



THE STATE OF OREGON

Resources of An Empire in the Pacific Northwest.

ETCH OF ITS PROGRESS AND DEVELOPMENT

Culture the Prime Factor in Its Steady and Remarkable Prosperity.

T EXTENT OF LUMBER AND MINERAL INDUSTRIES

ome of Stock-Raising and Wool-Growing—Fisheries—Hops—Unrivalled Climate and Fertile Soil—Rivers, Harbors and Water Courses.

REGON is the most westerly state of the Union, except Washington, and is bounded by the Pacific Ocean on the west, by the States of California, Idaho, and Montana on the north, by the States of Washington, Oregon, California, and Nevada on the south, by the States of California, Idaho, and Nevada on the east, and by the States of California, Idaho, and Nevada on the south. It is bounded by the Pacific Ocean on the west, by the States of California, Idaho, and Montana on the north, by the States of Washington, Oregon, California, and Nevada on the south, by the States of California, Idaho, and Nevada on the east, and by the States of California, Idaho, and Nevada on the south.

ing influences, the thermometer's greatest change is from zero in winter to 100 degrees above zero in summer. The great primary climatic influence of this region is the Japan current of the Pacific ocean. Warm winds laden with moisture, sweep the ocean, and precipitate their contents first on the coast, where the downfall is greatest, varying from 50 to 75 inches per annum. The moisture still contained in clouds after they cross the coast range is deposited in the Willamette valley, the average at Portland being 40 inches annually. As Ashland, in the south, where the elevation is much greater than in Portland, the average is only 21 inches. When the winds have passed the Cascades to Eastern Oregon, but little moisture remains for that section, the extreme fall for a year being less than 20 inches.

Along the Oregon coast the average temperature in winter is from 30 to 50 degrees, and in summer from 50 to 80 degrees. The average between the coast and Cascade ranges during winter are from 15 to 60 degrees, and in summer from 50 to 90 degrees. It is only on rare occasions that the thermometer passes out of these limits. In the Willamette valley the lowest recorded temperature was in January, 1888, when the thermometer was 2 degrees below zero, and the highest temperature was in July, 1891, when it was 100 degrees. The duration of extreme weather is either hot or cold, is ordinarily very short, never over three days. During the past summer the average warm weather was higher than usual, the thermometer being 50 degrees. On the whole, physical discomfort from stress of weather of any kind in Oregon is exceptional.

MEAN TEMPERATURE. 1871...69 1872...68 1873...67 1874...66 1875...65 1876...64 1877...63 1878...62 1879...61 1880...60 1881...59 1882...58 1883...57 1884...56 1885...55 1886...54 1887...53 1888...52 1889...51 1890...50 1891...49 1892...48 1893...47 1894...46 1895...45

On the coast of Oregon are nine inlets from the sea including the Columbia river. Three of these are navigable to deep-sea vessels. Others can be entered by vessels of lighter draught. The entire state is traversed by a multitude of water-courses. The Columbia river forms the northern boundary of the state. All the valleys and lowlands are drained by streams of greater or less magnitude, some of them navigable for steamers. The mountains are covered with timber and the valleys are fertile. The climate is generally healthy, and the soil is rich. The state is well adapted for agriculture and stock-raising.

CLIMATE AND SOIL. A Combination That Insures Health and Abundant Crops. CLIMATIC conditions in Oregon present great variety within an area comparatively limited. The typical features of the climate of Western Oregon consist of mild winters and a protracted rainless season in summer. In other words there are two distinct seasons in Oregon—winter and dry. Snows in winter and rains in summer are exceptional. In Eastern Oregon the climate more nearly approaches conditions in Eastern states. There are not the same extremes, but there are the same features of winter snow and, in places, of summer heat. Southern Oregon is more like Eastern Oregon. The distinguishing characteristics of Western Oregon are its equability and healthfulness. The state is in the same latitude as Maine, but there is entire absence of the rigors of winter suffered in the Pine Tree state. Owing to modify-

the divers currents of air mingling with breezes from the Pacific, contagious and epidemic diseases are easily controlled, while such diseases as typhoid and cholera are wholly unknown. Even typhoid forms of malaria are easily regulated. The climate west of the Cascades is generally damp for consumption, but on the plateau of Eastern Oregon conditions are most favorable to the improvement and even cure of this class of invalids. The common valley soil of Oregon is a rich loam, the composition of which the streams it is alluvial. The "beaver-dam lands" of this class are wonderfully fertile. This soil is made through the work of beavers who dammed up streams and created lakes. When the water was drained away, the detritus covered the ground. The soil of the uplands is less fertile than that of the bottoms and valleys, and is red, brown and black loam. It produces an excellent quality of natural grass, and under careful cultivation produces good crops of grain and vegetables. East of the Cascade mountains the soil is a dark loam of great depth, composed of alluvial deposits and decomposed lava, overlying a bed of basalt. The composition of this soil adapts the land peculiarly to the production of wheat. All the mineral salts which are necessary to the perfect development of vegetation are contained in the soil, and are retained in it by the moisture from the atmosphere, after the particles have been partially disintegrated to insure perfect development of the plants.

