

### HATCHERY IS ONLY SLIGHTLY INJURED BY "SILVER THAW"

#### As Result of Storm but 628,500 Salmon Fry Were Lost at Bonneville Station; Fish Warden's Report.

In his monthly report to the state board of fish and game commissioners, State Fish Warden R. E. Clanton states that the damage to the Bonneville hatchery was not nearly as bad as anticipated during the recent "silver thaw." During the storm snow reached the depth of five feet and it was impossible to keep the ponds from freezing over. Another great source of trouble was the slides along the flume, about 70 feet of which was taken out by one. The flume also froze over and water spilled over the sides washing out considerable embankments around the ponds being constructed.

This spilling of water flooded one of the ponds containing black spotted trout fry, releasing them into a lower pond. This pond was later flooded and the young fish lost in Tanner creek. During the entire storm the estimated loss in fish was \$22,500, much less than had been expected.

At present there are at the station in good condition 10,581,000 chinook fry and 1,338,700 sockeye fry, a total of 11,919,700 young salmon. In addition there are \$28,000 eastern brook trout fry and eggs at the hatchery. At the Clatskanie hatchery there are 2,569,900 chinook fry.

#### Tillamook Hatchery.

The Tillamook hatchery reports on hand 647,750 chinook fry, 2,567,425 silverside eggs and fry and the largest number of steelheads ever seen below the racks, indicating that the take of eggs will be heavy this season. Numbers of black spotted trout are being held back for their eggs. Arrangements are being made at the McKenna station to take rainbow trout and already a large number are impounded.

At the Yaquina hatchery there are 2,508,750 salmon fry and eggs on hand. In addition there are about 100,000 black spotted trout eggs, a portion of which will be shipped to the Bonneville central hatchery, after being eyed, while the remainder will be cared for at the Yaquina hatchery and distributed in Lincoln county.

Superintendent Everett E. Cook of the Alsea station tendered his resignation at that station to take effect on January 31, in order that he might embark in the mercantile business. William Fitzcharles, foreman at the Bonneville plant, was sent to replace him. At Al-

### For the Children

#### To Keep Their Digestion Perfect Nothing Is So Safe and Pleasant as Stuart's Dyspepsia Tablets.

Trial Package Sent Free.

Thousands of men and women have found Stuart's Dyspepsia Tablets the safest and most reliable preparation for any form of indigestion or stomach trouble.

Thousands of people who are not sick, but are well and wish to keep well take



Stuart's Tablets after every meal to insure perfect digestion and avoid trouble. But it is not generally known that the Tablets are just as good and wholesome for little folks for their elders. Little children who are pale, thin and have no appetite, or do not grow or thrive, should use the tablets after eating and will derive great benefit from them.

Mrs. G. H. Crostley, 538 Washington St., Hoboken, New Jersey, writes: "Stuart's Dyspepsia Tablets just fill the bill for children as well as for older folks. I've had them for their elder son. My three-year-old girl takes them as readily as candy. I have only to say 'tablets' and she drops everything else and runs for them."

A Buffalo mother, short time ago, who despaired of the life of her babe, was so delighted with the results from giving the child these tablets that she went before the notary public of Erie Co., N. Y., and made the following affidavit: "Gentlemen:—Stuart's Dyspepsia Tablets were recommended to me for my two-month-old baby, which was sick and puny and the doctors said was suffering from indigestion. I took the child to the hospital, but there found no relief. A friend mentioned the Stuart Tablets and I procured a box from my druggist and used only the large sweet lozenges in the box and was delighted to find they were just the thing for my baby. I feel justified in saying that Stuart's Dyspepsia Tablets saved my child's life."

MRS. W. T. DETHLOPE. Subscribed and sworn to before me this 12th day of April, 1911.

Notary Public in and for Erie Co., N. Y.

For babies, no matter how young or delicate, the tablets will accomplish wonders in increasing flesh, regularity and growth. Use only the large sweet tablets in every box. Full sized boxes are sold by all druggists for 50 cents, and no parent should neglect the use of this safe remedy for all stomach and bowel troubles if the child is ailing in any way regarding its food or assimilation. Stuart's Dyspepsia Tablets have been known for years as the best preparation for all stomach troubles whether in adults or infants. A trial package will be sent, if you write to Stuart Co., 151 Stuart Bldg., Marshall, Mich.

station there are at the present time 1,415,000 salmon eggs on hand. At the Stulow station 1,548,070 salmon eggs and fry are being taken care of, a large portion of which are hatched and will soon begin taking food. At the Clatskanie hatchery 1,714,100 early chinook fry just beginning to take food. The take at South Coos hatchery amounted to 1,869,000 chinook and 2,348,000 silverside eggs. At Coquille station were taken 1,664,000 silverside eggs.

