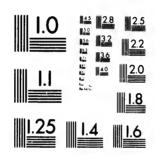
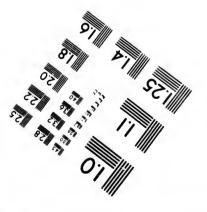
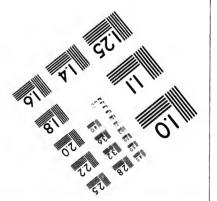


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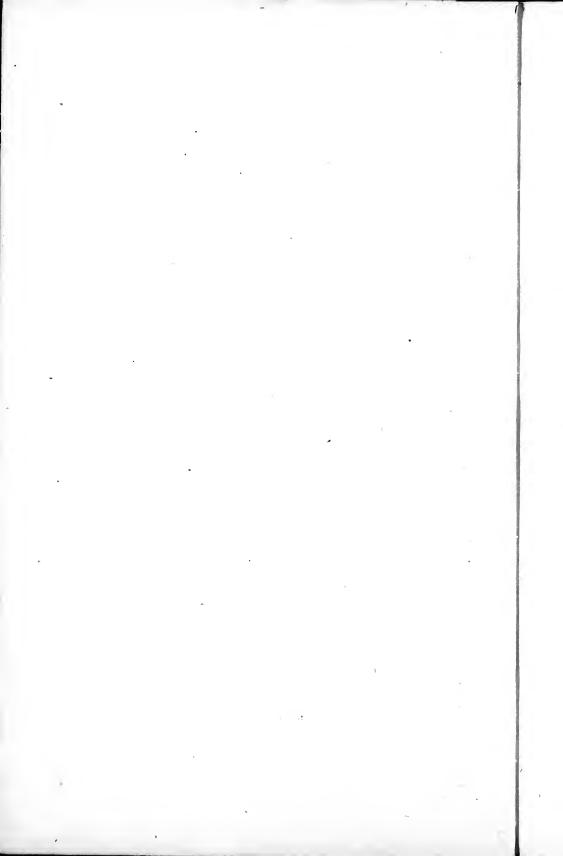
BOARD OF TRADE

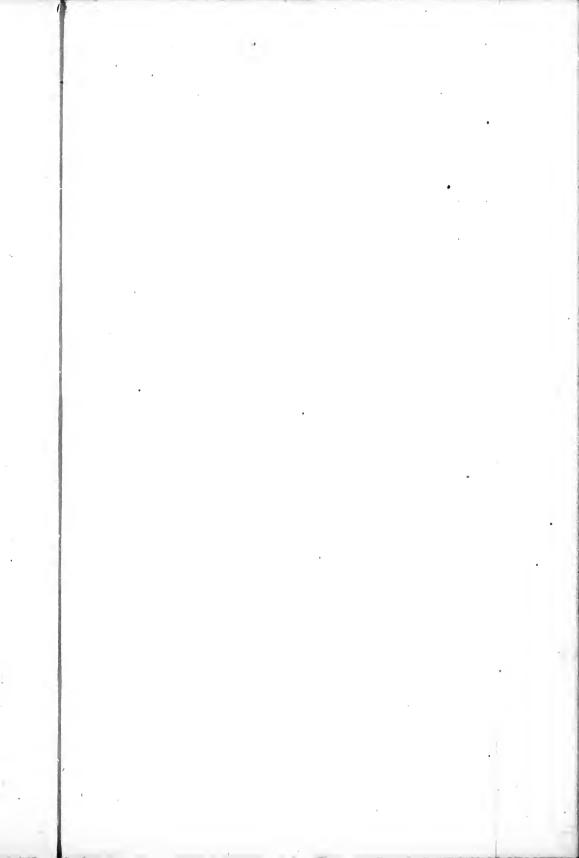
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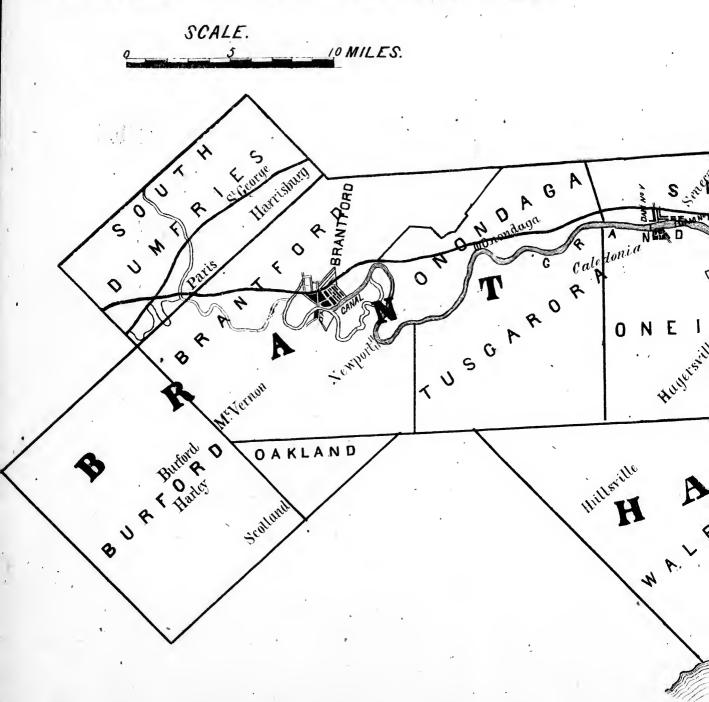


