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RAILWAY TRANSPORT

1959

PART VI

(Employment Statistics)

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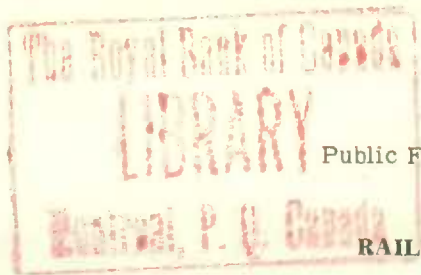
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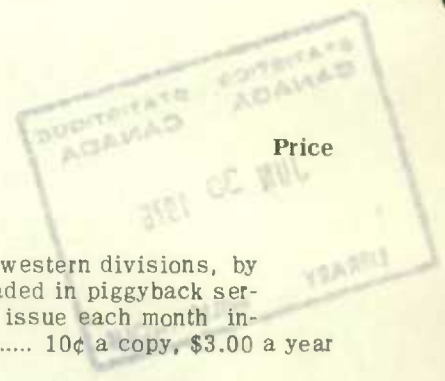
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AUG 31 1960

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1. The first part of the document discusses the general situation of the country and the role of the government. It mentions the need for a strong and stable government to ensure the well-being of the people and the progress of the nation.

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RAILWAY TRANSPORT

1959

PART VI

(Employment Statistics)

Presented in this report are employment statistics of common carrier railways operating in Canada for the calendar year 1959. On pages 6 to 9 are details concerning the two class I roads, the Canadian National Railways and the Canadian Pacific Railway Company, while on pages 10 and 11 are those of nineteen class II railways (others having average gross revenues of \$500,000 or more annually). Statistics of class III and IV carriers (those averaging less than \$500,000 annually and other companies such as terminal, bridge, tunnel and pullman) are shown in condensed form on page 14.

The classification of employees followed in reporting the data contained herein is that prescribed by the Board of Transport Commissioners for Canada and the Dominion Bureau of Statistics entitled, "Canadian Classification of Railway Employees and Their Compensation", which became effective January 1, 1956. To assist in interpreting the data given, the method of compilation used generally by the reporting railways is explained briefly below.

For the "Number of Employees—Monthly Average", as shown in column one in this report, employees are counted once each month and the average of the twelve monthly counts for each division are entered. Employees whose assigned day off may fall on the day of the count and employees absent on vacation or leave with pay are included in the count; employees on leave without pay are excluded. Under "Time on Duty", the number of hours actually worked, or held for duty under pay, are ascertained and recorded for each class of employee. Hoildays and part holidays not worked, vacations, absences on leave, etc., whether paid for or not, are excluded. Meal periods are included when paid for but excluded when not paid for. The column headed, "Total Compensation" contains salaries and wages earned by the employees and charged to operating, capital and other accounts, including vacations and holidays with pay and before deduction for income tax, unemployment insurance, etc.

The Canadian National Railways for 1959 reported an average of 102,927 employees on payroll, a decline of 1.1 per cent from 104,103 in 1958. The number of hours worked were down 1.9 per cent to 207,317,522 from 211,301,404 but the total compensation paid rose 4.3 per cent to \$424,767,649 from \$407,095,996. On the average, C.N.R. employees worked fewer hours during 1959 (2,014 as compared with 2,030 in 1958) and received an average \$2.05 per hour as against \$1.93 a year earlier. The average annual salary was \$4,127 in contrast to \$3,911.

The Canadian Pacific Railway Company employed an average of 73,277 persons during the year under review, a 4.2 per cent decline from 76,509 in 1958. The total hours worked by those employed declined 4.1 per cent to 147,243,218 from 153,596,993 while salaries and wages aggregated \$298,317,809 in 1959, up 1.3 per cent from \$294,474,498 a year ago. C.P.R. employees worked an average 2,009 hours as against 2,008 in 1958 and the average hourly rate was \$2.03 as compared with \$1.92. Annual earnings per employee averaged \$4,071, up from \$3,849 in the previous year.

Employment on class II railways declined 2.3 per cent to 10,985 persons from 11,246 in 1958 and the average number of hours worked decreased slightly to 2,153 from 2,160. Following the trend of the two major roads, hourly and annual wage rates rose to \$2.28 from \$2.17 and \$4,911 from \$4,689, respectively

Railway employment in 1959 as a whole declined to an average of 187,981, a decrease of 2.5 per cent below that of 1958. The total payroll for all roads operating in Canada in 1959 was \$780,031,534, an increase of 2.9 per cent above the \$757,907,896 of 1958. During the year employees in the industry averaged 2,021 hours on duty and earned an average \$2.05 per hour or \$4,150 per year. The comparative 1958 averages were 2,029 hours, \$1.94 per hour and \$3,931 per year.

June 21, 1960.

