## Deep Sea Harbor of Interior English City



> swinging aqueduct of the bridge water canal.

Manaman (special Correspondence of The Bee.) - I have come here to glve
you the latest and newest inforyou the latest and neweet intor-
mation about the Manchester ship canal. It is rumored that Plerpont Morgan and his assoclates have bought a controliling interest in it, and that they wll shorlys
put on a new line of steamers to trade put on an new line of steamers to trade
between Manchester and the United States. There ts no doubt but that Morgan's London bank owns a large amount of the shares. It took them when the canal was
begun and has neld them ever stince. It will eegun and has neld them ever since. It will
soon be the chlet route for the entrance of our goods into this busiest part of the Our goods ingto this musiest part of the come a headquarters of the American in-
vailon. Indeed, the clty already recelves vation. Indeed, the clty already reecives
steamers from New York, philadelphle, Baltimore, Galventon and New Orleans, Hundreds of thousands of cotton bales trom our southern states are here brought via the eanal, to be transterred to the millis; an
enormous grain elevator nas aprung up for the storage of American wheat, and 1 find that the warehouses along the Man-
chester docks are already filed with all morts of American goods.

But first let me tell you something about this great port, whlch the Engilsh have created in the very heart of their country. Manchester is far back from the sea. It is
one of the buslest clties of the worid, and one of the buslest eltles of the worid, and
the country surrounding it is a vast beehive of work. In passing over the rallroads to and from it in every direction you ride through groves of smokestacks and
it is imposible to get away from the dense it is imposible to get sway from the dense
smoke whlch pours forth from the foundries, factories and mills which dot the landscape.
Including its sister elty, Salford, the place has now about 800,000 population and close together that $2,000,000$ people Itve within carting distance of the Manchenter docks. This means that goods brought here on the canal can be carried by horaes
to the homes and factories of these $2,000,000$ eople.
Nearby are other induatrial centers which make all sorts of products for home trade
and export. Shefleld, with Its cutiery, Eua works and furnaces for maling fron and ateel, is but an hour away by train and
the woolen center of Leede is almont as near. Altogether Manchester forms the neareat port for a population of about
$8,000,000$ and sts people estimate that they can land ordinary goode by means of they sansi at a saving of \$1 per ton on the inland Liverpool. The canal people have prepared estimates of the actual cost of distributing goods throughout this part of Kagland and it will pay American shippers to in-
veetigate the advantagee of sendling their exports by the canal almost direct to the thetorles.

Manchester's Mighty Waterway.

I have spent some deys in gotng over the canal and in looking through the vast wareabout it. It is oue of the wonders of modern engineering and as a long-time in-
veatment it will probably be a success, vestment it will probably be a succens,
although the present generation and perhape the next cannot expect to have dividends out of it. The cost of the undertaking has been enormous. At the start it Was thought that the canal could be con-
atrueted for $\$ \$ 0,000,000$, but when completed it was found to have cont $\$ 75,000,000$. Betore it was built Manchester was on the down grade. Its factories and warehouses
were talling and Were talling and some of the greatest of thetr plants and business to Glasgow, where they could have better shipping faellitios. Liverpool was steadily gataing and Man. chester ateadily deelining. The former city passlog through to the Mancheater rogion


ELEVATOR FOR sTORAGE OF AMERICAN GRAIN-THE SHIP IS FROM PHILADELPHIA. ratea.

