

Brantford



The TELEPHONE

CITY

INDUSTRIAL SURVEY

Industrial Survey
of
Brantford, Ontario, Canada

Prepared by

Brantford Industrial Commission

with the co-operation of

The Canadian National Railways
(Department of Research and Development)

1 9 4 6

THIS Survey of industrial information concerning the City of Brantford has been prepared to serve as one agency whereby the advantages of Brantford, as a suitable location for industry, may be brought to the attention of managements considering the establishment of industrial and commercial enterprises.

We have included in the booklet information on many points that are of vital importance to executives planning a new development, or the establishment of a branch of a company already operating successfully elsewhere. Where feasible, we have given detailed information, but where such details are impracticable we have stated conditions and facts in a more general way. More specific information on any point will be provided upon request.

Inquiries will be welcomed, and we will respect your wishes that they be kept confidential. The City Council, Industrial Commission and Citizens of Brantford, you may be assured, are ready and anxious to co-operate with you.

The Industrial Commission
City of Brantford

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Brantford, Canada . . .

BIRTHPLACE OF THE TELEPHONE

There is no single achievement that rebounds in greater measure to the lasting fame of Brantford than the invention here, in 1874, of the telephone by Dr. Alexander Graham Bell.

Bell's residence on Tutela Heights, whither he had been brought in 1870, by his father, Professor Alexander Melville Bell, has been retained as a memorial of the telephone and its inventor.

In a chronology prepared in his own handwriting, Bell declared the invention of the telephone to have been at Tutela Heights, Brantford, in the summer of 1874; first draft of the telephone patent specifications prepared, Brantford, September, 1875; first successful attempt to transmit speech over a telegraph line, Brantford, August, 1876 (this was between Brantford, where the transmitter was located, and the neighbouring town of Paris, where the receiver was held, and the date was August 19, 1876); first public demonstration of ability to speak over a telegraph line, Brantford, August, 1876; first transmission of a number of voices simultaneously over a telegraph line, Brantford, August, 1876.

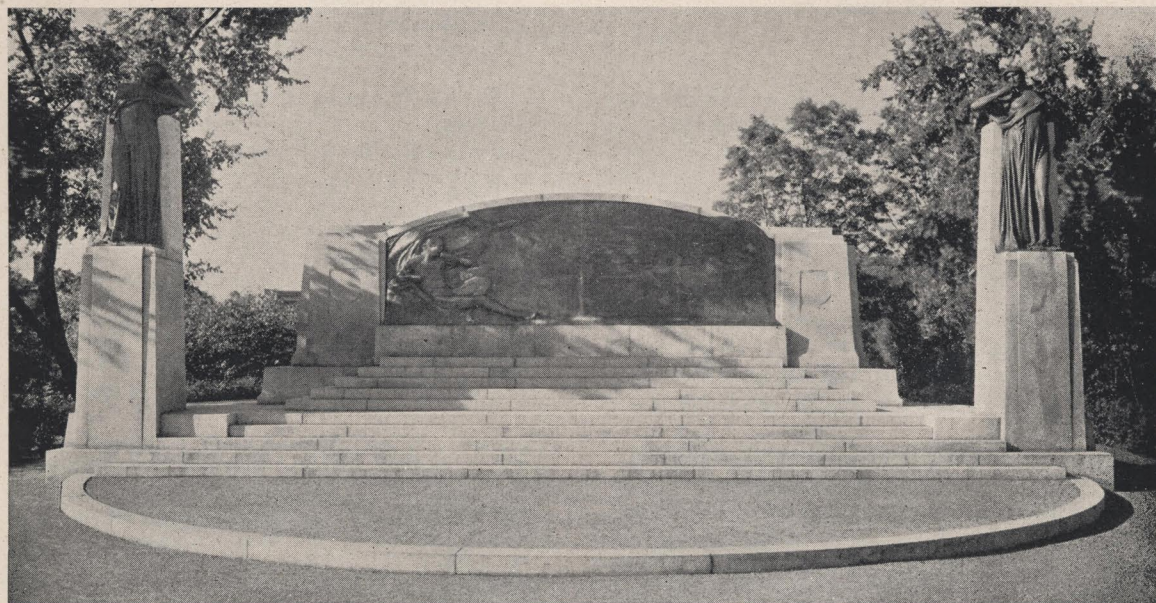
On October 24, 1917, the Bell Memorial was unveiled. Dr. Bell himself was present on the



The Bell Homestead, Tutela Heights

occasion of the unveiling and again corroborated Brantford's claim, declaring that while the telephone had been made in Boston in 1875, "it was invented the year before at Tutela Heights, in Brantford, Ontario."

Hence Brantford's title: "the Telephone City."



The Bell Memorial, commemorating the invention of the telephone in Brantford in 1874

City of Brantford, Ontario

Industrial Notes

Brantford, Ontario, is located on the Grand River, 66 miles west of Toronto, and 400 miles from Montreal by rail.

The industries of Brantford are widely diversified. Products include:

Abrasives (Paper and Cloth)
Agricultural Equipment
Aircraft Sections

Baker's Machinery
Binder Twine
Blankets
Bolts and Nuts
Bolt Threading Machinery
Brooms - Brushes

Canned Goods
Carpets
Castings
Caulking Materials
Cement Blocks
Clocks
**Concrete Waterproofers and
Hardeners**
Confectionery

Dresses

Electric Motors

Farm Implements
Floor Wax
Flour and Feed

Generators
Glue

High Temperature Cements
Hosiery (Silk and Woollen)
Hydrants

Jeweller's Supplies

Lighting Fixtures

Machine Tools
Machinery
Malleable Iron Castings
Mattresses

Meat Supplies
Moulded Pulp Products

Overalls

Paints
Paper Boxes
Paper Specialties
**Parallel Tubes for the
Textile Industry**
Paving Materials
Piano Actions and Keys
Plastic Fire Brick
Porcelain Fittings
Pulp Mill Equipment

Refrigerator Cases
Rivets
Road-making Equipment
Roofing Materials
Rugs

Saw Mill Equipment
Shirts
Silicates of Soda
Springs
Sporting Goods
Stationery
Structural Specialties

Tanks (Metal and Wood)
Toys
Truck Bodies

Valves
Varnishes

Wagon Bodies
Watches
Wood Patterns
Woollen Goods
**Wiping Cloths and Polishing
Mats**

The following notes, covering pertinent industrial factors which are usually taken into consideration in the location of a manufacturing operation, have been prepared with a view to having at hand in convenient form, a summary of the prime characteristics of this industrial centre and in order to bring its advantages to the attention of prospective in-

dustry. A map of the City, showing the location of railway facilities, water and sewer lines, principal industries now located at Brantford, etc., accompanies this memorandum.

A sketch map indicating the location of Brantford with reference to other centres of Canada, and the adjacent part of the United States, is also attached.

History

In 1784 a strip of land six miles wide on each side of the Grand River was given to the Six Nations Indians in order to fulfil a pledge made to Chief Joseph Brant by the British Government, to recompense them for their homes abandoned in the Mohawk Valley, New York State, during the American Revolutionary War.

From this Indian settlement to London, a well-worn trail led across the Grand River, over which Brant swung a boom to facilitate the crossing of his followers. The name "Brant's Ford" soon, by common use, became Brantford.

In 1830, the Indians gave "a lot a square mile for a village at Brantford," and in 1847, Brantford, with a population of 2,000, was incorporated a town. In 1877 it was incorporated a city. The original "square mile" has now expanded to nearly five square miles.

As in most Ontario centres, early industrial development was based on the products of the land, and Brantford grew up around its flour and grist mills. Peopled by a community of enterprising farmers, it soon became one of the largest grain markets in Western Ontario. Supplying the wants of these farmers provided the impetus for the city's industrial growth. Its focal situation on the great peninsular section of Ontario has contributed to its development as an outstanding producing and distributing centre.

Brantford is the site of "His Majesty's Chapel of the Mohawks," the first church built in Ontario, and is notable as the birthplace of the telephone, invented in a suburb, Tutela Heights, in the summer of 1874 by Alexander Graham Bell.

ALTITUDE

The general elevation of the city is about 700 feet above sea level.

AVERAGE TEMPERATURE

Average maximum: 53.01

Average minimum: 35.89

Transportation

RAILWAY

In addition to being on the Canadian National Railways' double-track main line from Montreal, through Toronto, to Chicago, Brantford is at the point where two main lines from the Niagara Frontier converge, i.e., on the important freight routes from Buffalo (Black Rock) and Niagara Falls (Suspension Bridge), N.Y. A 36-mile branch line of the Canadian National Railways also runs from Brantford to Tillsonburg, a point on the Canadian National-Wabash through-freight line from the Niagara Frontier to Windsor and Detroit.

The Toronto, Hamilton & Buffalo Railway line from Hamilton to Waterford passes through Brantford, connecting at Hamilton with the Canadian Pacific Railway, and at Waterford with the Michigan Central Railroad.

The Lake Erie & Northern Railway, an electrically-operated subsidiary of the Cana-

dian Pacific Railway, passes through Brantford enroute from Galt (where it connects with the C.P.R.) to Port Dover, a port on Lake Erie.

The location of railway facilities at Brantford is indicated on the accompanying City Plan.

Railway service to and from Brantford as at this date is as follows:

PASSENGER SERVICE

Canadian National Railways:

between Brantford, Sarnia and Chicago—daily—three trains each way.

between Brantford, Toronto and Montreal—daily—five trains each way.

between Brantford, Windsor and Detroit—daily—four trains each way.

Transportation

PASSENGER SERVICE (Continued)

Canadian National Railways:

between Brantford and Toronto—daily except Sunday—one local train each way in addition to above through trains.

between Brantford and Sarnia—daily except Sunday—one local train each way, operating as far as London on Sundays, in addition to aforementioned through service.

between Brantford and Fort Erie—daily except Sunday—one motor train each way.

between Brantford and Stratford (via Paris Jct.)—daily except Sunday—one motor train each way.

between Brantford and Tillsonburg—daily except Sunday—one train each way.

Toronto, Hamilton and Buffalo Railway:

between Brantford and Hamilton—daily except Sunday—one motor train each way.

between Brantford and Waterford—daily except Sunday—one motor train each way.