THE STATE'S LEADING DIVISIONS. The Willamette Valley a Great Garden-Fertility of Eastern Oregon. HE two leading divisions of the state are the Willamette valley and Eastern Oregon. The Willamette valley, the largest and most fertile, extends from the base of the Coast Range to the mouth of the Columbia river. It is bounded on the north by the Coast Range, on the west by the Coast Range, on the east by the Coast Range, and on the south by the Coast Range. It is bounded on the north by the Coast Range, on the west by the Coast Range, on the east by the Coast Range, and on the south by the Coast Range.

RIVERS AND HARBORS. The Great Water-Courses of the State. HE water-courses of Oregon are numerous and of great value. The Columbia river is the largest and most important, extending from the base of the Coast Range to the mouth of the Columbia river. It is bounded on the north by the Coast Range, on the west by the Coast Range, on the east by the Coast Range, and on the south by the Coast Range. It is bounded on the north by the Coast Range, on the west by the Coast Range, on the east by the Coast Range, and on the south by the Coast Range.

displacing old methods, and will be the rule in the future. Eastern Oregon in extent takes up about two-thirds of the superficial area of the state, and comprises all that region east of the Cascade mountains, except the important counties of Klamath and Lake, which are commonly assigned to Southern Oregon. Its average elevation above the sea level is 2500 feet. Its surface presents a variety of topography and of climate. The territory in the northern part of this great region is exactly much like that of the Blue mountains and spurs with their accompanying valleys. These latter are very productive, having ample rainfall and a climate of moderate extremes, either in winter or summer. The southwestern portion of the section, notably that lying south of Malheur river, is drier and less fertile. It is expected that the government will shortly reserve 1,000,000 acres of this land for the uses of the state under conditions that offer inducement for settlement and cultivation. The northern central portion is much broken by mountains, which afford good pasturage, and which have beside them extensive agricultural regions. The southern central section is the Harney lake region, a leading grazing portion of the state. It is a vast rolling prairie, and is one of the richest meadows of luxuriant and nutritious grasses. Mining for precious metals is an important industry of this immense region.

Southern Oregon takes up about one-fifth of the state. That part near the coast has the same characteristics of climate and climate as the northern Oregon. Other parts, compassed about with mountains, are drier in summer and colder in winter than Western Oregon. The mountainous region of the Rogue river and Umpqua. The Rogue river valley is about 25 miles long and 30 miles wide on an average. Its soil is rich and fertile, and is well adapted for agriculture. The chief industry is horticulture. All kinds of temperate-zone and semi-tropical fruits are produced in abundance, peaches and apples being the most important. Near Jacksonville there are vineyards that rival those of California. The Umpqua valley lying between the Rogue river and the Willamette valleys, is adapted to fruit culture. Cereals thrive well, but their culture is not so generally pursued as in the larger valley to the north. Stock and poultry raising and wool-growing are leading industries.

The Snake river forms a part of the eastern boundary of the state, and is a main feature of the Columbia. It has been navigated by the citizens of Oregon since 1811. It is navigable to the mouth of the Snake river, a distance of 112 miles. For the purpose of maintaining uninterrupted navigation, a Port of Portland commission was established by a recent act of legislature, through the efforts of the citizens of Oregon. Each of its tributaries is navigable. Each with its windings is about 20 miles long. In Northeastern Oregon are the Powder, Grand Ronde and Umatilla rivers, all clear and swift streams, watering large areas of fertile valley lands. The Owyhee and Malheur rivers traverse Southeastern Oregon. The former rises 20 miles southward in Nevada, and empties into the Snake where that river becomes the Eastern Oregon line. The rivers and their multitude of tributaries of Oregon, and an infinity of springs, cover the entire state so completely that scarcely a square mile (except in the limited arid region) escapes their touch. Their scenic attractions are very great. There is a very large number of waterfalls, affording unlimited water-power and in many cases spectacles of rare beauty. The mountain streams are navigable in the variety of their charm. They abound in trout and other fish, and are a source of unfailing delight to the fisherman and the sojourner, as well as the sportsman. The waterfalls and streams and rivers have been a highly useful factor in the development of the state.

