SUMMER'S DROUTH CAN BE OVERCOME

Irrigation for Willamette Valley Urged by Government Investigator.

WATER SUPPLY ABUNDANT

Development of Smaller Farms, Expert Declares, Is Essential if Needs of Even Local Market Are to Be Supplied.

OREGONIAN NEWS BUREAU, Washington, Aug. 21.—Until the farmers of Western Oregon abandon the agricul-tural methods of the past generation. tural methods of the past generation and turn to intensive farming, with rotation of crops; until the 20 and 40-acre farm supersedes the ranch of ten times that sing and until modern methods of irrigation and cultivation are practiced generally throughout the Willamette, Rogue River and Umpqua valleys, Oregon will continue a viotim of prevailing high prices, and her most promising agricultural region will fall, as it has in the past, to meet even the demands of the local market. A change from old to new, with the general practice of irrigation, however, will double, if not treble, the output of these three valleys and greatly relieve existing cones, and greatly relieve existing con-

This is the message conveyed in a report just issued by the United States Department of Agriculture, giving the result of three years' investigations of irrigation possibilities in Western Oregon, coupled with a study of the causes that contribute to the agricultural backwardness of the whole of Western Oregon.

Economic Problem Serious.

The report is written by A. P. Stover, who had charge of irrigation investiga-tions in the Willamette Valley. The con-clusion of the report deals holdly with conditions that exist today, and is no

conditions that exist today, and is so forcefully werded as to command serious consideration. The concluding paragraphs read as follows:

"As the result of a wideepread campaign of education and advertisement, Western Oregon is experiencing today one of the greatest eras of growth and development it has ever known. From all ever the Union men are coming to this region to locate and invest their capital. Along commercial and industrial lines the development is very great, indeed. Along agricultural lines there is much threatment and speculation, but on the whole. Hittle real development is taking place outside of a few especially favored localities.

localities. This backwardness in the actual development of the agricultural industry constitutes one of the most serious economic problems confronting Western Oregon. This region is essentially and preminently an agricultural one, and the chief supporting industry will always be agriculture; yet substantial development along this line is falling far behind the development and increasing and inalong this line is failing far behind the development along commercial and in-dustrial lines and as a result an abnor-mal condition is rapidly being created. The cities and towns are growing rapidly, their population is increasing, but the farming industry that is to support this growth of the cities and towns is making

propersing, the general farming area is chinging to the active and normal farming area is chinging to the same methods and section of the propersing for the property of the following for the propersing for the property that relieves him from all care engage from the following for the propersing for the property that relieves him from all care engage from the following for the propersing for

slow is that in this necessary change from the eid one-crop method to the introductive furming, adverse climatic conditions are encountered that affect most eriously the results that should be setured under the new order of things.

The report calls alterition to the pecu-

liar climatic conditions of the Willam-ette Valley, with its heavy ainual rain-fall, but practical drought during the growing months of Summer, the season-when all crops, but wheat require water. The valley, since it was first settled, has been devoted principally to wheat grow-ing, for which the climate is admirably adapted, but the long continued growing of the one crop has brought the land into such condition that profitable crops of wheat are no longer produced.

Summer Irrigation One Remedy

CIRCUS ARRIVES TODAY

PARADE STARTS FROM SHOW GROUNDS AT 9:15.

Barnum & Bailey Performers and Menagerle Will Appear Here Twice With 1200 Animals.

CIRCUS PARADE WILL START /THIS MORNING AT

Boute of circus parade today Starting from the show grounds, Saleigh and Twenty-fifth streets, 21 9:15 o'clock this morning, will move direct to Ninetsenth street and Washington, and will then follow this route:

steenth to Morrison. Morrison to Third.

Morrison to Third.

Third to Burnside.

Burnside to Slath.

Sixth to Oak.

Oak to Fourth.

Fourth to Washington.

Washington to Nineteenth, and thence back to the grounds. The

will bring the hotel and the kitchen out-fit and the horses and men necessary to

Raw Copper Tempered to Cutting Edge in Alaska.

summer Irrigation One Remedy.

In favored localities, limited areas have in recent years been devoted to other crops, it is said, but practically nothing has been done with the vast area of grain has been done with the vast area of grain land that each year is growing less prolated by the Portland flow was appreciated by the Portland flow was appreciated by the Portland flow was appreciated by the Portland flow was a many the past three years to determine the feasibility of trigation in the Willamette. Umpaga and Rogue River valleys, and of the problem that combined in solving the problem that combined in solving the problem that combined in solving the problem that combined in many respects have shown concluding other information that will be of value in solving the results of the investigations. The report says:

"The experiments made though incomplete in many respects have shown concluding of the problem that combined from Summer Irrigation in the William many respects have shown concluding only a more assured return but a greatly increased yield.

"All crops experimental upon show a decided increased yield.

"All crops experiment by the problem in the same and tools fashioned by accepted by the Astecs and theory applied will double the output of farming operations. Water to crops will easily increase yields from its in seems safe to ask the output of farming operation. Water to crops will easily increase yields from its in low and tools fashioned into tools that the instance of the courted of the application. Water to crops will easily increase yields from its in low of the courted of the application of water to crops will easily increase yields from its in low of the courted of the propose of the courted of the propose of the courted of the second propose of the second of the courted of the second of the courted of the propose of the courted of the propose of the courted of the second of the courted of the courted of the

Copper Scissors Will Cut.