Lake Erie and Northern Railway:

between Brantford and Galt—daily—seven electric trains each way, and one additional daily except Sunday.

between Brantford and Port Dover—daily—seven electric trains each way, and one additional daily except Sunday.

EXPRESS

Canadian National Express—operates over C.N.R.

Railway Express Agency, Inc.—operates over T. H. & B.

Canadian Pacific Express—operates over L. E. & N.

FREIGHT SERVICE

Canadian National Railways:

To and from Montreal, Toronto, Suspension Bridge and Black Rock on the east, and

London, Guelph, Stratford, Sarnia, Windsor, Detroit and Chicago on the west—daily.

To and from connections with the Wabash Railway at Tillsonburg—daily except Sunday.

Toronto, Hamilton and Buffalo Railway:

To and from Hamilton on the east, and Waterford on the west, connecting with Canadian Pacific Railway at Hamilton, and Michigan Central Railroad at Waterford—daily except Sunday.

Lake Erie and Northern Railway:

To and from Galt, Preston, Kitchener and Waterloo on the north, and Waterford and Port Dover on the south, connecting with Canadian Pacific Railway at Galt and Michigan Central Railroad at Waterford—daily except Sunday.

FREIGHT DELIVERIES FROM BRANTFORD (All lines make approximately the same time):

	Carload	L.C.L.
To Toronto	1st day	1st day
Montreal	2nd day	2nd day
New York	2nd day	4th day
Chicago	2nd day	4th day
Suspension Bridge	1st day	2nd day
Black Rock	1st day	1st day
Detroit	1st day	2nd day
Port Huron	1st day	2nd day
Winnipeg (all rail)	4th day	5th day
Edmonton (all rail)	7th day	8th day
Vancouver (all rail)	9th day	10th day
Halifax	5th day	8th day

All three lines operate "Pick-up-and-Delivery" freight services in Brantford, and interchange carload traffic with each other at regular tariff rates. Each railway maintains a yard engine for the prompt servicing of industry.

(Note: "First Day" means the day following the date on which shipment is loaded.)

CITY TRANSPORTATION

The City bus system of Brantford is operated by the Brantford Public Utilities Commission.

Busses operate from 6.20 a.m. to 11.15 p.m. daily, all units arriving and leaving at a central terminal.

The schedule is on an average 12-minute service.

The Commission operates thirty busses, all modern and first class transit type busses.

Transportation

INTERURBAN BUS SERVICE

Canada Coach Lines, Ltd.—10 trips daily to Hamilton; 11 trips daily to Burford; 5 trips to Tillsonburg.

Grey Coach Lines, Ltd.—3 trips daily to Detroit.

Brantford Coach Lines—12 trips daily to Paris.

Charles Coach Lines—4 trips daily, except Sunday, to St. George; 1 trip to St. George on Sundays.

AIRPORTS

No commercial air services are operated out of Brantford at time of survey. We anticipate the Burtch Airport will be declared sur-

plus and will be used as an airport for both flying and commercial use very shortly.

WATER TRANSPORTATION

The nearest Lake ports are Hamilton, on Lake Ontario, 25 miles east of Brantford, and Port Dover on Lake Erie, 30 miles south.

Hamilton has one of the largest and most completely developed harbours on the Great Lakes, and is a regular port of call for package freight steamers bound up the Great Lakes

and down the St. Lawrence canals to Montreal and Gulf ports. In normal times, certain bulk commodities are handled from overseas directly to Hamilton, via the canal system, without transshipment at Ocean ports.

The controlling depth through the entrance channel into Hamilton Bay is 23 ft. at low water

PORT DOVER HARBOUR

Port Dover is 30 miles south of Brantford via Lake Erie and Northern Railway.

The depth of water at the entrance to the harbour is about $9\frac{1}{2}$ feet at normal level, and harbour entrance is between two piers 1,000 feet long and 100 feet apart.

Dock accommodation: Dominion Government Wharf—1,000 ft. long, with a 10 ft. depth of water alongside. This wharf has a rail siding, but no warehouses or cranes.

HIGHWAYS

Highway No. 2—Montreal and Toronto to Windsor and Detroit.

Highway No. 24—Simcoe to Guelph, connecting at Guelph with Highway No. 6 for Fergus, Durham and Owen Sound.

Paved County roads to Burford and Onondaga.

Communications

TELEGRAPH

Canadian National Telegraphs and Canadian Pacific Telegraphs, both lines having connections to the United States and overseas cables via Western Union and Postal Telegraphs.

TELEPHONE

Bell Telephone Company local and long-distance service.

Water Supply

Brantford obtains its water supply from the Grand River. Raw water is passed through gravity filters and chlorinated.

ANALYSIS OF WATER SUPPLY

Date sampled, March 24, 1938, December 21, 1938. Method of purification—Coagulated filter, chlorinated.

Colour	ppm	10.0	20.0	Nitrate (N03)	ppm	0.6	0.1
Alkalinity	"	177.0	150.0	Total hardness as CaCo3	"	248.3	393.0
Total dissolved solids				Calcium hardness	"	207.3	270.0
dried at 110 C	"	358.8	500.0	Magnesium hardness	"	41.0	123.0
Silica (Si02)	"	6.8	7.0				
Iron (Fe)	"	0.16	0.08	Hardness:			
Calcium (Ca)	"	82.9	108.1	Total hardness	"	338.5	
Magnesium (Mg)	"	21.8	30.0	Calcium hardness	"	239.7	
Hydrocarbonate (HC03)	"	216.6	280.0	Magnesium hardness	"	98.8	
Sulphate (S04)	"	79.9	150.0	Calcium	"	96.0	
Chloride (CL)	"	10.0	18.0	Magnesium	"	24.0	

PUMPING CAPACITY

16,000,000 gallons per day. Present consumption, 3,500,000 gallons. Balance is reserve capacity.

INDUSTRIAL RATE

The basis for charging metered water accounts is a sliding scale of rates, the charge per 100 cu. ft. being gradually reduced as the consumption increases.

The minimum charge is 77 cents per two months' period, which entitles the user to 275 cu. ft. at a rate of 28c per 100 cu. ft., the equivalent of 623 Imperial gallons and 748 United States gallons.

For larger consumption the rates per 100 cu. ft. are reduced until for a maximum consumption of 250,000 cu. ft. a rate of 7.82 cents per 100 cu. ft. is charged

The rates are subject to 15% discount for prompt payment.

The following table gives the price per 100 cu. ft. as the consumption noted.

Consumption	Rate per 100 cu. ft.
300	28.
1000	22.8
2000	20.2
3000	18.9
4000	18.1
5000	17.4
10000	15.4
20000	13.6
30000	12.7
40000	12.1
50000	11.7
100000	10.4
150000	9.7
200000	8.8
250000	7.82

1 cu. ft. equals 6.232 Imperial gallons, and 7.48 United States gallons.

No service rates. No frontage charge for water mains.

Water Supply

GENERAL

The water receives preliminary purification by natural filtration through gravel in large ponds located on the 275-acre waterworks farm. A new filtration plant was completed in 1930. There the water is coagulated with alum, passes into filtration tanks where activated carbon is used to take out any odour or taste. It is then filtered through about five feet of sand and gravel in the filters and then into storage tanks. About 1¼% of the water pumped is used for cleansing of the filters.

Pumping station is equipped with three pumps: one with a capacity of 4,000,000 gallons per day and two with capacities of 6,000,000 gallons each per day. All pumps are equipped with boosters for use in fire emergencies.

Standby Equipment:—Three 365 h.p. Mirrlees diesel engines generating 25-cycle power (same cycle as the City Hydro system). These engines can be used in an emergency or at a period when the Hydro power is at its peak of power consumption. There are no overloaded points on the water system.

Power

INDUSTRIAL POWER — CITY

Power is distributed by Brantford Public Utilities Commission and supplied by Hydro Electric Power Commission of Ontario, which generates or purchases it from plants located at Niagara Falls, Ontario, and at Beauharnois, Gatineau and Chats Falls, Quebec.

The city is served by a 26400 volt loop from the Hydro Electric Power Commission station just outside Brantford. The loop is connected through four sub-stations of the city system—Yorkshire Avenue, Greenwich Street, Murray Street and Clarence Street.

Transformers—4 Crocker Wheeler, 3-phase

25-cycle, primaries 26400 v, secondaries 4000 v, 750 Kva. each.

Transformers—4 Crocker Wheeler, 3-phase 25-cycle, primaries 26400 v, secondaries 4000 v, 1500 Kva each.

Transformers—2 Packard, 3-phase 25-cycle, primaries 26400 v, secondaries 4000 v, 1500 Kva each.

Total 9000 Kva.

Distribution: Primaries 4000 v and 2200 v, 25-cycle 3-phase; secondaries 100 v, 220 v, 550 v.

INDUSTRIAL RATE

Service charge of \$1.00 per h.p. per month installed load or maximum demand.

CONSUMPTION CHARGE:

- 1.5c. per kw hr. for the first 50 hours use.
- 1.09c. per kw hr. for the next 50 hours use.
- .33c. per kw hr. for the balance of consumption.

MINIMUM BILL:

75% of previous high demand in h.p., less discounts.

DEMAND CHARGE:

Demands measured with Lincoln Demand Meters, 20 minutes being the time element.

DISCOUNTS:

- 25% local discount.
- 10% prompt payment.

POWER SUPPLY — TOWNSHIP

Township of Brantford Hydro Electric System (which purchased its system in the Brantford suburban areas from the Hydro Electric Power Commission of Ontario in January, 1942). Power is supplied the Township system by the Hydro Electric Power Commission of Ontario which generates or purchases it from plants located at Niagara Falls, Ontario, Beauharnois, Gatineau and Chats Falls, Quebec.

CHARACTERISTICS:

Primaries 4000 v. and 2200 v., 25-cycle, 3-phase; secondaries 110 v., 220 v. and 550 v.

INDUSTRIAL RATE:

Service Charge: \$1.00 per h.p. per month installed load or maximum demand.

Consumption Charge: 1.8c. per kw. hr. for first 50 hours use of connected load or maximum demand.

Power

POWER SUPPLY — TOWNSHIP — Continued

INDUSTRIAL RATE—Continued

1.1c. per kw. hr. for next 50 hours use of connected load or maximum demand.

