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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL & CHEMICAL BRANCH

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THE RAILWAY ROLLING STOCK

INDUSTRY

IN

CANADA

1935

Published by Authority of the HON. W. D. EULER, M.P., Minister of Trade and Commerce.

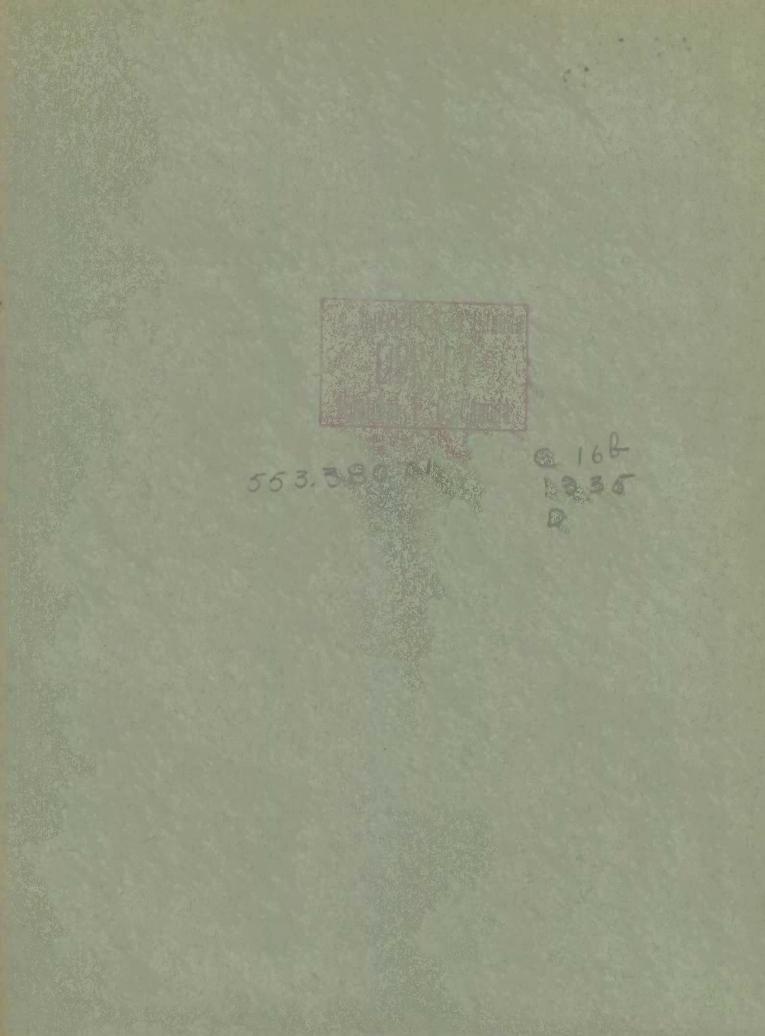
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OTTAWA

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1935



DEPARTMENT OF TRADE AND COMMERCE DOMINION BUREAU OF STATISTICS MINING, METALLURGICAL AND CHEMICAL BRANCH OTTAWA - GANADA

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)
Chief Mining, Metallurgical and Chemical Branch: W. H. Losee, B. Sc.

ANNUAL INDUSTRY REPORT

IRON AND STEEL AND THEIR PRODUCTS GROUP

THE RAILWAY ROLLING STOCK INDUSTRY, 1935.

Production from the Railway Rolling Stock Industry during 1935 was valued at \$41,213,039, an increase of 20 per cent over the \$34,352,911 of the previous year, which in turn was 14 per cent over the \$29,672,265 reported for 1933.

This industry includes only those factories which were engaged chiefly in the making or repairing of cars and locomotives, or in making parts such as wheels, tires, brakes, springs, etc. In 1935, as in 1934, there were 37 establishments in this category, including 15 in Ontario, 11 in Quebec, 4 in Manitoba, 3 in Nova Scotia, 3 in Alberta and 1 in New Brunswick.