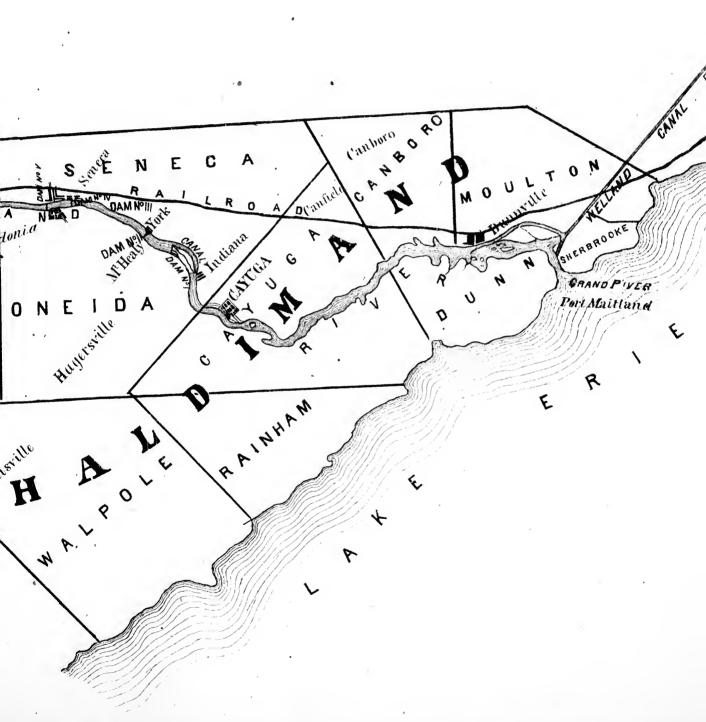
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1867.



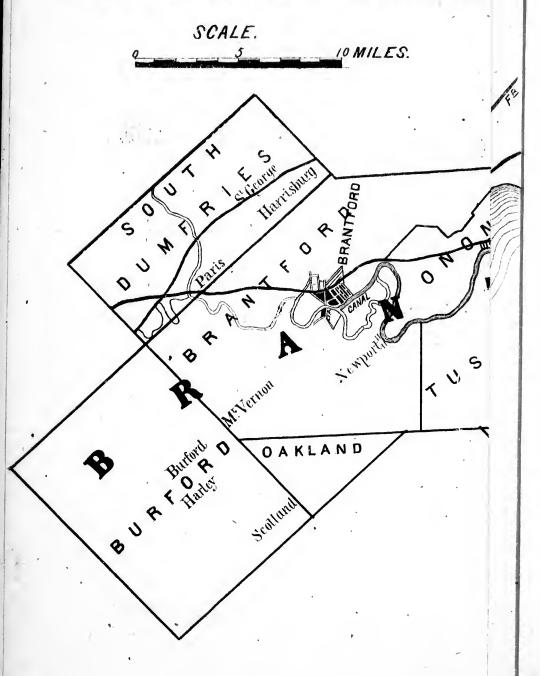


GRAND RIVER NAVIGATION





GRAND RIVER NAVIGAT



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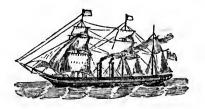
Grand Kiver Navigation:

BY THE

BOARD OF TRADE

OF

BRANTFORD.



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Report on Grand Kiver Navigation.

The Board of Trade of the Town of Brantford, considering that the Agricultural, Commercial and Manufacturing interests of the Counties of Brant and Haldimand would be most materially benefitted by the renewal of the Grand River Navigation; and considering that this most important outlet for the surplus products of these counties has, since the building of railroads, been allowed to fall into Experience is proving that railroads are incapable of removing our produce at those seasons when most required, and thus large amounts of grain, &c., annually seek an outlet through the shipping points of the Waters of Lake Ontario, which formerly passed through the Grand River, and instead of assisting to build up our towns and villages, has been diverted from this natural channel for want of proper shipping facilities. From surveys and estimates caused to be made by the Council of the Town of Brantford, a statement of which will be included in this report, it will be seen that the improvements and repairs required are not of such magnitude but that they might be easily compassed. To effect this object the Board of Trade have thought it expedient to appoint a Committee composed of the followlowing parties, viz.:

I. Cockshutt	Brantford
J. Elliott (Mayor)	,
H. Yates	
E. Roy	
J. Edgar	
R. Turner	
Danl. Brook	
H. B. Leeming	
Alex. Robertson, B. B. N. A	. "
A. Cleghorn	

D. Thompson, M. P. P	Indiana.
J. Merrell	Onondaga.
R. McKennon	Caledonia.
M. Harcourt	York.
J. Herschell	Cayuga.
A. Brownson	Dunnville,

whose duty it will be to endeavor to devise such means as may ultimately tend to the completion of this most important work.

In compliance with the foregoing resolution, the Committee, after a careful consideration of the subject, have thought it advisable to have a full and careful report made of the present position of the navigation, embracing its capabilities and the prospective advantages that must result to the Counties of Haldimand and Brant by the carrying out of this work.

