

Phases of the Industrial Growth in the Pacific Northwest

ACTIVE SEASON IN BAKER MINES

Several Old Properties Will Be Reopened and Others Improved.

NEW RAILROAD PROJECTS

Lines Are Being Constructed and Others Planned Which Will Facilitate Shipment of Ore in Eastern Oregon.

IRRIGATION FOR CROPS IN VALLEY

FIGURES ON COST LACKING

GRANTS PASS BOOK ISSUES

WE'LL PAY THE TAXES

THAT IS NOT ALL

agement of F. E. Pearce, which is not doing much but surface work this summer, waiting for the railroad, which is now under construction.

In Baker County there will be large crops this year, as there are much more land under cultivation and many more miles of irrigation ditches than ever before in the history of the county. Fruits promise not so well as usual, as the late frosts in April nipped the buds. But vegetables will be abundant in all sections of the county. It is thought the peaches of Snake River will produce abundantly, and they are of the finest varieties.

Arid Land Made Fertile.

Surrounding Echo, a little station on the main line of the O. R. & N. Railroad, about 27 miles west of Pendleton, is a large body of what was once sagebrush land, the home of the rabbit only. Now capital has built many miles of irrigation ditches, taking the water from the Umatilla River, and thousands of acres have been redeemed and are readily selling at high prices to Eastern farmers who are tired of the uncertainty of crops in Kansas, Nebraska and Oklahoma. These irrigated lands near Echo produce three crops of alfalfa each season, and alfalfa now is a better product than the output of some of the copper mines in Baker County.

Much activity is also noticeable in railroad circles in Eastern Oregon. In Baker County, the Oregon Short Line is building the long-talked-of line of road down Snake River on the Oregon side, formerly known as the Northwest Railway, now the Snake River Railroad. The contractors are under bonds to have the line built as far as the Iron Dyke by January

IRRIGATION FOR CROPS IN VALLEY

Experiments Show Increased Yields—Valuable in Producing Forage.

FIGURES ON COST LACKING

Work of Government Incomplete, Yet Reports Satisfactory in Proving Possibilities of Adding to Farmers' Profits.

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corn was harvested in October and showed the following results in yield of green fodder per acre:

Corn, unirrigated, 5647 pounds.
Corn, irrigated once, 7000 pounds.
Corn, irrigated twice, 9668 pounds.
Potatoes given the same treatment showed the following yields per acre:
Potatoes, unirrigated, 2994 pounds.
Potatoes, irrigated once, 4750 pounds.
Potatoes, irrigated twice, 7500 pounds.

Effect on Onions and Hops.

The effect of irrigation upon onions was shown by work conducted by Robert Gellatly, a market gardener, of Philomath. The water was secured from ditches by gravity flow and the amount applied during the season was 3.51 feet. The harvest showed that from 24 rows unirrigated the yield was 245 pounds, while from the same number of rows of equal length, irrigated, the yield was 850 pounds. The increase was not only total in quantity, but in size and quality of the onions. Oswald West, who has a hop-yard at Corvallis, furnishes the information as to the effects of irrigation upon hops. He irrigated part of his hop-yard by means of a four-inch line, the water being pumped by a six-horse power gasoline engine, pumping the water to a height of 20 feet and discharging into an 800-foot flume which conducted the water to the yard. Furrows were plowed alongside the hop rows for the water to run in through the yard. The cost of gasoline for the season was \$1.25. About 13 acres of a 25-acre yard was irrigated for a period of about 15 days in July and August. Apparently the crop from the irrigated portion was not harvested separate from that on the unirrigated portion, for no separate results are given. The yard produced 800 pounds per acre in 1906 and 1150 pounds per acre in 1907, the crop on the unirrigated portion being estimated at about the same as in 1906.

Clover Hay Experiments.

