

DAM IS COMPLETED; IDAHO PLANS FECE

Carnival at Boise October 4 to Include Delegations From All Parts of State.

240,000 ACRES WATERED

\$12,000,000 Structure, Highest Yet Built, Impounds Floods in Reservoir 18 Miles Long for Use When River's Flow Is Low.

BOISE, Idaho, Sept. 25.—(Special.)—Arrowrock dam, that arrests the flow of the Boise River just above the City of Boise, is a monument to the efficiency of the Government Reclamation Service, the key to an irrigation project that adds 240,000 fruitful acres to the permanent wealth of the Nation.

Boise is to be the scene on October 4 of a unique celebration. It is to partake of the nature of a harvest home and barbecue.

Settlers from all parts of the project, the direct beneficiaries of the water from Arrowrock, will offer on this occasion the best their land has produced.

Many Towns to Be Represented.

Gathered at this celebration will be the settlers from the four counties included in part in the project—Ada, Boise, Canyon and Elmore; citizens from Boise, Nampa and Caldwell who profit directly from the reclamation of this land; residents of Meridian, Kuna, Bowmont, Melba, Greenleaf and Wilder—towns that have sprung to life on the project since the water was given to the soil.

In the reservoir back of Arrowrock dam, a reservoir 18 miles long capable of draining a basin of 2610 square miles, more than twice the area of the state of Rhode Island, there is stored each year 244,000 acre-feet of water for irrigation in the late Summer months when the normal flow of the river is exhausted.

By building the dam across a narrow gorge in the canyon of the channel of the river is converted into a natural reservoir, running back into the hills for 18 miles and with a maximum depth of 200 feet.

This, then, was the problem of the Reclamation Service—to capture the Spring flood, to hold it in reserve until needed for irrigation in the hot, dry, Summer months, and then to pay out as a prudent banker puts his money into circulation. It was a problem that called for clear vision, engineering skill, patience, hard work and the expenditure of \$12,000,000, the approximate cost of a modern battleship.

When the Government Reclamation Service first came upon the ground in 1902 it found private capital wrestling with the problem and doomed to failure because of the diversion of funds for a careful survey it took over the enterprise.

A diversion dam 12 miles below Arrowrock was completed; the main canal from this dam to Deer Flat was built. Deer Flat was a low tract in the center of the project and by the erection of earthen dams this was converted into a reservoir. A network of distributing canals was built. A power plant was installed at the diversion dam. An exclusive telephone system was installed.

Dam Costs \$2,000,000 Less.

All this preliminary—a clearing of the ground for the real work to be done in the construction of the Arrowrock dam. The preliminary work started in 1905; the preliminary work on the main dam did not start until 1911.

Here it must be said in justice to the Reclamation Service, and especially to F. E. Weymouth, supervising engineer, Charles H. Paul, construction engineer, and James M. Galloway, superintendent of construction, that Arrowrock dam is completed a full year in advance of the time specified in the beginning and at a cost on the dam itself of \$2,000,000.

The fact that water was available this year was a godsend to thousands of settlers in this, the driest season ever known in Southern Idaho. The Government, with the water stored at Arrowrock, was in a position to save the crops on the project, but to sell water to many other farmers near by, neighbors, who were in dire straits.

Sentiment played a part in the final location of this monster dam. Jutting out into the canyon overlooking the trail that crept along by the side of the stream stood old Arrowrock. It had won its name from the custom of the revolving Indian gamblers who shot arrows into the face of this particular rock to tell their comrades, who came after them, which way they had gone.

By the angle of the arrow the late comers knew at a glance whether those in advance had gone up stream, down stream or up one of the many tributaries.

Other places farther up the stream had been recommended as sites for the dam, but before the final decision was reached by the Government, Mr. Frank Crowe, a young field engineer, was attracted to Arrowrock. He became interested in the traditions and surroundings of the place, with the result that measurements and tests were made and the spot finally chosen for the dam.

River Sent Through Tunnel.

This meant the obliteration of the old landmark of the Indians, but the substitution of an enduring monument of civilization.

The first work to be done here was to banish the river from the site of the dam while the main work was in progress. This was done by boring a tunnel through the rock at the side, and through this tunnel for 600 feet the river was diverted. The tunnel was large enough to carry the entire river at its highest flood and was lined with cement.

