

is furnished by a private corporation at \$1 per 16-candlepower lamp per month. City hall valued at \$15,000. The city owns a pumping plant costing \$5,000, and supplies private families for \$1.25 per month with water of the best quality. The principal industries are lumbering, manufacturing and fishing. During 1914 Seaside has constructed over 20,000 square yards of bitulithic pavement, including concrete curbs and sidewalks throughout the city, and over six miles of trunk sewers. Nearly \$500,000 is the building record for the year, most of the business blocks being of solid concrete. A natatorium, costing \$40,000, built on the beach, and having a salt water tank (40x80), and all modern conveniences for bathers, is among the most important recent improvements. Seaside is one of the principal resorts on the Oregon coast, and its summer population runs as high as 20,000 people. There are abundant opportunities for the development of dairying, farming and manufacturing industries. The city has a sawmill, sash and door factory, a newspaper (The Seaside Signal), and many stores and business houses.

WARRENTON (George Schmidt, Mayor)—Incorporated in 1899. Slightly above sea level; population, 490; assessed valuation, \$481,305. Situated on the line of the Spokane, Portland & Seattle railroad, six miles west of Astoria. The north channel of the Columbia River is the northern boundary of the city. Has two schools, nine merchandise stores, hotel, restaurant, rooming and boarding house, two churches, Episcopal and Methodist Episcopal, four canneries and two sawmills. Principal industries in and contiguous to the community are: Fishing, logging, lumbering and farming. Truck gardening is a profitable industry here; seaside summer resorts, an army post and the city of Astoria provide ample markets for the produce. Cranberry culture on tide flats and marshy lands engaged in extensively.

## COLUMBIA COUNTY

(St. Helens, County Seat)

Columbia County is situated in the northwestern part of the State. It is bounded on the north and east by the Columbia River, on the west by Clatsop County, and on the south by Washington County. The population is 12,206 (U. S. census 1910, 10,580): of these, 66 per cent are United States born; of the foreign 34 per cent, about three-fourths are Scandinavians, the remaining one fourth being made up principally of Canadians, Germans, Irish, Scotch, and Swiss. The total area of the county is 436,882 acres. There are no vacant public lands in this county. There is no reserve. There are 436,348 acres appropriated. Of the assessed appropriated land, 11,285 acres are cultivated and 400,897 uncultivated. The price of land in this county averages \$56 per acre for cultivated and \$27 for uncultivated. The Department of Agriculture reports the average value of farm lands at \$25 to \$50 per acre. The total value of taxable property in this county is \$18,065,007 (1913). The rock formation of this county is various—from the pre-Cretaceous to the Miocene. Much of the soil is similar in appearance to the "shot lands," a red soil which characterizes quite an area in Washington County. The soil is about 16 inches deep, underlaid by clay, and this in turn by gravel. The lime supply of this soil is fair, its potash supply normal, its phosphoric acid very strong, and its humus supply very low. The soil would be much improved by growing clover or other green crops, reinforced by applications of gypsum to liberate the plant food present, of which there seems to be a fair quantity, but probably not in as available a condition as is desirable. The natural forest growth is fir, cedar, spruce, larch, hemlock, oak and hazel. The many rivers and streams, with a splendid forest growth, make lumbering easy and profitable. Dairying and cattle-raising are important

industries. Iron, fine building-stone, and a small quantity of coal are found. The mean temperature during the spring months is 51.3 degrees; summer, 63 degrees; fall, 56.4 degrees; winter, 42.9 degrees. The normal precipitation per season is: Spring, 11.25 inches; summer, 3.73 inches; fall, 15.09 inches; and winter, 20.97 inches—total annual, 51.04 inches. There are in the county 3 sawmills, one sash and door factory, 10 saw and planing mills, and 8 shingle mills. Among the other industrial plants are found creameries, cooperage companies, electric light, fish canneries, machine shops, printing, soap factories, rock quarry, and one net float factory. Wood is the fuel used and costs about \$3.50 per cord. Many cattle are raised in the county. The county roads are maintained by a special tax levy. Main roads macadamized. By-roads in fair condition.

**CLATSKANIE** (W. A. Hall, Mayor)—Incorporated in 1891. Altitude, 50 feet; area, 320 acres; population, 1,000. Situated on the Clatskanie River, one-half mile south of the main line of the S., P. & S. railroad. Assessed valuation of city property, \$262,050; indebtedness, \$3,000. City marshal receives \$75 per month. Ten teachers of the public schools receive salaries ranging from \$65 to \$150 per month. Average daily wage for skilled labor is \$4; common labor, \$2.50, and man and team, \$5.50. One schoolhouse, gymnasium and manual training building valued at \$15,000. Three churches, Baptist, Methodist and Presbyterian, valued at \$10,000, and city hall, jail and hose cart house at \$2,000. Electric lighting system is under private ownership, furnishing service at the rate of about 10 cents per kilowatt hour. Local telephone service with about 400 regular subscribers. Water works system is under public ownership and the rate to consumers is from \$1 to \$1.50 per month. Logging, milling, farming and dairying are the principal industries surrounding the town. Established within the community are seven general stores, two hotels, two drug stores, three confectioneries, cooperative creamery, lumber yard, cannery, two meat markets, three lodging houses, two blacksmith shops, two livery stables, harness shop, hardware store, music store, two shingle mills, two barber shops and two millinery stores. Soil is well adapted to fruit culture. Logged-off lands available at reasonable prices. Has steamer connection with Portland. About 10,000 acres of tide lands are in process of reclamation, about 6,000 having been diked and much of it in cultivation and under production.