33c. per kw. hr. for additional monthly consumption.

Discounts: 10% local discount. 10% prompt payment.

Water Heater Flat Rate: 38c. per month gross per 100 watts.

10% prompt payment discount.

Street Lighting: Net rate \$10.00 per 100 watt multiple lamp.

GAS SUPPLY

The Dominion Natural Gas Company, Ltd., head office, 220 Delaware Ave., Buffalo, N.Y. (subsidiary of Cities Service Oil Company), which owns, drills and leases natural gas wells all through the peninsula of Western Ontario. Main fields, are in the vicinity of Tilbury, Tillsonburg, Port Rowan, Port Dover, Selkirk, Cayuga, Dunnville, Canboro, Blackheath and Binbrook, in Middlesex, Haldimand and Norfolk counties. Another field exists at Onondaga, very close to Brantford. The Company now obtains gas from 2500 wells, and drills approximately 100 wells per year, as do independent producers. The Company serves 45,000 customers, 6,400 of which are in Brantford.

To augment the system in Brantford during peak periods in the winter, liquified propane gas is purchased in cylinders and shipped from Montreal to Brant County Siding, near St.

George. At the Company's plant on the Governor's Road, near Brantford, the liquid is converted to gas, and its 2500 B.T.U. is cut with air to 1100 B.T.U. to mix with natural gas. The Brantford plant is the first high-pressure plant of its kind in Canada.

INDUSTRIAL RATE

Commodity Charge:

Regular rates to all customers:

All gas used up to and including
10,000 cu. ft. 85c per 1000
Next 15,000 cu. ft. 70c per 1000
All gas over 25,000 cu. ft. 60c per 1000

Minimum Bill: 85c per month.

Discounts: .05c. per 1000 cu. ft. if account paid on or before last discount day.

Above rates apply to the cities of Brantford, Ingersoll, Paris, Woodstock and Galt.

Labour Supply

POPULATION

Population of City of Brantford—35,312 (1945).

Population of Brant County, over and above that of the City of Brantford—21,768 (1945).

One-seventh of Canada's population resides within a radius of 70 miles of Brantford (see map at the back of this Survey).

Racial origin of population (1945 census):

British	-	31,990	89.00%
Polish	-	927	3.07%
German	-	589	1.95%
Dutch	-	554	1.83%
French	-	486	1.61%
Italian	-	439	1.45%
Asiatic	-	327	1.09%

INDUSTRIAL EMPLOYMENT

Wage earners in all of Brantford's industries in 1945 totalled:

Male	-	-	-	10,515
Female	-	-	-	3,460
Total	-	-	-	13,975

UNEMPLOYMENT

At time of survey, December 1945, there was very little male unemployment.

Labour Supply

LABOUR CONDITIONS AND SUPPLY

The wide diversification of industry in Brantford has attracted most types of skilled and semi-skilled labour to the community, together with a normal complement of common labour. This, combined with a history of fairly steady progress in new construction, has made for a stable labour situation. In fact, during periods when many communities were unable to provide employment, Brantford has usually been able to maintain its workers in useful occupations.

Rates of pay for skilled workmen in Brantford throughout the past twenty years have compared favourably with rates in other Ontario cities of like population. The same may be said of unskilled labour, and figures for both, as reported by the Dominion Department of Labour, have held at about the average for Ontario for the past twenty years.

A large group of men and women normally engaged in agriculture in the country surrounding Brantford can be drawn upon in pressure periods for use as unskilled labour. The tobacco-growing industry in Norfolk and part of Brant County, for instance, employs large numbers of men for short periods, who are available as common labour the balance of the year.

The number of persons employed in insured occupations under the Unemployment Insurance Act, including factory, office and store workers, is close to 19,000. Of these, roughly 6,000 are women. Out of this total of 19,000, probably 13,000 or 14,000 (1944) are employed in the larger factories, the rest being distributed among small factories, offices and stores.

The vocational training system of the Brantford Collegiate Institute, which has been such an important factor here in training workers for war tasks, will continue to assist industry in the development of young workers with skill for post-war tasks. Over a period of years, the Collegiate has worked out a plan of registration and follow-up of students, which insures the fullest possible use of the many skills possessed by them. Brantford also now has a committee which is giving serious consideration to the question of apprenticeship. This is under the auspices of the Provincial Government.

The provision of hostels for men and women has increased the possibility of bringing labour from other areas to Brantford when needed. This would also apply to the 300 Wartime houses that have been built for married men with families.

Customs

Brantford is a Custom Port of Entry and a Warehousing Port. Customs receipts for 1944 totalled \$2,858,017.88.

Banking Facilities

The following Canadian Banks have Branches in Brantford:

Bank of Montreal, 57 Market St.	Dominion Bank, 112 Dalhousie St.
Bank of Nova Scotia, 169 Colborne St.	Imperial Bank of Canada, 12 Market St.
Bank of Toronto, 108 Colborne St.	Province of Ontario Savings Bank, 136 Dalhousie St.
Canadian Bank of Commerce, 34 Market St.	
Royal Bank of Canada, 30 Market St.	

Hotels

Bodega Tavern	- - 45 rooms	Brant Hotel	- - - 54 rooms
Kerby House	- - - 56 "	Prince Edward Hotel	- 14 "
Belmont Hotel	- - - 50 "	Benwell Hotel	- - 14 "

Business Organizations --- Service Clubs

Brantford Board of Trade.
 Young Men's Section—Brantford Board of Trade.
 Brantford Business Women's Club.
 Eagle Place Business Men's Association.
 Rotary Club.
 Kiwanis Club.

Lions Club.
 Optimist Club.
 "Y" Men's Club.
 Kinsmen's Club.
 Shriner's Club.
 Y. M. C. A.
 Y. W. C. A.

Fraternal Organizations.

Churches

9 United Church
 8 Anglican
 7 Baptist
 3 Presbyterian
 3 Roman Catholic
 1 Lutheran
 1 Christian Scientist
 Miscellaneous.

Ratio of broad religious denominations in Brantford:

Protestant	-	27,185	85.1%
Catholic	-	4,500	14.1%

Educational Facilities

The Brantford Schools, Public and Separate (Roman Catholic), are as follows:

PUBLIC SCHOOLS

x Alexandra	-	-	12	Classrooms.	King Edward	-	-	12	Classrooms
Bellview	-	-	11	"	King George	-	-	10	"
yo Central	-	-	17	"	y Major Ballachey	-	-	14	"
Dufferin	-	-	10	"	Riverview	-	-	4	"
Graham Bell	-	-	10	"	x Ryerson	-	-	7	"
					x Victoria	-	-	9	"

x—Denotes one Opportunity Class.

o—Denotes two Junior Vocational Classes.

y—Denotes Domestic Science and Manuel Training Centres.

SEPARATE SCHOOLS

St. Ann's	-	-	3	Classrooms.
St. Basil's	-	-	8	"
St. Mary's	-	-	6	"
High School	-	-	4	"

The Brantford Collegiate Institute and Vocational School conducts academic courses leading up to matriculation and entrance to Normal School or University. The Vocational School is equipped with a Commercial Department and six industrial shops covering Mechanical Drawing, Machine Shop, Motor Car, Electric, Woodworking and Welding (Acetylene, A.C. and D.C.).

The teaching staff consists of 107 for Public Schools and 40 for the Collegiate. School attendance in Brantford is approximately 5,200; 4,100 children in Public Schools and 1,100 at Brantford Collegiate Institute and Vocational School.

In addition to regular classes in the Public Schools, music is taught in all grades. For

children who have special problems to overcome, Opportunity classes and Junior Vocational classes are conducted for junior and senior boys and girls. Manual training and domestic science periods are conducted for the pupils of Grades 7 and 8 of all schools in two newly equipped centres.

With the outbreak of war, the Dominion-Provincial War Emergency Training Program commenced training men and women for work in war industry at B.C.I. Classes were run on 8-hour shifts, 24 hours a day, and nearly 700 persons took this training.

Evening classes are available from October to April in a variety of courses.

School costs in Brantford compare favourably with those in other cities. Members of

Educational Facilities

the School Board are elected on the Ward system for terms of two years, two members to a Ward. The term of one trustee in each Ward expires each year. The Separate School Board appoints a representative to the Board for Collegiate and Vocational School affairs. The eleven Board members elect their own chairman and vice-chairman.

The Vocational Department of the Brantford

Collegiate Institute and Vocational School is under the guidance of a committee of twelve: three employees of local enterprises, three employers, and six Board members.

The Board of Education appoints one member to the Board of Health, one member to the Civilian Defence Committee and three representatives to the Library Board.

LIBRARY

One, with 35,000 books. (Carnegie endowed)

MUSIC

The city has the following musical organizations:

Cockshutt Male Choir
Wesley Girls' Choir

Universal Cooler Ladies' Choir
Brantford Oratorio Society

Hospitals

Brantford General Hospital has 270 beds, including 28 isolation beds, and has class "A" rating with the American College of Surgeons. The medical profession numbers 34 in Brant

County, of which 17 were, at time of survey, on Active Service.

The Brant Sanitorium, an anti-tubercular institution, and the Ontario School for the Blind are also situated near Brantford.

Fire and Police Protection

The Fire Department has a staff comprising a Chief, Fire Prevention Officer, Fire Inspector and 32 men. The department operates on the double platoon system with 12 men on duty at all times. Equipment consists of the following:

1—1,000-gal. Pumper	1—Boat Truck
2—600-gal. Pumpers	1—Service Truck
1—New (1943) Aerial	2—Ambulances
Ladder Truck	1—Life Boat
1—Hose Truck	

The key or basic fire insurance rate for Brantford—27c.—is one of the lowest in Ontario.

The Police Department has 29 men. Equipment consists of 1 motor cycle and 2 police cars.

Recreational Facilities

PARKS AND PLAYGROUNDS

The city has 13 playgrounds and 4 parks, totalling 200 acres. The Parks Board also has a number of beauty spots under its care.

Brantford Agricultural Park has a baseball stadium, quarter-mile race track, cricket pitch and spacious Fair Grounds.

