

INDUSTRIAL GROWTH IN PACIFIC NORTHWEST

REPORT ISSUED ON
PEACH FRUIT LAND

Conditions in Jackson County
Reviewed in Agricultural
College Pamphlet.

SOIL GIVES BIG YIELDS

Experts of State School Deal With
Best Methods of Planting, Gather-
ing, Packing, Fertiliz-
ing and Shipping.

The orchard survey of Jackson County, Oregon, just completed by the Oregon Agricultural College, contains a mine of practical information as regards orchard-
ing, and is one of the most complete and scientific reports of its kind ever issued. All fruits are discussed from the seedling stage up to the very sale of the fruit, and the intermediate stages of production and handling are covered with the greatest care and accuracy possible.

Fruit varieties, planting, protection, gathering, packing and shipping are topics which are taken up and followed out to their final analysis, and soils, fertilizers, the care of trees, irrigation and all corollary conditions embracing the subject are considered and argued. Plates, photographs and specially prepared tables add to the exhaustiveness with which the college has gone into the subject, and the pamphlet in its scope and variety is a most valuable addition to fruitgrowing literature of the practical sort.

Some of the more important subjects dealt with in the report are contained in the following excerpts:

Pears in Jackson County.

The commercial production of pears in Jackson County began at the same time as that of apples. They being a more perishable fruit, and transportation facilities not being as efficient as at present, there was not so great a demand for this kind of fruit as for apples. The market has developed wonderfully, however, in the last few years, and since 1902 there have been about 100,000 pear trees set out in the county, and about 17 per cent of the total number of pear trees in the valley. Notwithstanding this, the pear industry is still in its infancy, and the growers are not yet able to produce a surplus for export.

Rogue River Valley enjoys the distinction of being the greatest pear-producing district in the Pacific Northwest. Apples as good quality as those of Jackson County may be produced elsewhere, but it is admitted that the flavor and keeping quality of the Rogue River pears have not been duplicated in any other fruit-producing country. There have been larger areas, respectively, of Comice, Bartlett and Bosc, than of any of the other varieties. It is due to the fact that there is such a large demand for Comice that there has been the stride in the planting of this variety. The Comice is a medium-sized tree, very adaptable, but the cause of the demand for Comice being so much greater than that for other varieties, as the Bartlett, is that it is a comparatively new commercial variety, and is a very desirable pear for future planting.

Irrigation Very Important.
Irrigation is an old, tried and very essential practice in the Rogue River Valley. Jackson County, however, its use is comparatively new and still in its infancy. It is believed by many of the growers that better fruit can be produced with the aid of irrigation. Irrigation in the valley has been practiced for four years ago. The water was pumped by an electric motor and the water during the summer months was plentiful. The water was pumped by an electric motor and the water during the summer months was plentiful. The water was pumped by an electric motor and the water during the summer months was plentiful.

Table Showing Yield Per Acre.

	Number of trees per acre	Yield per tree	Total yield per acre
Apples	120	1.25	150
Pears	120	1.25	150
Plums	120	1.25	150

The total yield in boxes is estimated by taking the number of trees per acre, multiplying by the average yield per tree, and multiplying by the average yield per box. This method is based on the fact that the average yield per tree is 1.25 boxes, and the average yield per box is 1.25 boxes.

Prices Paid to Growers.
Today the apples of Rogue River Valley sell upon their merits. They are known the world over and the prices received by the growers indicate the quality of the fruit. When honesty and high grade of packing are practiced, good prices are realized. Table 23 gives the average prices received by the growers of the valley for the past five years, as given by the growers.

Prices Per Box for Five Years.
1903 1904 1905 1906 1907
Apples \$1.25 \$1.25 \$1.25 \$1.25 \$1.25
Pears \$1.25 \$1.25 \$1.25 \$1.25 \$1.25
Plums \$1.25 \$1.25 \$1.25 \$1.25 \$1.25

This table represents the average price of all varieties grown in the valley and sold as first-grade fruit. Certain varieties of apples this past season brought as high as \$2.00 per box. Comice pears as high as \$2.00 per box, peaches when packed in fancy boxes brought \$1.25 per box.