G. R. Bagley, of Hillsboro, conducted experiments in the use of water on vetch and clover crops. The land had been cropped with grain for years and an artificial hard-pan had formed at a depth of about 8 to 10 inches. In preparing the ground it was subsoiled to a depth of 15 to 20 inches. Vetch and oats were sown in November and red clover was sown in February. The vetch and clover crops were cut on July 5. Between July 10 and 25 water was applied from a gravity ditch and 52 days later the clover on the subsoiled land had grown to a height of three feet, and that on the irrigated portion to a height of 10 inches. The crops were used for feeding during the months of August, September, October and part of November. Two pairs of irrigated land a second crop of clover was harvested. No accurate weights were secured, but it is estimated by Mr. Bagley that from the tract of eight acres he took 20 tons of vetch hay, 100 tons of green clover, four and one-half tons of clover hay and eight tons of clover silage, besides having a mulch crop left 6 to 10 inches high. Mr. Bagley says this is the only instance within his knowledge in which clover was harvested the same season it was seeded. The irrigation required only the work of one man for not to exceed 30 cents per acre.

MAKES TOPOGRAPHIC SURVEYS

State Engineer Ascertaining Fitness of Oregon Lands for Irrigation.

SALEM, Or., June 28.—(Special Correspondence.)—Now that irrigation experiments are being conducted in the Willamette Valley, the United States Geological Survey, in co-operation with the state engineer of Oregon, has begun a topographic survey of the valley for the purpose of mapping the lands and ascertaining the fitness of their location for irrigation in the wet season.

Resume Work on Road.

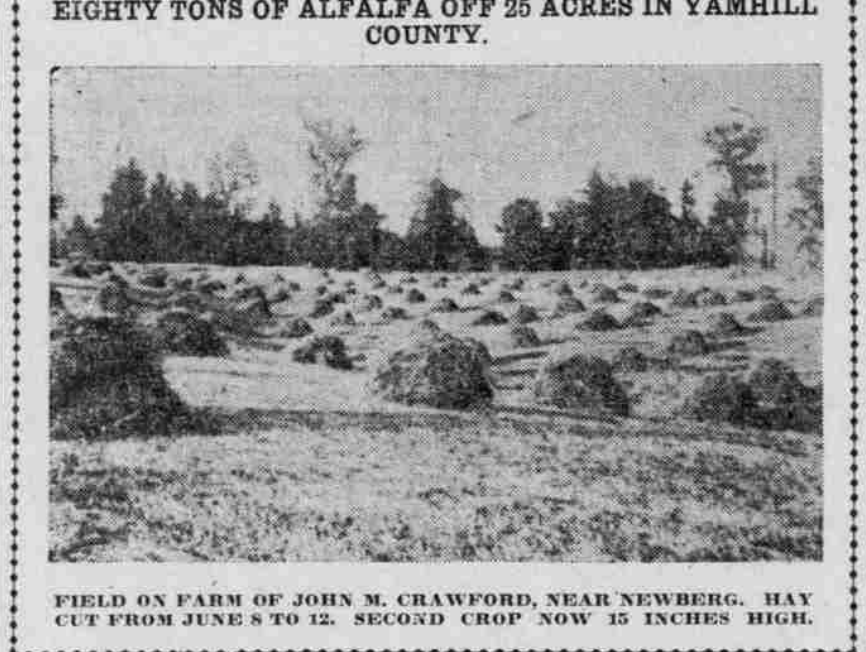
HILLSBORO, Or., June 28.—(Special.)—Several contractors lately have been looking over the work on the Pacific Railway & Navigation between this point and Tillamook, and present indications are that construction is soon to be resumed. The road is completed for about 20 miles out from this point, and six months' uninterrupted work would complete the grade and bridge building into Tillamook.

Oregon Electric Near Hillsboro.

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Fine New Hotel for Vale.

VALE, Or., June 28.—(Special.)—The new hotel at Vale is rapidly nearing completion, and is expected to be open for business August 1. F. L. Johnson, of San Francisco, has secured a lease of the building for a term of years. There are 85 rooms, with hot and cold water in each room, electric



EIGHTY TONS OF ALFALFA OFF 25 ACRES IN YAMHILL COUNTY.

CULT ON FARM OF JOHN M. CRAWFORD, NEAR NEWBERG. HAY CUT FROM JUNE 12. SECOND CROP NOW 15 INCHES HIGH.

next. This will give an outlet by rail for all the ores of the mines of the Seven Devils section of Idaho and the mines of the Oregon side of the Snake, even those in the Cornucopia district. It is said that an electric road will be built from the Snake River, at Iron Dyke, to Pine, which will lessen the haul by team from Cornucopia.

