PORT OF PORTLAND'S **DREDGING OPERATIONS** BREAK ALL RECORDS

Channel Is 28 Feet Deep in Rivers, and Safe for All Size of Water Craft.

HE Port of Portland has done the largest amount of dredging in its history during the year just clos-

With its three big hydraulic dredges, the "Columbia." "Portland" having a combined capacity clent pilotage service.

of 30.000 yards of material a day, alof 30,000 yards of material a day, almost continuously at work, the channel authorized in 1903 and in 1908 the port vessel that enters the Columbia.

is estimated that about the same amount will be expended during the forthcoming year. In addition the dredge "Co-lumbia" will be equipped with a new steel hull at a cost of \$90,000, including the expense of transferring its machinery. This will make her equal to the "Willamette" and give to this port the distinction of having the two avenue for water traffic exists from the distinction of having the two avenue for water traffic exists from the largest dredges of their type in the wharf to deep water outside the bar. United States.

The port will also be called upon to shoulder another big expense in 1914. in order that continuous work may proceed upon the construction of the north jetty at the mouth of the Columbia.

Port Pledges \$475,000.

Fearing that the federal appropriation may be exhausted in the spring, the Port of Portland has pledged itself to pay into the United States treasury the of \$475,000 to carry on the work until congress makes another appropriation in the fall of 1914.

The Port of Portland was created by an act of the legislature in 1891, in response to a general demand of the citizens of Portland. Monies spent by it are raised by taxation and are used, March until July the dredge dug a chanfirst to maintain a deep channel be-tween Portland and the sea; secondly in the operation of a dry dock at St. Bay, at the mouth of the Columbia. This

MONTH BY MONTH RECORD OF SHIPMENTS OF WHEAT, FLOUR, BARLEY AND LUMBER TO FOR-EIGN PORTS

	Total Value of	AA UGWr.		Flour.		Barley.		Lumber.	
	Months, 1913.	Bushels.	Value.	Barrels.	Value.	Bushels.	Value.	Feet.	Value.
January	\$ 1,846,673	1,525,761	\$ 1,326,057	32,315 \$	116.529	354,357	249,420	8.396,000	99,629
February		615,071	538,820	52,375	209,500	104,706	70,362		107,039
March	****	550,229	476,803	50,258	201,032	102,541	62,969	12,677,000	153,800
April				2,075	- 8,000			7,136,000	93,902
May		277,831	248,279	127,472	508,844	30,333	18,199	24,818,000	310,944
June		442,020	419,400	27,963	111,851			16,441,000	195,917
July	1,117,629	353,337	322,058	70,300	277,101	342,749	225,143	18,591,000	249,800
August	690,803	127,521	106,915	41,227	164,908	208,532	125,295	19,839,000	258,513
September	1,888,029	1,245,483	1,034,750	103,996	415,631	123,404	78,012	27,395,000	343,003
October	1,767,656	1,294,472	1,056,376	78,934	311,281	140,350	97,684	21,901,000	290,643
November,	1,482,306	808,591	669,493	74,511	288,747	468,933	312,069	15,474,000	174,080
Total	\$12,819,594	7,240,316	\$6,198,951	661,426 \$	2,613,424	1,875,905 \$	1,239,153	181,192,000 \$	2,277,270

"Willamette" and Johns and thirdly to maintain an effi- was done to enable the big rock scows miles below Portland, has been done by affording facilities for repairing vessels

Exports of general cargo to all countries for 11 months, \$490.796.

between Portland and the sea at no was empowered to assume the operation point is now less than 28 feet, which is tween Portland and the Pacific. When sufficient to accommodate any seagoing the port was created it was difficult to bring vessels of more than 16 foot draft Approximately \$206,000 was spent for to Portland, owing to the existence of dredging operations during 1913 and it bars and shallows which are always for evidence in rivers where freshets occur annually. Commerce therefore was emperlied.

Harbor In Deep, Safe.

But thanks to untiring efforts this danger no longer exists. The harbor is deep and wide, its facilities are classed among the best, and a clean avenue for water traffic exists from

With the port ever growing in im-portance, and an-increase in both the number and size of vessels entering the port, the channel has been deepened, widened, and straightened. Now ships drawing 27 feet need experience no difficulty in navigation. And the end is not yet! Where a 28 foot channel obtains at present, one 29 foot in depth will be dredged next year and another foot will be added to the depth the year following. This program is outined in anticipation of a much deeper channel across Columbia's bar on the ompletion of the north jetty, now un-

der construction.