For the second and third years the growers do not receive so much. The majority of the second and third years, however, bring from 50 cents to \$1 per box.

The income per acre of all the bearing apple trees in the valley is approximately \$244.30. After deducting \$80.72 for the expenses from \$244.30, the grower realizes \$163.58 clear profit. This is a very conservative estimate. Some of the growers realize as much as \$194.60 per acre and \$450 to \$600 per acre is quite common.

CHANDLER HOTEL AT MARSHFIELD



RECENTLY COMPLETED AT COST OF \$75,000.

MARSHFIELD, Or., Jan. 31.—(Special.)—Marshfield's new five-story hotel, the Chandler, will be ready for occupancy within a few days. The building is of yellow brick with stone trimmings, and the interior is richly furnished. The building was erected by a local capitalist at a cost of \$75,000.

Pears in Jackson County.

During the past season some very high prices were realized. J. W. Perkins sold a car of Comice pears for \$400, netting \$372. C. H. Lewis, from a block of 20-year-old Bartlett, realized at the rate of \$103.15 net per acre, while a block of Newtowns 20-year-old netted \$124.00 per acre. From 25 acres of Winter Nells pears, F. H. Hopkins netted \$19,000.

The price for apples, especially has undergone a change recently throughout the Northwest. Formerly the large three-tier apple brought the highest price, but in many cases these higher prices were paid in order to obtain certain much-desired four-tier sizes at a reduction.

Today the best prices and greatest demand is for the four-tier sizes. The grower should recognize this change, as it means a better apple both as to quality and shipping. Many of the smaller varieties like Spiter, however, the larger sizes still seem to bring the higher price, but it is probably only a matter of time before the four-tier apple will be the standard, regardless of the variety.

Summary of the Report.
Area.—Commercial orcharding in Jackson County has had a wonderful development in the past 15 years. From a humble beginning consisting of two or three orchards, it has grown until we now find 475 orchards containing 907.6 acres. The average size of a commercial orchard is 2.3 acres.

Cultivation.—Practically 74 per cent of the orchards are given good cultivation, while 98 per cent receive some cultivation. The percentage of good cultivation is not so high as it should be, and there are many orchards that are neglected and those are largely home orchards. There are many types of soil, and the percentage of good cultivation is not so high as it should be, and there are many orchards that are neglected and those are largely home orchards.

Feeding the Soil.—At the present time only 5 per cent of the growers use commercial fertilizers. 5 per cent cover crops, and 70 per cent use stable compost in very limited quantities.

Irrigation.—Only 10 per cent of the growers irrigate, but a much larger percentage are planning to. Water is obtained from Fish Lake ditch. The Rogue River is preferred under normal conditions.

Drainage.—Of the 475 orchards, 30 per cent of these are in need of artificial drainage.

Young Orchards, Remedy Faint.
Setting Young Orchards.—Many of the old orchards were planted too closely, but this has been largely remedied in the younger orchards.

Harbor for Small Craft
Marshfield to Dredge Slough for 300 Gasoline Launches.

MARSHFIELD, Or., Jan. 31.—(Special.)—The Marshfield City Council has on hand a plan for developing Fish Slough, a stream which runs through the city, as a harbor for the gasoline boats of the bay. It is proposed to dredge the slough and a market-place to be provided for the fishermen.

Farmers to Build Warehouse.
COLFAX, Wash., Jan. 31.—(Special.)—Colfax local union, No. 48, of the Farmers' Protective & Co-operative Union has taken capital stock for building a warehouse for the purpose of storing grain. The warehouse is to be built on the O. R. & N. line, and the company will be incorporated and one of the best warehouses in the country will be erected.