#### District No. 1.

In District No. 1 (tributary to the Columbia river in the state of Oregon), there are 12,150,800 chinook eggs and fry and 1,923,700 sockeye, while in District No. 3 comprising the coast streams south of the Columbia river there are 4,903,922 chinook eggs and fry and 3,207,070 silversides.

The season for the taking of steelhead and trout eggs is just opening and from indications reported Warden Clanton expects a very large take of eggs. In a number of hatcheries the silversides and trout are already running in the streams and are being held until they can be stripped.

In connection with the investigation made by Warden Clanton of the migration of marked salmon fry he found that the fish which were liberated from the Bonneville hatchery on October 26 had reached a point within 30 miles of the mouth of the Columbia. Here they made up about 10 per cent of the haul of fry. Other hauls made at various points east showed that the fish were still scattered. The men were compelled to scatter the hauls, where the last haul was made, owing to high tides and a freshet in the river. The fry are considerably larger than when the last investigation was made in November and the fishermen are taking great interest in their progress.

### COOS BAY TRADE OFFERING LURES

#### Portland May Capture Bulk of It, Which San Francisco Now Gets.

"Ninety per cent of Coos Bay production is shipped to San Francisco, not to Portland. One hundred per cent of the lumber is shipped to San Francisco. When shipments are to be made to the interior they go to San Francisco, although the rates from Portland are the same from Portland as from San Francisco. Why don't Portland go after the coast-wise and Coos Bay business?" questioned C. R. Peck, a well known Marshfield lawyer, when he came to Portland yesterday.

"I came in on the Breakwater," continued Mr. Peck. "Captain Macgenn was complaining because he had an empty ship."

"Isn't there any business out of Coos Bay?" I asked him.

"There's plenty of business," he answered, "but it all goes to San Francisco."

#### San Francisco Capital.

"And what Captain Macgenn said is true. I could verify it out of my own knowledge. Our butter and eggs and cheese—all dairy products go to San Francisco. Our fruit is shipped to San Francisco, and San Francisco capital is invested in Coos Bay.

"But we will have railroad connection and regular train service between Portland and Coos Bay within 18 months. It will revolutionize trade conditions."

"Portland can get the Coos Bay business when the railroad is finished without trouble. We of Coos Bay and of the Oregon coast, are Oregon citizens. We are not Californians. We would rather do business with Portland, if Portland gives us the opportunity."

"We would like to buy from Portland on an exchange basis. We have dairy and other products to sell. We want to buy manufactured articles of all kinds."

#### Marvelous Development.

"There is to be a marvelous development on Coos Bay. The second city in importance and size in Oregon will be located there. Rail transportation will work a transformation."

"We all agree that Portland is doing the proper thing to go after the Alaska business, but from a standpoint of state development, and of business profits, we think it is proper for Portland to longer neglect the opportunity offered by Coos Bay and coastwise business."

"We'd like to see a Portland-Coos Bay business excursion organized. There have been business excursions into every other part of the state. We will give the Portland business men a welcome and we will show them the opportunity for profitable business exchange."

"Portland going after the Coos Bay business." In Portland willing to continue to permit San Francisco to do the business and reap the profits? Does Portland want the Coos Bay business?"

### JAIL PLANS EXAMINED BY CITY OFFICIALS

Mayor Rushlight and members of the police committee of the city executive board held a special meeting in the mayor's office yesterday to examine plans submitted by various local architects for the proposed municipal jail building on Everett street. No plan was accepted, but it is believed the building to be selected finally will be of reinforced concrete construction and will be five stories in height.

Such a building can be erected, according to preliminary estimates, for \$120,000. The structure would also offer the advantage that it can be erected in a shorter space of time than if all construction is ordered. Architects estimate that a saving of 10 days can be made by using reinforced concrete.

Of the proceeds of the sale of \$200,000 of jail bonds, the sum of \$150,000 is now available. \$35,000 having been expended for a site. It is probable that a building on Everett street between Fifth and Sixth will be used as a temporary jail while the new structure is being erected.