An employe of the camp was temporar-ily disabled and, while passing the time away, hammered two small nuggets into plates, designed the blades of scissors on them and cut them out with a chissel. The blades were then sharpened with a lile and riveted together with a piece of the malleable copper. The scissors have a keen edge and will cut wer tissue paper.

It is believed by Mr. Range that the Aztecs, instead of possessing a process of smelting and bardening copper, found the metal ready for manufacture, like the nuggets along Dan Creek, and hammered out their utensils, implements and tools, just as the pair of sciesors were hammered out in the Dan Creek camp. In describing the process of nature in smelting the copper nuggets Mr. Range said:

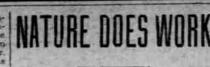
said:

"Our ledges are capped with 2000 feet of lime rock. Lime rock is formed under the sea and is the flux for smelting copper. When the volcanic eruption took place, that brought the wealth of gold, copper and silver to the surface in Alaska so that it could be used by manthere was enough lime rock to flux the copper ore, and the highly refined nuggets were thrown up with the raw material. It is possible sait water did the tempering of these nuggets, which may be hammered out and edged, but I don't know. Nature excels the handwork of man and we do not know her secrets. The nuggets contain a little gold and silver, and all that is necessary to market them is to send them to the refineries to Today and tomorrow are circus days in Portland.

The first section of the circus train is expected by 1 o'clock this morning. It expected by 1 o'clock this morning. It expected by 1 o'clock this morning. It edge."

Oregon's "Grand Old Man."

As a tribute to the memory of the late George H. Williams, "Oregon's Grand Old Man," the Circuit Court of Multnomah County has issued a little book





The Last of Four Carloads Are Now Being Closed Out

Think of selling four carloads of two different makes of

pianos in ten days-besides lots This \$375 Style for \$286 of Chickerings and Kimbals and Autopianos, etc.—yet that is the selling record established by Eilers Music House during the

last ten days. Only a few of the entire four carloads of the pianos purchased of a bankrupt Eastern dealer's stock are now left, and any one wanting one of these must act quickly. Of course there must have been quite a special inducement

to produce such remarkable buying—and there is yet!

It is indeed a rare occurrence when you can buy the equal of these four carloads of pianos at such immense savings as we offer them for.

This \$400 Style for \$304 A clear saving of from \$89 to \$143 is obtained on these four pianos. And this is an actual saving, mind you, and not one fictitiously based on "list prices," but \$89 to \$143 below the lowest net retail prices you can

buy these same celebrated pianos for anywhere in the United States. A handsome \$375 style can now be had for \$286, saving you \$89; a regular \$400 style can be bought for \$304, saving you \$96; a superb \$450 instrument is now priced at \$318, saving you \$132, and a magnificent \$475 piano is now \$332, saving you exactly \$143.

And these are every one guaranteed pianos, warranted fully by the makers as well as by Eilers. So great is the cut on these reliable piano prices that the manufacturers have requested us to withhold advertising their names, so as not to demoralize future sales at regular prices. The cases on these instruments are of the very latest designs, being made of figured mahog-

any, mottled walnut and burled oak. Some are richly carved, and others have plain style cases. This is one of the greatest values ever given by the House of Eilers, and any music-lover who desires a thoroughly reliable instrument, with all the latest improvements, will make no mistake in selecting one of these beautiful instruments—besides, you save enough on the transaction to pay for an extended trip or vacation.

You will admit when you see these fine pianos that you never saw their equal in value. Come and see them. Hear their magnificent tone. Note their fine action and rich cases. Read the binding guarantee we give with each instrument. Compare them with the best that other dealers can offer at \$400 to \$500, and you will then find that we offer a far superior instrument for \$143 less. Isn't that WORTH saving?

let, compiled of eulogies on his life and character, which were read by members

of the Oregon Bar, at a meeting of the

But remember, we can't possibly duplicate these instruments at these prices after the few we have on hand are sold. Therefor, you had better hurry if you want one. Under no conditions will this sale continue after Saturday, and it probably won't even last that long, at the present rate of sales.

LARGEST, OLDEST AND MOST RESPONSIBLE



East Side Store, 84 Grand Ave. Wholesale, 15th and Pettygrove Sts. OREGON'S HOME PIANO CONCERN

351, 353, 355 Washington Street

given to him in Portland on his 87th investigated and found the motor-room above the elevators ablaze. The fire department responded to an alarm and checked the flames, with a loss estimated at 350.

This \$450 Style for \$318

Of the Oregon Bar, at a meeting of the Circuit Court last April, cashed for the purpose of passing resolutions on the death of the venerable old gentleman.

The little pamphlet consists of 32 pages and reproduced therein is also Judge Williams' last public address, which was delivered on the occasion of a dinner Tenants of the building, smelling smoke.

Worcester Building Fire Small.

A blaze originating from crossed electric wires broke out in the attic of the Worcester building, at Taird and Pine streets, at 10 o'clock last night.

Tenants of the building, smelling smoke, Piles Will Speak at Vancouver. the Worcester building, at Third and Pine streets, at 10 o'clock last night. Cial.)—Samuel H. Piles, of Seattle, is to speak here September 1.

CIGARETTES

Work or play requires relaxation and the soft mellow taste of Fatima Cigarettes meets the requirement perfectly.

The flavor of the skillfully blended tobaccos affords a sense of comfort and content.

An inexpensive package makes possible ten additional cigarettes.

Pictures of popular actresses now packed with Fatima Cigarettes.





ACHILDREN AWAITING THE ELEPHANTS IN THE BARNEM & BAILEY STREET PARADE.