River Bartlett, Comice, Bosc, D'Anjou and Winter Nells are world famous, and her Newtown apples are recognized to be among the best in the English market.

The many types of soils found in the county are all in all very good and of a nature to retain the plant food and wear well, but they are generally lacking in humus. Probably one of the best ways of supplying it will be by means of cover crops. A rotation of leguminous crops like clover, alfalfa, peas, potash plants like rye or cowhens, and plants of the nature of rye and oats, will be good in most cases, care being used not to supply the pear orchards with too much nitrogen.

Cultivation is generally carried on extensively. Many of the smaller varieties give better returns if cultivation were carried on as it is in nearly all of the larger commercial orchards. Irrigation is in its infancy, but it is bound to be a factor, especially with apple growing. There is always a danger that the beginner will over-irrigate. He does not realize that he must consider the soil, wood and leaf growth and quality of fruit and not mere quantity and size. With the increase in irrigation more attention should be given to the subject of drainage. At the present time fully 5 per cent of the orchards need drainage and many more would be greatly benefited if it were drained.

Pruning has received a great deal of attention and it is there is one point in which Rogue River orchardists excel it is in pruning.

Systematic Fight Against Pests.
Fungus diseases and insect pests are being systematically combated, but some of the growers would do well to recognize them and understand their proper method of treatment.

The orchards are steadily improving, and many of them that were formerly neglected are being cultivated and better crops are being raised. The peach industry is in poor condition. The owners would do well to organize themselves into a horticultural society and have meetings in which they could discuss such subjects as pruning, spraying, care of soil, fighting frosts, varieties, etc. Until some such body as this takes shape, the growers are left to their own devices and the results that are possible will not be realized.

Golden Dale Realty Active.
GOLDENDALE, Wash., Jan. 31.—(Special.)—Real estate sales are again active in Klickitat County. The various projects are very good and that this county will receive its full share of the immigration to the West during the coming year.

Planes Devour Florida Town.
PENSACOLA, Fla., Jan. 31.—The town of Milton, 30 miles east of Pensacola, was destroyed by fire today. Loss \$300,000.

Webfoot Oil Blacking Keeps feet dry. Makes shoes last. All dealers.

Harris Trunk Co. Last week of sale.

THE POTTER SANTA BARBARA
AMERICAN PLAN ONLY

SINGLE HAS DOUBLE
\$4.00 SQUAB RANCH \$7.00
\$5.00 LIVESTOCK FARM \$9.00
\$6.00 POULTRY RANCHES \$11.00
\$7.00 VEGETABLE GARDENS \$12.00
\$8.00 PRIVATE COUNTRY CLUB \$13.00
RACE TRACK AND POLO GROUNDS
PRIVATE LIVERY, WIRELESS TELEGRAPH
ART GALLERY AND PICTURE GALLERY
GOOD TABLE, GOOD LIVING, CHEERFUL SERVICE
RATES GRADUATED TO ALL REASONABLE REQUIREMENTS
ACCOMMODATIONS FOR ONE THOUSAND GUESTS
ARTESIAN WELL AND REFRIGERATING PLANT
CONSERVATORIES AND GREENHOUSES
A WHOLE MILE OF GERANIUMS
OPEN ALL THE YEAR ROUND
30,000 FINE ROSEBUSHES

WE PRODUCE CHILDREN'S GROVE NO BETTER
ALL OF OUR ZOO, 50,000 TABLE ON
OWN STAPLE PIGEONS THE WHOLE
DELICACIES AND PACIFIC COAST
Would Be Pleased to Send You Booklet.
Booklet and full information at
Free Stop-over Privileges on Route Between San Francisco and Los Angeles.
Peck-Judith Co., 301 Oak St.,
Commercial Club Bldg.

JETTY IS NEEDED

Tillamook Interests Ask Con-
gress for Appropriation.