Employees in 1935 numbered 16,921 with salaries and wages at \$18,785,671, the comparative figures for 1934 being 16,095 employees and \$16,312,271. Plants in Quebec afforded work to a monthly average of 7,272 people; Manitoba, 4,223; Ontario, 2,551; Alberta, 1,505, and the Maritimes, 1,370 people.

Materials used in manufacturing and the general maintenance of railway rolling stock cost \$20,769,208 in 1935 as against \$16,756,285 in 1934, while expenditures for fuel and electricity cost \$1,636,866 against \$1,527,920.

Among the products made during the year were 537 new freight cars at \$2,013,184, 4 new locomotives at \$111,500, 13 gasoline-electric cars at \$4,675, car wheels at \$1,942,603, and wheel tires at \$205,407.

Imports of railway rolling stock during the year included 8 tank cars at \$7,425,55 box or flat cars at \$8,410, 230 other cars at \$43,303, 7 railway motor cars and parts at \$19,381, railway car parts at \$172,693, springs for railway vehicles at \$2,840, tires in the rough for railway vehicles at \$578,714, 8 railway locomotives at \$39,825, 25 locomotives and motor cars for mining operations at \$68,738, parts for locomotives at \$25,689, axles and axle blanks for railway vehicles at \$22,801.

				- 2 -			
Table 1 - PR	INCIPAL	STATISTICS.	1925	1935。			
and the the state of the state	Marie Control of the State of t		Average	w min at act, made age " of min the factor w	THE CONTRACTOR SHEET SECTION AND ADDRESS OF THE SECTION ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT	Short A. Br. Michaele A., A. V. Mary,	Selling
	No. of	Capital	number	Salaries	Cost of	Cost of	value of
Years	plants	employed	of em-	and	fuel and	materials	products
			ployees	wages	electricity	at works	at works
No. of the Review Boundary Wiles Street Street Books		\$	of meanwhile recounts a	\$	\$	\$	\$
1925	35	78,039,179	20,202	26,580,356	1,813,011	25,895,490	53,050,665
1.926	36	82,024,510		30,721,743	2,006,005	38,053,559	72,706,052
1927	35	81,519,950		30,269,896	1,994,771	38,518,449	74,466,912
1.928	35	89,053,842		32,452,781	1,906,566	38,110,053	73,422,057
1929	35	94,415,563		38,311,179	2,570,981	74,156,037	126,487,037
1930	37	95,785,640		37,625,050	2,450,641	60,289,445	104,922,701
1931	38	97,484,985		28,111,765	1,859,505	35,335,573	67,865,070
1932	38	87,289,160		17,460,142	1,630,979	14,101,765	32,465,192
1933	37	86,509,047		14,584,021	1,535,225	13,574,592	29,672,265
1.934	37	82,897,836	16,095	16,312,271	1,527,920	16,756,285	34,352,911
1935	37	86,547,010	16,921	18,785,671	1,636,866	20,769,208	41,213,039
							The state of the s
Table 2 - PR	INCIPAL	STATISTICS,	BY PRO	INCES, 1934	and 1935.	and the same of th	
			Average				Selling
	No. of	Capital	number			Cost of	value of
Years	plants	employed	of em-		fuel and	materials	products
on the growth of the Manager Adequate			ployees	wages	electricity	y at works	at works
		\$		\$	\$	\$	\$
1934							
Nova Scotia							
New Brunswi	ck 4	7,384,235	1,176	1,188,63		1,309,479	2,487,267
Quebec	11	35,683,853	7,00			7,827,156	15,303,461
Ontario	15	19,211,519		2,442,64		2,766,463	5,667,238
Manitoba	4	13,899,473	4,10	3 4,004,35	323,223	3,593,560	8,038,666
Alberta	3	6,718,756	1,524	1,504,53	8 108,114	1,259,627	2,856,279
CANADA	37	82,897,836	16,09	16,312,27	1 1,527,920	16,756,285	34,352,911
1935							
Nova Scotia							
New Brunswi	ck 4			1,469,26	134,364	1,876,670	3,461,006
Quebec	11	37,556,898	7,279	8,235,11	2 777,662	9,275,356	18,040,841
Ontario	15	20 173 69/	9 551	9 033 97	947 071	1 177 710	

