

Industrial Growth in the Pacific Northwest

EASTERN OYSTERS TO PRODUCE

Low Temperature of Water on Western Coast Said to Kill Spawn.

NATIVE BEDS THINNING

Measures Needed to Protect and Increase Industry—Large Beds in Coos Bay Were All Killed. Report of Biologist.

Professor A. B. Sweetser, State Biologist for Oregon, has made an exhaustive study of the oysters and oyster-beds of the North Pacific Coast and his findings are embodied in a report which he has recently submitted.

Several years ago Eastern oysters were planted in Yaquina Bay and placed under the charge of the State Biologist. They grew rapidly and became fat, the meat of many of them measuring four inches by two inches, but little or no evidence has been found of any increase and they were rapidly dying of old age.

The temperature of the bay water rarely goes above 70 degrees while on the Eastern coast during the spawning season it ranges between 70 and 80 degrees.

A number of Eastern oysters were possibly in a covered tank at Coos Bay, Oregon, and were submerged about a foot and towed farther up the river to a point where the oysters would be less affected by sudden changes of the incoming tides.

The native oysters of this Northwest Coast are all of a single species, Ostrea lurida, Olympia or Showabawac or Yaquina may, perhaps have a slightly different flavor due to the environment.

What catastrophe destroyed the oysters in Coos Bay no one knows. The Indians had a tradition that the oysters were once swept the Oregon Coast, caused the water to become excessively heated, but if the disappearance of the oysters is in any way due to the Indians, it is probably due to the sudden increase of ash and mud which smothered the oysters.

What catastrophe destroyed the oysters in Coos Bay no one knows. The Indians had a tradition that the oysters were once swept the Oregon Coast, caused the water to become excessively heated, but if the disappearance of the oysters is in any way due to the Indians, it is probably due to the sudden increase of ash and mud which smothered the oysters.

What catastrophe destroyed the oysters in Coos Bay no one knows. The Indians had a tradition that the oysters were once swept the Oregon Coast, caused the water to become excessively heated, but if the disappearance of the oysters is in any way due to the Indians, it is probably due to the sudden increase of ash and mud which smothered the oysters.

What catastrophe destroyed the oysters in Coos Bay no one knows. The Indians had a tradition that the oysters were once swept the Oregon Coast, caused the water to become excessively heated, but if the disappearance of the oysters is in any way due to the Indians, it is probably due to the sudden increase of ash and mud which smothered the oysters.



EASTERN TRANSPLANTED OYSTER WITH OLYMPIA HALF SHELL ON ONE SIDE TO SHOW COMPARATIVE SIZE.

MALHEUR HAS DOOM

Bright Outlook in Southeastern Oregon for 1909.

HOPE TO GET WATER SOON

Settlers Signing up Contracts With Government Irrigation Project.

Private Capital Ready if Government Falls.

VALLE, Or., Jan. 3.—(Special.)—Malheur County has reason to expect a prosperous new year. In every settled part of the territory there are signs of progress and the cities and towns are in a prosperous condition.

The land is first-class agricultural country, the soil being largely of volcanic ash, it is situated on benches affording natural drainage and protection from east winds. It is believed that the 200 families which will settle in the valley this Spring will add greatly to the wealth and productiveness of this territory.

HOAG MINES LOOK GOOD

COLORADO FIRM INTERESTED IN GOOSE LAKE VALLEY.

Lake County Mining District Promoted Renewed Activity if Capitalists Put in Machinery.

LAKEVIEW, Or., Jan. 3.—(Special.)—Situated about five miles to the east of New Pine Creek, a rising town on the Oregon-California state line in Goose Lake Valley, is the Hoag mining district, which is now assuming much importance.

The existence of gold in this region was proved many years ago by a prospector named Hoag, from which it derives its name, though it is only a few years since it was explored in a practical way.

Under these conditions land is in abundant demand and is changing hands at considerably enhanced prices, particularly in the Dead Ox flat and in the Owyhee section, where conditions are particularly suited to the cultivation of fruit.

MALHEUR TO GROW FRUIT

Large Tract of Land Will Be Planted to Orchards.

VALLE, Or., Jan. 3.—(Special.)—Four thousand acres of first-class agricultural land are to be settled prior to the opening of Spring by practically all the settlers in the Willow Creek Valley. The land is now being divided into 20, 30 and 40-acre tracts and will be watered by the irrigation system of the Willow River Land & Irrigation Company, which has just com-

WHOLESALE

- AGRICULTURAL IMPLEMENTS. A. H. AVERILL MACH. CO., 250 Belmont. JOHN DEERE PLOW CO., E. Yamhill & Co. A. E. JACOBS CO., 188 Front. RACINE-SATTLER CO., 200 E. Water. SCOTT & MUNSELL, 221 E. Morrison.