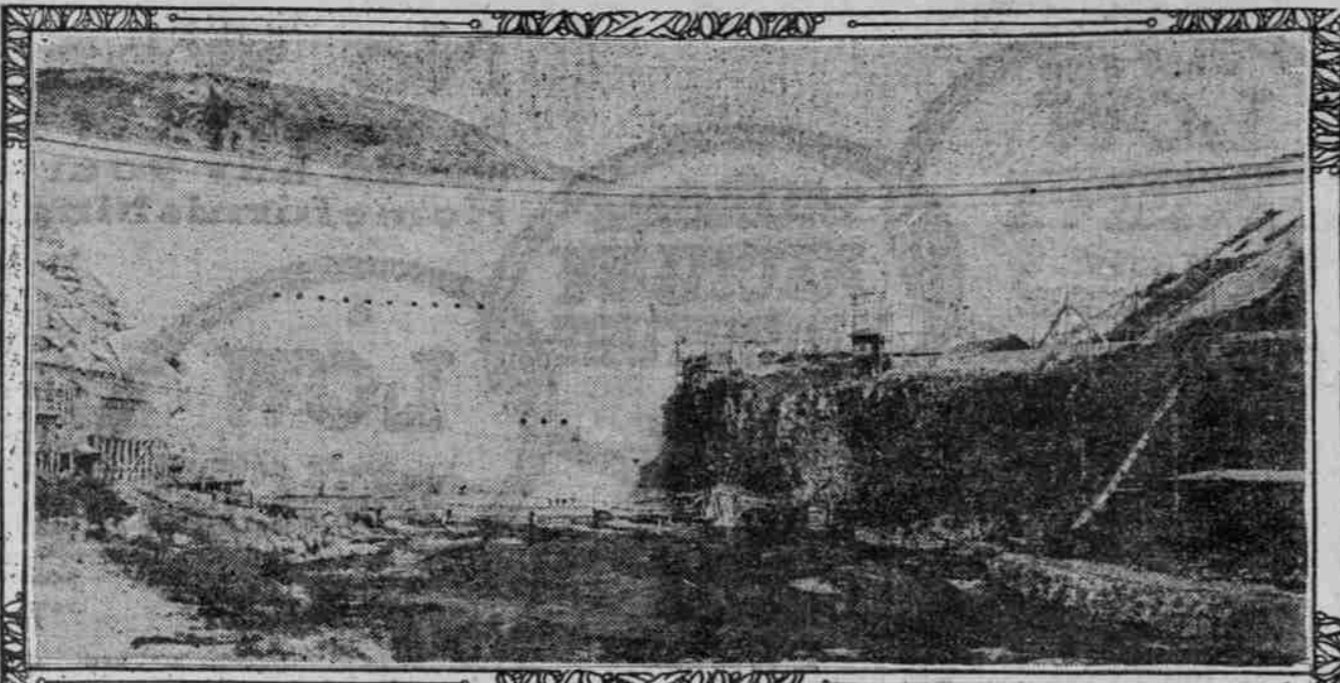
When the dam was completed this tunnel was plugged with solid cement. A coffer dam was planted above the main dam and another below to keep out the water during construction. The idea of what this preliminary work meant may be gleaned from the fact that it was necessary to go down 91.5 feet below the bed of the river to anchor the foundation of the dam in the solid granite.

A model city of 1500 sprang up at once on the banks of the stream. No greater care as to sanitation and other important matters was taken at Panama than at Arrowrock.

The dam stands 348.5 feet high from the low point to the foundation to the crest. Its thickness at the base is 240 feet, tapering to a width of 16 feet at the top, with a fine driveway here lighted at night with artistic electric lamps. The length of the dam is 1060 feet, curving gracefully upstream with a radius of 662 feet. In the construction of this dam 536,000 cubic yards of cement was used.

An important accessory to the dam is the spillway at the side to dispose of the surplus water when the reservoir is full. This has a length of 402 feet

GREAT ARROWROCK DAM, WHOSE COMPLETION IDAHO WILL CELEBRATE



Arrowrock Dam Near Boise, Idaho, The Highest In The World 348.5 Feet.



Comparison Between Arrowrock Dam Boise Idaho 348.5 Feet High, And Flatiron Building New York, N.Y., 286 Feet High.

STAPLES SELLING LOWER

SEVERAL COMMODITIES SHOW DECLINE COMPARED WITH YEAR AGO.

Of 17 Articles of Food Purchased by Washington State Board, Three Are Higher and One the Same.

OLYMPIA, Wash., Sept. 25.—(Special.)—Prices of the principal items going to make up the cost of subsistence have declined materially in the year since the European war has been in progress, the Washington Board of Control has found, in completing its semi-annual purchases of supplies for all state institutions.

When purchases were made last September it was found that the price of practically every commodity had taken a sharp increase. Decreases in some items were notable last March, but the completion of the year has resulted in prices coming down practically all along the line.

Of 17 articles of food purchased by the state in large quantities, only three show increases as compared with the price of a year ago; one item has remained stationary and 13 show decreases.