TABLE 1. Employees and their Compensation, 1959 - Canadian National Railways

No.	Division	Number of employees (monthly average) ¹	Time on duty (hours)	Total compensation	Average hours worked	Average salaries and wages	
						Per hour	Per year
	General			\$		dollars	
1	Executives, officers and assistants	1,288	2,686,227	11,271,569	2,086	4.20	8,751
2	Professional and sub-professional assistants	1,290	2,700,480	7,238,399	2,093	2.68	5,611
3	Chief, assistant chief and supervisory clerks	844	1,726,794	4,428,780	2,046	2.56	5,247
4	Clerks, stenographers and office machine operators	10,842	21,565,862	40,476,267	1,989	1.88	3,733
5	Telephone switchboard operators, office boys and sorters	471	873,817	1,171,389	1,855	1.34	2,487
6	Janitors and other building attendants	754	1,425,449	2,231,025	1,891	1.57	2,959
7	Service vehicle operators	152	345,150	637,777	2,271	1.85	4,196
8	Miscellaneous trades workers	53	104,400	206,047	1,970	1.97	3,888
9	Police inspectors, sergeants, special agents and investigators	112	223,177	615,757	1,993	2.76	5,498
10	Constables and policemen	463	900,089	1,871,252	1,944	2.08	4,042
11	Stores general foremen, foremen and assistants ..	163	328,206	724,382	2,014	2.21	4,444
12	Storemen and stores labourers (non-clerical)	1,441	2,684,385	4,704,068	1,863	1.75	3,264
	Totals	17,873	35,564,036	75,576,712	1,990	2.13	4,229
	Way and Structures						
13	B. & B. masters, roadmasters and assistants	400	838,362	2,506,077	2,096	2.99	6,265
14	Maintenance of way and scale inspectors	50	103,271	245,212	2,065	2.37	4,904
15	B. & B. department foremen	346	686,562	1,593,518	1,984	2.32	4,606
16	B. & B. carpenters and bridgemen	1,593	3,070,199	5,878,826	1,927	1.91	3,690
17	Blacksmiths, pipefitters and tinsmiths	175	346,617	781,674	1,981	2.26	4,467
18	Masons, painters and other journeymen	533	1,045,563	2,139,056	1,962	2.05	4,013
19	Helpers, B. & B. department	210	411,330	754,746	1,959	1.83	3,594
20	Labourers, bridge, building and signal	477	924,026	1,429,914	1,937	1.55	2,998
21	Work equipment operators and helpers	761	1,954,708	4,114,264	2,569	2.10	5,406
22	Pumpmen	16	35,205	67,966	2,200	1.93	4,248
23	Extra gang and snow plow foremen	254	795,437	1,826,149	3,132	2.30	7,190
24	Section foremen	2,631	5,419,631	10,480,451	2,060	1.93	3,983
25	Labourers, extra gang	4,044	10,257,244	11,773,380	2,536	1.15	2,911
26	Sectionmen	8,677	16,446,423	26,881,907	1,895	1.63	3,098
27	General and assistant general foremen and inspectors (signal and electrical transmission) ..	41	88,570	261,212	2,160	2.95	6,371
28	Foremen, signal and electrical transmission	64	137,456	373,646	2,148	2.72	5,838
29	Signal and interlocker maintainers and helpers ..	726	1,469,698	2,933,322	2,024	2.00	4,040
30	Linemen and groundmen, electrical transmission ..	12	24,662	52,820	2,055	2.14	4,402
	Totals	21,010	44,054,964	74,094,140	2,097	1.68	3,527
	Equipment						
31	General foremen, foremen and assistant foremen ..	1,772	3,737,566	10,098,064	2,109	2.70	5,699
32	Blacksmiths	231	435,359	965,906	1,885	2.22	4,181
33	Boilermakers	429	818,332	1,873,293	1,908	2.29	4,367
34	Carmen, coach and locomotive	1,428	2,782,043	6,260,729	1,948	2.25	4,384
35	Carmen, freight	4,207	8,077,705	17,414,772	1,920	2.16	4,139
36	Electrical workers	1,184	2,340,485	5,251,631	1,977	2.24	4,435
37	Machinists	2,172	4,138,917	9,434,730	1,906	2.28	4,344
38	Moulders	21	38,131	88,208	1,816	2.31	4,200
39	Pipefitters and sheet metal workers	881	1,688,799	3,810,723	1,917	2.26	4,325
40	Helpers to mechanics	2,699	5,176,249	9,853,606	1,918	1.90	3,651
41	Apprentices	786	1,487,744	2,472,347	1,893	1.66	3,145
42	Coach cleaners	953	1,794,449	3,000,811	1,883	1.67	3,149
43	Classified labourers (shops, enginehouses and power plants)	1,895	3,470,176	6,008,748	1,831	1.73	3,171
44	Unclassified labourers (shops, enginehouses and power plants)	896	1,590,543	2,638,124	1,775	1.66	2,944
45	Stationary engineers, firemen and oilers	359	774,217	1,464,106	2,157	1.89	4,078
	Totals	19,913	38,350,715	80,635,798	1,926	2.10	4,049

See footnote at end of table.