COUNTY IS KEPT DOWN

Conditions at Mouth of Bay Pre-
clude Entrance of All Except
Small Boats—Country's Re-
sources Can't Be Marketed.

TILLAMOOK, Or., Jan. 31.—(Special.)—As there is great interest taken in the improvement of Tillamook bay, and especially as the large timber-owners are making an effort to obtain an appropriation for this, the Tillamook Development League and the Bay City Board of Trade have drawn up a joint memorial to Congress, signed by all the commercial, manufacturing and transportation interests of the county.

The memorial urges Congress, at its present session, to appropriate a sufficient sum of money to enable the United States Engineers' Department to begin the construction of a jetty at the mouth of Tillamook Bay, substantially as set out in the report of Major Langitt to the Chief of Engineers, dated April 13, 1903. In this report Major Langitt estimated the cost of both the north and south jetties that would maintain a channel of 20 feet across the bar at low tide to be a little under \$1,500,000. These jetties would insure a straight channel from the bay to the ocean, of sufficient depth to accommodate the rapidly-growing commerce of this district for many years to come.

Tillamook Bay reaches the ocean through a gorge some 700 feet wide at the upper or bay end, carrying a maximum depth of 60 feet. The channel approaches the ocean, however, it broadens and shoals, so that at this time it is not more than 18 feet deep at ordinary high tide. The bottom of this channel and the bays extending north and south on either side of the mouth of the bay are composed of fine, gray sand, susceptible to the action of wind and waves.

The prevailing winds of late Spring and Summer are from the northwest; during the remainder of the year from the south and southwest, and in the late Fall and Winter seasons severe northerly storms are not uncommon. The general result is a shifting of the bar channel to the northward in Winter and southward in Summer with a considerable variation in depth as well as location of the channel. It frequently happens that severe storms change the location of the outlet from the bay to the ocean, and a sand spit is formed extending from the south side of the entrance, deflecting the channel to the north, and at the same time shoaling it.

During such periods only small vessels can cross, and then at great risk, for they must generally contend with adverse winds, close to a lee shore and broadside to the ocean waves.

The assessed valuation of the county for the year 1908 is about \$1,500,000, and tributary to Tillamook Bay there is a beach of 200,000,000 and \$100,000,000 foot-board measure, of standing timber, roughly estimated at \$50,000,000. In the present condition of the bar, nothing can be done to the timber except to enter, which carry only 250,000 feet of lumber, and these are too small to make a long voyage profitable, so the commerce of Tillamook Bay is paralyzed by lack of a bar channel.

The general Government has received from the sales of public lands in this county a sum of \$1,000,000, and has in this timber an enormous wealth-producing asset now lying dormant, because of the difficulty of getting it to market. Friends of the county are hopeful that the Government will begin the work of building the jetties at the Tillamook bar as prayed for in the memorial.

CHANGE IN SAILING
S. S. "Breakwater."
The steamer Breakwater, for Coos Bay, will sail from Astoria for Portland, Monday night, February 1, at 8 o'clock.

ANNOUNCEMENTS.
Dr. Horn, the oculist, 3d floor Sweetland bldg., guarantees satisfaction or money refunded. No fancy prices.

Double-sole shoes keep your feet dry. Special sale prices at Rosenhals's.

A NEW DEPARTURE.
The cost of interments has been greatly reduced by the Holman Undertaking Company.

RECORD SNOWFALL AT ALBANY.
ALBANY, Or., Jan. 31.—(Special.)—The total snowfall at Albany in January was 8.6 inches and the total snowfall, as recorded by F. M. French, United States weather observer, was 20.4 inches. This is the record snowfall for 34 years. The maximum temperature during the month was 57 degrees above zero and the minimum was 3 degrees below zero, the lowest mark recorded here since 1875.