The Grand River being one of the largest and most important streams in the Province, and passing through two of the most fertile counties of Ontario, and with an abundant supply of water at all times for the purposes of navigation, as also for the mills and manufactories now in operation in all the towns and villages, and which would under an improved navigation be vastly increased, makes this work a thoroughly practicable undertaking, and must commend itself to the public at large, as not only being likely, under proper management, to be made remunerative, but as conferring a benefit upon every inhabitant of the two counties. When the position of the Grand River is taken into consideration as a feeder to the Welland Canal, thus enabling produce and merchandize of all kinds to be forwarded direct to the leading markets of our Dominion, as well as to those of the United States; as also the great advantages that would be conferred upon the merchant in importing the heavier class of goods direct from the various importing markets of the country at lower rates of freight and less transhipment than by any other route. Another great and important consideration in favor of improving this navigation is its proximity to the great coal fields of America; its mouth, with its splendid harbor, being only from 30 to 40 miles from the town of Erie on the south side of that Lake—one of the principal outlets for the vast coal trade of Pennsylvania-and which would enable this great staple to be imported and laid down in our towns

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No unde farm without breaking bulk, and at as low rates of freight as to any markets in the Province of Ontario; -thus making all our towns, espepecially that of Brantford, depots of coal for the supply of a large section of the Province. From the position of Brantford, with its railway connection and probable railway extension to Harrisburgh connecting with the Great Western, and opening the markets of Guelph, Galt and points northward towards Lake Huron, it would enable shippers of this staple to lay it down at a lower cost than by any other route, at the same time tending to increase the receipts of the navigation. Salt, also, as an imported article could be brought by this route and supplied to the same markets at as low a cost as byany other. The products of these counties—such as grain, plaster, lime-stone, lumber, cord wood, railroad-ties, staves, &c.-would at all times furnish return freights to such vessels or barges as might be employed in the coal or other trades.

The following statistics of the various townships, taken from the Census of 1861 (and which have much increased since that date), will show the vast interests to be taken into consideration as being to a very great extent tributary to the trade of the Grand River:

Taking, first, the Townships of Haldimand, immediately on the banks of the river, we have the

Township of Dunn, on west side of the harbour, with 10,458 acres assessed, of which 4,622 are under cultivation and 5,836 in timbered lands, estimated cash value of farms \$284,228, and with a population of 955.

Moulton and Sherbrooke, united townships, with 18,968 acres assessed, of which 7,297 are under cultivation and 11,671 in timbered lands, estimated cash value of farms \$258,516, and population of 1,791.

South Cayuga, with 13,296 acres assessed, of which 7,172 are under cultivation and 6,124 in timbered lands. Cash value of farms \$339,080. On the banks of the river in this township are valuable limestone quarries.

North Cayuga, with 30,308 acres assessed, of which 14,036 are under cultivation and 16,272 in timbered lands. Cash value of farms \$565,910, and population of 2,919. In this township is an

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extensive bed of plaster, from which thousands of tons are annually taken and shipped to foreign markets. Plaster has recently been discovered near the village of Cayuga. There is also an extensive and valuable freestone quarry about three miles from this village.

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Oneida, with 34,924 acres, assessed of which 20,894 are under cultivation and 14,033 in timbered lands. Cash value of farms \$1,037,104 and population 3,050. In this township are also extensive plaster beds, from which, during the past year, from six to eight thousand tons have been taken.

Seneca, with 35,105 acres assessed, of which 20,206 are under cultivation and 14,899 in timbered lands. Cash value of farms \$927,069, and population of 4,577.

The following townships, although in the county, are not immediately on the river, but are also mainly depending upon this outlet and add materially in supplying produce, &c., for shipment.

Rainham, with 23,745 acres assessed, of which 13,255 are under cultivation and 10,490 in timbered lands. Cash value of farms \$699,732, and a population of 2,116. Grain market at Cayuga.

Walpole, with 60,296 acres assessed, of which 32,592 are under cultivation and 27,704 in timbered lands. Cash value of farms \$1,491,918, and a population of 4,842. Grain market Cayuga.

Canboro', with 18,281 acres assessed, of which 8,371 are under culitvation and 9,910 in timbered lands. Cash value of farms \$440,-606, and population of 1,252. Grain market Dunnville.

In the County of Brant, the townships situated on the river are:

Onondaga, with 20,762 acres assessed, of which 14,873 are under cultivation and 5,886 in timbered lands. Cash value of farms \$748,-265, and population of 2,064.

Tuscarora—An Indian Reserve—Containing 42,000 acres. This township must in the course of time be also numbered amongst the producing townships.

Brantford, with 64,553 acres assessed, of which 53,358 are under cultivation and 11,198 in timbered lands. Cash value of farms \$3,048,482, and population of 6,904.

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are under of farms The townships in this county that contribute to the trade of the river through the market town of Brantford are Burtord, Dumfries and Cakland, all fine and well-cultivated townships. A portion of the trade of Burford and Dumfries is now diverted from this channel by the Great Western Railroad, which intersects them.

Burford, with 52,203 acres assessed, of which 30,372 are under cultivation and 21,831 in wood lands. Cash value of farms \$1,610,060, and population of 5,599.

Dumfries, with 42,728 acres assessed, of which 33,934 are under cultivation and 8,794 in wood lands. Cash value of farms \$2,037,-649.

Oakland, with 10,401 acres assessed, of which 7,533 are under cultivation and 2,868 in timbered lands. Cash value of farms \$402,978, and population of 1,087.

The townships of Norwich and Townsend, although not in the County of Brant, contribute largely through the market of Brantford to amount of produce, &c., requiring shipment, and would from these two townships be vastly increased with an improved navigation.

Having given the summary of the various townships immediately interested in the improvement of the navigation, we will now give some statistics of the villages and towns (as forming the various markets for the delivery of farm products of all kinds), with their importance and capabilities as points for manufactories of all kinds.