TABLE 1. Employees and their Compensation, 1959 - Canadian National Railways - Concluded

No.	Division	Number of employees (monthly average) ¹	Time on duty (hours)	Total compensation	Average hours worked	Average salaries and wages	
						Per hour	Per year
				\$	dollars		
Transportation							
46	Chief train dispatchers	73	174,091	660,934	2,385	3.80	9,054
47	Train dispatchers	322	633,055	2,031,125	1,966	3.21	6,308
48	Supervisory agents and assistants	363	760,331	1,801,735	2,095	2.37	4,963
49	Agents and caretaker agents at small stations (non-telegraphers)	151	303,742	538,487	2,012	1.77	3,566
50	Station agents, telegraphers and telephoners	3,486	7,090,988	14,746,140	2,034	2.08	4,230
51	Levermen (non-telegraphers) at interlockers	56	112,012	237,673	2,000	2.12	4,244
52	Baggage, parcel room and station attendants	489	979,754	1,617,434	2,004	1.65	3,308
53	General foremen and foremen in freight sheds	317	656,857	1,378,563	2,072	2.10	4,349
54	Freight handlers and freight shed operators	2,419	4,211,666	7,613,192	1,741	1.81	3,147
55	Labourers	619	1,147,238	1,889,274	1,853	1.65	3,052
56	Dining car and restaurant inspectors	121	241,906	644,593	1,999	2.66	5,327
57	Dining car stewards, chefs, cooks and waiters ..	690	1,511,856	2,463,735	2,191	1.63	3,571
58	Restaurant managers, chefs, cooks and waiters..	464	1,167,190	1,460,418	2,515	1.25	3,147
59	News agents	—	—	—	—	—	—
60	Sleeping and parlour car conductors	85	208,099	420,689	2,448	2.02	4,949
61	Porters and other train attendants	633	1,420,030	2,170,657	2,243	1.53	3,429
62	Bridge operators	84	174,644	330,621	2,079	1.89	3,936
63	Crossing watchmen and gatemen	355	737,359	1,183,334	2,077	1.60	3,333
64	Floating equipment employees	408	756,274	1,674,852	1,854	2.21	4,106
	Sub-totals	11,135	22,287,092	42,863,456	2,002	1.92	3,849
65	Yardmasters and assistants	395	1,246,640	3,268,734	3,156	2.62	8,275
66	Switch tenders	241	519,736	1,026,846	2,157	1.98	4,261
67	Hostlers	241	623,762	1,328,241	2,588	2.13	5,511
	Sub-totals	877	2,390,138	5,623,821	2,725	2.35	6,413
68	Road passenger conductors	420	824,639	2,736,287	1,963	3.32	6,515
69	Road freight conductors	1,276	2,630,785	8,133,347	2,062	3.09	6,374
70	Road passenger brakemen and baggagemen	972	1,792,155	4,918,608	1,844	2.74	5,060
71	Road freight brakemen	2,987	5,243,300	14,008,405	1,755	2.67	4,690
72	Yard foremen	1,160	2,553,762	6,531,402	2,202	2.56	5,631
73	Yard helpers	2,553	5,148,511	11,969,440	2,017	2.32	4,688
74	Road passenger engineers and motormen	506	868,088	4,127,985	1,716	4.76	8,158
75	Road freight engineers and motormen	1,507	2,948,737	10,241,837	1,957	3.47	6,796
76	Yard engineers and motormen	1,006	2,670,722	6,909,863	2,655	2.59	6,869
77	Road passenger firemen and helpers	462	733,713	2,917,282	1,588	3.98	6,314
78	Road freight firemen and helpers	1,580	2,821,642	8,027,462	1,786	2.84	5,081
79	Yard firemen and helpers	1,027	2,507,301	5,415,869	2,441	2.16	5,273
	Sub-totals	15,456	30,743,355	85,937,787	1,989	2.80	5,560
	Totals	27,468	55,420,585	134,425,064	2,018	2.43	4,894
	Totals divisions 1 to 79	86,264	173,390,300	364,731,714	2,010	2.10	4,228
Other Operations							
80	Communications	5,827	12,056,611	22,322,003	2,069	1.85	3,831
81	Express	6,091	12,280,679	23,122,142	2,016	1.88	3,796
82	Cartage	—	—	—	—	—	—
83	Highway transport (rail)	864	1,752,120	3,231,601	2,028	1.84	3,740
84	Outside operations	3,881	7,837,812	11,360,189	2,020	1.45	2,927
	Totals	16,663	33,927,222	60,035,935	2,036	1.77	3,603
	Grand totals	102,927	207,317,522	424,767,649²	2,014	2.05	4,127
85	Number of female employees (monthly average) ..	4,857	—	—	—	—	—
86	Salaries and wages charged to operating expenses	—	—	370,700,108	—	—	—

¹ Average of counts made each month.² Includes \$1,385,790 paid to employees domiciled outside Canada and charged to the Canadian System.