PIANO CLEARANCE STARTS TODAY AT EILERS PIANO HOUSE

ASK FOR DIAMOND BRAND PORTLAND CEMENT

TRAVELERS' GUIDE
SAN FRANCISCO & PORTLAND S. S. CO.
Only direct steamer, and daylight sailing. From Astoria, dock, Portland, 4 P. M.:
SS. Senator, Feb. 5, 10, etc.
SS. Rose City, Feb. 12, 26, etc.
From Portland, dock, San Francisco, 11 A. M.:
SS. Senator, Feb. 6, 20, etc.
SS. Rose City, Feb. 13, 27, etc.
W. R. HANSEN, Dock Agent.
M. J. ROCHIE, City Ticket Agent, 147 3d St.
Phone Main 462, A 1402.

North Pacific S. S. Co's. Steamship
Koonaka and Geo. W. Elder
Sail for Eureka, San Francisco and Los Angeles direct every Thursday at 8 P. M. Ticket office 132 Third St., near Alder. Both phones, M. 1314. H. Young, Agent.

COOS BAY LINE
The steamer BREAKWATER leaves Portland Monday, 8 P. M., February 1, from the Coos Bay dock, for Coos Bay, Eureka and Coos Bay points. Freight received till 4 P. M. on day of sailing. Passenger fare, first-class, \$10; second-class, \$7. Including bath and meals. Inquire city ticket office, Third and Washington streets, 22 Astoria Rock. Phone Main 208.

CANADIAN PACIFIC
Weekly sailing Montreal-Quebec to Liverpool. Two days on the majestic St. Lawrence and only four days at sea. Write for Summer sailing list and booklet. F. R. JOHNSON, P. O. 142 Third Street, Portland, Or.

6% 10-YEAR 6%
BONDSFor Sale—\$100,000 Worth of
PORTLAND IRRIGATION COMPANY BONDS

After two years, these bonds will be taken by the company in payment for irrigated land, with perpetual water right at \$35 per acre, if bondholder desires. Bonds to be paid for as follows: 20 per cent down, balance in eight equal quarterly installments. See us for full information.

MOORE INVESTMENT COMPANY

Lafayette Bldg., Cor. Sixth and Washington Sts. Portland, Or.

ST. JOHN SHOWS GROWTH

MORE BUILDING GOING ON
THAN IN YEARS.

Several Concerns Have Made In-
quiry for Factory Sites to
Build Plants.

ST. JOHN, Or., Jan. 31.—(Special.)—St. John is showing many signs of increased prosperity. With the building of two large schoolhouses, a Knights of Pythias hall to cost \$12,000, a \$40,000 city dock and large brick blocks by the Home Telephone Company and W. H. King, in addition to the usual grist of dwelling-houses, the business men as it will mean that 1800 families living just over the hills west of the city, will do their trading and market their produce in St. John. The business interests along the waterfront are all in a flourishing condition and are increasing their forces each day.

The establishment of a free ferry will also add much to the income of the business men as it will mean that 1800 families living just over the hills west of the city, will do their trading and market their produce in St. John. The business interests along the waterfront are all in a flourishing condition and are increasing their forces each day.

Many inquiries for factory sites are being made, among the places for a steel tube plant and a paint manufacturing plant. A site for a sheet metal stove works has just been purchased in East St. John.

Hopes for Immediate Release.

ALBANY, Or., Jan. 31.—(Special.)—It is now believed that there will be a full hearing of the murder charge against Charles J. Powell at the preliminary examination to be held at Tuesday afternoon before Justice Swan. It is said that the examination will not be waived, but that the case will be fought out at the preliminary. Friends of Powell are hopeful that he may secure his release without undergoing a trial in the Circuit Court. In addition to Hewitt & Sox, heretofore retained, Powell has secured the services of Wetherford & Wyatt to defend him.

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For Sale by
T. S. McGrath
Lumber Exchange
PORTLAND, OR.

MILO M. POTTER, Mgr.

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AMERICAN PLAN ONLY

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