Commencing from the mouth of the river, we have the village of Dunnville, in the township of Moulton, about six miles from the harbour on Lake Erie. Here is the first dam made for the purpose of feeding the Welland Canal, and forms the entrance to that canal from the upper waters of the river. The navigation of the river would be materially aided by the construction of a lock, allowing vessels to pass through into Lake Erie without being obliged to traverse six miles of the canal to reach the harbour, with additional tolls to pay thereon. Should this undertaking be progressed with, a proper representation to the Government might probably overcome this difficulty, as the navigation has been obstructed by the feeding the canal from the river. An extensive water power for all manufacturing purposes is, however, provided by this dam. Here is a station

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of the Grand Trunk Railway, 40 miles from Buffalo. present two flour mills, two saw mills and a woollen factory, and a population of 2,000.

The following are some of the leading articles exported, which may appear large, but this being the Port of Entry of the river, as also the entrance to the canal, they embrace to a large extent receives from points up the river: - ... [... / m [] - ...

RETURNS FROM COLLECTOR'S OFFICE FOR THE FIS-TOLAN CAL YEAR ENDING JUNE 30TH, 1866.

Produce of mines	\$80	00	
Produce of the forest	86,154	00	
Animals and their products	104,455	00	
Animals and their products	197,086	00	7
Manufacturies.	2,558	00	11
Other articles			4

Total

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These are some of the leading articles making up the above:

Staves	4751	M.
Firewood	10,023	cords.
Railroad ties	8,883	"
Butter	22,664	lbs.
Eggs	5,040	dozen.
Barley	123,664	bush.
Barley	1,696	66
Peas	6,359	"
Wheat	62,437	"

RETURNS FROM COLLECTOR'S OFFICE FOR YEAR ENDING JUNE 30TH, 1867:

Produce of mines	\$8	00
Produce of the forest	76,128	00
Animals and their products	69,683	00
Agricultural products	99,612	
Manufacturies	3,721	00

Total.....\$249,152.00

These are some of the leading articles making up the above : These are some of the leading articles making up the above : These are some of the leading articles making up the above : These are some of the leading articles making up the above : These are some of the leading articles making up the above : The second of the leading articles making up the above : The second of the leading articles making up the second of the leading articles making up the second of the leading articles making up the second

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	Firewood	9,903	cords.

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Railroad ties		pieces.
Butter		IDS.
Eggs	10,850	
Barley	142,847	busn.
Oats	7,993	"
Peas	2,420	"
Wheat	11,424	
Plaster	\$3,469	

From the Welland Canal report, showing the number of vessels passing into the river from the canal for the past year were;

Total Steam vessels	$69 \\ 158 \\ 10 \\ 1$	2,878 $16,112$ $1,072$ 25	66
	238	20,094	"
From Canadian to Canadian ports: Total vessels	56	2,098	tons.
From Canadian to American ports: Total vessels	182	16,996	tons.

At this point it has been difficult to show the local purchases from the total shipments.

Village of Cayuga, in the township of North Cayuga, is the county town of Haldimand, and 15 miles from Dnnnville. Here is the head of deep water navigation, produce, &c., from above this requiring transhipment. As will be seen by the Engineer's report, at this point it is proposed to dam the river. Should this be carried out, it will give to this village the great advantage of a valuable water power. Here at present there is a steam flour mill, with elevator for unloading wheat from barges, with several storehouses, with a capacity of 60,000 bushels. An elevator is being added to one of them for the purpose of loading and unloading grain, &c., from the upper points of shipment, which will effect a great saving in time and expense, and be the cause of much larger shipments than formerly.

The total purchases of grain for the past year have been 160,000 bushels, of which the principal part was barley.

A large amount of lumber, staves, plaster, coal, &c., is transhipped here.

Plaster has recently been discovered within the town plot, and there is an extensive and valuable free-stone quarry within three miles of the village. It is six miles from Canfield, a station on the Grand Trunk Railway, and has a population of 800.

The village of Indiana, in the township of Seneca, and three miles from Cayuga, has a large flouring mill, with a capacity of 300 bbls. per day, saw mills, distillery, carding mill and pail factory. A bridge of 500 feet in length connects this township with Oneida. Here is the first of the eight locks required to make the upper part of the river navigable. The dam here gives a fall of 12 feet, forming a most valuable water power. Population 300. At the entrance to the Indiana cut is a plaster mill, grinding annually 3,000 tons, one-half of which is exported, the balance sent to Brantford and Caledonia.

Mount Healy—a small village in the township of Oneida and four miles from Cayuga, with good water power. Now in operation, a flour, plaster and saw mill, the plaster mill grinding about 1,000 tons a year. Population of 150.

York, in the township of Seneca and six miles from Cayuga. The river is spanned here by a bridge 680 feet long. The dam here also supplies a good water power, has a flour mill with a capacity of 100 bbls. per day, oatmeal mill with two run of stones, plaster mill grinding 2,000 tons a year. About a mile from this village are the large plaster beds of Oneida. Of late years there has been no grain purchased except for milling purposes. The population is 500.

At Lock No. 3 is also an extensive water power, with saw mill and cabinet factory in operation.

At the next lock is the village of Seneca, now incorporated with Caledonia. Has a flour and saw mill and woollen factory.