Mohawk Park, just outside the city, on the banks of Mohawk Lake, provides a tourist camp and playgrounds. Located in the park are a dance hall, field track and rugby stadium.

A flood-lighted playing field is provided at Earl Haig Park.

GOLF CLUBS

Brantford Golf and Country Club, 18 holes, watered throughout. Ava Golf Club, 9 holes.

Arrowdale Golf Club, 9 holes. (Municipally owned).

Recreational Facilities

HOCKEY

Arctic Arena (artificial ice). Alfred Street Rink (natural ice).

THEATRES

Capitol Esquire Brant College

OTHER FACILITIES

Brantford is also in close proximity to Rest Acres Summer Camp, and to Port Dover on Lake Erie, a popular bathing and summer resort. In addition, the city maintains a civic

swimming pool. Turkey Point and Long Point Norfolk County, both within 40 miles of Brantford, offer duck hunting and bass fishing.

Municipal Government

ADMINISTRATION

Mayor and ten Aldermen, elected annually, two from each Ward. The administration is effected through a number of committees—Finance, Works, General Executive, Industrial, Board of Health, Home for the Aged and Infirm, and Children's Aid Society.

The Public Utilities Commission, consisting of five members, two elected each year, for two years, has under its management electricity, water and city bus transportation.

CITY DEBT

Assessment, 1945:

Real property.....	\$25,923,535
Business.....	3,455,740
Total for taxation.....	\$29,379,275
Exempt property.....	6,013,675
Separate School assessment.....	1,571,156

The net taxable debt, at December 31, 1942, amounted to \$1,745,824, or \$52.48 per capita.

The present administration (1943) has committed itself to a "pay-as-you-go" policy inaugurated several years ago. It is the hope of the present administration that there will be no further capital expenditures before 1945.

The debenture debt has been reduced from \$5,229,436, in 1937, to \$1,983,475 in 1945.

DEBENTURE DEBT

Gross debt.....	\$1,983,475	Taxable debt.....	\$1,155,337
Less Sinking Fund.....	376,532	Less Sinking Fund.....	130,120
Net.....	\$1,606,943	Net.....	\$1,025,217
	Revenue debt.....	\$ 828,138	
	Less Sinking Fund.....	246,412	
	Net.....	\$ 581,726	

TAXATION

The municipal tax rate for 1945 was 39 mills, this rate has fallen progressively from 1938 as follows:

1938	-	46.50	mills
1939	-	46.00	"
1940	-	44.50	"

1941	-	43.00	mills
1942	-	42.00	"
1943	-	41.00	"
1944	-	39.00	"
1945	-	39.00	"

There is no tax on machinery.

Surrounding Agricultural Area

Mixed farming is general, but some areas are devoted to special crops. Generally, the trend is toward dairy farming, featuring pure bred herds of Holstein-Friesian, Jersey, Guernsey and Ayrshire cattle.

The accredited herd scheme has proven popular here, there being 10 accredited herds of Ayrshires, two of Guernseys, 61 of Holsteins, 10 of Jerseys, and 3 of Shorthorns.

Brantford is the location of the head office of the Holstein-Friesian Association of Canada.

In beef cattle, Shorthorns are the favorite breed; in swine, Yorkshires; and in sheep, Shropshires. The Canadian Yorkshire hog has been highly developed in Brant Township.

Breeding of Belgian and Percheron horses is carried on in Brant, and here are found stallions and brood mares that have taken championships in the large Canadian shows.

Canning crop production is also important and in Burford Township a sizeable area is

specially suited to this line, and is served by a canning plant in Burford.

Ontario's principal deposits of gypsum are situated along the Grand River.

Norfolk County, bordering Brant County to the south, has become in recent years one of the leading centres of the Canadian tobacco industry. About 40 percent of the tobacco grown in this county comes from plantations owned by private or joint stock corporations, although in each case the farm is operated by a tenant farmer who shares on a 50-50 basis the cash returns from the crop.

A Provincial Forest Station, near St. Williams, comprises 3,500 acres of forest tree nurseries and forest plantations, and has an annual output of small forest trees, numbering 6,000,000.

Two government fish hatcheries are located in Norfolk and one in Brant County.

Fuels

Price of steam coal delivered in carload on track at Brantford, as at June, 1943, was as follows:

Run-of-Mine coal	- \$ 3.00 per ton.
Slack coal	- - 10.00 " "
Bunker fuel oil	- 9.5c. per gallon (Imperial.)

Prices delivered from local dealers at same date were as follows:

Steam coal, highest grade	- \$11.50 per ton
Domestic coal, American anthracite	- - - 16.00 " "
Coke	- - - 14.00 " "
Fuel oil in tank, truck deliveries or bbl.	- 11 $\frac{1}{4}$ c. per gal. (Imperial)

Newspapers

One—Brantford Expositor (Independent). Circulation 15,000, in Brant, Norfolk, Oxford, Waterloo, Haldimand and Elgin Counties.

Indication of Purchasing Power

(1940 figures)		Postal Revenue	- - - - \$149,224
Telephones (1 for each 4.6 persons)	6,803	Automobiles:	
Electric Meters:		Passenger	- - - - 5,329
Domestic	- - - - 3,663	Commercial	- - - - 884
Commercial	- - - - 1,212	Retail Stores (1944)	- - - - 584
Power	- - - - 211	Total annual Sales of Retail Stores (1941):	
Gas Meters	- - - - 6,050		\$17,515,300.

Building Permits

	Residential	Commercial	Industrial	Engineering	Institutional
1938.....	208,834	48,600	12,300	3,829	—
1939.....	116,558	17,620	11,050	5,647	83,000
1940.....	89,963	31,885	42,725	27,559	1,184
1941.....	182,466	22,375	105,896	1,745	10,400
1942.....	342,617	35,850	405,208	8,640	—
1943.....	150,692	31,948	34,865	13,500	3,075
1944.....	280,934	31,950	640,425	—	400
1945.....	381,771	30,510	200,595	—	400

Housing

The following figures are based on a survey (1944) conducted by the Dominion Bureau of Statistics, enumerating every tenth house. Figures are therefore not precise, but can be said to be indicative of the Brantford housing situation.

Homes owned - - - -	52.5%
Homes tenented - - - -	47.5%
Average value of owned homes -	\$3,867
Monthly average rent of tenants -	\$28.00
Average property taxes per home -	\$117.00
Percent of homes mortgaged - -	43.6%
Average mortgage on mortgaged homes - - - -	\$1,443
Homes of brick construction - -	82.7%
Homes of wood construction - -	11.7%
Single dwellings - - - -	70.4%
Semi-detached dwellings - -	8.3%
Apartments - - - -	.06%
Number of hours in each hundred with:	
Steam or hot water heating - -	12.1%
Hot air heating (furnace) - -	44.7%
Gas or electricity cooking fuel -	90.3%
Wood heating fuel - - - -	4.7%

Coal cooking fuel - - - -	4.4%
Mechanical refrigeration - -	43.0%
Ice refrigeration - - - -	35.2%
Bath or shower - - - -	74.8%
Flush toilet - - - -	87.7%
Telephone - - - -	49.8%
Vacuum cleaner - - - -	48.5%
Automobile - - - -	40.6%
Radio - - - -	89.9%
All four of above - - - -	20.9%
Rooms per household (average) -	5.9%
Houses occupied by owners (1942)	3,729
Houses occupied by tenant (1942)	3,354

Total number of houses (1942) -	7,083
Duplex houses, 147 - - - units	294
Triplex houses, 42 - - - "	126
Apartments, 37 - - - "	230
Apartment over stores, 190 - "	286

Total number of units - - -	8,019
Extra families (living in) - -	1,453

Total number of families - - -	9,472
(plus 300 Wartime Housing)	

Control of Grand River Flooding

The valley of the Grand River, commencing a little above Dundalk in Western Ontario, extends in a southerly direction for about 108 miles, terminating at Port Maitland on Lake Erie.

The drainage area or basin comprises some 2,600 square miles, and is 40 miles wide at its widest point, narrowing to approximately 4 miles at the river mouth.

The area embraces one of the most industrialized and populated sections of Canada and, at certain points, has presented increasingly serious problems in the matter of disposal of sewage and industrial waste, and in the control and conservation of the water supply.

In 1938 the Grand River Conservation Commission was established for the purpose of conserving and controlling the run-off in the Grand River and tributary streams.

Preliminary survey of the Grand River drainage area was undertaken through arrangements with the Provincial Government, and was completed in 1932 by Mr. James MacIntosh of the Hydro Electric Power Commission of Ontario, under the direction of the Ontario Department of Lands and Forests and Mr. L. V. Hogg, who at that time was Chief

Hydraulic Engineer of the Hydro Electric Power Commission of Ontario. Following preliminary survey, a further survey was made by the Chief Engineer of the Commission, Dr. H. G. Acres, whose report embraced a four-unit system of control, as follows:

1. The Grand River at the present site of the Grand Valley Dam, or "Shand" Dam, near Fergus.
2. The Luther Marsh above Grand Valley, Ontario.
3. The Conestoga, at or near Hollen.
4. The Nith River Valley.

It was decided to construct the Grand Valley Dam (Shand Dam) first, which would provide some 46,000 acre feet storage, followed by the development at Luther Marsh, which will add a further 10,000 acre feet. The development of the Luther Marsh project was deferred until after the conclusion of the war.

The Grand Valley Dam was completed and officially opened August 7th, 1942. The 1943 run-off proved to be one of the heaviest on record, and has unquestionably proved the worth of the flood control system.

This is exemplified by the fact that the run-off on the upper reaches of the Grand River

in the Spring of 1943 was 63 percent in excess of any previous record, and while the actual volume of run-off from tributary streams could not be accurately computed, due to lack of gauges, it may be presumed that the tributary streams were proportionately higher. By impounding the peak of the run-off above the Grand Valley Dam, the Commission were able to control the crest of the lower river flood at Brantford to a point 2.7 below the peak reached in the year 1929, that year being the highest for some 30 years.

Equally important in the control of flood conditions is the maintenance of a regulated flow during the summer for the purpose of providing adequate dilution for sewage and industrial waste. It is anticipated that with the storage provided by the Grand Valley Dam and the proposed Luther Marsh Dam, at least 200 cubic feet seconds would be provided during the low flow periods. This flow is the minimum amount required to take care of present requirements, but as the Valley in-

creases in population and industrial development the need for more water at low flow periods from impounding areas will be apparent.