## As the Canal Was Bullt.

As a result the Manchester manufacturers came together, planped this the face. They ralsed the money to build It. They mot the ity corporation of Manchester fot the hem to the extent of $\$ 25,000,000$; they put their hands into their own pockets and gave had an army of within a short time they had an army of laborers at work larger
than that which Xenophou led on his march to the sea. When in full swing their army conulated of 17,000 men divided finto elght companles, omiered by plecked experts, each ligsing at a section about tour miles in langith. This army had its camps in each
section. Its tents were wooden houses made from lumber brought from the United states, and, as many of the workmen had their wives and famille, there was a busy No one can whole line of the canal. No one can apprectate the extent of the
work without golng over the canal. It is work without golng over the canal. It is six feet deep and at the bottom 120 feet wide. If you can imagine a cellar so deep That you could drop a two-story house within it and have the roof below the sur-
face, so wide that the average city lot could be lald cronowlat the aveross the bottom and so long that it would take a raliroad train at a good speed an hour to run from one end of th to the other, you may have some ldea of this enormous ditch which the Manhe soe. A part of the canal was along the sourse of the hitte river Irwell, but much of it had to be dug out of the solld rock. The excavation mecensary was half as great as that required for the Suez canal and
nost of it much more dificult. Eight miles of embankments and sea walls had to be arected along the foreshore of the Mersey, and upon the whole canal $70,000,000$ bricks and 220,000,000
Five sets of locks were put in, anch ble nough to admilt an Atlantio liser, and theae. mer the of great sluice gates, ralse and ixty feet. There the helght or depth of sheater to the sea, ave mighty steps Manaltmb in coming up the canel
I was surprised at the extent of the Man-

## tha suir-undings of one of the targest sca- India rubber belt which ear

ports right in the beart of the largest sca- tndia rubber belt, which carries it into the curing and agricultural country. The docks also plpes which do the same work are vats of water walled with masonry and means of suction, so that a mhipload surrounded with great warehouses, which wheat can be discharged within a fow
are equipped with the finest of modern ma. hours. The machinery will take 500 tons are equipped with the finest of modern ma- hours. The machinery will take 500 tons
chinery. The water space within them from the steamer hold into the elevator in covers 256 acres and the total length of the one hour. It welghs the grain at the water's in one of them is more than five miles. edge, and later on weighs it again when it have been berthed three Atlantic litners is in the sacks ready to be loaded upon the same quay, and during my vistt yesterday I the country,
tralla and one from Galveston from Aus-
unloading goods almost alde by side and the doeks rallweys run and the company canal, and there are more than forty trains daily, carrying goods in and out the docks. It was in the canal company's steam raunoh that I was taken from dock to dock and trom warehouse to warehouse, and It
was with a canal offlelal that I later was with a canal offlelal that I later on
took a trip down the canal from Menchester to a trip down the canal from Mprechester
to the sea on the Duke of Lefnater, bound for Ireland. Our captaln of the Lelnater was a jolly old sea dog who trembled like a leat
as we were photographed atanding on deek so we were photographed atanding on deek
sown the canal. 1 am surprised at the
ort already has with the trame whilted States. This port already has with the United States. In
every warehouse I found Amerlean goods, and in one enpectally, known as the Now York warehouse, 1 aaw thousands of bales of cotton, whileh had Just come from Gal-
veston, great boxes of machinery tor the yeston, great boxes of machinery for the
Westinghouse Electric works, crateg of Westinghouse Electic works, crates of
American desks and great cases of hams, bacon aud lard. On the top of another wareouse, four stories high, I took photographs fust some from the plae lands of Georgia and South Carolina, and at the grain elevator I saw a ehip unloading wheat froia Philadelphia.
This alen Made It.
This elevator is of Amertean construc. Metcalf \& Co, of Chicago. It has. John s. capaelty of 40,000 tons of grain or $1,500,900$ bushels of wheat, and in it there are 226
bins or pits, the largest of which halds much as 300 tons. The elevator is right ou the eanal, and the grain is taken directly trom the ship through a marine leg. which
works by revolving bucketa on an endleus works by revolving bucketa on an endlems
chatn, Itts the grain up into the tower
bealde the boat and drops it upon a wide
he country.
During my