TABLE 2. Employees and their Compensation, 1959 - Canadian Pacific Railway Company

No.	Division	Number of employees (monthly average) ¹	Time on duty (hours)	Total compensation	Average hours worked	Average salaries and wages	
						Per hour	Per year
				\$		dollars	
	General						
1	Executives, officers and assistants	991	2,037,694	10,191,679	2,056	5.00	10,284
2	Professional and sub-professional assistants	361	722,750	2,086,374	2,002	2.89	5,779
3	Chief, assistant chief and supervisory clerks ...	854	1,717,246	4,514,302	2,011	2.63	5,286
4	Clerks, stenographers and office machine operators	7,850	15,722,142	29,081,976	2,003	1.85	3,705
5	Telephone switchboard operators, office boys and sorters	399	773,283	975,966	1,938	1.26	2,446
6	Janitors and other building attendants	439	845,961	1,191,558	1,927	1.41	2,714
7	Service vehicle operators	42	86,388	165,149	2,057	1.91	3,932
8	Miscellaneous trades workers	33	64,810	131,404	1,964	2.03	3,982
9	Police inspectors, sergeants, special agents and investigators	124	288,201	652,893	2,324	2.27	5,265
10	Constables and policemen	416	825,054	1,727,192	1,983	2.09	4,152
11	Stores general foremen, foremen and assistants ..	95	182,898	445,260	1,925	2.43	4,687
12	Storemen and stores labourers (non-clerical)	523	998,545	1,822,305	1,909	1.82	3,484
	Totals	12,127	24,264,972	52,986,058	2,001	2.18	4,369
	Way and Structures						
13	B. & B. masters, roadmasters and assistants	344	691,213	2,180,163	2,009	3.15	6,338
14	Maintenance of way and scale inspectors	6	12,156	29,534	2,026	2.43	4,922
15	B. & B. department foremen	210	430,288	972,718	2,049	2.26	4,632
16	B. & B. carpenters and bridgemen	884	1,736,897	3,309,650	1,965	1.91	3,744
17	Blacksmiths, pipefitters and tinsmiths	95	192,443	421,472	2,026	2.19	4,437
18	Masons, painters and other journeymen	272	532,034	1,086,035	1,956	2.04	3,993
19	Helpers, B. & B. department	58	116,582	202,727	2,010	1.74	3,495
20	Labourers, bridge, building and signal	333	685,930	1,037,327	2,060	1.51	3,115
21	Work equipment operators and helpers	380	928,660	1,887,116	2,444	2.03	4,966
22	Pumpmen	6	12,419	24,296	2,070	1.96	4,049
23	Extra gang and snow plow foremen	104	271,753	588,959	2,613	2.17	5,663
24	Section foremen	2,068	4,235,002	8,053,393	2,048	1.90	3,894
25	Labourers, extra gang	1,471	3,555,991	4,051,153	2,417	1.14	2,754
26	Sectionmen	5,853	11,337,654	18,319,896	1,937	1.62	3,130
27	General and assistant general foremen and inspectors (signal and electrical transmission)	17	34,370	113,687	2,022	3.31	6,687
28	Foremen, signal and electrical transmission	27	54,581	152,532	2,022	2.79	5,649
29	Signal and interlocker maintainers and helpers ..	403	920,012	1,750,016	2,283	1.90	4,342
30	Linemen and groundmen, electrical transmission ..	10	19,385	43,591	1,939	2.25	4,359
	Totals	12,541	25,767,370	44,224,265	2,055	1.72	3,526
	Equipment						
31	General foremen, foremen and assistant foremen ..	865	1,733,863	5,225,655	2,004	3.01	6,041
32	Blacksmiths	129	239,576	547,793	1,857	2.29	4,246
33	Boilermakers	222	425,031	971,377	1,915	2.29	4,376
34	Carmen, coach and locomotive	887	1,676,752	3,763,685	1,890	2.24	4,243
35	Carmen, freight	3,017	5,857,132	12,548,134	1,941	2.14	4,159
36	Electrical workers	713	1,377,807	3,120,696	1,932	2.26	4,377
37	Machinists	1,490	2,826,237	6,405,176	1,897	2.27	4,299
38	Moulders	30	56,223	134,522	1,874	2.39	4,484
39	Pipefitters and sheet metal workers	484	913,954	2,057,749	1,888	2.25	4,252
40	Helpers to mechanics	2,781	5,416,996	10,192,769	1,948	1.88	3,665
41	Apprentices	538	1,020,746	1,667,236	1,897	1.63	3,099
42	Coach cleaners	827	1,625,763	2,695,126	1,966	1.66	3,259
43	Classified labourers (shops, enginehouses and power plants)	1,157	2,264,852	3,686,589	1,958	1.63	3,186
44	Unclassified labourers (shops, enginehouses and power plants)	1,459	2,790,207	4,507,824	1,912	1.62	3,090
45	Stationary engineers, firemen and oilers	286	592,527	1,149,102	2,072	1.94	4,018
	Totals	14,885	28,817,666	58,673,433	1,936	2.04	3,942

See footnote at end of table.