Table 3 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED 1935

4,223

1,505

Manitoba 4 14,242,168

Alberta 3 6,733,906

Ontario 15 20,173,624 2,551

CANADA 37 86,547,010 16,921

CAPITAL EMPLOYED, 1955.								
1	Number of	Capital	Average number	Selling value of				
	plants	employed	or employees	products at works				
(a) PRODUCTION		\$		\$				
Under \$100,000	.5	687,342	54	221,676				
\$100,000 to \$500,000	4	8,361,563	1,034	2,736,801				
\$500,001 to \$1,000,000	1.4	16,556,579	1,525	3,957,114				
Over \$1,000,000	14	60,941,526	14,308	34,297,448				
TOTAL	37	86,547,010	16,921	41,213,039				

361,227

120,542

2,933,871 243,071

18,785,671 1,636,866

4,558,528

1,588,896

4,297,986

1,145,486

4,173,710 7,611,959

20,769,208 41,213,039

9,264,003

2,835,230

Cales are derivated our out to the last too last the last	y terminal from all the later filled to the state of their to	Number	PITAL EMPI	oital		ge number	Selling	value of
			ts em			mployees		s at works
n 19 ala'h an dhan bandhan dhan e a gerradur (dha dre dontal a a	Company of the Paris of Summary and paris of the	ran and the second	AND THE PERSON NAMED IN TH	\$		reactionally agreement will be against the segment to the		\$
(b) EMPLO			-	7 7 9 9 9		40		494 949
Inder 25				353,892 950,178		40 118		424,849 295,574
25 to 50 51 to 100				466,207		352		572,147
101 to 250			,	341,448		1,411		046,246
251 to 500				300,148		1,933		109,443
501 to 1,000 .				413,839		3,570		436,080
Over 1,000 ,		non-soft filet demonstrating it yeller th		421,298	aghthag a fell of the contract of	9,497		328,700
(c) CAPIT	ΔΤ.		37 86,	547,010	resident for the contract of t	16,921	41.	213,039
Jnder \$250,000	\$4 shd		7	742,325		120		662,602
\$250,000 to \$1				019,141		735		380,855
\$1,000,001 to				484,557		3,145		380,223
Over \$3,000,00				300,987		12,921		789,359
TOTAL	0,130,9999999	***** \$6. 90 * * * * *	37 86,	547,010		16,921	41,	213,039
Table 4 - CAPI			INCES, 19	34 and 1	935.	They little them are little does named to be		
	Present value		entory		entory	Operatir	4	
	of lands, but		ue of		ue of	capital		TOTAL
	ings, machine		erials on d and stoo		ished ducts		nd accounts	CAPITAL EMPLOYE
	equipmen		n process		hand		penses, etc	
TO distribute, advisory region dall generalizari in virtic di fine (81). Il 187	\$	Trans. In the rest.	\$	** * * * *****************************	\$	\$		\$
1 9 3 4								
Nova Scotia an								
New Brunswick			148,093		,662	869,34		7,384,235
Quebec Ontario			965,365		,576	1,028,34		35,683,853
Manitoba			,112,136		,000	181,00		13,899,473
Alberta			683,418		000			6,718,756
CANADA			,352,463	1,261	,948	3,524,95	8	82,897,836
1 9 3 5.								
Nova Scotia an								
New Brunswick				725,182		748,5		7,840,414
Quebec				267,132		1,373,01		37,556,898
Ontario prossos				885,206		1,783,25		20,173,624
Manitoba () , , , , Alberta				441,640 677.67 9				14,242,168 6,733,906
CANADA				996,839	V p c	4,004,79	96	86,547,010
ye are to annual to the second			10 10 10 10 10 10 10 10 10 10 10 10 10 1		*			
Table 5 - EMPL				PROVINCE	S, 1934	and 1935		to a state of a survey base
	AVERAGE N			11 201				TOTAL
	On salaries	On wag		TAC	Sala	aries	Wages	SALARIES
	ale Female	male rem	are 10.	TAL	4		\$	AND WAGE
1 9 3 4	a				1		*	
Nova Scotia an New Bruhswic		1,085	1 1,	176	182,	491	1,006,145	1,188,63
Quebec				003	1,075,		6,096,686	7,172,10
Ontario		0 0 70		289			1,937,468	2,442,64
Manitoba				103	465		3,538,941	4,004,35
	. 93 2	1,429 .		524		353	1,308,185	1,504,53