Caledonia—A station of the Grand Trunk Railway, connected with Hamilton, distant 14 miles, by a gravel road, and 11 miles from Cayuga, situated in the township of Seneca and Oneida, connected by a bridge of 750 feet span. Here is also an extensive water power of $7\frac{1}{2}$ feet fall. There are two large flour mills, with a capacity of 80,000 bbls. per annum, a saw mill, woollen factory, two foundries

and cabinet factory. From here six or eight hundred thousand West India and barrel staves have been shipped for three years past. Formerly this was one of the largest grain markets on the river, but since the navigation has fallen into disuse, the whole produce trade, except what is purchased for milling, has been diverted to Hamilton, but from its central position would again beceme a large market, with an improved state of navigation. Population of 1,400. From this place is level water to within two miles of the town of Brantford.

Onondaga, in the township of Onondaga, a station on the Grand Trunk Railway, nine miles from Brantford, has a steam flour mill, with two run of stones, three steam saw mills and grain storehouses. Formerly it was also a considerable grain market. 1,000,000 feet of lumber have been shipped by railroad from here during last year. The celebrated sulphur springs of Tuscarora are about three miles from this village.

Newport, a small village in the township of Brantford, with store-houses for grain. Formerly, a good deal of produce was shipped from here. 500,000 feet of lumber were sent from here during the past year; also a quantity of staves. With an improved navigation this would become a shipping point for a large amount of produce—timber, staves, &c., from the townships of Windham and Townsend. Plaster has recently been discovered in the banks of the river at this place.

Middleport, a small village six miles from Caledonia, a station on the Grand Trunk Railway. A large amount of lumber is annually shipped from this station. About 1,000,000 feet were forwarded during the past season. It has a population of 200.

Cainsville, on the Grand Trunk Railway, situated at the locks of the canal from Brantford, with facilities for shipping grain, staves and lumber by navigation. About 1,000,000 feet of lumber were sent by rail during the past year. It has a population of 300.

The last of the locks are about two miles from Brantford, at the end of a canal of that length from the town. Here is one of the best water powers on the whole river, having a fall of 33 feet, with three locks of 11 feet fall each. Here there is a large flax mill, now engaged working up the produce of some 500 acres sown last season; a large

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ed ver of les distillery, importing some 30,000 or 40,000 bushels of corn annually; also a paper mill, capable, with a full supply of water, of turning out from 250 to 300 tons of paper a year. The woollen factory, also on this canal, is turning out 3,000 yards of cloth per week.

Brantford is the head of the navigation of the river, and is thirty miles from the deep water at Cayuga. The improvement of this navigation was commenced here in 1840, and gave the first impetus to this now flourishing town, and would again add much to its prosperity by its revival. Commercially, few towns possess greater advantages than this, it being in the centre of one of the finest agricultural districts in the Province, and possessing a most extensive water power, with capabilities of becoming one of the first manufacturing towns in Ontario. It was in former years one of the largest grain markets in the Western Province, and nothing would again establish its reputation as a market so much as by the improvement of the navigation, thus enabling produce, &c., to be shipped direct to any markets in the Province, and to compete with Hamilton or Toronto. For want of these shipping facilities, thousands of bushels of grain are unnually diverted from this channel.

The following are some of its leading manufacturies:

Four large flour mills, with a capacity of grinding 120,000 bbls. per annum.

Two foundries and engine works, employing some 200 hands.

Two tanneries.

Stoneware works, importing 300 tons of clay per year from New Jersey.

Planing mills, cabinet works, brewery and many other small factories, with a laage number of extensive grain storehouses situated on the canal, offering every facility to grain merchants to ship by this route.

Total grain of all kinds purchased during the past year was 260,000 bushels—140,000 bushels of barley, the balance being made up of wheat, peas and oats.

A large amount of other products are shipped from this market, such as 13,000 bushels potatoes, 1,700 barrels apples, and 400,000 staves. Also a large number of cattle, sheep and hogs, showing that

this point still retains its position as one of the leading markets, and would be vastly increased with greater shipping facilities.

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The following are the returns from the Collector of Customs' Office for the year ending 30th of June, 1867:

Produce of the mine	\$1,930	00
Produce of the forest		
Animals and their products	33,815	
Agricultural		00
Other articles	. 8	00
Manufacturies	200	00
Total	\$110 099	00

A large amount of goods are here imported direct from European markets. At this point the advantages of a navigation are incalculable, as offering to the large mercantile and manufacturing interests the increased shipping facilities so essential to the prosperity of this town; enabling all the heavier class of goods, such as pig iron, bar iron, nails, grindstones, coals, salt and many other articles, to be laid down at lower rates of freight than by any other route.

The population of Brantford in 1866 was about 8,000.

Space will not admit of a summary being made of any of the totals in either the towns or townships, but by a careful consideration of the foregoing statistics, it will be evident that there is a large extent of country that must be directly benefitted by the proposed work, as not only opening up home markets at which the farmer would be enabled to secure the full value of his farm products, but securing permanently to the various towns their extensive and valuable water powers, which would ultimately tend to the establishment of large manufacturies in all the villages and towns, as offering such great facilities in importing the various raw materials required for carrying on the same.

It is proposed, as far as it has been able to collect such information now, to give some estimate of the probable rates of freight that would be charged on the various articles of import and export under an improved state of navigation. They have been collected from reliable sources, being from vessel owners for years engaged in this trade. By a careful comparison, it will become evident that grain, for exam-

ple, purchased at any points would be in as favorable positions for reaching the larger markets of either our own Dominion or those of the United States as at any points of our inland waters.

