

THE AGE OF CANALS.

(Special Correspondence of the Deseret News by Frank G. Carpenter.) (Copyrighted by Frank G. Carpenter.) otterdam, Holland, Jan. 15.-This is the age of railroads. It

This is the age of railroads. It promises also to be the age of canals. Water transportation is still cheaper than any other. and the European nations are deepening their rivers and constructing canals to join their waterways. It is only a

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in the reclamation of a vast tract of land. The work will take thirty-three years, and the taxes on the land re-covered will then bring in \$4,000,000 a year to the government, making matter a good long-time investment. making th present the government is afraid of it and although all the plans have been completed. tually done.

question of time when the United States will do the same, and when we shall have ship canals joining some of the principal parts of our country.

I came from Antwerp to Rotterdam. by boat to learn something about the canals of the Dutch, and since then I have visited their waterways in the north. Holland is the canal land of the world. It has more interior waterways than any region except the Yangtse Klang valley about Shanghal. Hangehow and Soochow. It is, all told, only about as big as Massachusetts, but if you could stretch its navigable waterways out in one straight line they would carry you from New York to San Francisco - almost back to Chleago before you got to the end of them. There are in all about two thousand miles of canals—enough to reach from New York to Denver- and also three thousand miles of other waterways, including little rivers and the mouths of the Scheidt and Rhine, and also the Zuyder Zee and other places where the northern ocean runs into the land.

A CABINET MINISTER OF WATER-WAYS.

Indeed, there is so much water here that one of the most important duties of the government is the taking care of it. The government has a departthe queen has in her cabinet a minister of waterways. This department has some of the best of civil engineers. It has men who devote themselves to studying how to keep the North sea from rushing in and drowning out the councily (or almost one ball of the balls country, for almost one-hulf of Holland is below the level of the ocean, so that in some places the fishes outside swim high above the thatched house roofs. It has men who are engaged in plan-ning and building ship canals, such as the mighty waterways which connect Amsterdam with the ocean, and it has others who are scheming how to build a great dyke across the Zuyder Zee to redeem as much land as a good-sized Texas county, which, when redeemed. will be worth hundreds of dollars an

This undertaking is for a time abeyance, but there is no doubt that it will eventually be carried out. The Dutch have done much of such reclamation in the past. About fifty years ago they lifted a billion tons of water out of the region near Haarlem, and made seventy square miles of good farming land. It cost them more than a million and a half of dollars, but the land was worth it. In another place they have redeemed \$1,000 acres at a cost of about four million dollars, and as soon as the work was done a foreign property as a whole. The government refused this offer, and eventually got several hundred thousand dollars more than it cost it to make the improvement.

As to the Zuyder Zee scheme, this is | Leaving the South Beveland canal we

no work has been ac-IN THE ISLANDS OF ZEELAND.

Have you ever heard of Zeeland? It is the southcastern province of Holland, consisting of nine islands lying in the mouths of the Scheldt and the Maas, formed by the slift brought down by three rivers. The most of the province is below sea level, being protected against the ocean by mighty dykes. It was through this province that I came from Antwerp to Hotterdam on the little steamboat Telegraf 111. As I role down the Scheldt I passed

As I role down the Scheldt I passed the Kroonland of our own American line moving up with a cargo from New York for Antwerp, and a little later on came in sight of the dykes. Near the Dutch boundary the river is walled with stone held between piles. We role high above the rest, of the country, and could are the roofs of the barns and houses even with the top of the dykes. On the opposite side the trees showed out like brushes over the wall which extended on and on up the river showed out like brukhes over the wall which extended on and on up the river as far as out eyen could reach. We passed the great forts that guard this entrance to Europa, and went on through a flat country on the edge of the sea. At times we could see the fields hey ond the walls with the cattle reading to be the form the cattle eeding upon them. Long lines of trees marked out the road which seemed to be marching over the landscape, mak-ing me thing of Macbeth's woods coming to Dunsinane.