The following statement, prepared by the Board, shows the prices on purchases of these items for the Western Hospital for Insane at Steilacoom, all quotations being for delivery at the institution:

Commodity	1914.	1915.
Beef	105	98
Mutton	105	98
Pork	105	98
Ham	125	144
Salmon	98	92
Butter	28	26
Eggs	14	12
Flour	4	3
Cheese	48	45
Wheat	1	1
Corn meal	1	1
Wheat	1	1
White beans	1	1
Dried apples	1	1
Tea	1	1
Coffee	1	1

*Per barrel.

PAVING PAYMENT DENIED

WASHINGTON OFFICIALS TO PROBE ALLEGED COMBINE.

Warren Brothers Said to Have Stiffed Competition by Giving Preferential Rate.

OLYMPIA, Wash., Sept. 25.—(Special.)—State Highway Commissioner Roy and State Auditor Clausen have definitely declined, on advice of Attorney-General Tanner, to approve a \$25,200 estimate and issue warrants for this amount on Pierce County permanent highway work and are withholding, pending further investigation, payment of claims totaling an additional \$109,000.

The refusal to pay these claims is the result of discovery of an alleged "secret agreement" between the contractor, the Washington Paving Company, and the Warren Bros. Company, owner of patents upon forms of paving, whereby the Washington company is enabled to underbid competitors, obtaining materials at a favored price in court action, which is to follow shortly. It is anticipated that the entire history of the management of paving business on the Pacific Coast will be opened to inspection, in connection with alleged extortionate profits which owners of paving patents

NORTH BEND HAS FIRE

THEATER AND ROOMING-HOUSE SUFFER \$4000 DAMAGE.

Women's Trunks and Clothing Are Thrown From Second Floor of Building and Some Lost.

MARSHFIELD, Or., Sept. 25.—(Special.)—What promised to be a disastrous fire broke out in the Grissen building, North Bend, tonight, and spread to the Joy Theater adjoining and communicated to the Joy rooming-house, which occupied the second story over the Joy Theater, and the Dolan building, the first floor of which is occupied by the Woolen Mill store. The damage amounted to about \$4000, including chairs in the theater, furniture and personal effects in the rooming-house.

The flames ate into the second story and threatened the Oregon Hotel, about 50 feet from the rear of the building. Had it not been for the Marshfield combination fire truck, which was called to the rescue, the fire would have eaten its way to Washington street, two-thirds of a block distant. The rooming-house was largely inhabited by women, their clothing and trunks were thrown from the second story to the pavement, where much of it was lost.

The fire started shortly after the motion picture show opened and there were about 60 people inside, all of whom escaped safely. One or two rooms had to be awakened and informed of the fire.

Mrs. Cline, proprietress of the rooming-house, lost \$1000, covered by insurance. The Grissen building is owned by Mrs. Jennie Grissen, of McMinnville. Only the back portions of the buildings were damaged. Manager Denny Hull, of the Joy Theater, saved all his property, with the exception of chairs, and will reopen in another building Sunday night. The Woolen Mill store had only a slight loss.

GRADUATE OF UNIVERSITY OF CHICAGO TAKES UP ALBANY COLLEGE DUTIES.



ALBANY, Or., Sept. 25.—(Special.)—Miss Jane Mullenbach, of Chicago, has begun her work as a member of the faculty of Albany College. She has the chair of German, succeeding Miss Laura Anderson, who resigned at the end of the last school year.

Miss Mullenbach is a graduate of the University of Michigan and has studied for two years in Germany. She has a master's degree from the University of Chicago also. For the past six years she has been a member of the faculty of Alma College, in Michigan, the institution of which President Crooks, of Albany College, will assume the presidency on November 1.

BIG CARNIVAL PLANNED

NORTH BEND TO CELEBRATE COMPLETION OF COOS BAY BRIDGE.

Three Days' Festivities Will Include Outdoor Sports and Mardi Gras Ball.

NORTH BEND, Or., Sept. 25.—(Special.)—A big carnival is planned for next month, to celebrate the completion of the Willamette-Pacific bridge over Coos Bay, about October 8.

A committee appointed to take charge of the celebration is sending out letters reading as follows:

"The executive committee takes great pleasure in announcing herewith a special invitation to yourself and friends to be present at the Willamette-Pacific bridge opening and grand success."

The first day will be known as Convention Day, and a "Good Roads" meeting will occupy a portion of the time, while the second day will be devoted to a parade from Marshfield to Charleston Beach over the new bridge, and the third day celebration will close with a grand masquerade ball.

We shall, more than pleased to welcome you.

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KELSO CITIZENS SEE COWLITZ FAIR

Only Accident to Mar Great Exhibit Occurs at Ball Game at Woodland.

FOUL TIP STRIKES EYE

Mrs. Arthur Bashor, White Watching Kalama Defeat Woodland, Suffers Injury; Fully 1500 See Finale of County Show.