The Grand River Conservation Commission is a joint undertaking on the part of the Dominion Government, the Ontario Provincial Government, and eight contributing Municipalities, of which Brantford is one. Mr. W. Philip of Galt is its chairman; Mr. M. Pequegnat of Kitchener is vice-chairman, and Mr. E. F. Roberts of Brantford is secretary-treasurer (1943).

It is hoped that preliminary surveys leading to the development of another conservation unit on the Conestoga can be made in the near future, and that construction of both the Conestoga and the Luther Marsh Dams will form part of post-war reconstruction.

The extensive system of dikes surrounding the Grand River at Brantford is shown on the accompanying map.

INDUSTRIAL PROPERTY

VACANT PLANT

The situation of any industrial centre with respect to available vacant plant properties fluctuates with conditions. On that account it is not considered advisable in such a survey as this to refer to specific vacant plant items. Complete details of available vacant factories or buildings adaptable to industrial use are

maintained and periodically brought up to date by the Brantford Industrial Commission, and descriptions, photographs and, where possible, plans are filed with the several Industrial Development offices of the Canadian National and Canadian Pacific Railways, as detailed below.

INDUSTRIAL SITES

As is the case in most of the older and more firmly established industrial centres of Central Ontario a good deal of the industrial land within the limits of the city proper has been occupied by existing plants, though a number of sites—some comprising smaller acreage—remain. However, modern industrial practice has shown a tendency to abandon multiple storey structures, and to provide acreage for lateral expansion. This is evidenced by the proportion of recent enquiries for extensive acreages, even smaller operations specifying from 5 acre to 20 acre sites, with chemical plants and the heavier types of industry running to 100, 150 and 200 acres. This tendency will be limited only by the availability and price of suitable land.

Looking to the future, Brantford is directing its expansion and the extension of its facilities with these considerations well in mind, having regard also to existing rail facilities and projected rail extensions. Extensions to city water and sewer lines to serve new industries

are made as required, and what are considered the most suitable industrial areas are being reserved to that use. The locations of the larger industrial acreages contiguous to the city are indicated on a map at the back of this survey.

Detailed information covering available sites in the Brantford locality can be obtained from the following sources.:

Brantford Industrial Commission, City Hall, Brantford, Ont.

Industrial Commissioner, C.N.R., Union Station, Toronto, Ont.

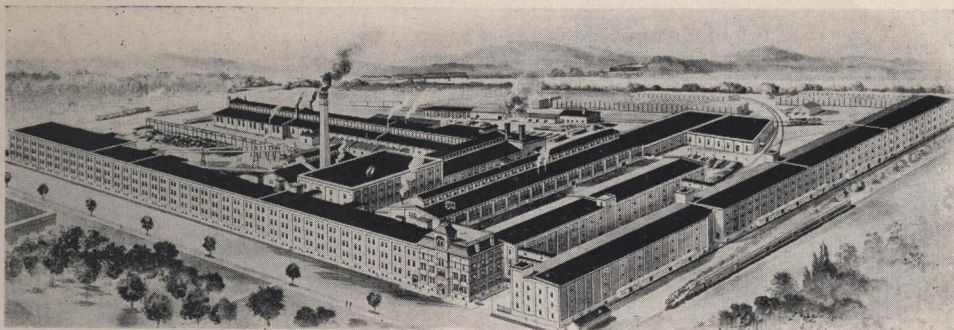
Department of Research and Development, C.N.R., 360 McGill St., Montreal, P.Q.

Commissioner of Development, C.N.R., 1400 Woolworth Bldg., 233 Broadway, New York, N.Y.

Department of Industrial Development, C.P.R.: Montreal, F. W. Collins;
Toronto, A. B. Smith.

City plans, topographical maps and other pertinent information on the Brantford locality are maintained up to date in these offices.

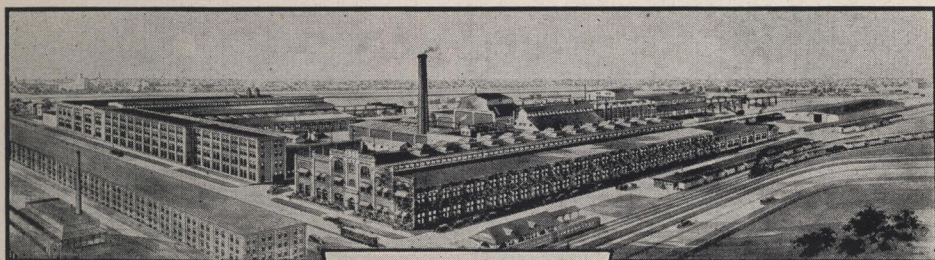
Principal Industries at Brantford



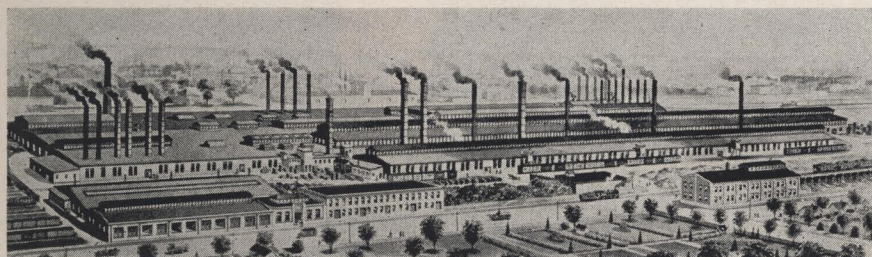
Massey-Harris Co. Ltd. (Market Street)



Massey-Harris Co. Ltd. (Verity Works)

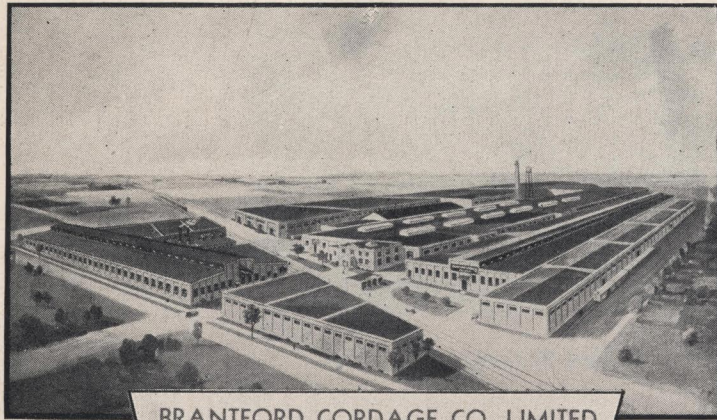


WATEROUS LIMITED

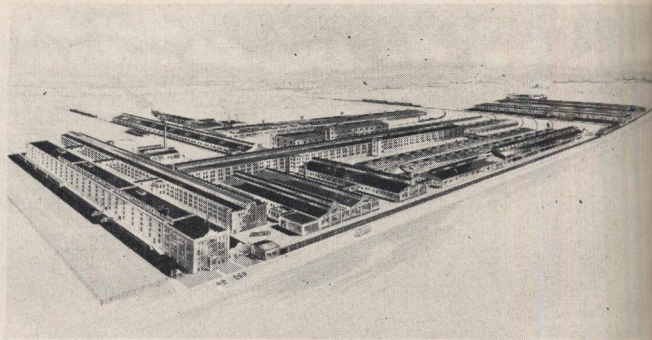


Canadian Car and Foundry Co. Ltd.

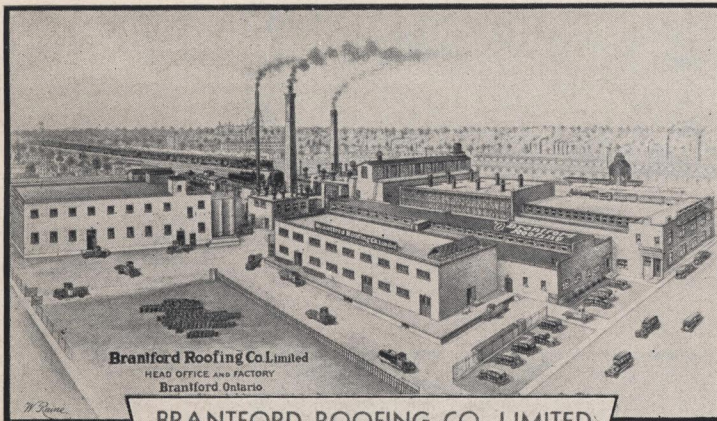
Principal Industries at Brantford (Continued)



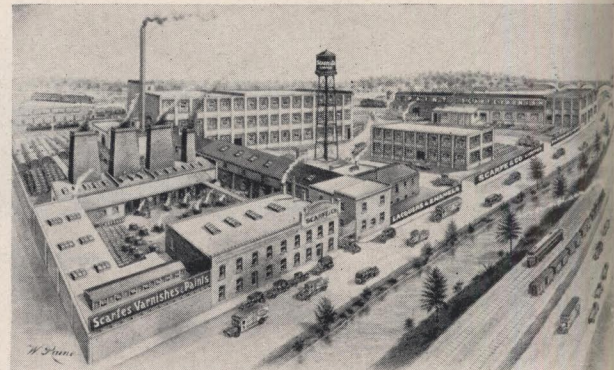
BRANTFORD CORDAGE CO. LIMITED



Cockshutt Plow Co. Ltd.



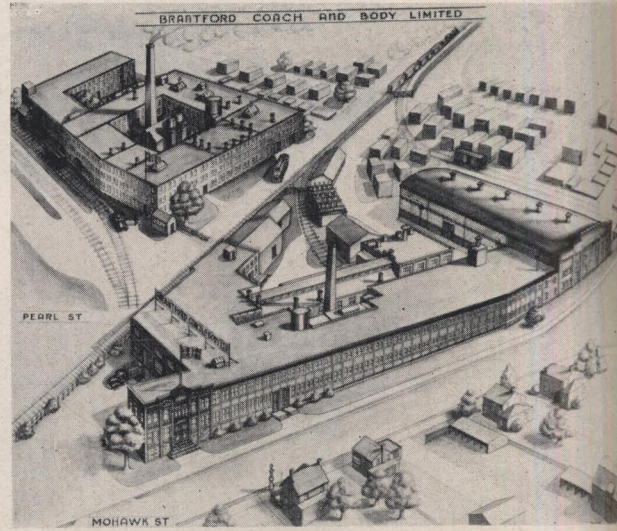
Brantford Roofing Co. Limited
HEAD OFFICE AND FACTORY
Brantford Ontario
BRANTFORD ROOFING CO. LIMITED



Scarfe & Co. Ltd.

