion. All the maps are to be uniform in shape and general appearance and are to have the same conventional signs.

As the majority of the people in this country have more use for state maps than for maps of any other kind the Geological Survey decided to utilize the data collected by publishing also maps of each state on a larger scale—about 1 inch to every 8 miles. A map of the entire United States of this scale would cover a sheet 20 by 31 feet.

The survey has already issued 25 such state maps, the latest one being that of Montana and this is the largest one of the series so far published. In compiling the map every available source of information has been ransacked for material, and much data

never before available to the public in any form has been procured so that the map far exceeds in accuracy any heretofore published. The map is in two sheets, each 40 by 46 inches and is sold and delivered free by the Geographical Survey for the nominal price of 45 cents.

By an inspection of this map and comparison with some others one begins to realize the great area of Montana. There are four counties in the state, any one of which has a greater area than that of an even dozen states of the size of Rhode Island. The combined area of the New England states is less than half that of Montana.

The northern line of the state is the Canadian boundary and is over 500 miles long. Fortunately it never has needed and, it is to be hoped, never will need an army to guard it.

A million people from the European nations now at war could find peaceful, happy homes in this one state alone, and its natural resources are so great that the million could support themselves in comfort and even luxury.

Be sure and bring that next job of printing to the Courier.

Practical Farming

Helpful Facts Gathered from Reliable Sources
Of Interest to Montana Farmers

(NOTE) If you have any idea to offer to the other readers or wish anything to appear in these columns kindly send it in.

The advent of cold weather brings a need for good warm coats and robes. Every farmer who has a hide or two to sell this fall should have them made into coats. A good coat can be made for about \$12. To buy the same coat at a store would cost from \$25 to \$50. Some of the furriers and hide firms are specializing in this work and are turning out fine work. Write them for their catalogs and see how really profitable it is to make this use of your horse and cattle hides. It is interesting to read their advertisements and to note how reasonably a fur coat can be procured when the farmer furnishes the fur or hide.

HORTICULTURIST COMING

Prof. W. S. Thornber of Lewistown, Idaho, will fill a three-weeks engagement with Montana Farmers' Institutes, January 18 to February 5, 1915. Beginning with the State Horticultural Meeting at Kalispell, January 18 and 19, Prof. Thornber will speak in the more important fruit growing sections of the state, including Clarks Fork Valley, the Bitter Root Valley and Plains. He will also give his popular lectures, "The City Fellow in Country Places" and "Beautifying Home Grounds" (a chalk talk), at Bozeman during Farmers' Week, January 25-30. He will also be one of the instructors in horticulture at the short course in Hamilton, February 1-5.

Prof. Thornber is a graduate of South Dakota Agricultural College, where he also received his master's degree and was assistant professor of horticulture 1896 to 1904. He took a master's degree at Cornell in 1905, and was elected professor of horticulture at Pullman, Washington, where he remained for six years. In 1911 he resigned to accept the position of chief horticulturist for the Lewistown Land and Water Company and consulting horticulturist for the Pacific Northwest. Prof. Thornber has been a very popular speaker on horticultural topics, and the Montana people who will hear him have a treat in store for them.

MANAGEMENT MAKES FARMING

Farm surveys, made in many sections of the country, have shown farm management to be the reason for success. In a Gallatin Valley survey one farm showed \$3,600 profit and another \$1,600 loss. Twenty-five farms averaged \$1,362 profit, while twenty-five others showed an average loss of \$300. These farms were side by side under similar conditions of soil, climate, markets, etc. The difference came through planning and management.

The records taken show reasons for the difference in labor income. These reasons are simple and within the control of farmers. The study of farm management is more important than the study of crops and live stock. Montana has a farm management specialist—H. B. Cannon—who is working with the farmers of the state on plans for better farm management, under the direction of the agricultural college.

A School of Farm Management is planned at Bozeman, January 25-30, during Farmers' Week. The instructors will be Mr. H. B. Cannon, Prof. E. L. Currier of Bozeman, and Dr. C. B. Smith, chief of the Office of Farm Management, Washington, D. C. This promises to be the most valuable of the courses given at Bozeman this winter. Understanding farm management may easily add thousands to the farmers' income.

A MISUNDERSTANDING

Information has reached the Department of Agriculture that some misunderstanding of the scope and purpose of the cooperative shelter belt development work recently undertaken in connection with the Northern Great Plains Field Station at Mandan, North Dakota, appears to have resulted from an announcement recently made by the Department regarding that work. That announcement has evidently been understood by some to mean that general free distribution of plant and tree material from the Mandan Field Station was contemplated. This is not the case. On the contrary, the number of farmers with whom the Department can cooperate in this work will necessarily be limited, both by the number of seedlings available and the ability of applicants to meet the Department requirements regarding the character and preparation of the land and the planting, cultivation, care, and continued protection of the trees against damage by live stock or fire. No general or indiscriminate distribution of trees from the field station at Mandan is contemplated, nor will material there be available for use on town or village lots, or on farms outside of the Northern Great Plains area, which includes North and South Dakotas west of the 100th meridian, and Montana and Wyoming east of the 5,000 feet elevation above sea level.

M. E. CHURCH

Rev. W. H. Norton opens revival meetings in the M. E. church next Sunday morning, January 3rd. Sunday morning and evening he gives his reasons for believing the Bible to be God's word and not the mere product of man. A special choir has been arranged for these meetings, of about 20 voices, of which Mr. Adden will have charge. These meetings will continue for three weeks, every night, except Saturday night, with Norton in the harness. A warm church and a warm welcome awaits you. Come.

A HISTORY

The school of journalism at the University of Montana has undertaken the compilation of a history of the newspapers of the state. To this end, the publishers of Montana have been requested to prepare brief historical sketches of their publication, together with newspapers which have been merged with their own or which have been started and discontinued in their field. The responses to this request have been coming in for a fortnight and an excellent beginning has been made upon the collection of the necessary material for the work.

"NO SMOKING" IN KENTUCKY?

The Flying Squadron, which will soon make a whirlwind campaign thru the state of Kentucky will, it is thought take up the matter of a state-wide law prohibiting the use of tobacco in any form. At the recent annual meeting of the Kentucky Woman's Christian Temperance Union, held in Winchester, Clark County, strong resolutions were passed by the convention, opposing the use of the weed on the grounds of morality and the general benefit of the people. The Flying Squadron will probably follow this lead and it is likely that prohibition of the use of both liquor and tobacco will be discussed and advocated. Many states have anti-cigarette laws, practically all of which are dead-letters as far as enforcement is concerned, but no state has yet passed a sweeping law against the use of tobacco in any form. As Kentucky is one of the

great tobacco-raising districts, it will be interesting to watch the results of an attempt to prohibit its use in that commonwealth.

WOULD CHANGE SCHOOL SYSTEM

According to advices from Helena, a new system of administering the affairs of school districts, except those of the first and second class, will be proposed to the legislature this winter in a bill which will be presented at the request of State Superintendent Davee.

The measure will provide for the county unit system. The system contemplates a county board of education, and instead of the money for the support of schools being appropriated as now, on the basis of the amount raised in each district, it would be apportioned either on a basis of so much per teacher, or average daily attendance or school population.

The present district school trustees would be succeeded by a county board of five members and, instead of there being a county superintendent there would be a superintendent of rural schools. District school trustees would be elected as at present, but they would serve in an advisory capacity to the county board, the latter having general control and management of the schools of the county.

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