W. L. Vinson has finally floated the scheme of building a narrow-gauge railroad from Baker City to Eagle Valley and on through to Pine and perhaps eventually to the Snake River. The name of the road is the Eagle Valley Railway Company. A Cincinnati syndicate furnished the money for building the first 25 miles.

Another scheme talked of in Baker City is the building of an electric road from Baker City, skirting the hills to the west, thence through the little town of Haines back to Baker City through the rich Missouri Flat farming country.

CREAMERY FOR CLATSKANIE

Farmers Sign Contracts for Cream Output of Next Five Years.

CLATSKANIE, Or., June 28.—(Special.)—A meeting of Nebahem Valley farmers was held at Mist, nine miles from here, Tuesday afternoon, to make arrangements for the establishment of a creamery at that place. J. C. Lang, a practical creamery man from Wisconsin, has been working the proposition up among the farmers for the past three weeks and has succeeded in obtaining contracts for five years to take all their cream at within one and one-half cents per pound of the highest market price for butter, they also to put up suitable buildings and furnish the boiler for the operation of the plant. Between 4000 and 5000 gallons of cream are shipped monthly from this district to Portland creameries, and dairying is yet in its infancy.

Newest Effects in Garden Tests.

At Rosenthal's, Seventh and Washington

ordinary seasons are conclusions reached by A. P. Stover, who is in charge of irrigation experiments in this state. The use of irrigation in this part of the state he finds particularly valuable in the production of garden crops and in the growing of forage crops for dairy herds. These tentative conclusions are announced in a report just issued from the United States Department of Agriculture, giving an account of experimental work in Willamette Valley.

To what extent irrigation farming in this valley may be conducted with financial success is a matter not discussed in the report and apparently not very definitely indicated by the experiments. Mr. Stover says that in order to arrive at conclusive results the experiments must be extended over a period of years. His present report is made chiefly for the purpose of showing what progress has been made and encouraging and aiding others to conduct experiments along this line.

Cost and Profit Figures Lacking.

The report is very complete and satisfactory so far as it relates to methods pursued and results attained in the form of increased yields, but it is noticeably wanting in figures with dollar marks before them. The work thus far does not show the relation between cost of irrigation of various crops and the value of the increased yield. This is a matter of detail which will presumably be worked out in the future. Mr. Stover is apparently quite well satisfied that irrigation will pay when resorted to on some kinds of soil and for the production of some kinds of crops. The amount of expense a man will be warranted in incurring in order to irrigate various crops is one of the problems yet to be solved.

Corn, potatoes, onions, hops, clover and vetch are the crops with which the experiments have thus far been conducted. The Agricultural Experiment Station at Corvallis conducted the experimental work in the irrigation of corn and potatoes. By means of a 4-horsepower gasoline engine and a 35-inch centrifugal pump, water was pumped to a height of 15 feet and turned into a flume 700 feet long, which conducted it to ditches in the field. The first irrigation was on June 25, when the corn was three inches high, and the second a month later. The

PULLMAN'S BUILDING BOOM

STRUCTURES COSTING \$423,150 BEING ERECTED.

Six New Buildings on Campus of State Agricultural College in Course of Construction.

STATE COLLEGE, Pullman, Wash., June 27.—(Special.)

The activity in the building of new homes in Pullman and the erection of new college buildings now exceeds any previous record that has been made in this city. There are under construction at the present time \$423,150 worth of new buildings in the town, which numbers between 2000 and 3000 inhabitants.

On the campus of the State College of Washington six new buildings are being erected at the cost of \$322,000, namely, the library and auditorium building, the recitation building, the domestic economy building, a wing to the new veterinary building, a new hydraulic laboratory building and a new farm barn. These buildings, when completed, will add about 100,000 square feet to the floor surface occupied by the Washington State College, nearly doubling its present space.