- WHOLESALE. ELECTRIC MACHINERY SUPPLIES. PACIFIC ELECTRIC BROS. CO., 212 2d. WESTERN ELECTRIC WKS., 81 6th. ENGINES AND BOILERS. A. H. AVERILL MACH. CO., 250 Belmont. ENGINEERS. PACIFIC ENGINEERING CO., 509 Lum. Ex.

- WHOLESALE. LUMBER. EASTERN & WESTERN LUMBER CO., N. Front st. JONES LUMBER CO., 4th & Columbia. NORTH PAC. LUMBER CO., 206 Wells-Fargo bldg.

- WHOLESALE. STEEL BEAMS, CHANNELS, ETC. PACIFIC I. & E. WKS., E. Burnside bridge. STEEL CASTINGS. COLUMBIA STEEL CO., 148 10th.

- WHOLESALE. FURNITURE. HENRY WOODRUFF & CO., 121 1/2 Front. FURNITURE. HENRY WOODRUFF & CO., 121 1/2 Front.

- WHOLESALE. PAINTS AND OILS. KELLY & PATRICK CO., 122 1/2 Union st. RAMBUSH & CO., 194-196 2d.

WHOLESALE

- WHOLESALE. PAINTS AND OILS. KELLY & PATRICK CO., 122 1/2 Union st. RAMBUSH & CO., 194-196 2d.

- WHOLESALE. PAINTS AND OILS. KELLY & PATRICK CO., 122 1/2 Union st. RAMBUSH & CO., 194-196 2d.

- WHOLESALE. PAINTS AND OILS. KELLY & PATRICK CO., 122 1/2 Union st. RAMBUSH & CO., 194-196 2d.

- WHOLESALE. PAINTS AND OILS. KELLY & PATRICK CO., 122 1/2 Union st. RAMBUSH & CO., 194-196 2d.

- WHOLESALE. PAINTS AND OILS. KELLY & PATRICK CO., 122 1/2 Union st. RAMBUSH & CO., 194-196 2d.

- WHOLESALE. PAINTS AND OILS. KELLY & PATRICK CO., 122 1/2 Union st. RAMBUSH & CO., 194-196 2d.

NEW SCHEDULE IS COSTLY

PORTLAND LIKELY TO LOSE CLEARWATER TRADE. Recent Railroad Changes Place People From That District Out of Touch With Metropolis.

PORTLAND, Or., Jan. 3.—(To the Editor.)—I am writing this letter, not necessarily for publication nor to point out a neglect of duty, but simply to indicate a detail of your task of upbuilding this city's prosperity which you might else have overlooked.

OVER 200 CLAIMS STAKED

WORK IN MAYFIELD DISTRICT RUSHED WITH VIGOR. Samples of Ore Sent to Assayers. Return Good Report—Farmers Raise Land Prices.

CENTRALIA, Wash., Jan. 3.—(Special.)—Work in the Mayfield gold district is being carried on with much vigor.

WORTH PREPARING FOR KIDNEYS OR BLADDER

All Your Misery Is Unnecessary, and Vanishes Before You Realize It.

More people succumb each year to some form of kidney trouble than any other cause. The slightest form of kidney derangement often develops into Bright's kidney disease, diabetes or dropsy.

There are many of the lesser symptoms of kidney trouble which can be treated at home by the use of a well-known authority. For some of these, such as backache, pain in the region of the kidneys, weak bladder, fraying the sufferer that the kidneys are not acting properly.

Backache is nature's signal notifying the sufferer that the kidneys are not acting properly. "Take care of your kidneys," is now the physician's advice to his patients.

Security

—The investments I offer are backed by the soundest security in the world and return a good rate of interest

LA GRANDE, Or., Jan. 3.—(Special.)—Improvements of a public nature, including new residences, water works and sidewalks in La Grande for 1908 come close to the \$1,000,000 mark.

Million for Improvements.

LA GRANDE, Or., Jan. 3.—(Special.)—Improvements of a public nature, including new residences, water works and sidewalks in La Grande for 1908 come close to the \$1,000,000 mark.

T. S. McGrath

Lumber Exchange PORTLAND, OR.

HARTMAN & THOMPSON

BANKERS CHAMBER OF COMMERCE

pay 4% interest on time deposits and possess many desirable conveniences for handling this important line of business.

Unlimited Personal Liability