A BIG DUTCH CANALA

We soon left the Scheldt and passing through locks came into the canal of South Beyeland. This is one of the largest canuls of southern Holland. It is wide and high banked, and so straight that the tugs and burges which fill it graw smaller and smaller and finally

block the canal in the distance. The locks are old fashioned. They are moved by hand by quaint old Dutchmen in caps, roundabouts and fat pantaloons. At every lock Dutch sirls brought out fruit and knicknacks ships brought out fruit and knicknacks to sell to the passengers. They were pretty gids and I liked their quaint costumes. They wore short skirts, white clogs and black stockings. Sev-eral had on bright vests and two had horns of gold over each of their eyes, the horns twisted around in the shape of a miniature old gradiened bd arches If a miniature old-fashioned bed spring. Three others had gold and silver helmets fitted tight to their heads, show-ing out through their lace caps. They laughed as we dealt with them, but in variably got the best of the borgain. HORSE POWER, MAN POWER AND STEAM.

Most of the craft of this canal is cara cost of the craft of this can it is car-ried along by tugs, although some barges are pulled by men and women and others by horses. So far but little effecticity has been applied to these can is, although this matter is serlously considered by the Dutch. At every few steps along the way are posts for tying the boats, and we now and then passed boats at anchor.

entered the Ooster Scheldt, a sort of thousands of Dutch families which live and then went on be-tween the islands of Duiveland and upon them, and many have no other dubbledam, an evidence that the lum-

Big Canal Schemes of Russia and Germany-The Dutch Canal Sys= tem and How It is Managed - The Queen's Waterstaat and Its Cabinet Minister - A Tour Through South Holland - The Dutch Boat People and How They Live - Holland's Ship Canals - Rotterdam the Gate to the Rhine.

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AMERICAN FLOUR ON THE AMSTERDAM CANAL.

Tholen into the Maas canal. The wa-ters of the Ooster Scheldt are wide and spotted with Islands. We passed many salling craft and now and then went a tug towing great harges. With the glass we could see schools of black seals on the sand flats, and farther back hundreds of Holstein cattle lying in the sun We entered the Hollandische Deip and

then the canals and mouths of the Mnas, now going by villages on the banks, and now seeing the second storles of other village houses which were apparently looking over the dykes and watching us go by.

rope to the mast. On many of the boats the women were cooking; on some they were hanging out the washing, and on one a little Dutch girl held up her doll baby and laughed as we went

Every village along the canal had its own boats tied to the banks, and the larger towns were cut up by canals so it boats from the main canals could be taken into them by means of locks. We stopped for a time at Dordrecht, which in the middle ages was one of the richest of all the Dutch cities. It had palaces at that time, and its build-

the size of

there were dredges at work, and here and there we saw the officers of the

where. Along some of the canals there are hundreds of them. They spot the farms, and you see them on the edge of the towns, where they grind flour, saw lumber and do all sorts of things. They give a great charm to the land-scape. 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 cost many millions of dollars to build them. Their day, however, is past, and but few new ones are building. The gas engine and the steam engine have tak-en their places, and we may yet have a Holland without windmills.

HOLLAND'S SHIP CANALS.

Holiand has made its ship canals pay well. Amsterdam has the North Sea Canal, which is about 15 miles long, running across the country from Amsterdam to the ocean. It is 30 feet deep and has two enormous locks which protect it fram the North sea at high tide. I toole a ride along it a week ago and inspected the breakwaters at its entrance. The work is well done, but the locks do not compare with those of the Sault Ste, Marie between Lake Superior and Lake Huron. The canal cost about \$16,000,000, of which onefourth was paid by the sale of the re-cialmed land, which brought an average price of almost \$500 an acre.

. ROTTERDAM.

This town of Rotterdam is a city of anals and canalized rivers. The Mans as been so dredged that it now permits he largest of ocean ships to come into Rotterdam, and the connection with the Raine and other parts of Europe are such that this city has become one of the chief ports on the continent. It is one of our principal gateways for northern Europe, surpassing Antwerp in its importations of American prod-ucts. Antwerp, as far as the figures go; bas the greater toninge, but much of its tonings is made up of ships which morely touch there, while that of Rot-terdam is composed of ships which take on and discharge cargo. Rotterdam has about halt as much shipping as Rotterdam The about main as much shipping as ilemburg and about one-third that of Liverpool or London. The shipping is treadily increasing, and it now com-prises lines to all parts of the world. In 1900 there were about 600 ships from the United States. This is not oneto the of the whole number that came, here, but they carried almost one-thild here, but they carried almost one-thild of the eargo of that year. The chief of these ships are those of the Holland-American line, which go from Rotter-dam direct to New York, and have been doing so since 1990. These ships are first-class passenger steamers, echie of them being 12,000 tons and over over.