TABLE 2. Employees and their Compensation, 1959 - Canadian Pacific Railway Company - Concluded

No.	Division	Number of employees (monthly average) ¹	Time on duty (hours)	Total compensation	Average hours worked	Average salaries and wages	
						Per hour	Per year
				\$		dollars	
Transportation							
46	Chief train despatchers	43	92,103	401,939	2,142	4.36	9,347
47	Train despatchers	222	430,209	1,385,805	1,938	3.22	6,242
48	Supervisory agents and assistants	266	540,434	1,307,493	2,032	2.42	4,915
49	Agents and caretaker agents at small stations (non-telegraphers)	108	217,232	302,302	2,011	1.39	2,799
50	Station agents, telegraphers and telephoners	2,219	4,490,220	9,395,873	2,024	2.09	4,234
51	Levermen (non-telegraphers) at interlockers	77	155,042	279,295	2,014	1.80	3,627
52	Baggage, parcel room and station attendants	473	935,939	1,498,604	1,979	1.60	3,168
53	General foremen and foremen in freight sheds	194	389,727	862,288	2,009	2.21	4,445
54	Freight handlers and freight shed operators	1,982	3,742,260	6,873,713	1,888	1.84	3,468
55	Labourers	450	900,756	1,426,365	2,002	1.58	3,170
56	Dining car and restaurant inspectors	26	59,800	137,205	2,300	2.29	5,277
57	Dining car stewards, chefs, cooks and waiters ..	658	1,579,602	2,278,227	2,401	1.44	3,462
58	Restaurant managers, chefs, cooks and waiters ..	93	203,342	226,954	2,186	1.12	2,440
59	News agents	137	319,735	512,195	2,334	1.60	3,739
60	Sleeping and parlour car conductors	141	364,813	625,363	2,587	1.71	4,435
61	Porters and other train attendants	636	1,529,859	2,179,505	2,405	1.42	3,427
62	Bridge operators	36	70,892	146,110	1,969	2.06	4,059
63	Crossing watchmen and gatemen	97	195,025	307,926	2,011	1.58	3,174
64	Floating equipment employees	22	60,894	102,748	2,768	1.69	4,670
	Sub-totals	7,880	16,277,884	30,249,910	2,066	1.86	3,839
65	Yardmasters and assistants	366	659,049	2,043,441	1,801	3.10	5,583
66	Switch tenders	133	265,671	511,351	1,998	1.92	3,845
67	Hostlers	177	299,673	609,669	2,561	2.03	5,211
	Sub-totals	616	1,224,393	3,164,461	1,988	2.58	5,137
68	Road passenger conductors	262	466,751	1,796,881	1,781	3.85	6,858
69	Road freight conductors	878	1,981,037	5,953,220	2,256	3.01	6,780
70	Road passenger brakemen and baggagemen	588	987,754	3,118,442	1,680	3.16	5,303
71	Road freight brakemen	2,064	3,915,769	10,175,047	1,897	2.60	4,930
72	Yard foremen	832	1,771,643	4,358,621	2,129	2.46	5,239
73	Yard helpers	2,050	3,766,602	8,464,659	1,837	2.25	4,129
74	Road passenger engineers and motormen	336	524,222	2,759,475	1,560	5.26	8,213
75	Road freight engineers and motormen	999	2,077,534	7,429,277	2,080	3.58	7,437
76	Yard engineers and motormen	726	1,846,398	4,601,981	2,543	2.49	6,339
77	Road passenger firemen and helpers	267	403,986	1,706,185	1,513	4.22	6,390
78	Road freight firemen and helpers	1,003	2,041,042	5,850,408	2,035	2.87	5,833
79	Yard firemen and helpers	672	1,683,744	3,346,370	2,506	1.99	4,980
	Sub-totals	10,677	21,466,482	59,560,566	2,011	2.77	5,578
	Totals	19,173	38,968,759	92,974,937	2,032	2.39	4,849
	Totals divisions 1 to 79	58,726	117,818,767	248,858,693	2,006	2.11	4,238
Other Operations							
80	Communications	3,943	8,045,662	14,269,120	2,040	1.77	3,619
81	Express	4,671	9,091,575	17,288,541	1,946	1.90	3,701
82	Cartage	476	872,827	1,571,677	1,834	1.80	3,302
83	Highway transport (rail)	26	66,311	111,166	2,550	1.68	4,276
84	Outside operations	5,435	11,348,076	16,218,612	2,088	1.43	2,984
	Totals	14,551	29,424,451	49,459,116	2,022	1.68	3,399
	Grand totals	73,277	147,243,218	298,317,809²	2,009	2.03	4,071
85	Number of female employees (monthly average) ..	5,350	—	—	—	—	—
86	Salaries and wages charged to operating expenses	—	—	264,752,540	—	—	—

¹ Average of counts made each month.² Includes \$7,139,931 paid to employees domiciled outside Canada and charged to the Canadian System.

