

The Heppner Gazette.

Issued Every Thursday Morning

OUR CLUBBING LIST.

Heppner Gazette and Weekly Oregonian, one year 2 00
 Heppner Gazette and Weekly Examiner, one year, including ticket to Examiner's great drawing 2 10
 Heppner Gazette and Rural Spirit, one year 2 00
 Address all orders to GAZETTE, Heppner, Oregon.

Ayer's

Impure blood always shows somewhere. If the skin, then boils, pimples, rashes. If the nerves, then neuralgia, nervousness, depression. If the

Sarsaparilla

stomach, then dyspepsia, biliousness, loss of appetite. Your doctor knows the remedy, used for 60 years.

"Returning from the Cuban war, I was a perfect wreck. My blood was bad, and my health was gone. But a few bottles of Ayer's Sarsaparilla completely cured me."
 H. C. DOERFLER, Seranton, Pa.

Small text: J. C. AYER & CO., Lowell, Mass.

Impure Blood

Get the Sarsaparilla by keeping the bowels regular with Ayer's Pills.

WASTE OF WATER.

Experts Say Eastern Oregon is Easily Irrigated.

Prof. Samuel Fortier, who has charge of the irrigation and drainage investigations in the Pacific States, acting under the directions of the Department of Agriculture at Washington, was in Portland Thursday, says the Oregonian, on his way to Berkeley, Cal., where he makes his headquarters. Prof. Fortier has for the past week been investigating the conditions in Eastern Oregon as regards irrigation. Dr. Elwood Mead, of Washington, chief of the irrigation investigations of the Department of Agriculture, is expected in Portland Monday. It is understood that he will also make a trip through Eastern Oregon.

The investigations of Prof. Fortier of the climatic and soil conditions of Eastern Oregon regarding irrigation are the first scientific researches of this nature that have ever been attempted by the Government in this state. It is the result of a request made by Governor Chamberlain to Secretary Wilson, of the Department of Agriculture, that the irrigation conditions of Oregon be investigated by the Government.

The purpose of Prof. Fortier's trip to this state is to prepare and outline the work to be done by Prof. A. P. Stover, of the University of California, who has been assigned to Oregon for this coming summer. Mr. Stover is professor of irrigation at the University. He will spend the entire summer making trips through the arid sections of this state and studying the different conditions. He will also conduct experiments. In the fall he will go to Washington where he will compile a report of his observations and experiments.

If the report of Prof. Stover is favorable it is very probable that the Government will decide to locate a permanent station of investigation in Oregon as it has done in other states. If such is the case the Legislature will be asked to appropriate several thousand dollars to aid in the work. The Government agrees to furnish an amount equal to that appropriated by the Legislature. This arrangement has been made by the Department of Agriculture with several of the Western States.

"I am surprised that Eastern Oregon is not more developed," said Prof. Fortier at the Hotel Portland Thursday afternoon. "It is almost astonishing," he continued, "that a greater progress in irrigation has not been made in this state. I think the possibilities offered are wonderful. I had no idea until I

made this trip, of their extent. You have plenty of water, the very richest of soil and the climatic conditions could hardly be improved upon.

"I have been in the West for nearly 20 years and am thoroughly familiar with irrigation as it has been conducted in other states. Nevertheless I was greatly surprised when I came to Oregon. I find practically two-thirds of the state is arid or semi arid land, and very little of it is utilized. If we had the water that is wasted in Crook county in Southern California it would be worth thousands of dollars to us because we would utilize every portion of it.

"It is different in this state, though. You have the land and also the water, but you have paid so much attention to the western part of the state that Eastern Oregon has been overlooked. If you could have been along with me when I was in Crook county and have seen the fertile land lying idle while through its midst flowed a large stream of water which could be diverted for irrigation purposes you would think so too.

"I visited several different sections of Oregon. I was at Umatilla, Pendleton, Echo and through Butter Creek Valley. It was the same as in Crook county. I will tell you what they have been doing in certain portions of Butter Creek Valley. The streams from which the farmers obtain their water goes dry early in the spring. However, they flow the lands in February. The soil is so deep and rich that it retains the moisture all summer. They raise as good crops and as vigorous fruit trees by winter irrigation as we do in California.

"While on this trip I instituted a small experimental station at Bend, Oregon. The Deschutes Irrigation & Power Company gave me the use of six acres of land. Elias Nelson, a graduate of the Wyoming University, who has considerable experience with irrigation has charge of the experiments at the present time. We have six acres of land planted in oats.

"We are trying three methods of irrigation to see which will prove the most successful in the climatic conditions of that vicinity. Part of the land will be laid off in checks or compartments. Each check will contain about half an acre of land and be surrounded by a small levee which will retain the water. This form of irrigation is used in the San Joaquin Valley. Another of the tracts will be flooded in a manner similar to the method used most commonly in the irrigated portions of the mountain states. The third test will be to allow water to run down furrows spaced from 30 to 40 inches apart. This would prevent the ground from being baked after the water has receded.

"I have ordered shipped from Portland a large galvanized iron tank, about two feet in diameter, which will be used at Bend to determine the rate and amount of evaporation. There will also be seven or eight additional tanks in which will be grown sugar beets. Dirt will be placed in the tanks and beets planted. During the summer the plants will be watered in different proportions. Some of the plants will receive hardly any water and others will be flooded nearly all the time. In this way we can find out the amount of water that should be used in that particular vicinity. When the beets have reached their full growth they will be analyzed to ascertain the amount of nutriment they contain and as to their purity. The largest vegetables are not always the best."

TURN ON WATERS.

Project to Irrigate Umatilla Land.