THE GATE TO THE RHINE.

Rotterdam is our gate to the Rhinand to the enormous country tributary to it. Our goods are here transshipped into the huge barges, from 200 to 34 fett long, in which they are carried up the Rhine. The river freights are ex-Waterstaat superintending the building of new embankments. The canals are almost everywhere walled with stones, codingly low and the Rhine trade is coormous. About one-half of all the he size of your two fists, and as I coked at them the enormous work that t must have taken to make 2,000 miles ocds that come into Holland go through otterdam up the Rhine to different parts of Germany, Switzerland and France, the number of river ships and It must have taken to make 100 miles of such canals came to me. There are no stones in Holland. Every pebble has to be brought in from other coun-tries, and every one of those stones was Loats which carry them being some-thing like 110,000 annually. There are canals connecting the Rhine with the Feine and the Elbe. The barges go as far north as Basel and some of them are taken up the Main to the Danube. ald by hand. Each one took a part of man's life to put it in its place, so The Dutch canals are almost as thick-ly populated as the waterways of china. Every barge we passed had its is a lumber yard at which barges of

given Rotterdam gr had about 200,000 per 1.48 almost 250,000 a green bay tree creasing its shipr built a new harb another harbor in tion which will b feet wide and 26 f present improv Rotterdam will ha It has already then 32 acres of for its ocean ship to the municipali up 80 stool crane 1,500 to 66,000 por hydraulic coal lif 200 tons of coal p cents per ton, shipping facilities are of the best

HOW EUROPE IS DEEPENING ITS RIVERS AND DIGGING NEW

WATERWAYS.

BIG CANAL SCHEMES

I am surprised at the ork the Euro peans are doing have been pretty well within the past fey country is impro Russia is plannin Petersburg and t sea, which will he to accommodate th steamers. The ably be extended Northern ocean, country will be The chief rivers of connected by canals to go from St. plan sea by boat.

Germany has for yes an enermous amoun rivers and building one of the best rope. Goods can burg to Berlin sources of the Elb canals connecting Oder, and the ca built to join the c about Dertmund t eventually be extended

Rhine, the Weser and the Ells The Germans want to stan their canal system, if pa barges carrying a thousand be taken to any part of th They use wide barges on the print that it is easier to make a wide than a deep one.

At present the canals of eastern G many seem to be favored ave the west, the port of Stettin ing that the Prussian govern not give it the canal fa needs to compete with Ha much nearer and naturall cessible to Berlin than any of a of the west, but so far the ports are getting the trade

As it is now Hamburg hundles ab one-half of all the commerce of many, and goods can be shipped there up the Elbe as far as Prage a Bohemia.

You can go by boat from Rotter to the Rhine and by canal to have You can also go to Vienna by say the Rhine, the Main and the canatem the Danube and thence on to the Figsea, or you can connect by canals othe: rivers which will take you t most any part of northern Europ Among the canals projected are connecting the Elbe with the Dansk

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ASSETS.

Real Estate 11,863,588 51

R.R. Bonds and Stocks (Market Value) 18,621,442 50

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Cash in Banks and Office 4,916,069 51

Leans on Collateral Securities....... 4.736,750 00

Loans on Policies 1,066,916 83

collection (net) 1,812,795 96

LIABILITIES. Reserve on Policies\$49,800,630 00

Surplus to Policy Holders 9.521,405 33

Total\$60,245,339 87

384,521 34

923.304 54

Interest and Rents, due and accrued ...

Premiums Deferred and in course of

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LIFE INSURANCE ISSUED AND including Ordinary Insurance	PAIE 2 (\$8) FOR 7,000,	durin, 000),	g 190 over	2,	27	2	MILLIONS
ASSETS, end of 1902, over		- 1	• 1	÷	÷.		60	MILLIONS
INCOME, during 1902, over		4 7 G		÷	÷.	• .	33	MILLIONS
PAID POLICY HOLDERS, during	1902,	over		; <u> </u>		• 3	9	MILLIONS
SURPLUS, over · ·			÷ 4.		•	E	9	MILLIONS
POLICIES IN FORCE, nearly				÷			5	MILLIONS
INCREASE IN PAID-FOR INSURA	NCE	IN FO	DRCE,	over	<u>6</u> -		108	MILLIONS

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