### SOCIALISTS NOW BEHIND TEXTILE MILL STRIKERS

(United Press Special Wire.) Lawrence, Mass., Feb. 7.—Undaunted by the fact that nearly all textile mills here are again running with crippled forces, striking operatives here are not discouraged, predicting that they will yet be victorious in the fight.

"We will raise \$50,000 within the next three weeks and then fight the wool trust and allied mills to a standstill," declared Vice President Stodol of the Industrial Workers of the World, who has arrived here to take charge of the strike. "The Socialist organization is now behind this struggle. It has 4000 locals and each will contribute \$20 to carry this fight to a successful conclusion."

### SMOKE NUISANCE LARGELY DUE TO POOR COMBUSTION

#### Consulting Engineer Shows That Production of Smoke Is Unnecessary and Wasteful; Problem Needs Attention

As Portland becomes more and more a manufacturing city the people are forced to consider the smoke nuisance. For no city can be an ideal place of residence where thick clouds of smoke rise from factory smokestacks and spread a blanket of soot over the town. The problem in Portland is simple, perhaps, now, and as the years pass can be handled with little trouble.

A search of the ordinances of the city numbering many thousands, shows a remarkable lack of legislation looking to the regulation of the smoke nuisance. In fact Portland has no ordinance adequately covering the subject. And factory smokestacks are increasing in number rapidly.

That the people may have an intimate view of the smoke problem, The Journal has asked Frederick Powell, consulting engineer, and a student of smoke problems, for a brief study of conditions. Mr. Powell's views:

#### Mr. Powell's Views.

"Agitation of the smoke question in Portland brings forward an old, much discussed subject, but still a live one in every city where oil or bituminous coal is used as fuel."

"The production of smoke is not only unnecessary but wasteful. It is possible to burn both coal and oil without it. The principles of combustion are well known. The literature on the subject is voluminous, much of it in ancient history. The complete combustion of hydrocarbon fuels results in the formation of vapor of water and carbonic acid gas, both readily absorbed by the atmosphere and invisible. Petroleum and the volatile combustion elements of bituminous coal consist of a complex combination of hydrogen and carbon."

"Three things are necessary for their combustion: First, sufficient air with its free oxygen; second, a mixing of the air with the fuel, and third, not less important, time for the combustion to take place under proper conditions of temperature. The lack of any of these three elements will result in imperfect combustion, and the production of smoke. Insufficient air, or a failure to get the air and fuel in contact by proper mixing, or the premature cooling of the gases by contact with the comparatively cold boiler shell, or tubes before combustion is complete will produce smoke."

"If any one wants to see the effect of bringing a flame in contact with a cool surface, just try to heat a cup of water over a lamp. Take the chimney off and hold the cup down close to the flame. The result is lamp black on the bottom of the cup and a smoky flame and the water refuses to boil."

"Yet most men think they must crowd the flame from a coal fire as close as possible to a boiler. The flame in both cases is the same in character and the combustion matter is hydrocarbon gases. It was tried in the case of oil, but the more intense concentrated oil flame heats the metal faster than the heat can be transmitted through it to the water, with resulting injury to the boiler."

#### Where Smoke Comes From.

"The complex hydrocarbons of the oil or coal gas are decomposed under the action of heat with the separation of the excess carbon which is deposited at the temperature of separation and produces the light of the flame. If these carbon particles get in contact with sufficient oxygen they burn completely to carbonic acid. If they come in contact with a comparatively cool surface before they burn, they are simply extinguished and become black particles of 'lamp black' or soot. If they pass on out of the stack, they are smoke."

"Oil is usually burned in the form of a spray under the force of a jet of steam. The object of this spray is to split up the oil so that it can mix with the air and burn more rapidly and completely. The steam has another effect. In the heat of the flame the hydrogen and oxygen of which it is composed, are dissociated and a combination is broken up. A quantity of heat is absorbed in this separation, reducing at first the intensity of the heat. The oxygen unites with the free carbon to form carbon monoxide gas, which burns further on with atmospheric oxygen to carbonic acid. The hydrogen also burns again to water vapor, so the heat at first absorbed is recovered again. The result is a more diffused and less concentrated fire. With the oil thus burned, there should be no smoke. But if the flame is forced into the boiler tubes or against the shell before combustion is complete, smoke will be the result."