TABLE 3. Employees and their Compensation, 1959 - Class II Railways¹

No.	Division	Number of employees (monthly average) ²	Time on duty (hours)	Total compensation	Average hours worked	Average salaries and wages	
						Per hour	Per year
				\$	dollars		
General							
1	Executives, officers and assistants	236	429,597	2,020,425	1,820	4.70	8,561
2	Professional and sub-professional assistants	112	213,906	660,836	1,910	3.09	5,900
3	Chief, assistant chief and supervisory clerks	106	220,042	576,906	2,076	2.62	5,442
4	Clerks, stenographers and office machine operators	1,001	1,972,665	4,104,664	1,971	2.08	4,101
5	Telephone switchboard operators, office boys and sorters	35	70,057	114,567	2,002	1.64	3,273
6	Janitors and other building attendants	62	113,753	209,346	1,835	1.84	3,377
7	Service vehicle operators	33	69,492	146,441	2,106	2.11	4,438
8	Miscellaneous trades workers	1	293	640	293	2.18	640
9	Police inspectors, sergeants, special agents and investigators	5	9,487	27,634	1,897	2.91	5,527
10	Constables and policemen	67	130,295	273,217	1,945	2.10	4,078
11	Stores general foremen, foremen and assistants ..	19	33,601	87,747	1,768	2.61	4,618
12	Storemen and stores labourers (non-clerical)	103	175,738	386,731	1,706	2.20	3,755
Totals		1,780	3,438,926	8,609,154	1,932	2.50	4.837
Way and Structures							
13	B. & B. masters, roadmasters and assistants	62	139,845	451,900	2,256	3.23	7,289
14	Maintenance of way and scale inspectors	2	6,048	14,708	3,024	2.43	7,354
15	B. & B. department foremen	37	80,430	206,120	2,174	2.56	5,571
16	B. & B. carpenters and bridgemen	196	412,156	878,337	2,103	2.13	4,481
17	Blacksmiths, pipefitters and tinsmiths	2	2,492	6,179	1,246	2.48	3,090
18	Masons, painters and other journeymen	54	107,166	241,933	1,985	2.26	4,480
19	Helpers, B. & B. department	5	11,180	25,167	2,236	2.25	5,033
20	Labourers, bridge, building and signal	76	147,333	277,217	1,939	1.88	3,648
21	Work equipment operators and helpers	184	511,240	1,073,361	2,778	2.10	5,833
22	Pumpmen	4	9,787	18,174	2,447	1.86	4,544
23	Extra gang and snow plow foremen	75	183,620	463,854	2,448	2.53	6,185
24	Section foremen	361	751,813	1,525,446	2,083	2.03	4,226
25	Labourers, extra gang	749	1,803,308	2,832,475	2,408	1.57	3,782
26	Sectionmen	1,301	2,640,399	4,381,029	2,030	1.66	3,367
27	General and assistant general foremen and inspectors (signal and electrical transmission) ..	7	17,197	58,212	2,457	3.39	8,316
28	Foremen, signal and electrical transmission	10	19,754	63,049	1,975	3.19	6,305
29	Signal and interlocker maintainers and helpers ..	123	260,319	634,856	2,116	2.44	5,161
30	Linemen and groundmen, electrical transmission ..	23	52,621	114,344	2,288	2.17	4,971
Totals		3,271	7,156,708	13,266,361	2,188	1.85	4,056
Equipment							
31	General foremen, foremen and assistant foremen ..	202	437,023	1,271,369	2,163	2.91	6,294
32	Blacksmiths	20	39,655	91,477	1,983	2.31	4,574
33	Boilermakers	35	68,063	152,946	1,945	2.25	4,370
34	Carmen, coach and locomotive	155	316,938	769,110	2,045	2.43	4,962
35	Carmen, freight	491	1,069,074	2,526,263	2,177	2.36	5,145
36	Electrical workers	109	224,254	549,513	2,057	2.45	5,041
37	Machinists	229	471,875	1,160,796	2,061	2.46	5,069
38	Moulders	—	—	—	—	—	—
39	Pipefitters and sheet metal workers	34	72,410	165,885	2,130	2.29	4,879
40	Helpers to mechanics	305	643,911	1,266,122	2,111	1.97	4,151
41	Apprentices	72	142,381	231,939	1,978	1.63	3,221
42	Coach cleaners	54	116,873	205,085	2,164	1.75	3,798
43	Classified labourers (shops, enginehouses and power plants)	139	334,443	600,952	2,406	1.80	4,323
44	Unclassified labourers (shops, enginehouses and power plants)	89	148,443	256,461	1,668	1.73	2,882
45	Stationary engineers, firemen and oilers	38	71,976	145,398	1,894	2.02	3,826
Totals		1,972	4,157,319	9,393,316	2,108	2.26	4,763

See footnotes at end of table.