WOODLAND, Wash., Sept. 25.—(Special.)—"Kelso day" at the Cowlitz County Fair was celebrated fittingly here today with 300 enthusiastic citizens from Kelso and vicinity, accompanied by a band.

The only accident which marred one of the most successful county exhibits occurred this afternoon during the progress of the Kalama-Woodland game, when Mrs. Arthur Bashor, wife of a prominent Kelso business man, was struck over the right eye by a foul ball, seriously injuring that member. The physician was compelled to take several stitches. She was taken home tonight. The ball game ended in a victory for Kalama, 19 to 5.

The final day of the Fair was ideal and the grounds were crowded all day, as the gates registering 1500 admissions.

Street Fair Closes Fair.

The Fair closed with a street fair here tonight.

The second day of the Fair yesterday, which was Kalama day, was one of the liveliest that any small town has ever known. There were other visitors from other points in the north end of the county, and also a large attendance from points near Woodland.

The displays in the various departments which had not been completed on the first day, were all in place, and the showing all through was most impressive. The school department could hardly have been excelled for quality, especially in the needlework section and the domestic science.

The stock department attracted most of the attention. The exhibition building all through, however, was crowded to capacity the whole day from 10 o'clock to about 4 in the afternoon.

Judges Mention Paintings.

In judging yesterday afternoon special mention was made of the art exhibit of oil paintings of Captain W. J. Macotta, of Leavenworth, and hand painted china of Mrs. B. L. Hubbell, of Kelso. In the general building the following awards were made: Best exhibit A. H. Bosworth, second, Carl Balhorn, both of Woodland. Best district exhibit, Ariel, Wash. Best general exhibit, Carl Balhorn. Best exhibit farm products, J. S. Larue, Woodland. Best and largest exhibition potatoes, most varieties, E. P. Gorik, Woodland. Best display grains and cereals, E. P. Gorik. Best and largest display cut flowers Mrs. Frank Klager.

The amusement feature of the day was a ball game between the Kalama team and Woodland team. It was one of the best exhibitions of ball ever played in the county. Not until the end of the 11th inning was the game decided, the final score being 8 to 9 in favor of Kalama.

Needlework Is Wonderful.

Among the exhibits were noted many especially fine articles of needlework, among them a silk quilt by Mrs. A. L. Hill, of Kelso, and quilted by P. A. Blue, merchant of Woodland. A crocheted quilt shown by Mrs. Hull, of Kelso, is a wonder, the value being fully \$160.

Judging has been completed in the stock department and the following were the awards: Best Jersey cow, also Guernsey, G. A. Goerik, Woodland; second, H. Lamb; best five dairy cows (for which the splendid site on exhibit by the Cowlitz County Silo Company was awarded), Press Heitman, of Woodland. There were five entries for this prize. Best type of bull, A. W. Scott, Woodland; second, J. E. Borwick; best yearling heifer, also second best, J. S. Larue, Woodland; best Durham cow, H. Lamb; best Holstein cow, A. Youngstrom; second, P. Heitman; best Durham cow, H. Lamb; best yearling bull, A. E. Morgan; best Hereford cow, P. Whalen; also second; best beef steer, P. Whalen; best heifer calf, P. Whalen; best bull calf, P. Whalen; best Hereford bull, P. Whalen; best Holstein calf, A. Youngstrom; best Angora goats, Clinton Barrett; best pen Duroc Jersey hogs, H. A. Lamb; second, E. P. Goerik; best Duroc boar, A. B. Woolridge; second, H. A. Lamb; Chester White sow and pigs, A. Youngstrom; Duroc sow and pigs, E. P. Goerik; yearling colt, E. Allen, first and second; brood mare, A. H. Beagle; second, E. W. Hards; best stallion, A. H. Beagle, first and second; best team, A. H. Beagle; second, D. Dyck; yearling colt, D. Dyck; suckling colt, D. Dyck; best standard bred stallion, Charles Wilson.

There were 19 horses, 52 cows and six pens of hogs exhibited.

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OREGON COLLEGE LISTED

Corvallis School Up to Standard of Pharmaceutical Requirements.

OREGON AGRICULTURAL COLLEGE, Corvallis, Sept. 25.—(Special.)—The American conference of pharmaceutical faculties has announced the admission of the Oregon Agricultural College pharmacy department to membership in the National organization. This was necessary to meet the requirements of the Oregon State Board of Pharmacy that after January 1, 1916, all candidates for examination as registered pharmacists or assistant pharmacists must have attended at least one year of college recognized by the American conference, and that after January 1, 1917, the candidates must be graduates of a college recognized by the conference.

Graduates of pharmacy at Oregon Agricultural College will be eligible to enter these examinations.

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