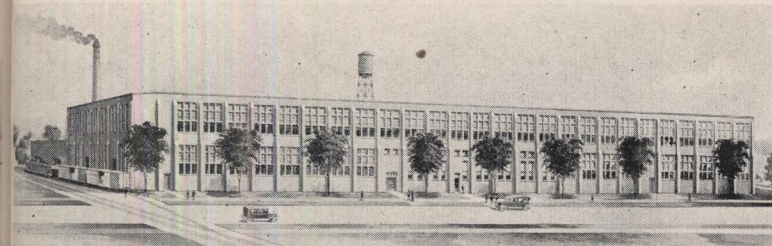


SLINGSBY MFG. CO. LIMITED

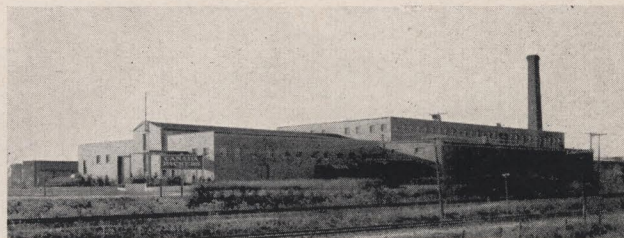


Brantford Coach & Body Co. Ltd.

Principal Industries at Brantford (Continued)



Barber-Ellis of Canada Ltd.



Canada Packers Ltd.



H. E. Mott Co. Ltd.



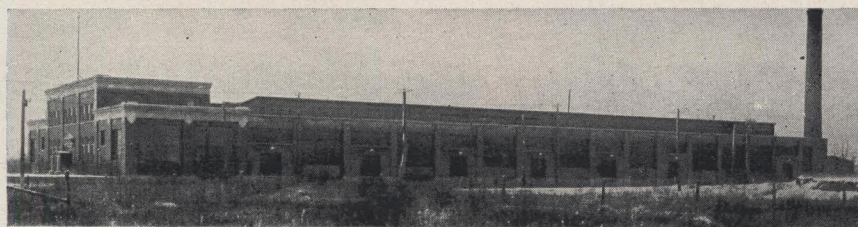
Crown Electrical Manufacturing Ltd.



William Paterson Ltd.



Sonoco Products Co. of Canada Ltd.

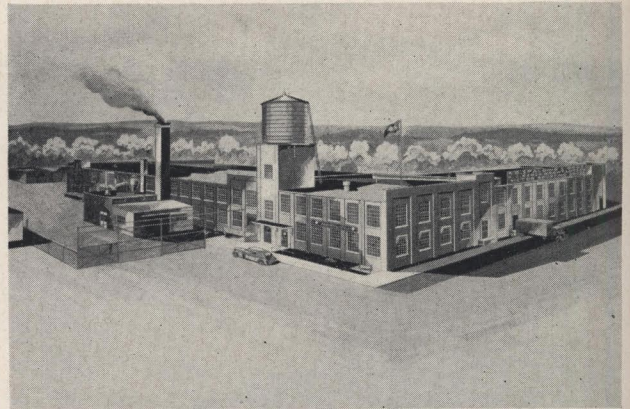


Robbins & Myers Co. of Canada Ltd.

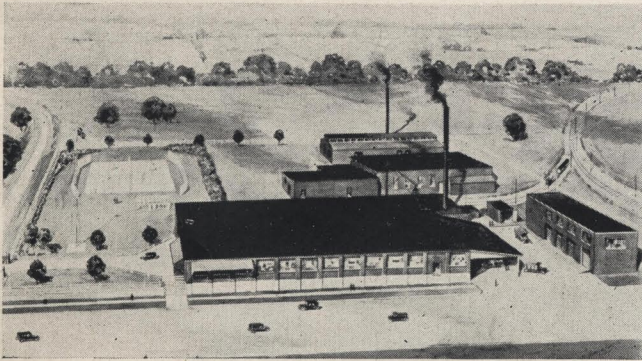
Principal Industries at Brantford (Continued)



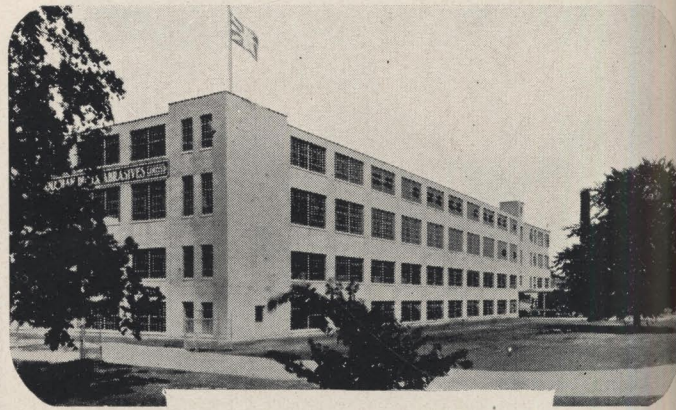
Kitchen Overall & Shirt Co. Ltd.



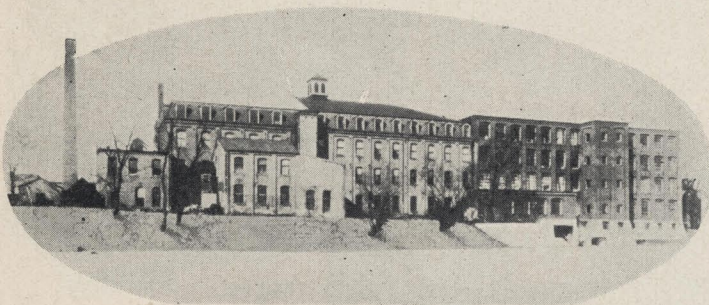
A. G. Spalding & Bros. of Canada, Limited



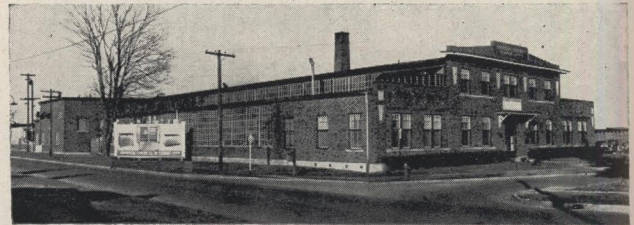
S. C. Johnson & Son Ltd.



Canadian Durex Abrasives Ltd.



The Watson Mfg. Co., Limited



Universal Cooler Co. of Canada Ltd.

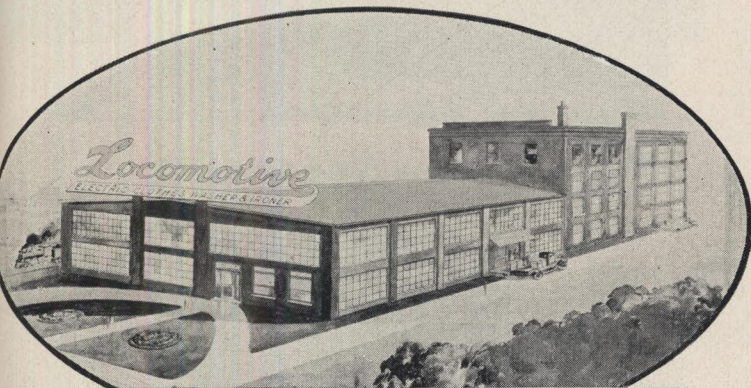
Principal Industries at Brantford (Continued)



STEEL CO. OF CANADA LIMITED



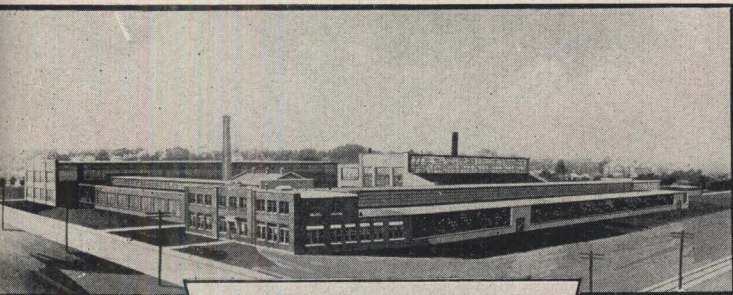
Sterling Actions & Keys Ltd.



BRANTFORD WASHING MACHINE CO. LIMITED



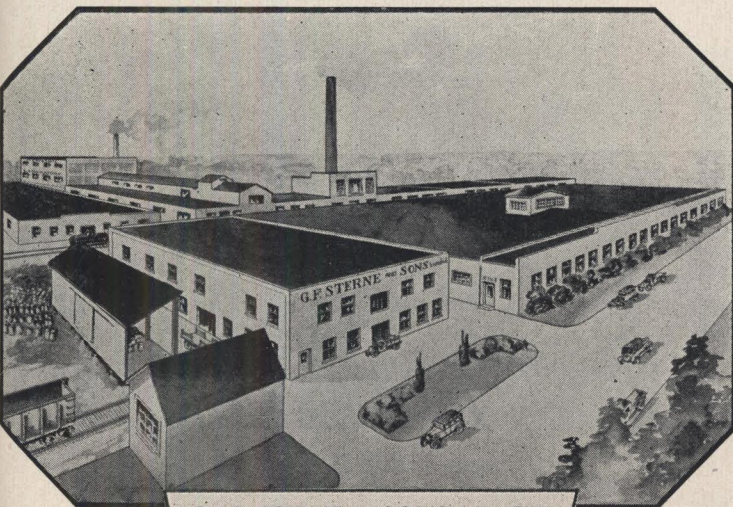
Brant Engineering & Tool Co. Ltd.



HARDING CARPETS LIMITED



Ruddy Freeborn Co. Ltd.



