## Canal Service and Administration ${ }_{i j}^{\text {in }}$ Europe







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 necting the Rhine with the Soine and the
Elbe. The barges go as far north as Basel and some of them are taken up the Mafi
to the Danube, so that Rotterdam is acually the center point of a network
waterways whlch embraces almost alt con

The Increase of the Rhine trade has given
Rotterdam great prosperity. It had about ${ }^{\text {Co.0.000}}$


Kroonland of our own American line mov- Islands of Duiveland and Tnolen into the one of those stones was laid by band. Each ing up with a cargo from New York for Mans canal. The waters of the Ooster one took a part of a man's life to put it in
Antwerp, and a little later on came in sight scheldt are wide and spotted wita islands. its place, so that in reality the lives of of the dykes. Near the Dutch boundary the We passed many salling craft and now and generations have been swallowed up by river is walled with stone held between phes. We rode high above the rest of the country, and could see the roofs of the black the glass on wo could see schools of oarus and houses even with the top of the
dykes. On the opposite side the trees showed out llke bushes over the wall which extended on and on up the river as far as
our eyes could reach. We passed the great forts that guard this entrance to Europe. and went on through a flat country on the
edge of the sea. At times we could see the edge of the sea. At times we could see the
fields beyond the walls with the cattle feedIng upon them. Long lines of trees marked out the road, which seemed to be marchIng over the landscepe, making me think
of Macbeth's woods coming to Dunsinane. of Macbeth's waods coming to Dunsinane. through the locks came Into the canal of South Beveland. This is one of the largest canais of southern Holland. It is wide and high banked, and sc straight that the tugs and barges which fill it grow smaller and distance. The locks are old fabhloned. They ar
moved by hand by quaint old Dutchmen caps, roundabouts and fat pantaloons. every lock Dutch girls brought out fruit
and knicknacks to sell to the passengers. They wero pretty girls and I liked their qualnt costumes. They wore short skirts, white clogn and black stockings. several
had on bright wests and two had horns of gold over each of their eyes. the horna twisted around in the shape of a minlature
old-fashloned bed spring. Thren others had old-fashloned bed spring. Throe others had
gold $0^{\circ}$ silver helmets fitted tight to their gold or silver helmets fitted tight to their
heads, showing out through their tace caps. They laughed as we dealt with them, but Invarlably got the best of the bargain. Most of the craft of this canal is carried along by tugs, although some barges are horses. So far but women and others by horsos. So far but little electricity has
been applied to these canaln, although this matter is seriously considered by the Duteh. At every few steps along the way are posts for tying the boats, and we now
and then passed boats at anchor. and then passed boats at anchor. Leaving the South Beveland canal, we the sea, and then went on between the

Se canal banke.
Holland? Along some of the canals there are dreds of them. They spot the farms, an you see them on the edge of the towns, all sorts of things. They give a grea charn to the landscape. They look so alive that I don't wonder that Don Quixote took one for a giant and wanted to fight him
These mills are all old, and it must have These mills are all old, and it must have
cost many millions of dollars to bulld
them. Their day, however, is past, an
but few new ones are bullding. The gas engine and the steam engine have taken land without windmills.
Holland has made te ship well. Amsterdam has the North Sea canal which is about fifteen milles long, runntng across the country from Amsterdam to the
ocean. It is thirty feet deep and has two North sea at high Uide it took a ride along it a week ago and inspected the breaikwator wentrance. The work is well done the Sault Ste. Marie between Lake ciperior and Lake Huron. The canal $c$ abou $\$ 16,000,000$, of which one-fourth was paid by the sale of the reclaimed land, which
brought an average price of almost $\$ 500$ an

The town of Rotterdam is a elty of canala
and canalized rivers. The Mass has been so dredged that it now permits the largeat
of ocean ships to come into Rotterdam of ocean ships to come into Rotterdam, and
the connections with the Rhine parts of Europe are such that this clty han become one of the chief ports on the con-
inent. It is one of our principal gateways for northern Europe, surpassing Antwer, in its importations of American products. Antwerp, as far as the figures go, has the
greater tonnage, but much of its tonnage is made up of ships which merely touch there while that of Rotterdam is composed of Rotterdam has about half as much cargo. ping as Hamburg and about one:third that Liverpool or Land . The shipping is

Which is over a mille long and 1,000 feet
wide, and has another harbor in course of
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$\qquad$ ping This all belonge to the municipal-
ity. The city has put up elighty sterl cranes which will lift from 1,600 to 66,000 pounds ach, and it has bydraulfe coal lifts which
will move 200 tons of coal per hour at cost of 4 cents per ton. In every respect 1 am surprised aties are of the best. are dolng in making canals. I have been past fow years. Nearly every country is ming a canal from St. Petersburg is planBaltle to the Black sen, which will b. the largest of the occan steamers. The
canal system will probably be extended ventually to the Northern ocean, so tha water. The chief rivers of Russla are al ina sea by bont. Petersburg to the Cas. Germany has
pormous amou amo for years bren spending an and building canals, and it has otio of th be taken from Hamburg to Merlin and al There are canals connecting the wibe an built to foin the coal and iron reat me nboul extended to embrace the libine, the The Germans want to standardize 保
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$\qquad$ With Hamburg. It is much zearey fimit
this offer whole. The government refused dred thousand dollars more than it cost it As to the Zuyder Zee scheme, this is dertaken. It is estimated that it will con over $\$ 75,000,000$, but it will result in the
reclamation of a vast tratt of tand. Th. work will take thirty-three years, and th taxes on the lund recovered will then brin
in $\$ 4,000,000 \mathrm{a}$ year to the government making the matter a good long-time invent of IL , and although all the plans have been completed no work has been actually done the southeastern province of Holland, conslsting of nine islands lying in the mouth silt brought down by these rivere. The most of the province is below sea leve belng protected against the ocean by mighty
dykes. It was through this province that I came from Antwerp to Rotterdam on the As I rode down the Scheldt I passed the