"Fire brick should be used to keep the flame from contact with the sides of the firebox, and also to baffles the flame until combustion is complete."

#### Wasting Fuel.

"A smoky fire is not only a waste of fuel, but it reduces the efficiency of the boiler in another way. The carbon deposited on the shell or in the tubes acts as a nonconductor of heat, and thus interferes with the conduction of heat by the metal and its transfer to the water."

"The waste of fuel is only half the story. Every fireman knows his boiler will not steam with a smoky fire. With a smoky fire they cannot get clean steam. With coal it requires only the proper arrangement of the firebox and the admission of sufficient air at the proper place to produce perfect smokeless combustion. The same with wood. A boiler properly set will be far more efficient than if run with a smoky fire, even if it smokes only part of the time."

Lafferty on Congressional Committee (Washington Bureau of The Journal.) Washington, Feb. 7.—Congressman Lafferty has been elected a member of the congressional Republican committee and sent his declaration to Oregon.

### No Appetite

"I took Hood's Sarsaparilla when I was a very sick woman, had no appetite whatever, and could not sleep more than three hours a night. I was persuaded by a friend to try it, took two bottles of it and it greatly benefited me, gave me a good appetite and sound sleep." Mrs. John Edgus, 320 W. 3rd St., Lavenport, Iowa.

It is by purifying the blood, strengthening the nerves and building up the system that Hood's Sarsaparilla restores the appetite and makes sleep sound and refreshing in so many cases.

Get it today in usual liquid form or chocolate tablets called Sarsapilla.

### SEATTLE COUNCILMEN JUNKET TO ESTACADA

Seattle, Wash., Feb. 7.—Members of the Seattle city council will within a few days make a trip to Estacada, Or., to visit and inspect the Amburney type of reinforced steel concrete dam, having voted to accept the invitation of the Puget Sound Bridge & Dredging company of this city. S. H. Hedges, president of the contract company, pointed out to the council its duty to familiarize itself with this type of dam construction in view of the forthcoming construction of the big power dam at Cedar River, where the city gets its water and power. Councilman Blaine opposed the trip on the ground that the city is about to hire three experts at \$50 per day to inspect the Cedar River site and expressed the fear that the council would obligate itself to the Puget sound company. The trip will be made shortly, the date to be set later.

### GOLDS GAVE SEADAGER LAXATIVE BROMO QUININE

WORLD WIDE COLD AND GRIP REMEDY, removes cause. See signature E. W. GROVE, 236 1/2 Commercial.

Select patronage with efficient service makes Oaks Bink popular place.

### TOYS WITH GUN; SHOT; BRINGS DAMAGE SUIT

London, Feb. 7.—If servants toy with revolvers and accidentally shoot themselves, the employer is not liable for compensation, according to a decision given by the West London county court. Gwendolin Vaughn, chambermaid at the South Kensington hotel, found a revolver protruding from a trunk belonging to a guest, and being frightened of firearms suspended during opera-

### Fight Over Comstock Lode.

(United Press Special Wire.) San Francisco, Feb. 7.—The Great Comstock lode, one of the most famous mines in the world, is the issue of a battle today between a syndicate headed by E. J. DeSable and other San Francisco capitalists, and the trustees' pool at the head of which are Herman Zedler and E. F. Shaw, brokers.

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There's no use looking for anything so good as Moyer clothing for men; we know we have the best at the price, and we want you to know it.

# Moyer \$15 Suits

will wear long after you've had that amount of service from them, as judged by ordinary standards. That's why so many men buy them and wear them—they pay the buyer a good profit.

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# Ambitious Men

who realize their latent ability and seek success in life, are invited to a careful consideration of the famous food,

# Grape-Nuts

Brain Nourishment is essential to Brain Activity.

A sluggish brain is a handicap—a hindrance in the path of promotion.

Grape-Nuts food, made of whole wheat and barley, contains the tissue-building "albumins" and the energy-making starches (changed into dextrin and grape sugar in making Grape-Nuts.) It also contains the phosphate of potash (grown in the grains)—the cell-forming, mineral element Nature uses in building brain and nerve cells.

Grape-Nuts, regularly for breakfast, will help anyone.

"There's a Reason"

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If you spend all you earn, no man would want you in charge of his business; if you show by a businesslike administration of your own affairs that you can accumulate a surplus, others will trust you to manage their affairs.

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