In the new College Park Addition, recently opened up just south of the campus, \$87,000 is being invested in new buildings. On Faculty Hill residence property costing \$68,950 is being erected. Twenty-five thousand dollars of this amount, however, consists of the cost of the new Methodist Episcopal Church, and \$10,000 of the amount is for a students' clubhouse. On Sunnyside Hill and Military Hill new buildings are being erected at an approximate cost of \$70,000 and one Methodist Hill residence property costing \$2500 is being built. In the business part of the city new buildings and improvements are being made at an approximate cost of \$12,300.

GRANTS PASS BOOK ISSUES

Sets Forth Resources of Great Fruit District Strongly.

GRANTS PASS, Or., June 28.—(Special.)

The Grants Pass Commercial Club has just received from the printers' shop the first installment of its beautiful advertising book, consisting of about 100 pages highly embellished with appropriate pictures portraying the natural resources of the county and the various industries. In the make-up of the book the constant aim kept in view was to obtain pictures that would give a comprehensive idea of lumbering, fruit culture, berry-raising, mining, fishing, stockraising, manufacturing interests and many views of real life, while here and there an occasional picture appears of mountain streams and trails that are delightful and interesting to look upon.

Principal views of the business sections of the city have found ample space, and in an appropriate manner several types of residences have been brought out. All the cuts are clear, well defined and finished in a brown tone so pleasing to the eye that each full page illustration forms a scene fit to be framed. The front page is embellished with the Flame Tokay grape. The back cover is a representation of a river scene characteristic of the Rogue as it is wearing away its solid bed of rock through a canyon of high walls.

Besides the pictures there are many short topics to the point on timber, gold, grapes, fruit, the town, climate, peaches, cherries, vineyards, hop-growing, stock-raising, poultry, lumbering, mining, rents and wages, education and various other interesting items specially written for those seeking information concerning Grants Pass and Rogue River Valley.

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HYDE PARK

THREE THINGS TO REMEMBER IN PORTLAND'S BEST RESIDENCE SECTION

FIVE LOTS GIVEN AWAY

The building of homes is the most important part of developing a new residence section. For this reason, therefore, the THE JACOBS-STINE COMPANY will give away, absolutely without cost, five of the finest lots in HYDE PARK. For further information fill out and mail this coupon at once.

THE JACOBS-STINE CO., 148 Fifth Street.

Gentlemen: Please tell me upon what terms you would give me a lot if I should agree to build a home in HYDE PARK.

Name.....

Address.....

NO INTEREST TO PAY

Interest is the bugbear that keeps a great many people from investing in real estate. It's a genuine bugbear, too. THE JACOBS-STINE COMPANY has found an excellent way of selling real estate with the interest eliminated. They simply refuse to charge it. Send for further particulars, using the coupon.

THE JACOBS-STINE CO., 148 Fifth Street.

Gentlemen: Please send me complete information about prices and terms on lots in HYDE PARK, including your NO-INTEREST PLAN.

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WE'LL PAY THE TAXES

Somebody said that it was cheaper to pay rent than to pay taxes. Somebody was wrong, considering the fact that THE JACOBS-STINE COMPANY has agreed in their contract for sale, to pay all TAXES on HYDE PARK property while you are paying for the property. Learn the whole thing by mailing the accompanying coupon.

THE JACOBS-STINE CO., 148 Fifth Street.

Gentlemen: Will you please mail me a complete set of HYDE PARK literature, also details about your plan to PAY THE TAXES.

Name.....

Address.....

