

one of the largest markets for spruce and white pine box and crating mate-rial. This immense market will be brought nearer to us and the demand for this material will be enormous. The box manufacturer consumes more lum-ber than any other industry except the railway.

rallway. Our principal distributing points will be New York, Philadelphia and Boston. To these distributing points we will be able to ship our fir timbers, all water, and thence inland as far as the Ohio basin. We will compete for business over a large area. We must hear in mind that the large

We must keep in mind that the large ***********************

CHANNEL ADMITS LARGEST VESSELS.

Three of the deepest-draft ves-sels to leave the harbor at Port-land, or, in fact, sail from the Columbia River, in the history of navigation were dispatched dur-ing 1312, the first bein g the British steamer Willesden, which got away in October with 301.987 bushels of wheat, and drew 27.1 feet of water. The Danish steam-er Kina left the latter part of the same month with a cereal cargo for abroad, drawing 27.4% feet, and the last deep-draft carrier also gained the port record, the big five-masted German hark, F. C. Rickmers, which was down to 37.5% feet. Wesels drawing 24 feet and Three of the deepest-draft ves-

Vessels drawing 24 feet and over to be loaded here during the past three years are listed below: Month-Vessel Teet Draft.

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1910, February, M. S. Dollar..... March, Glenaffric...... h. Augustus. Knight of Garter. St. Dunstan..... July, Coulsian October, Knight of Garter. October, Uganda. October, Iran November, Masunda. December, Solveig. .24.6

December, Solveig. 1911. January, Orteric. Febry, Queen Alexandra. Febryry, Hercules. March, Suveric. March, Suveric. May, Hercules. June, Serak. July, Ethelwolf. August. Earl of Forfar... November, Kumeric. December, Celtic King... 1912. 24.9 24.8 25.6

January, M. S. Dollar. 24.0 January, M. S. Dollar. 24.2 January, Orterle. 24.9 January, Hercules. 24.9 February, Hartington. 24.9 April, Ikalis. 24.6 May, Clan Maciver. 24.9 Jay, Hercules. 24.9

Hercules. Rygja. Verona. M. S. Dollar. Unkal Maru, No. 2. June, Unkal Maru, No. 2. 25.2 August, Orteric. 25.3 August, Guernsey. 24.3 August, Netherpark. 24.3 August, Solveig. 25, 11.12 August, Hercules. 25.6 Septber, English Monarch, 25.1 October, Erglish Monarch, 25.1 October, Strathfillan. 24.0 October, Strathfillan. 24.0 October, Egon. 24.0 October, Leon. 24.0 December, Jersbok. 25.6 December, Jersbok. 25.6 December, Lonsdale. 24.2%

frequently overlooked by manufactur-ers, is the developing of our home mar-kets along the entire length of the Pacific Coast through increased immi ration coust through increased immi-gration to this Coast. It is estimated that 50,000 tickets have already been sold for passage to this Coast via the Panama Canal. Further estimates state that fully 500,000 immigrants will come

By T. M. Huriburt, City Engineer. The channel is 12 miles long, access to mercial highway, could be utilized as a

LAND

CONVERSION OF COLUMBIA SLOUGH INTO

SHIPPING CHANNEL NOW IS ADVOCATED

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City Engineer Presents Plan to Extend Industrial Area on Peninsula and to Add to Portland's Prestige as Harbor-Survey Shows Plan Possible.

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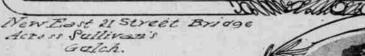
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Present.



ETTER transportation facilities for vehicle and streetcar traffic are provided by an extensive bridge-building programme carried out in Portland in the year just closed. One new bridge across the Williamette River-that of the O.-W. R. & N. Co.-was completed; another, - the Broadway bridge-was started and will be completed within the next ten weeks, and an additional viaduct was

built across Sullivan's Gulch-at East Twenty-first street-thus affording connection between the Irvington district and central East Portlasd. The new O.-W. R. & N. bridge re-

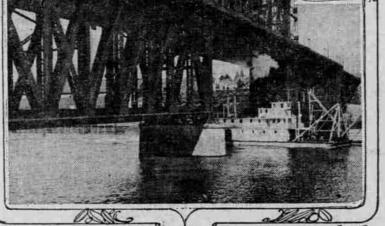
places the old "Steel bridge," that was built in 1888. The old bridge was so named because it was the first steel structure to be built across the Wilstructure to be built across the Wil-lamette. It answered well for its day and generation, but long since be-came entirely too light for the heavier rolling stock that came into use. The new bridge is located about 600 feet up stream from the old one, and reaches from Third and Glisan streets, on the West Side, to Adams and Ore-



HELP EFFACE PHYSICAL BARRIER IN CITY Broadway and O.-W. R. & N. Spans Will Do Much to Facilitate Traffic Across Willamette-An-other Viaduct Over Sullivan's Gulch Also Development of Year.

on the West Side, to Adams and Ore-gon streets, on the East Side. The length over all is 1839 feet, of which about 1600 feet is of steel. A note-worthy feature of the bridge is the use of two decks, the upper one for highway traffic and the lower one for highway traffic and the lower one for highway traine and the lower one for the steam railway traffic. This com-bination plan is used for the three main spans, crossing the river itself. Out on the shore the railway tracks are built on the ground, but the highway deck structure continues independently t to the proper termini for it, with total length of approaches of 1043 feet

The bridge was designed for the very paviest traffic on both decks that The order traffic on both decks that could reasonably be expected to cross it. The lower deck has double tracks. The upper deck has a 28-foot width of in the center for the streetcal Unific and automobiles and a space 15 or 16 feet wide on either side of the bridge for horse vehicles, except that on the lift span this width is reduced



PANAMA CANAL TO RESULT IN LOWER FREIGHT RATES BY RAIL AND WATER

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