Washington, March 31.—The prospect for Government irrigation in the Umatilla country has materially brightened in the last few days, since the receipt of a report from Edward I. Davis, assistant engineer in charge of the Umatilla project. After making exhaustive topographic surveys, Mr.

Davis reports that he has devised a scheme by which he believes it will be possible to irrigate anywhere from 100,000 to 250,000 acres of extremely fertile land lying just south of the Columbia River in Umatilla, Morrow, Sherman and Gilliam counties.

It was originally intended to utilize the floodwaters of the Umatilla River for irrigating these lands, but an exhaustive search failed to find any feasible damsite on that stream. Engineers found that the bed of the stream was of such loose structure that no reservoir could be built which would hold water. But Mr. Davis has discovered what he believes to be a feasible plan whereby the Government can store the flood waters of the John Day River and by a long canal divert it onto the land originally intended to be irrigated from Umatilla River. While his plan is probably more expensive than would the original Umatilla project, had it been feasible, it seems to present the only solution of this great irrigation problem.

As soon as convenient, Mr. Davis' plan will be submitted to the Board of Reclamation Engineers, who will go over the ground and determine upon its feasibility. Reports seem to indicate that there is plenty of water in the John Day River to irrigate at least 200,000 acres of very rich land. The reclamation service is very anxious to construct an irrigation system in the Umatilla country and is hopeful that Mr. Davis' plan will prove practicable.

The additional lands withdrawn yesterday under this project are desired either for irrigation or for rights-of-way. The new plans call for an extensive system of canals, and the Government, as far as possible, endeavors to

protect rights-of-way of this character, to prevent conflict with private owners.

Biggest Plowing Outfit in Oregon.

Pendleton, Or., March 30.—The largest plowing outfit in Oregon has just been unloaded in this city and will be used on a Umatilla County farm. It consists of a 30 horse-power engine and eight 14-inch plows, capable of cutting 30 acres per day on level land.

The engine will pull the outfit at the rate of two and three-quarter miles per hour, and the plow cuts 112 inches, or nine and one-third feet at each furrow. The engine is a double-cylinder compound, the drive wheels are six feet high and are 39 inches in width, with flanges four inches deep, with which to cling to the ground. The entire outfit weighs about 36,000 pounds and is valued at \$5000.

These plows are extensively used in California, Nebraska, the Dakotas and Kansas, and also in South Africa, Australia, Argentine and Canada, but this is the first of this kind to be brought into Eastern Oregon. This outfit will plow as many acres in a day of ten hours as 14 three-horse teams, using one 14 inch share each. One

Real Estate Bargains.

240 acres good timber land, 30 acres in cultivation, 5 acres in timothy; plenty of running water; good 5-roomed house; good barn and other outbuildings; 1 1/2 miles from good school; one mile from good saw mill.

320 acres good timber land in the edge of the mountains. The very best of summer pasture; plenty water; good location for small saw mill or wood mill; good buildings. In Morrow county. C. L. ASHBAUGH, Hardman, Ore.

Feb 9-May 9. The news of both hemispheres—in The Weekly Oregonian.

man is required to operate this plow and it burns about half a ton of coal per day.

Every vineyard at and near Julietta, Idaho, has been quarantined by the state horticultural inspector because of infestation by phylloxera. Many of them must be uprooted and roots and branches burned.

More Riots.

Disturbances of strikers are not nearly as grave as an individual disorder of the system. Overwork, loss of sleep, nervous tension will be followed by utter collapse, unless a reliable remedy is immediately employed. There's nothing so efficient to cure disorders of the Liver or Kidneys as Electric Bitters. It's a wonderful tonic, and effective nerve and the greatest all around medicine for run down systems. It dispels Nervousness, Rheumatism and Neuralgia and expels Malaria germs. Only 50c, and satisfaction guaranteed by Slocum Drug Co., Druggists.

Liberty Meat Market

MATLOCK & RASMUS

Fresh and Salted Meats
Fish on Fridays

Highest market price
paid for fat stock

HEPPNER, OREGON

A. C. RUBY & CO.
Importers, Breeders and dealers in Perchon, Shires, Belgian and German Coach Stallions and Jacks. We are in a position to sell you a first class pure blood imported Stallion cheaper than any one, as we are the only firm that ships direct from Europe to the Northwest, therefore we don't have any of the culls from Eastern barns. We have permanent headquarters at Pendleton, Oregon. We make terms to suit purchasers.

We give you a genuine guarantee, one that you can get action on without going out of the state. We have the largest and best selection to choose from that ever came to the Northwest. Would be pleased to have you come and look our stock over.

A. C. Ruby & Co.
PENDLETON, OREGON.

Red Front Livery & Feed Stables

Stewart & Kirk, Props
FIRST-CLASS LIVERY RIGS

Kept constantly on hand and can be furnished on short notice to parties wishing to drive into the interior. First class :

Hacks and Buggies

CALL AROUND AND SEE US. WE CATER TO THE :

COMMERCIAL TRAVELERS

AND CAN FURNISH RIGS AND DRIVER ON SHORT NOTICE :

Heppner. - Oregon

Domestic Peace

in the family is not to be expected where a poor cook stove is used. That is only natural. Secure

DOMESTIC HARMONY by furnishing your home with one of those magnificent

Superior Majestic

STOVES OR RANGES

Economical in Fuel, Satisfactory in Results, and as cheap and good as a good grade of Stoves can be sold.

FOR SALE ONLY BY

Gilliam & Bisbee, Heppner, Ore.

LEADING DEALERS IN

Stoves and Kitchen Outfits

PLUMBING A SPECIALTY

GILLIAM & BISBEE