deed, throughout the trip, I was accom panled by Mr. A. Joyncin of the Manchesgrain imports have steadily fncreased since his elevitor was fintshed, and that they ouring amount to about 150,000 tons annually. 5,000 tons of graln have been received year he elevator, and the moat of thla came He tells me me states.
Hill
United states that the shippling from the
In ular steamers have been run here for years
from New York, Savannah, New Orlean and Galveston, and there have been occa slonal aallings from Baltimore, Newport News, Charleaton, Brunswlck, Moblle and from Philadelphia, and in the near future Chere will be a direct steamshlp line from Lawrence, the Welland canal and the Great Lakes. These uhlps will bring cargoes of umber and provisions, and a regular serv Canada and the weat Indies.
Canada already las a line of large steamrips during the summer. These shalar
triph which bring both lumber and cattle. Some of them are of over 8.000 tons, hav'ng ac-
commodation for 700 llve beeves.
There is a good prespect for a frult trade between Manchester and the West Indies. Withln the last few months bananas have been brought here from Jamalca and a which will supply the Midiand instituted ruit, and this service may in the future be oxtended to Porto Rico and Cuba. The trult companies here have bought three way company the Chesapeake \& Ohlo Rall Each boat will brtog 40,000 bunches of Among the recent arrivala are two shipa
from the Black sea with 7,000 tons of Indian corn, the salling vessel Miltiades from San
Franclsco with 11,000 quarters of barley Franctsco with wheat and Cimmpa of Tacoma with 2,500 tona of wheat from our great northThe traffe of the canal is steadily growIng. Within the last sis months the revenue has increased to the amount of $\$ 125,000$ and there has been a steady growth in the
buainess since the beginning. The traffe of the present year will probably exceed of any year of the past.
In my ride up the canal 1 passed cotton ships from America and trom Egypt. The
Amerlcan imports up to the middle on American imports up to the middte of last
April were almost 400,000 bales and the Egyptlan about one-fourth that number. At kgyptan about one-fourth that number. At
the lumber docks I saw a ship from Moblle unloading a cargo of piteh plne and at the
same whart was one similarly louded from same whart was one simillarly louded from
Pensacola. There were great tank steamers from the Russian oll nelds at the Rusian ofl tanka on the right bank of the canal and on the left other tank steamers dis-
charging American potroleum. I passed charging American petroleum. I passed the
freezing works where the New Zealand freezing works where the New Zealand
ships land their frozen mutton in my sall in the Duke of Lelnster and also the great cattle aheds and abattoirs belonging to the Manchester corperation, of which 1 may Some Wonders of the Canal
The ride down the canal was one of great-
est inter ast. The canal company owna est interast. The canal company own of such a nature that there could be an al most ocntinuous dock from one end of it to hs other. Leaving Manchester you sall by
the great warehouses and factories on then canal's bank. Now you are passing through
cheter and nelds as rich as any in old England. They aro bounded by hedges and upon the green grass fat cattle are feeding. Cheshire county tles of the United Kingdom, on your right is the busiest manufacturing county of the whole world. We saw large anufacturing towns at every tew miles to the city. The locks were coming up quickly gone through; the sluice gates ond and shut automatically sid gates open drops twelve feet within lesi than half as many minutes.

## ohigh above the canal that the bandses

 the ships do not touch them as thants of on below. These bridges were erected at an immense cont by the canal company. The erprise, an they thought it would cut down heir tramfe between Liverpool and Manhaster, so they forced the eanal people to告解 only bulld the bridges, but to ralae the he eanal, so that the slope of the road Thessing the canal might not be steep. The most surprising bridge on the canal,however, is one where tha Biddgewater canal crosses the Manchester shlp canal. The Bridgewater canal has for yeara done a Liverpool. It was bought by the Manerend and company at the time they the Manchester company at the time they began the ship something like $\$ 100,000$ a year. it is atill in une and it carries considerable trelght. The line of this canal was right across the route necessary to the Manchester ship onstruction of tho latter would necessitate its destruetlon.
This wat cbjected to, and the engineers squeduct bridge at the crossing, ming bridge can be clesed with the water, and ven with the boats in it, and by machinery
so moved around to the side that the ships can pass through in tha greater canal below. When they have parsed the bridge moves
back fato place and the water flows on unisturbed. The aqueduet, with the water easily as though it welghed less than four.
(Continued on Eighth Page.)