The following are the rates of freight for past season on merchandize to points on the Welland Canal and from thence to Brantford:

	Fro	m thence to
St. Catharin	es. Colborne.	
General goods, per 100 lbs\$0 15		10 cts.
Bar iron, nails, crockery, per 100 lbs. 0 12½	0 15	10 %
Dig iron from an 9.240 No.		
	2 50	
Salt per bag 0 20	0 25	
These rates are from Montreal.		
Coal per ton from Erie to Cayuga		
Do. do. Cayuga to Brantford		0.38
This with 4 feet navigation		\$1 38
Salt from Buffalo to BrantfordPlaster from various points to Erie, per ton		
Average rates on grain from different poi	nts:	
From Cayuga to Buffalo, per 60 lbs. Do. do. Port Dalhousie, St. Cathai	rines or other	$3\frac{1}{2}$ cents.
points		
Do. Brantford to Buffalo		6 "
	its on wenand	e "
Canal		. о "
These rates include canal and river tolls,	they being pai	d by vessel.

Extracts from Mr. Molesworth's Report.

The entire length of the river from Brantford to Dunnville is 51½ miles; thence to the entrance into Lake Erie by Welland Canal 6 miles—by lock at Port Maitland 200 feet long. The dam at Dunnville has raised the water 9 feet; depth of feeder to the canal is from 7 feet 9 inches to 8 feet 6 inches. No improvement required to Cayuga. Depth of water to that point from 12 to 22 feet.

There are six dams. Their general condition is good, only those at Monnt Healy, Indiana and York requiring any repairs.

There are eight locks, and, although built of small rubble stone. with timber bonded through them, with horizontal timbers built on the face of the walls, with floors of timber. Locks from 1 to 5 are on rock foundations. These locks, although built of indifferent material, have kept well together, and can be put in order for the sums given in the estimates. The Brantford Locks, although built of the same materials, have been slighted in their construction and the walls badly put together. The middle and lower locks have had their side walls injured by pressure of earth from behind, which occurred shortly after their construction. Since that they do not appear to have changed, and may stand in the same condition for some time, and in estimate only include a sum for repairs, and not for reconstruction The chamber of lower lock will have to be deepened for the 4 feet, or 7 feet 9 inches in navigation, and this can only be done by entire reconstruction of the lock, which is included in those estimates.

Estimate No. 1 is for cost of ordinary repairs. This covers cost of putting dams and locks in serviceable condition, without reference to deepening the navigation. Repairs of the locks most urgent:

Indiana Lock	One set of new gates.
Seneca Lock	One set lower gates.
Caledonia Lock	One set lower gates.
Branford Upper Lock	One set upper gates.
Branford Lower Lock	

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The other repairs should be carried out during the season, if possible.

Estimate No. 2, for 4 feet depth of water. The principal part of this work will consist of excavations of rock, loose rock, gravel, mud and clay, and removing logs and boulders from the bed of the river, with 12 miles ef tow path. The repairs of dams and locks embraced in Estimate No. 1 will form part of this work, excepting repairs on Lower Brantford Lock, which in very low water has only 22 inches on the lower mitre sill and 2 feet 6 inches in the chamber, and for a 4 feet navigation will require an entire reconstruction, which is included in this estimate.

Estimates Nos. 3 and 4,11 for 6 feet and 7 feet 9 inches water throughout.

In these estimates the dams at Indiana, Mount Healy and York are to be raised 21 inches each, thereby reducing the amount of excavation. The locks are also in both cases to be deepened and increased in length from 96 feet to 150 feet, the latter being the length of locks on Welland Canal.

Large reduction might be made in No. 4 estimate by reducing the excavation between Indiana and Cayuga to 4 feet in depth, as in No. 2 estimate, by constructing a dam and lock above Cayuga Bridge, giving a lift of 4 feet; and it would be well to consider whether the disadvantage of the lock and dam, in amount of cost and detentions in passing through, would be more than counterbalanced by the saving effected.

Entire length of the navigation from Brantford to the mouth of the river is $57\frac{1}{2}$ miles, and of this distance there is over 7 feet 9 inches depth of water, as follows, viz.:

From Mouth to Cayuga "Indiana to Caledonia.	A FEW SALL ALL	21 "
Caledonia to Brantfo	rd:	173
the pairs of the locks most in	7/11 Тезірісін ч	403 "

E

Leaving 163 miles of the river and canal to be deepened. In deepening and improving the present navigation, it should be between the 4 feet and the 7 feet 9 inches. The 4 feet would admit the passage of canal boats and barges, drawing 3½ feet water, with a carrying

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In deepween the passage carrying capacity of 4,500 bushels of grain. The 6 feet navigation would give a larger class of barges, with greater capacity, but would not be sufficient to induce lake vessels to pass through, and would, therefore, entail transhipment; but the 7 feet 9 inches would admit vessels drawing 7 feet, with a capacity of 8,000 bushels and upwards, and capable of proceeding to any lake ports or Montreal, and the locks would be large enough to admit any vessels passing through the Welland Canal.

Estimate No. 1.

Estimate No. 4.

 Cost of giving 7 feet 9 inches depth of water:
 \$228,738 55

 Cost of exeavations
 \$228,738 55

 Alteration of locks to 150 feet in length
 54,671 00

 Raising dams
 3,150 00

 Twelve miles tow path
 3,600 00

 Engineering expenses
 29,015 95

 ————\$319,175 50

Cost of obtaining 7 feet 9 inches water between Indiana and Cayuga by a lock and dam above Cayuga, giving 4 feet lift and excavation to 4 feet, as per Estimate No. 2:

Estimate of lock and dam	\$23,500	c0
Excavation of 4 feet	9,636	3)
Land damages	3 000	0.3

\$36,136 30

44,664 73

The cost of excavation between Indiana and Cayuga is:

By No. 4 Estimate	\$36,327 80
Less by cost of lock, &c	36,136 30

\$50,191 50

Total cost for 7 feet 9 inches water, without dam at Cauga, is\$319,175 Less saved by dam	50 50
Total \$268,984	

This report was prepared and the necessary surveys made by order of the Council of the Town of Brantford, and submitted by Mr. Molesworth.