The Port of Portland's dredge "Columbia" has aided Uncle Sam considerably this year also. Working from

docks for jetty construction. The "Columbia" returned to the work only a week or so ago for the purpose of completing the channel. The government is paying the bill in this regard.

Uncle Sam Directs Work. The river improvement work of the

Port of Portland is done under the direction of the war department. The local commissioners of the Port and the United States engineers coperate in deciding the amount, manner, and location of work.

In a general way the improvement work and maintenance of the channel work and maintenance of the channel The port maintains a machine shop between Portland and Eureka, about 65 on the dock premises and in addition to

to land their loads at the north jetty and at the expense of the Port of Portland. The remainder of the channel work and the construction of the jettles has been and is under the sole direction of the federal government. The towage and pilotage service now maintained by the port is highly efficient and service rates are much lower than any other port on the Pacific coast. The port employs five bar pilots. Three sea going tugs and one stern wheeler river tug boat are in continuous operation.

> offers opportunities for dry docking boats at a rate much cheaper than obtains anywhere else on the coast.

The dry dock at St. Johns likewise

is also used by the port for attending to irts own equipment

Port's Property Worth Million.

The total cost of the equipment of the port, including its dredgers, the dredge tenders "Wenonah" and "John McCraken," the launch "Astoria," the seagoing tugs "Wallula," "Oneonta," the pilot schooner "Joseph Pulitzer, and the stern wheeler "Oklahama," is \$819,-056,48. The dry dock, which is valued at \$377,342.41, and the launch "Marie" valued at \$3325.58, brings the total inestment to \$1,199,724.47.

The bonded indebtedness of the por \$750,000, against which there is an ccumulated sinking fund of something Farmers—Teamsters—Horsemen LOOK TO YOUR INTEREST WHEN IN NEED OF

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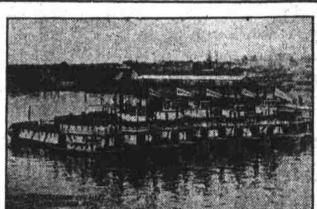
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PORTLAND, ORE.

PORT'S COASTWISE TRADE SHOWS INCREASE FOR YEAR

DORTLAND shipped during the first and which amount to many hundreds of 11 months of the year a total of thousands of dollars. \$3,350,489 more of wheat, flour, barley and lumber to domestic ports than were set afloat for the same period last

Steamers and sailing vessels plying between Portland and other domestic ports during the 14 months of 1913 since January 1 took out cargoes of these principal commodities to the value of \$10,318,659, the greater part going to California ports. For the same period 598 barrels, valued at \$1,601,640, and in 1912 there were shipped lumber, barley, 838,282 bushels, valued at \$509,wheat, flour and barley to the value of 146.

These shipments are exclusive of the ning January 1, 1912, were: Lumber, various other commodities classed as 157.448,257 feet, value \$1.656,716; wheat, Charleston, Philadelphia and Boston, \$143,601,

In all of the principal shipments this year the totals were greater than last year, as will be shown by the following figures, taken from the records of ship-ments at the Merchants' Exchange. They are as follows:

Domestic shipments for 11 months from January 1, 1913-Lumber, 210,484,-984 feet, value \$2,420,590; wheat, 6,512,-156 buhels, worth \$5,787,283; flour, 385,-For the same period 598 barrels, valued at \$1,601,640, and

Shipments for the 11 months beginfreigh,t of which there are 4.269,581 bushels, value \$3,730,196; flour, large quantitles shipped from this port 340,533 barrels, worth \$1,437,657, and every year to California, New York, barley 222,596 bushels, valued at

"All Its Eggs Are Not Placed in One Basket"

Several years ago it was determined to construct a number of electric generating plants for the sole purpose of providing

Reliable Electric Service

With this end in view, the Portland Railway, Light & Power Company has finally completed and put in operation ten of these huge plants.

They are located in Portland (2), Salem, Boring, St. Johns, Estacada, Cazadero, Oregon City, Bull Run and Silverton. All are intercommunicative, and thus are able to carry the load of a sick plant, whatever unforeseen condition may have arisen.

This provision for good service required a very heavy outlay of capital, but it has done much to give Portland its present reputation for being the BEST LIGHTED CITY on the Coast.

Experience has taught that where all is dependent upon the production of a single plant, accidents will occur and the service meet with interruptions.

Portland Railway, Light and Power Company Phones: Marshall 5100, Home A 6131 **Broadway and Alder Streets**

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