. 4 ...

		- 4 -			
Table 5 - EMPLOYEES, SALA	RIES AND WAGES	, BY PROVINC	ES, 1934 and	1935 (conclud	led)
	E NUMBER OF EM				TOTAL
Provinces On salar	A		Salar	ies Wages	
Male Fema	the property of the speciment of the property of the party of the part		504.02	100	AND WAGES
Rele reme	TTE WATE LOW	dre Tolum			S S
			₩	\$	*
1935					
Nova Scotia and					
New Brunswick。 95	1 1,272	2 1,370	201,92	2 1,267,34	2 1,469,264
Quebec 559	-	21 7,272	1,095,12		
Ontario 254	0. 0.077	., 2,551	549,23		
Manitoba 225		4,223	476,45		
1621	7 470	7 000	206,65		
CANADA1,228					
CANADAI COO	00 10,002	23 16,921	2,529,38	1 10,200,20	4 109 100 011
Table 6 - WAGE-EARNERS, I			ta interior and that I first out the court of the		No. to . Some to
		3 4	r A Sur to Must have a Mile	1 9 3	The same of the second second
Months	Male	Female	TOTAL	Male Fema	le TOTAL
January	14,774	28	14,802	1.5,01.8 2	5 15,043
		29		15,241 2	
February	,		-		-
March		28		15,434 2	
April		26		15,631 2	-
May occourace occourace	15,094	26	15,120	15,586 2	6 15,612
June	14,810	20	14,830	15,289 2	4 15,313
July	-	19		15,140 2	
August		19		15,035 2	
		19		15,280 2	
September					
October		19	-	16,061 2	
November		24		16,279 2	,
December	14,695	22	14,717	17,446 2	1 17,467
AVERAGE	14,827	23	14,850	15,602 2	3 15,625
to the control of the state of the control of the c	The transfer of the second sec	Benna (Br. B.	and Market Control of the second of the seco	Sept. color 201 of the sept.	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Table 7 - FUEL AND ELECTE	RICITY USED. 19	34 and 1935.			
TOUTE I TOUT MILE TOUTE AND	TOTIL OUDDO	1 9	3 4	1 9	3 5
VF 2 3 -	II. J. A.			. 1 9	
Kinds	Unit o		Cost at		Cost at
NOT Been you are improved the proof to propose their the manufacture to the proof the	measur	e Quantity	works	Quantity	works
			\$		\$
Bituminous coal - Canadia	an short to	n 85,499	317,680	95,906	369,239
Importe	ed short to		270,425	59,329	267,202
Anthracite coal			1,654	155	1,666
Lignite coal - Canadian			183,933	77,058	206,418
				681	
Coke			14,024		6,337
Gasoline			4,325	28,105	5,355
Kerosene			1,272	1,752	311
Fuel oil	occos, Imp. gal.	. 2,447,526	1.53,493	2,894,953	186,031
Wood		308	1,704	333	1,842
Gas - Manufactured		, 14,412	20,928	31,738	
Natural		· ·	444	1,238	495
			6,589		10
Other fuel.		70 354 020		79 706 646	
Electricity purchased				78,396,646	563,599
TOTAL,	XXX ccc.o.	and the second second second	1,527,920		1,636,866
Electricity generated for	r				
own use	K. W. H.	4,195,454	¥ 1 7	5,752,644	0.50