TABLE 3. Employees and their Compensation, 1959 - Class II Railways¹ - Concluded

No.	Division	Number of employees (monthly average) ²	Time on duty (hours)	Total compensation	Average hours worked	Average salaries and wages	
						Per hour	Per year
				\$	dollars		
Transportation							
46	Chief train despatchers	17	36,079	139,817	2,122	3.88	8,225
47	Train despatchers	69	149,551	481,435	2,167	3.22	6,977
48	Supervisory agents and assistants	44	95,328	252,361	2,167	2.65	5,735
49	Agents and caretaker agents at small stations (non-telegraphers)	12	25,338	65,144	2,112	2.57	5,429
50	Station agents, telegraphers and telephoners	393	845,005	1,948,612	2,150	2.31	4,958
51	Levermen (non-telegraphers) at interlockers	11	31,452	70,785	2,859	2.25	6,435
52	Baggage, parcel room and station attendants	21	49,771	93,924	2,370	1.89	4,473
53	General foremen and foremen in freight sheds	47	100,019	200,641	2,128	2.01	4,269
54	Freight handlers and freight shed operators	248	461,570	958,691	1,861	2.08	3,866
55	Labourers	57	138,709	246,404	2,433	1.78	4,323
56	Dining car and restaurant inspectors	3	6,933	15,408	2,311	2.22	5,136
57	Dining car stewards, chefs, cooks and waiters	59	121,227	215,065	2,055	1.77	3,645
58	Restaurant managers, chefs, cooks and waiters	87	197,424	395,669	2,269	2.00	4,548
59	News agents	7	11,416	14,371	1,631	1.26	2,053
60	Sleeping and parlour car conductors	1	2,736	4,672	2,736	1.71	4,672
61	Porters and other train attendants	42	105,979	176,774	2,523	1.67	4,209
62	Bridge operators	10	18,654	37,817	1,865	2.03	3,782
63	Crossing watchmen and gatemen	5	9,585	14,306	1,917	1.49	2,861
64	Floating equipment employees	32	75,187	106,766	2,350	1.42	3,336
	Sub-totals	1,165	2,481,963	5,438,662	2,130	2.19	4,668
65	Yardmasters and assistants	59	127,944	398,999	2,169	3.12	6,763
66	Switch tenders	16	35,557	95,691	2,222	2.69	5,981
67	Hostlers	52	124,603	267,089	2,396	2.14	5,136
	Sub-totals	127	288,104	761,779	2,269	2.64	5,998
68	Road passenger conductors	47	116,292	386,349	2,474	3.32	8,220
69	Road freight conductors	220	602,016	1,669,905	2,736	2.77	7,590
70	Road passenger brakemen and baggagemen	98	241,061	615,826	2,460	2.55	6,284
71	Road freight brakemen	491	1,113,929	2,816,893	2,269	2.53	5,737
72	Yard foremen	167	399,468	1,095,096	2,392	2.74	6,557
73	Yard helpers	386	759,770	1,942,866	1,968	2.56	5,033
74	Road passenger engineers and motormen	88	175,640	848,635	1,996	4.83	9,644
75	Road freight engineers and motormen	209	507,743	1,684,718	2,429	3.32	8,061
76	Yard engineers and motormen	137	369,850	1,035,029	2,700	2.80	7,555
77	Road passenger firemen and helpers	47	108,654	391,590	2,312	3.60	8,332
78	Road freight firemen and helpers	217	494,972	1,393,089	2,281	2.81	6,420
79	Yard firemen and helpers	143	344,840	835,056	2,411	2.42	5,840
	Sub-totals	2,250	5,234,235	14,715,052	2,326	2.81	6,540
	Totals	3,542	8,004,302	20,915,493	2,260	2.61	5,905
	Totals divisions 1 to 79	10,565	22,757,255	52,184,324	2,154	2.29	4,939
Other Operations							
80	Communications	378	795,340	1,585,000	2,104	1.99	4,193
81	Express	39	89,059	166,332	2,284	1.87	4,265
82	Cartage	3	6,207	11,901	2,069	1.92	3,967
83	Highway transport (rail)	—	—	—	—	—	—
84	Outside operations	—	—	—	—	—	—
	Totals	420	890,606	1,763,233	2,120	1.98	4,198
	Grand totals	10,985	23,647,861	53,947,557³	2,153	2.28	4,911
85	Number of female employees (monthly average) ..	450	—	—	—	—	—
86	Salaries and wages charged to operating expenses	—	—	51,613,665	—	—	—

¹ Excludes 188 employees, 390,380 hours, and \$1,660,761 of the B.C. Electric Railway Co. Ltd. for which only an arbitrary breakdown is available.

² Average of counts made each month.

³ Includes \$466,250 paid to employees domiciled outside Canada and charged to Canadian System. An additional \$5,920,493 expended for the same purpose by U.S. lines operating in Canada is not included because the proper distribution is not available.