The following is from the books of the Navigation Company:

It is difficult to ascertain the actual amount originally expended in the construction of the navigation, but it may be fairly estimated that up to the present time the sum of \$400,000 has been laid out in the construction of the works.

In the amounts credited for tolls, they are for the most part made up from the shipments of lumber, staves and plaster. Of late years no grain or produce has been forwarded.

It will be seen that, during the past six years, the sum of \$41,462 has been paid from the proceeds of the navigation to the Treasurer of the town of Brantford.

The property at present owned by the Navigation Company is as follows:

In the Town of Brantford:

All that property situated on the bank of the canal on which	
the present storehouses are built, for which ground rent	
is paid. This is especially valuable as offering additional	
building sites for shipping purposes. Also to the east of	
Mr. Watt's mill, 5 acres of land, which is fairly estimated	
at\$300	00
At Onondaga, 2 village lots	00)
At Seneca, 14 " "	
At Lock No. 3, 30 acres, at \$25 750	00
At Indiana, 10 village lots 400	00
At the head of Indiana Canal, there are several acres of low	land

At the head of Indiana Canal, there are several acres of low land that in time will be of value.

Receipts and Expenditures of Navigation Company from 1860 to 1866.

1860 and 1861:

	1000 and 1001.			
	Receipts:			
Τo	Rents for two years Tolls " "	\$13,996	15	
"	Tolls " "	10,231	15 1	
	-		\$24,227	301
•	Expenditure:		•	2
"	Previous debts	\$1,223	743	
44	Construction account	6,438	14	
"	Contingent account	773	031	
"	Salaries.	3,385		
"	Paid Town Treasurer	11,800		
.66	Balance on hand.	606	901	
			\$24.227	301
			¥=1,001	002
	1862.			
	Receipts:			
"	Rents	\$6,248	87	
"	Tolls	6,552		
46	Tolls Balance due 1861	606	901	
	_	000	\$13,408	601
	Expenditure:		Ψ.υ, ±υυ	003
"	Construction account.	\$3,310	171	
"	Salaries	1,758		
"	Contingent account	445		
"	Paid Town Treasurer	7,000		
. (Balance on hand	895		
	Dalanco on handeseessees sees.	000		COL
	·		\$13,408	093
	1863.			
	Recipts:			
66	Rents.	QC 254	00	
"		w - j		
"	Village lote			
"	Village lots	43		
"	Fines	20		
11	Use of lighter	15		
•••	Balance of 1862	895		
	-		\$11,523	067

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	Expenditure;			
"	Construction account	\$1,819		
"	Contingent account	455		
"	Fines refunded		00	
"	Salaries	1.896	-	
"	Paid Town Treasurer	7,104		
••	Balance on hand	226		1
			\$11,523 06	2
	1864.			_
	Receipts:			
"	Rents	\$6,291	60	
"	Tolls	5,286	401	
	Balance, 1863	225	871	
"	" Difference, 1863	55		
			\$11,859 74	
	Expenditure:		w11,000 11	
"	-	\$2,300	30	
44	Contingert account	525	26	
46	Salaries	1,645		
"	Paid Town Treasurer	7,300		
46	Balance	89		
	-		\$11,859 74	
	1865.		. ,	
	Receipts:			
"	Balance	\$263		
"	Tolls	4,854		
٤٤	Rents	5,738	56	
"	Construction account		20	
"	Sale of land	62		
"	Loss on premium on bills		80	
44	Due Superintendent	13	67	
	23 11.		\$11,057 95	$\frac{1}{2}$
"	Expenditure:	# 1 000	0=1	
	Construction accountilization and	\$4,829		
"	Contingent account	570		
"	Salaries	1,599		
	Paid Town Treasurer	4,058		1
	-		\$11,057 95	2
	1866.			-
	Receipts:			
"	Balance	\$31	08	
"	Rents	5,235	613	
44	Tolls	3,489		
		,		

			_		
	-			\$9,135	$03\frac{1}{2}$
46	Balance on hand	12	49		
	Paid Town Treasurer	5,120	52		
	Salaries		$45\frac{1}{2}$		
"	Contingent account	149			
"	Construction account	\$3,185	57		
	Expenditure:				-
	_			\$9,135	031
6.	Construction account	74	16		
"	Contingent account		00		
"	Premium on bills	45	40		
	Sale lands	255	343		

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 $95\frac{1}{3}$

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As a part of the duty assigned to this Committee is to endeavor to devise ways and means for the permanent improvement of the navigation.

They have, after a careful consideration of this portion of the subject, been led to consider that, as the Counties of Brant and Haldimand are most materially interested in the improvement of the navigation, they would recommend that the County Councils be solicited to aid in carrying out the proposed work. That, failing any action being taken by those bodies, the Committee would most strongly urge as the next best method the at once forming a Joint Stock Company under the Limited Liability Act, with a capital of \$50,000 or \$60,000, in shares of \$100 cach. The Committee are led to believe that, with proper management, there would be no difficulty in raising the sum required, as many of the leading men of both counties express a readiness to take part in the formation of such a Company.