		* 0	5 ~			
Table 8 - POWER EQUIPMENT, 1934	and 193	35.				
		4-946 5-95		3 4	1 9 3	5
Kinds		Nu	mber of	Total rated	Number of	Total rated
		7 14F Sw 1	units	horse power	units	horse power
Steam engines and steam turbines	0.250.05		53	16,614	57	20,598
Gasoline, gas and oil engines			4	1,050	4	1,050
Hydraulic turbines and water whe			203	- 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3	25
Total Primary Equipment .			57	17,664	64	21,673
Electric motors run by purchased			5,319	91,130	5,378	92,648
TOTAL POWER EQUIPMENT			5.376	108,794	5,442	114,321
Electric motors run by power gen						
by above primary units			558	6,985	559	6,985
Total Electric Motors				98,115	5,937	99,633
Boilers	2222026	9.9.	136	63,177	116	60,157
Table 9 MATERIALS USED, 1934 a	nd 1935					
			The second secon	9 3 4	1 9	3 5
Materials	Unit	of		Cost at		Cost at
water a survey of the same of	measu	ire	Quantity	works	Quantity	works
				\$		\$
Iron and steel	1		7.7. 5.70	000 105	30 550	050 501
Pig iron	-		13,530		12,772	276,524
Wrought iron				,	96	7,965
Malleable iron bars, etc.				,	357	39,202
Iron castings (purchased)					5,614	366,691
Forgings					1,996	104,772
Bars and rods, steel					15,093	824,143
Wire, steel					112	17,071
Shafting, steel						13,421
Plates, steel					12,686	610,109
Galvanized					2,311	105,194
Structural shapes, steel				, ,	3,496	247,559
Castings, steel					13,019	783,097
Alloy steel					74	32,030
Scrap iron and steel	short	ton			76,015	826,004
Other iron and steel					1,055	63,957
Other metals				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,000	o o y o o .
Aluminium .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	l.b.		5,757	2,466	13,484	4,343
Brass and bronze castings	lb,		3,71.9,899	533,483	3,053,752	447,530
Brass and bronze sheets, etc.	lb,		50,896		67,909	12,083
Copper	lb,		81,737		74,182	13,911
Lead ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			72,506		49,679	3,578
Tin			26,824		21,222	15,305
Zinc			37,730		32,721	2,392
Babbitt metal and solder			201,493		165,741	39,247
Other metals			9 10 9	6,597	0 0 0	8,339
Articles used for further manufa-	cture -	2.				
Iron and steel pipe, tubes and	3636			200 077		707 00:
Bolts puts rivets and screws			9 9 9		999	323,904
Bolts, nuts, rivets and screws. Electrical goods			0.9 1	700 500	905	455, 297
Paints, oils and varnishes			ر د ن	074 170	9 9 9	229,041 361,745
Centres			2,082		1,140	48,618
Tires			1.6,035		13,800	603,076
Wheels			47,767		54,536	582,785
Parts for cars, engines, etc.			0.5 %	2 000 4=5	900	1,854,368
			1 1 1 1 1 1 1 1 1 1		-21-1-1	

. 6 ...

Table 9 -	MATERIALS	USED.	1934	and	1935.	(concluded)

		1 9	3 4	1 9	3 5
Materials	Unit of		Cost at		Cost at
	measure	Quantity	works	Quantity	works
			\$		\$
Other articles of this class	XX	000	1,045,706	9 8 0	925,993
Other materials -					
Foundry coke	short ton	14,450	152,009	14,921	165,107
Moulding and core sands	short ton	8,996	29,461	7,379	32,493
Foundry facings	lb.	000	15,703	000	17,959
Lumber	M bd. ft.	18,565	551,587	19,018	691,785
Firebrick and cupola blocks	XX	0 0 0	25,339	343,058	27,739
Fireclay	short ton	1,048	8,383	1,122	9,406
Core oil and core compounds	XX	000	13,111	000	15,418
All other materials	XX	0.00	6,880,044	000	9,560,007
TOTAL	XX		16,756,285	The fact has through when the second region and the second	20, 769,208

Table 10 - PRODUCTS MANUFACTURED, 1934 and 1935.