G. F. STERNE & SONS LIMITED



Pittsburg Water Heater Co. of Canada

Principal Industries at Brantford (Continued)



Lefebvre, J. M. A.



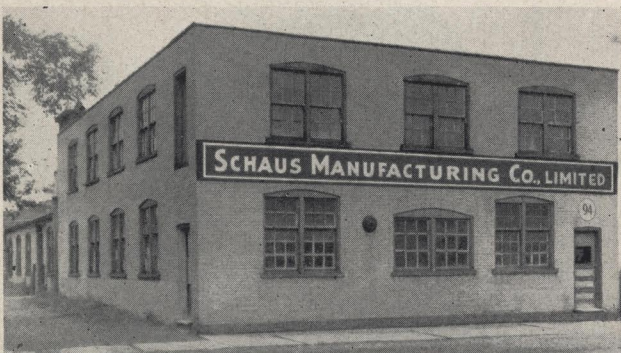
Brantford Pattern Works



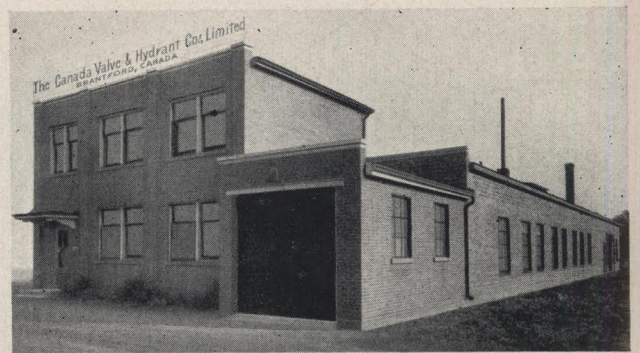
Brantford Produce Co. Limited



J. S. Hamilton & Co.



Schaus Manufacturing Co. Ltd.



The Canada Valve & Hydrant Co. Ltd.

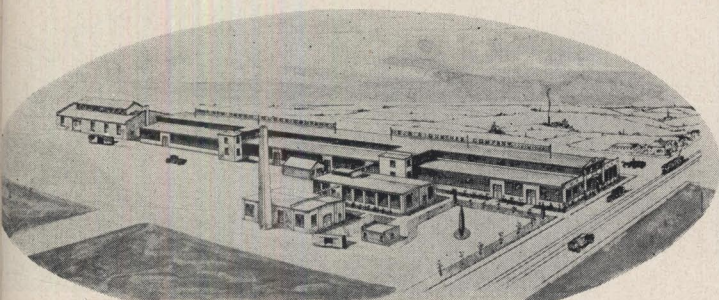
Principal Industries at Brantford (Continued)



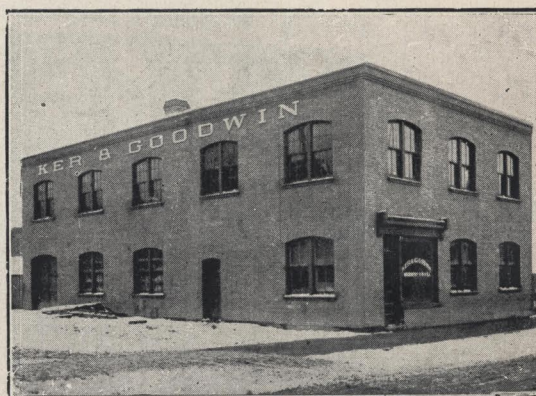
The Coca-Cola Company of Canada, Limited



Campbell Electric



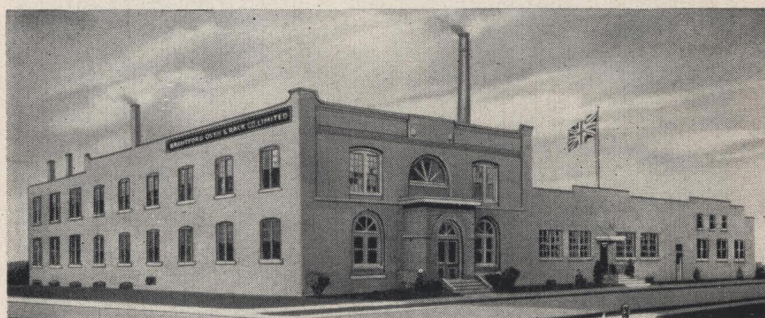
E. & A. Gunther Co. Ltd.



Ker & Goodwin Machinery Co.

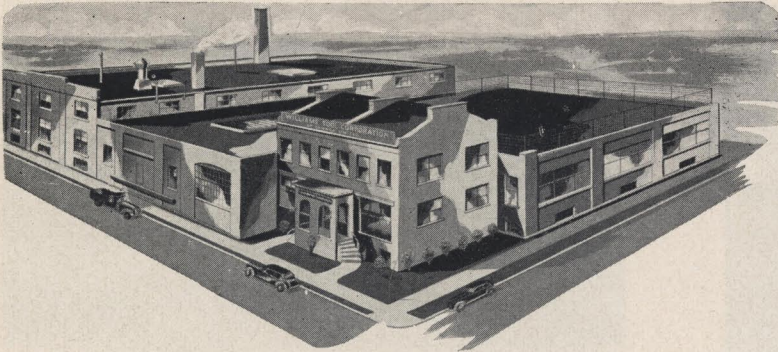


Bradley Machine Co.

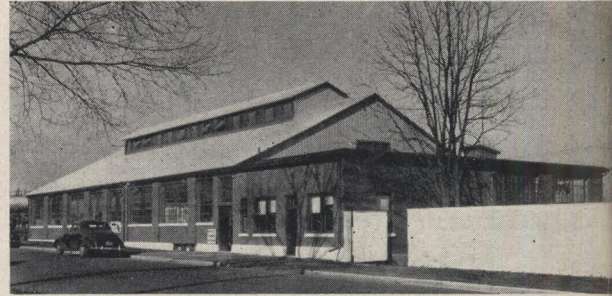


Brantford Oven & Rack Co., Limited

Principal Industries at Brantford (Continued)



Williams Tool Corporation of Canada Ltd.



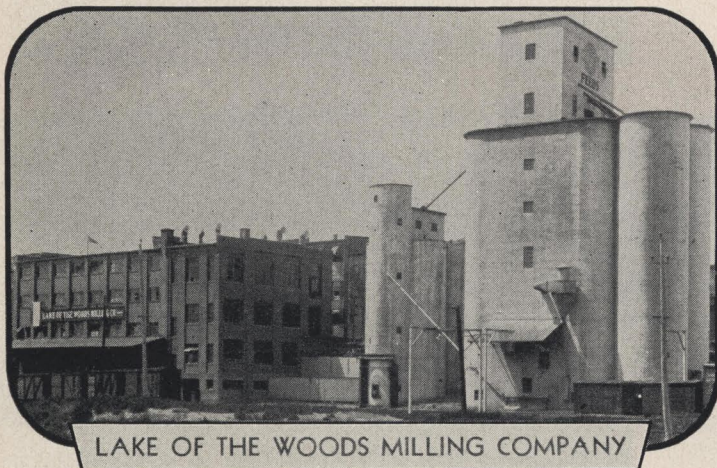
Hartley Foundry



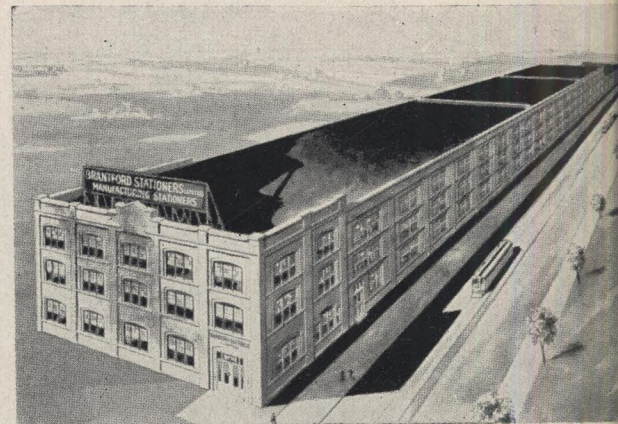
DOMINION DRESS COMPANY



Hawley Products Canada Limited



LAKE OF THE WOODS MILLING COMPANY



Brantford Stationers Ltd.

Principal Industries at Brantford

A CONSIDERABLE number of important manufacturing operations are located at Brantford. The gross value of the output of the city's manufacturing establishments in 1940 (last year for which manufacturing statistics are presently available) amounted to \$35,300,186.

In 1940, Brantford contained 107 manufacturing operations representing \$34,774,198 of invested capital. These industries paid \$9,304,572 in salaries and wages to 7,915 employees during 1940.

FIRM	PRODUCTS
Allen Ritchie Co. Ltd. 80 Elgin Street. Phone 1601	Leather and felt mechanical parts and specialties.
Barber-Ellis of Canada Ltd. 114 Marlboro Street. Phone 1345.	Envelopes, stationery and writing tablets.
Bay State Abrasive Products Co. of Canada Ltd. 188 Pearl Street. Phone 343.	Grinding wheels; abrasive sticks.
Beare Brass Foundry 57 Grey Street Phone 4223	Brass Castings.
Bradley Machine Co. 38-40 Clarence Street. Phone 3377	Special machinery, jigs, dies and fixtures, contract machine work.
Brantford Artificial Flower Co. 13 George Street. Phone 2041	Artificial flowers.
Brantford Soda Fountain Co. Elgin Street. Phone 3400	Soda fountains and special ice cream cabinets.
Brantford Coach & Body Co. Ltd. 22 Mohawk Street. Phone 3560	Dump bodies and hydraulic hoists, tailgate loaders stake bodies, vans, semi-trailers, vocational bodies, funeral coaches and wagons, buses and ambulances, snow plows.
The Brantford Cordage Co. Ltd. 111 Brant Street. Phone 3620	Binder twine.
Brant Engineering & Tool Co. Ltd. 38 Elgin Street Phone 1077	Cutting tools, jigs, dies, precision tools.
Brantford Refrigerator Co. 21 Sydenham Street. Phone 3013	Commerical refrigerators in wood or steel, refrigerated display cases, cold storage doors, cold stainless steel equipment, beer service and storage equipment, special refrigerator applications.
Brantford Pattern Works 49-53 George Street Phone 595-j	Wood pattern and special woodwork, cabinet-making.
Brantford Produce Co. Ltd. 104-106 Marlboro Street Phone 3434	Wholesale produce and public cold storage.
Brantford Oven & Rack Co. Ltd. cor. Brock & Campbell Sts. Phone 1565-6	Manufacturers of bake ovens and machinery and tinware.
Brantford Roofing Co. Ltd. 22 Sydenham Street. Phone 2670	Asphalt shingles, roll roofings, building papers, built-up roofs, asphalt emulsions, roof coatings.
Brantford Stationers Ltd. Elgin Street. Phone 2462	Stationery for schools, writing tablets, boxed papeteries.
Brantford Washing Machine Co. Ltd. 16 Grey Street. Phone 1467	Washing machines.