The favorable conjunction of soil and climate have insured successful cultivation every year since the first settlement, and a failure through drought, pest or any other cause has never been recorded. The arable area of the state is very large, and there is little land, outside the mountains, that will not yield some kind of a crop—wheat, barley, hops, rye, oats, hay, pasture, fruit, or vegetables, or timber, or mines. There is little waste land. Another time in Oregon is a protracted season, continuing even to Christmas, and in the spring from February to May. The harvest may last several months. Threshing is invariably done in the field and grain is stacked in the open air. Oregon is best known throughout the world for its wheat. But it is not a single-crop state, though perhaps some years ago it deserved that appellation. Wheat cultivation has grown steadily, though it has lost its relative importance. The proportionate amount of wheat raised for export in Oregon exceeds, perhaps, the output of any other state. For years Oregon has produced over one ton per year for every man, woman and child within its borders. Horticulture has during the past few years assumed a special importance, and the state is taking rank as a producer of fine fruits, in some particular varieties being superior to California. Oregon prunes are rapidly acquiring the name of being the largest, most delicious and toothsome grown. The large number of premiums awarded to Oregon fruits at the world's fairs, and the high prices they command in culture, its history, condition and prospects are discussed fully in another part of this paper. The sugar beet has during the past years attracted attention, and the early establishment of refineries is anticipated. Experiment has shown that the Oregon beet has commercial value and is especially adapted to sugar-making purposes, possessing a large proportion of saccharine matter. The soil of the state, especially of the bottom lands, is particularly fitted for root vegetables of all common descriptions. The natural grasses are perhaps without equals anywhere. Alfalfa produces three or four crops annually, and in places reaches a height of five or six feet. The clover is of the best, and produces excellent crops. The bean crop is something very fine. Pumpkins and melons are raised in large quantities.

Wheat—as in most other Northern states, wheat is the chief product of Oregon. Farmers during the past two years have secured from their crops more than their fellows in most other states. There have been enormous crops, with no profitable market. The trouble is of course not common to the state, but to the world. The average bushel of Oregon wheat exceeds the 60-pound-to-the-bushel measurement, running from five to nine pounds in excess. The berry is plump and heavy. The straw is strong and the grain is clean. The state produced in 1894 14,000,000 bushels on 700,000 acres—the heaviest crop ever known.

Two-thirds of Oregon's wheat is raised east of the Cascades. The early opening of the Columbia river means much for the farmers of that great region. It is certain to enhance the value of their product. Other Grains—Oats are the staple crop of Oregon. For feed it largely supplants the use of corn, so commonly fed in the Middle West. The production per acre is from 60 to 75 bushels. The average weight per bushel is above the 32-pound standard. Rye and barley are also common crops, and backwheat is raised in limited quantities. Corn thrives well throughout the state, but its cultivation is not generally engaged in, except in Southern Oregon. Flax is grown in many places for export, producing from 400 to 500 pounds of clean fiber per acre. It is an excellent crop to rotate with wheat.

Hops—Within a very few years hops have taken rank as a leading industry. The area of land in this state devoted to culture in the United States is limited, and it has developed that the Pacific coast offers peculiar advantages for profitable production. Parts of Clackamas, Marion, Lincoln, Benton, Polk, Yamhill and Washington counties, in the Willamette valley, are now largely surrendered to this product, with most satisfactory results. The hop culture in Oregon is generally engaged in this district. The advantages of a certain crop, early bearing, vines, large yield, low cost of production, freedom from disease, facilities for securing cheap poles, as well as fuel for drying, and cheap picking. The crop in Oregon averages from 100 to 200 pounds per acre. The hop house has recently appeared, but is kept under thorough control by scientific spraying. The price paid for hops covers a very great range. The average cost of production is not more than 10 cents per pound, and some growers, it is claimed, have reduced this figure to 8 and even 7 cents. The last year the price has been low, due to exceptionally heavy yields throughout the world. It is probable that in the last 10 years the average price to Oregon growers has been at least 20 cents per pound. In 1894 Oregon produced 2,000,000 pounds of hops, against 28,000 bales for 1892.

Vegetables—The variety of vegetables grown is very wide. The list includes potatoes, cabbages, melons, pumpkins, cantaloupes, celery, peas, beans, peapods, asparagus, beets, cauliflower, tomatoes, carrots, radishes, and many others. Garden products include watermelons, cantaloupes, muskmelons, citrons, and so forth. The quality of all these table products is unexceptionable. The quantity produced in a given space is remarkable. It is difficult to give a stated price for land in Oregon. Average farming land, under cultivation, brings 45 to 50 per acre. There are farms for less and for more, depending upon quality, location and other conditions. Railroad and other uncultivated land is to be had at a very low figure. Good fruit lands in Southern Oregon will average from \$100 to \$200 per acre. The average price per acre is generally

AGRICULTURE AND ITS EXTENT. HE industries and prosperity of Oregon are based on its agriculture. The various valleys, table-lands and foothill districts present opportunities for cultivation of the soil exceeded by no other state in the Union. The mild and beneficent climate, allowing engagement in outdoor occupation of some kind every month in the year, is an advantage to the husbandman, and, besides, it aids in the highest degree the growth of abundant crops, and their easy and complete har-