(Williamson in systems of the state of the	1	9 3 4	1 9 3	3 5
		Selling		Selling
Products	Quantity	value	Quantity	value
er in von von de nije der geliet de deutste die deutsche die der de vereinsterhalte von der sterne de deutsche	ngt a di sart ann amana di dika di di dikan.	at works	e parameter experience experience and a contract of the contra	at works
		\$		\$
Cars, standard steam railway: - Freight No), 19	49,567	537	2,013,184
Passenger, No.	000	900	0 0 0	000
Cars, steam railway, gasoline-electrical .No)		13	4,675
Cars, electric railwayNo	12	100,748	0 0 0	2.50
Locomotives, new)	0 0 0	4	111,500
Tires for railway car wheelsll	3,602,465	184,817	3,986,133	205,407
Wheels for railway carsxx		1,860,603	0 0 0	1,942,603
Repairs on freight carsx		6,656,739	000	7,897,792
Repairs on passenger carsxx	\$ 000	3,914,467	0 0 0	4,469,777
Repairs on locomotivesx	000	8,294,819	0 0 0	9,382,374
Other custom and repair workxx	200	1,141,940	9 9 3	2,623,438
All other products (x)xx	\$ 000	12,149,211	900	12,562,289
TOTALxx		34,352,911	000	41,213,039
/ P - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9	2 4-2	9 9	3 8

⁽x) Includes brake beams, brakes, brakeshoes, springs, iron castings, mining machinery, buses and bus bodies, track equipment, etc.

Table 11 - PRODUCTION OF RAILWAY CAR WHEELS, RAILWAY CARS AND LOCOMOTIVES IN CANADA, 1923 - 1935.

4 4 4 P 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1969 - 1999				
		Railw	ay Cars	Locomotives		
Years	Railway car		Selling value		Selling value	
	wheels	Number	at works	Number	at works	
	\$		\$		\$	
1.923	3,731,738	7,856	29,967,400	1.38	7,666,531	
1924	4,291,857	4,544	15,943,719	84	5,678,620	
1925	3,547,542	1,435	3,415,475	8	342,000	
1926	3,893,942	3,335	17,438,251	57	3,316,348	
1927	4,235,349	5,005	14,640,385	57	4,417,770	
1.928	4,292,045	3,058	11,286,155	48	3,086,266	
1.929	4,978,633	13,242	53,933,537	98	8,389,781	
1930	3,687,847	8,348	34,533,255	108	6,772,938	
1931	2,457,989	5,288	19,782,973	26	1,897,493 39,173	
1932 *********	I,694,440	282	358,287	2.	98,±10	
1933	952,971	589	1,726,227	0 9 13	000	
1934	1,860,603	3].	150,315	000	111,500	
1.935	1,942,603	550	2,017,841	4		

LIST OF FIRMS INCLUDED IN THE RAILWAY ROLLING STOCK INDUSTRY, 1935.

NOTE - This directory carries only the names of concerns which the Bureau has classified, for statistical purposes, to the Railway Rolling Stock Industry. It is not intended to be a complete list of the concerns which manufacture parts for railway rolling stock.

Names

Location of Plants

NOVA SCOTIA

Canadian Car & Foundry Co. Ltd.

Eastern Car Co. Ltd.

Wheel & Foundry Co. Ltd.

NEW BRUNSWICK

Canadian National Railways

QUEBEC ... Canadian Car & Foundry Co. Ltd.

Canadian National Railways

Canadian Pacific Railway Company Canadian Steel Tire & Wheel Co. Ltd. Coghlin, B.J., Co. Ltd. Montreal Locomotive Works Ltd.