Principal Industries at Brantford (Continued)

FIRM	PRODUCTS
Brantford Willow Works 61-63 Colborne Street. Phone 1051	Willow reed, fibre and rattan furniture, baskets for factory, bakers and household use, dealers in willows, reeds, and cane.
Brant Feed & Seed Co. Ltd. 243-249 Colborne Street. Phone 3456	Seed, bran, hay; manufacturers of poultry products, grain.
Campbell, W. J., Co. Ltd. 131 Clarence Street. Phone 1843	Manufacturers of lighting fixtures, lamps and shades.
Canada Packers Ltd. Burford Road. Phone 1800	Canned goods, pickles.
Canada Glue Co. Ltd. Echo Place. Phone 599	Animal glue and by-products, grease, bone meal.
The Canada Valve & Hydrant Co. Ltd. 44 Holme Street. Phone 4260	Fire hydrants, valves, valve boxes, indicator posts, tapping valves and sleeves, sluice gates, non-ferrous metal castings.
Canadian Car and Foundry Co. Ltd. Wilkins Street. Phone 2300	Malleable iron castings for all purposes.
Canadian Durex Abrasives Ltd. Greenwich Street. Phone 228	Sand papers for all trades, masking tape, cellulose tape.
Coca-Cola Ltd. 20-26 Morrell Street. Phone 1675	Bottlers of Coca-Cola.
H. M. Clubine & Co. 47 Albion Street. Phone 1048	Children's blackboards, toys and games, beekeepers' supplies, sash, doors, and planing mill products.
Cockshutt Plow Co. Ltd. 66 Mohawk Street. Phone 5100	Farm implements.
Cockshutt Moulded Aircraft Ltd. Mohawk Street. Phone 5100	Aircraft sections.
Crown Electrical Manufacturing Ltd. 17 Sydenham Street. Phone 4750	Fireplace fixtures, lighting fixtures, portable lamps, jardinieres, smoking stands.
The Delta Chemical Co. 46 Elgin Street. Phone 3775	Chemical supplies, detergents, waxes, lubricant, and specialty products.
Dominion Dress Company 1 South Street. Phone 767	Ladies' aprons, house and children's dresses, cottons.
Elliott Machinery Co. 66 Lyons Avenue. Phone 1591	Machine assembly, die work and general machine work.
J. A. Fellows & Co. 27 Jarvis Street. Phone 3505	Water systems, electric pumps, hand pumps, engines, repairs for Gould, Shapley & Muir engines.
E. & A. Gunther Co. Ltd. 298 Murray Street. Phone 3600	Watchmakers' and Jewellers' supplies, jewel cases, paper boxes, toiletware and silver cases, cedar chests, showcase fittings, trays and display stands. Agents for New Haven Clock Company.
J. S. Hamilton & Co. 44-46 Dalhousie Street. Phone 38	Native wines from Ontario-grown grapes.
Hamilton Porcelain Products 36 Elgin Street. Phone 3610	Pressed porcelain for electrical trade.
Harding Carpets Ltd. Morrell Street. Phone 1250	Carpets and rugs.

Principal Industries at Brantford (Continued)

FIRM	PRODUCTS
Hartley Foundry Co. 247 Colborne Street West Phone 1027	Grey iron, brass, bronze and aluminum castings, coal shutes and building supplies.
Hawley Products Canada Ltd. 81-83 Elgin Street Phone 4042	Moulded pulp products, Keys egg trays, saffold egg carriers and sun helmets.
C. S. Hotham & Son 180 Dalhousie Street. Phone 3828	Machinery made to order, tools, jigs, electric and oxy-acetylene welding, engineering, ice machines, refrigeration, portable electric equipment for welding.
The Ingleby-Taylor Co. Ltd. 116 Brant Street. Phone 918	Door and window frames, sash, doors, cupboards, moulding and trim. Dealers in lumber, cement and builders' supplies.
S. C. Johnson & Son Ltd. Frank Street. Phone 2790	Polishing waxes, self-polishing floor finish, paint, varnishes, enamels, etc.
Ker & Goodwin Machinery Co. 256 Colborne Street. Phone 18	Lathe chucks, cordage machinery, oil engines.
Keeprite Refrigeration Ltd. 44 Elgin Street Phone 5080	Dole plates, fin and blower, coils for refrigeration.
Kester Solder Co. of Canada Ltd. P.O. Drawer 20. Phone 323	Self-fluxing solders.
Kitchen Overall & Shirt Co. Ltd. 11 West Street. Phone 909	Overalls and shirts, work trousers, combinations and work mitts.
Lake of the Woods Milling Co. Ltd. 16 South Market Street. Phone 2026	Flour and "Lakko" feeds.
Lefebvre, J. M. A. 288 Murray Street. Phone 1638	Bed springs, couches, awnings, mattresses, gliders, canvas goods.
Massey-Harris Co. Ltd. South Market Street Phone 3801 3802 3803	Grain binders, binders, mowers, rakes, hay tedders, swathers, pick-up (for reaper threshers), trussers, corn shellers, straw cutters, knife grinders, hay loaders.
Massey-Harris Co. Ltd. (Verity Works) Canal Road Phone 3801-3802- 3803	Land rollers, land packers, soil pulverizers, cultivators, harrow carts, fertilizer sowers, turnip sowers, corn planters, plows.
Mechanical Device Co. 94 Grey Street	Mechanical devices.
Micromatic Hone Ltd. 195 Dalhousie Street. Phone 1181	Assemblers and distributors of cylindrical honing equipment.
Mohawk Garments Ltd. (See Dominion Dress Co.)	Infants' sun suits, ladies' slacks.
H. E. Mott Co. Ltd. 139 Wellington Street. Phone 2611	Sheet metal and wood tanks, monel metal and stainless steel fittings, airport beacons, forestry observation towers, textile dyeing and finishing machinery.
National Canned Foods Burford Road. Phone 1801	Canned fruits and vegetables, bottled and bulk pickles and olives.
William Paterson Ltd. 24 Colborne Street. Phone 255	Manufacturing confectioners.
Pittsburg Water Heater Co. of Canada 137 Nelson Street. Phone 2224	Automatic gas water heaters, gas filters, gas regulators, industrial gas equipment.
Morgan Pottruff Co. 80 Elgin Street. Phone 4689	Crests, greeting cards, novelties.

Principal Industries at Brantford (Continued)

FIRM	PRODUCTS
Proctor Packing Ltd. Greenwich Street. Phone 3601	Meat suppliers.
Robbins & Myers Co. of Canada Ltd. Morrell Street Phone 4321	Electric motors, generators, fans.
Ruddy Freeborn Co. Ltd. Elgin Street. Phone 3400	Commercial refrigerator cases, beverage coolers, cold storage doors.
Scarfe & Co. Ltd. 31 Greenwich Street. Phone 4300	Varnishes, paints, enamels, waxes, lacquer stains, finishes for every purpose, core oil.
Schaus Manufacturing Co. 94 Grey Street Phone 1862-j	Toys and novelties.
Slingsby Mfg. Co. Ltd. 200 Grand River Ave. Phone 3790	Blankets and woollen cloths, motor robes, horse blankets.
Slingsby Mfg. Co. Ltd. (Silk Division) 270 Grand River Ave. Phone 3790	Silk dress goods, linings, lingerie cloths.
Sonoco Products Co. of Canada Ltd. 33 Park Ave. East Phone 4622	Paper cones, paper specialties, spools, parallel tubes, etc., for the textile industry.
A. G. Spalding & Bros. of Canada Ltd. 5 Edward Street Phone 3480	Sporting goods.
The Steel Co. of Canada Ltd. Colborne Street West Phone 4630	Carriage, machine, tire and plow bolts, felloe bolts, nuts, clevis pins, rivets.
Stericloth Products Ltd. 143 Wellington Street Phone 2344	Wiping cloths, cheese cloth, cotton waste, chamois. (See also Texpack.)
Sterling Actions & Keys Ltd. 39 Alice Street Phone 3842	Piano actions and keys, autoharps, tuners and repair men's supplies.
G. F. Sterne & Sons Ltd. 124-126 Bruce Street Phone 93	High temperature cement, super-refractories, plastic fire-brick, baffle mix, penchlor acid-proof cement, boiler covering, boiler water treatments, bakelite protective coatings, factory flat and gloss paints, asphalt roof coating, factory window cleaners, belt dressing, asphalt concrete water proofings, integral and surface concrete water proofings, metallic floor hardener.
Texpack Co. (see also Stericloth Products Ltd.) 143 Wellington Street Phone 2344	Cheese cloth, surgical gauze, cotton specialties, chemically-treated cloths, dusters.
Universal Cooler Co. of Canada Ltd. 135 Brant Street Phone 4700	Household and commercial refrigeration of all types.
The Valu-Vault Co. Ltd. 38 Elgin Street Phone 3941	Home size safety vaults.
Waterous Limited South Market Street Phone 1631	Pulp mill machinery, road-making equipment, high-pressure boilers of all kinds, steel plate work, sawmill machinery.
Watson Mfg. Co. Ltd. 222 Grand River Avenue Phone 1613	Woollens and cottons, silk underwear.
Webb Broom and Brush Co. Alfred Street Phone 4563-w	Brooms and brushes.
Williams Tool Corporation of Canada Ltd. 32 Bridge Street Phone 4647	Special machine tools, pipe and bolt threading machinery, machinery repairs, hydraulic pumps for dump bodies, independent lathe chucks.