As the town of Brantford is at present the owner of the navigation, there is but little doubt but that it would be the interest of the town, and would meet with the approval of every ratepayer, if the Council were to consent to throw off a large amount of their claim, taking the balance as stock in the proposed Company; thus simply adding to the amount of the stock of the Company by the amount of the reduced ciaim of the town, which would probably bring the total stock to within \$100,000, and place the principal invested at such figures as would insure the payment of a reasonable rate of interest from the receipts of the navigation, at the same time release the Corporation of Brantford from the responsibility of the entire charge of the works.

It will be seen by the Engineer's Report that the sum of \$44,664 is required to complete a 4 feet navigation. Thus the sum proposed for the formation of the Company would be ample to cover all contingencies.

It will be seen by the receipts of the navigation for the past few years (even in its present unsatisfactory condition), that it would produce a sufficient revenue to pay a fair rate of interest on the proposed capital of the Company, and which would be greatly increased with an improved navigation.

In laying this scheme before the public, the Committee have great confidence in its ultimate success, if those interested will give the subject a fair consideration, and give it that support which a work of such importance to the well-being of the two counties so justly merits.

In conclusion, it must be evident that the improvement of the Grand River navigation would greatly increase the facilities and lessen the expenses of transportation through these counties, and thus enhance the value of property by increasing the profits on articles of exportation and lessening the cost on such articles as are imported. This Committee, therefore, feel that they cannot urge too strongly the great necessity of some immediate action being taken, and sincerely trust that the great importance of this work to the Counties of Haldimand and Brant may commend itself to the public at large, and that the report now presented may be the means of awakening an interest on the subject that will ultimately tend to its completion.

And all of which is respectfully submitted.

W. J. IMLACH, Secretary Board of Trade, Brantford. Some of the Leading Manufacturies in Brant and Haldimand from Returns of 1861.

Pail Factories. 6.000 Shingle Mills. Annual Produce. Annual Produce, 80 :01 F* : Mo. Given. No. Given. Cabinet Facturies. 6.500 Broom. Annual Produce. An al Produce. No. Given. Ao. Given. Foundries. \$ 114 000 24.000 Harness. Capital Invested. Aunual Produce, (O ?) Many additional Mills and Factories have been put in operation since the date of this census No. Given. m : Ac. Given. 43,840 400 Agricultural Implements. Tanneries. 10.823 Capital Invested. Annual Produce. 9-No. Given. No. niven. 1000, LOT Brick Yards. Distilleries. 20 000 16.000 Capital Invested Annual Produce. **~** ₩ No. Given. -No. Given. Bouts and Shoes Woollen Facivries. 15.000 19,000 Capital Invested. Annual Produce. - : No. Given. No. Given, 13 890.000 Fanning Mills. No. of Feet. 7 300 Annnal Produce. Saw Mills. 110.700 116.400 'No. Given. Capital Invested. Soap and Candles. \$ 000 Annual Produce. 37 No. Given. No. GIVOL 92 000 26 No. Buls. Potteries. \$.4.800 Annual Produce. 8n.h. 380 000 1.0 0.0 Flour Mills. Wheat Used. No. Given. Paper Mills. 211.620 14 000 Annual Produce. Capital Invested. 11. No. Given: | No. Given. - : Braut..... COUNTIES COUNTIES.

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\$44,664 proposed all con-

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AGRICULTURAL PRODUCTS-1861.

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BRANT AND HALDIMAND.

Townships,													
	L WHEAT.	SPRING	SPRING WHEAT.	ВА	BARLEY.	P	PEAS.	0	OATS.	INDIAN	INDIAN CORN.	PotA	Potators.
	s. Eush.	Acres.	Bush.	Acres.	Bush.	Arres.	Bush.	Acres.	Bush.	Acres.	Bush.	Acres.	Bush.
Branford 29.574 Burford 5.573		3.409	61.446	1.223	32 996	2 943	96,937	4 017	107.362	1 121 6 12	42 150	1,031	115.791
Dumfries. 8.652 Oakland. 1.674		1,233	23 062	1.248	34 470	1.933	41.747 8 291	2.056	16,006	257	7.418	419	61 783
	4 41.161	1.654	28.343	131	3.037	339	22 662 7 888	1,415	46.465	413	2 301	240	22 403 13.774
Total Brant. 39,414	4 561.913	10.359	172.537	4.232	115,936	9.403	225 213	10 727	316.561	2 630	82.317	2.752	293.103
Canboro203		754	10.033	297	6.753	169	9.457	947	26,767	S.	4.148	116	14.894
Oayuga North	6.032	1.902	15 547	680	15.191	1,415	26 662	1,553	48.545	36	3.125	916	1.9 663
		817	17 462	203	6.713	163	12.136	426	18.358	159	2.359	8	13.077
_	_	823	13.372	262	6 237	2149	10 631	750	14 537	1.8	5.372	224	22.832
Oneida	_	1.966	27.316	1.152	28,841	1.913	43.213	1,769	61.312	126	4 014	237	39.986
-		2.059	41.233	1.000	28 955	2.053	42.317	2.233	79.465	3 2	1.105	290	S0 495
		4 218	63 093	2,381	61.320	.4.367	105 627	3,930	140.748	109	3,323	435	49.175
Total Haldimand 10.954	4 96.850	16.258	250 026	7,475	181.322	13.716	296 3:28	13.639	458 181	829	28 001	1 963	231.025