ONTARIO -

Buffalo Brake Beam Company
Canada Iron Foundries Limited
Canadian Locomotive Co. Ltd.
Canadian National Railways
Dominion Brake Shoe Co. Ltd.
Dominion Wheel & Foundries Ltd.
Fairmont Railway Motors Ltd.
Hammant Steel Car & Engineering Works
National Steel Car Corp. Ltd.
Ottawa Car Mfg. Co. Ltd.

MANITOBA -

Canadian National Railways Canadian Pacific Railway Company Dominion Wheel & Foundries Limited

ALBERTA - Canadian National Railways Canadian Pacific Railway Company

Amherst Trenton New Glasgow

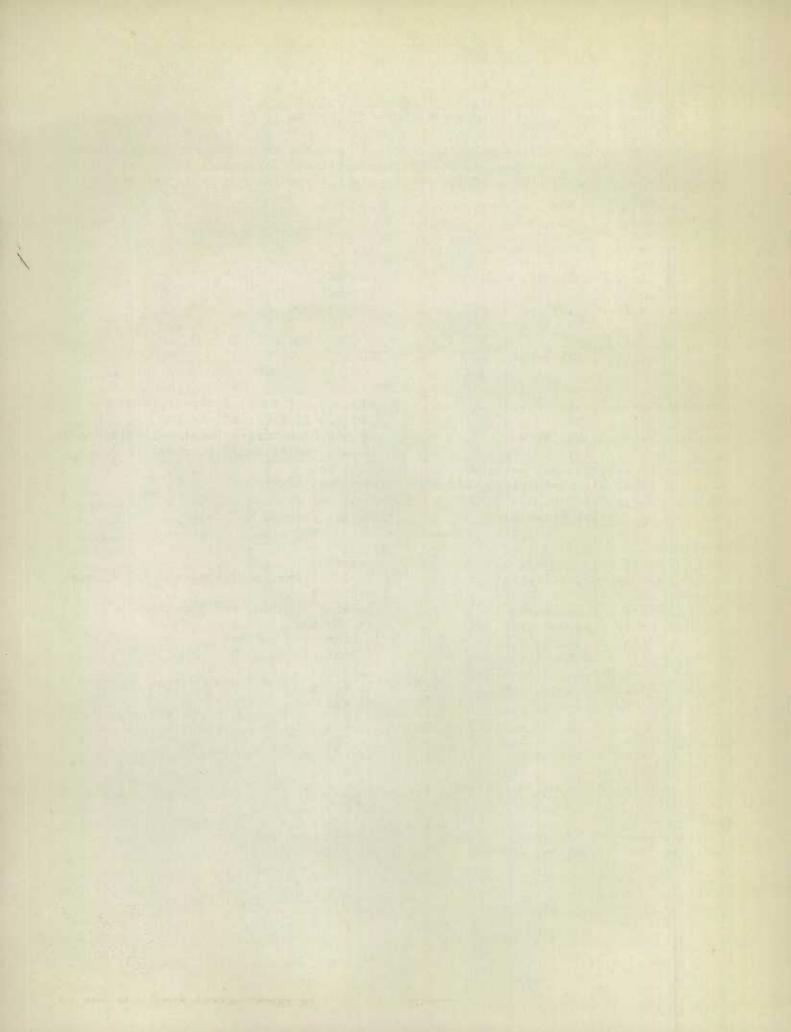
Moncton

Ville St. Pierre, Montreal, and Cote St. Paul, Montreal Pointe St. Charles, (Montreal) Riviere du Loup, and St. Malo (Quebec) Montreal Montreal East Montreal Longue Pointe, Montreal

Hamilton
Fort William, Hamilton, and St. Thomas
Kingston
Leaside, London, and Stratford
St. Thomas
Cobourg and Toronto
Toronto
Hamilton
Hamilton
Ottawa

Transcona and Winnipeg Winnipeg St. Boniface

Edmonton (2 plants) Calgary



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