THAT IS NOT ALL

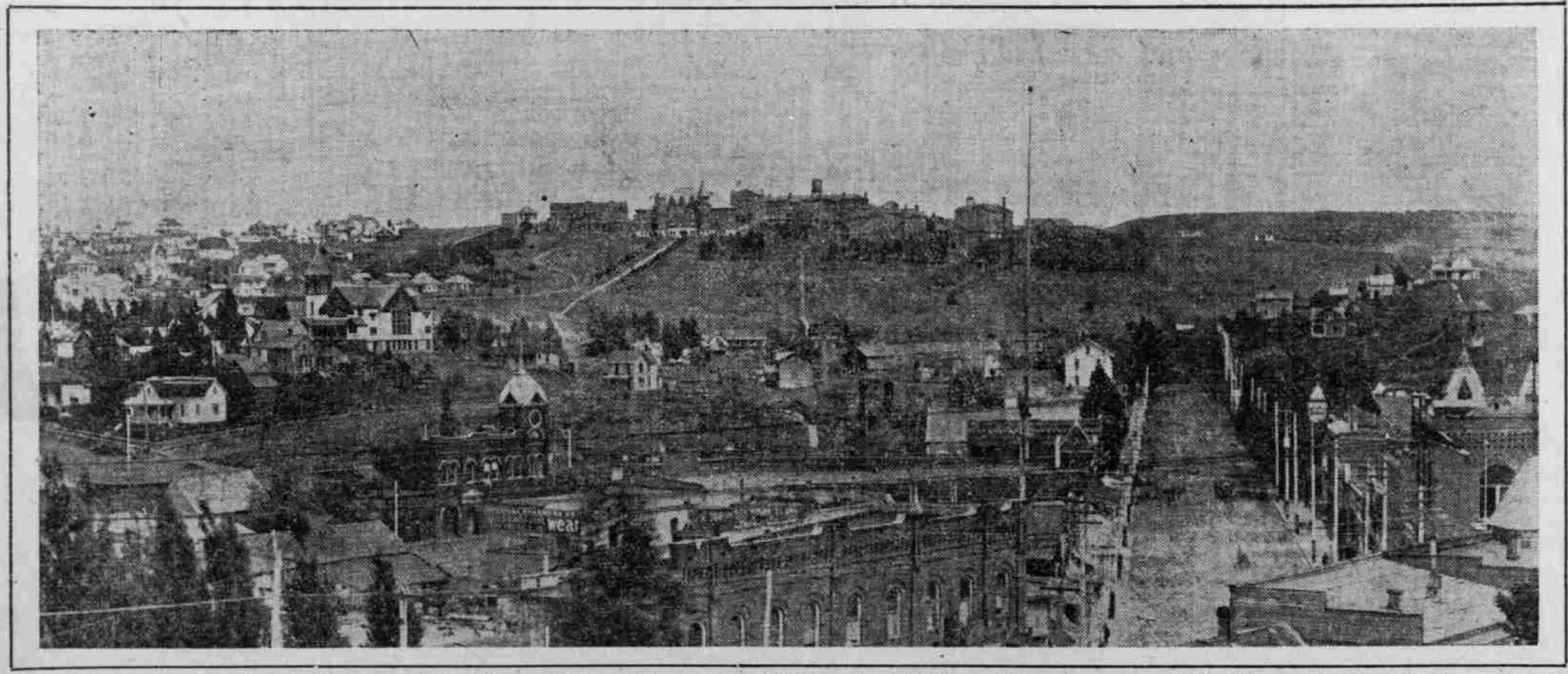
HYDE PARK is being finely improved, including cement walks, curbs, graded streets, Bull Run water, and already has excellent streetcar service. Its elevation is high enough to command a view of the entire West Side. The air is fresh and pure, and as a place for the bringing up of children it is unsurpassed. HYDE PARK is, without exception, the premier suburban residence section of Portland. It is well within the city limits, being only a little over 3 1/2 miles from downtown on the East Ankeny carline. Visit HYDE PARK any day and be satisfied with it.



THE JACOBS-STINE CO.

148 Fifth Street
Portland, Oregon

PULLMAN, WASHINGTON, LOOKING TOWARD THE STATE COLLEGE



To the left of the College buildings is Faculty Hill, on which are being erected \$68,950 worth of buildings. Only a few years ago this hill was planted with sugar beets. To the right of the college buildings is the new College Park addition, on which \$16,700 is now being invested in new homes. The picture was taken a few weeks ago before ground for all the houses was broken.

lights, electric calls and telephones, thermal springs, west of the town. The grill will be one of the best in the Northwest. Hot water from the medicinal baths.

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SPERMATORRHEA, "WEAKNESS," CONTRACTED DISORDERS, SPECIFIC BLOOD POISON, LOST STRENGTH, VARICOCELE, HYDROCELE and STRICTURE and all reflex ailments cured promptly and permanently.

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