**GOBLE** (Frank Bishop, Mayor)—Incorporated in 1913. Altitude about 30 feet; area, 320 acres; population about 200. On main line of S., P. & S. railroad and one-half mile distant from the Goble, Nehalem & Pacific railroad. Also situated on the Columbia River. Two teachers in the public school receive salaries of \$75 and \$85, respectively. City marshal is compensated under the fee system. Average daily wage for common labor, \$2 and \$2.50, and for man and team, \$5 to \$6. One public school building is valued at \$3,500; one church, Episcopal, at \$500; Redmen's hall at \$3,000, and other public buildings at \$3,000. Gravity water works system is under private ownership, the average cost for service to the household being \$1.50 per month. Principal industries in and surrounding the town are: Logging, lumbering and salmon fishing. Among the industrial and business establishments located in and near the community are: A fish packing plant, two sawmills, two general stores, hardware store, meat market, two saloons, shoemaker and barber.

**RAINIER** (T. J. Flippin, Mayor)—Situated 46 miles northwest of Portland, on the Astoria branch of the S., P. & S. railroad, and on the Columbia River, giving it unsurpassed shipping facilities either by ocean, river or rail. Incorporated in 1885, covers an area of two square miles, and has a population of 2,500. One public school, employing 14 teachers. Four churches, Catholic, Church of God, Congregational and

Methodist. Rainier has a bank, four sawmills, sash and door factory, creamery, steam laundry, two newspapers (Rainier Review, weekly; Senator, monthly), free reading rooms, moving picture theaters, soap factory, and numerous general and special stores. Twenty-five sawmills in immediate vicinity. Iron deposits close by. Fishing is an important industry. Volunteer fire department. City gravity water system. City expenses, \$4,000 per year. Eleven passenger boats and 12 trains daily. Splendid opportunities are offered for almost any kind of manufacturing, farming, fruit growing, poultry raising, dairying, and in fact, any vocation one may wish to follow.

ST. HELENS (Albert W. Mueller, Mayor)—County seat of Columbia County. Incorporated in 1889. Founded in 1849 by Captain Knighton. Altitude, 60 to 150 feet; area, 800 acres; population estimated at 3,300; assessed valuation of city property, \$900,000; bonded indebtedness, \$25,000. Located on the Columbia River and the S., P. & S. railroad, 28 miles below Portland. Thirteen teachers are employed in the public schools at salaries ranging from \$60 to \$100 per month. Two city marshals receive a combined monthly salary of \$150. Average daily wage of skilled labor is \$3.75 to \$7; unskilled, \$2.50, and man and team, \$5. Estimated monthly pay roll of St. Helens and tributary logging camps is \$100,000. Two public school buildings, including high school, are valued at \$25,000; city hall, \$9,000; I. O. O. F. hall, \$3,000; Masonic hall, \$12,000; county court house (solid stone), \$60,000; and six churches, Catholic, Congregational, Episcopal, three Methodist Episcopal, at \$12,500. City owns gravity water system and furnishes private families at the rate of \$1.25 per month. Electric lighting system is under private ownership. Included among the fraternal organizations represented are the Masons, Odd Fellows, Artisans, Knights of Pythias, Yeomen, Redmen, Foresters, Maccabees and Beavers. The principal industries in and around the city are farming, dairying, ship-building, rock-quarrying, lumbering, milling and manufacturing, and salmon fishing. Chief among the industrial and business enterprises located in and near the city are: Two sawmills, one having a capacity of 200,000 feet per day of 24 hours; ship yard, building an average of one steam schooner every three months for coastwise trade, besides numerous smaller craft; creosoting plant; two rock quarries, producing Belgian blocks; nine general stores, three grocery stores, seven saloons, six hotels, four restaurants, four pool rooms, three meat markets, three blacksmith shops, two weekly newspapers, bakery, bank, jewelry store, plumbing shop, drug store, and two fishing companies. Good opportunity for creamery, cold storage plant, sash and door factory, box factory, shingle mill, cannery, packing plant. The town of St. Helens now embraces the former incorporated town of Houlton within its limits.

VERNONIA (E. J. Miller, President of Council)—Incorporated in 1891. Altitude, 900 feet; area, 640 acres; population, 70. Situated 25 miles from the Columbia River and 16 miles from Buxton. Two teachers of the public school receive \$65 and \$100 per month, respectively. Average daily wage of skilled labor is \$4; common labor, \$2.25 and \$2.50, and man and team, \$5. One public school building is valued at \$8,000, and one church, the Evangelical Association, has property valued at \$3,000. Principal industries in the vicinity are farming and dairying. Large quantities of valuable timber exists on the adjacent hills, awaiting the coming of railroad facilities for development. Extensive coal deposits are also known to exist near the town. There are two general stores, blacksmith shop, and one drug store. No physician.