TABLE 4. Employees and their Compensation, 1959 - Class I and II Railways

No.	Division	Number of employees (monthly average) ¹	Time on duty (hours)	Total compensation	Average hours worked	Average salaries and wages	
						Per hour	Per year
				\$	dollars		
General							
1	Executives, officers and assistants	2,515	5,153,518	23,483,673	2,049	4.56	9,337
2	Professional and sub-professional assistants.....	1,763	3,637,136	9,985,609	2,063	2.75	5,664
3	Chief, assistant chief and supervisory clerks.....	1,804	3,664,082	9,519,988	2,031	2.60	5,277
4	Clerks, stenographers and office machine operators.....	19,693	39,260,669	73,662,907	1,994	1.88	3,741
5	Telephone switchboard operators, office boys and sorters	905	1,717,157	2,261,922	1,897	1.32	2,499
6	Janitors and other building attendants	1,255	2,385,163	3,631,929	1,901	1.52	2,894
7	Service vehicle operators	227	501,030	949,367	2,207	1.89	4,182
8	Miscellaneous trades workers	87	169,503	338,091	1,948	1.99	3,886
9	Police inspectors, sergeants, special agents and investigators.....	241	520,865	1,296,284	2,161	2.49	5,379
10	Constables and policemen	946	1,855,438	3,871,661	1,961	2.09	4,093
11	Stores general foremen, foremen and assistants..	277	544,705	1,257,389	1,966	2.31	4,539
12	Storemen and stores labourers (non-clerical).....	2,067	3,858,668	6,913,104	1,867	1.79	3,345
	Totals	31,780	63,267,934	137,171,924	1,991	2.17	4,316
Way and Structures							
13	B. & B. masters, roadmasters and assistants	806	1,669,420	5,138,140	2,071	3.08	6,375
14	Maintenance of way and scale inspectors	58	121,475	289,454	2,094	2.38	4,991
15	B. & B. department foremen	593	1,197,280	2,772,356	2,019	2.32	4,675
16	B. & B. carpenters and bridgemen.....	2,673	5,219,252	10,066,813	1,953	1.93	3,766
17	Blacksmiths, pipefitters and tinsmiths.....	272	541,552	1,209,325	1,991	2.23	4,446
18	Masons, painters and other journeymen	859	1,684,763	3,467,024	1,961	2.06	4,036
19	Helpers, B. & B. department	273	539,092	982,640	1,975	1.82	3,599
20	Labourers, bridge, building and signal.....	886	1,757,289	2,744,458	1,983	1.56	3,098
21	Work equipment operators and helpers	1,325	3,394,608	7,074,741	2,562	2.08	5,339
22	Pumpmen	26	57,411	110,436	2,208	1.92	4,248
23	Extra gang and snow plow foremen	433	1,250,810	2,878,962	2,889	2.30	6,649
24	Section foremen	5,060	10,406,446	20,059,290	2,057	1.93	3,964
25	Labourers, extra gang	6,264	15,616,543	18,657,008	2,493	1.19	2,978
26	Sectionmen.....	15,831	30,424,476	49,582,832	1,922	1.63	3,132
27	General and assistant general foremen and inspectors (signal and electrical transmission) ..	65	140,137	433,111	2,156	3.09	6,663
28	Foremen, signal and electrical transmission.....	101	211,791	589,227	2,097	2.78	5,834
29	Signal and interlocker maintainers and helpers....	1,252	2,650,029	5,318,194	2,117	2.01	4,248
30	Linemen and groundmen, electrical transmission	45	96,668	210,755	2,148	2.18	4,683
	Totals	36,822	76,979,042	131,584,766	2,091	1.71	3,574
Equipment							
31	General foremen, foremen and assistant foremen..	2,839	5,908,452	16,595,088	2,081	2.81	5,845
32	Blacksmiths	380	714,590	1,605,176	1,881	2.25	4,224
33	Boilermakers	686	1,311,426	2,997,616	1,912	2.29	4,370
34	Carmen, coach and locomotive.....	2,470	4,775,733	10,793,524	1,933	2.26	4,370
35	Carmen, freight.....	7,715	15,003,911	32,489,169	1,945	2.17	4,211
36	Electrical workers	2,006	3,942,546	8,921,840	1,965	2.26	4,448
37	Machinists.....	3,891	7,437,029	17,000,702	1,911	2.29	4,369
38	Moulders	51	94,354	222,730	1,850	2.36	4,367
39	Pipefitters and sheet metal workers	1,399	2,675,163	6,034,357	1,912	2.26	4,313
40	Helpers to mechanics	5,785	11,237,156	21,312,497	1,942	1.90	3,684
41	Apprentices	1,396	2,650,871	4,371,522	1,899	1.65	3,131
42	Coach cleaners.....	1,834	3,537,085	5,901,022	1,929	1.67	3,218
43	Classified labourers (shops, enginehouses and power plants)	3,191	6,069,471	10,296,289	1,902	1.70	3,227
44	Unclassified labourers (shops, enginehouses and power plants)	2,444	4,529,193	7,402,409	1,853	1.63	3,029
45	Stationary engineers, firemen and oilers	683	1,438,720	2,758,606	2,106	1.92	4,039
	Totals	36,770	71,325,700	148,702,547	1,940	2.08	4,044

See footnote at end of table.

TABLE 4. Employees and their Compensation, 1959 - Class I and II Railways - Concluded

No.	Division	Number of employees (monthly average) ¹	Time on duty (hours)	Total compensation	Average hours worked	Average salaries and wages	
						Per hour	Per year
				\$		dollars	
Transportation							
46	Chief train dispatchers	133	302,273	1,202,690	2,273	3.98	9,043
47	Train dispatchers	613	1,212,815	3,898,365	1,978	3.21	6,359
48	Supervisory agents and assistants	673	1,396,093	3,361,589	2,074	2.41	4,995
49	Agents and caretaker agents at small stations (non-telegraphers)	271	546,312	905,933	2,016	1.66	3,343
50	Station agents, telegraphers and telephoners	6,098	12,426,213	26,090,625	2,038	2.10	4,279
51	Levermen (non-telegraphers) at interlockers	144	298,506	587,753	2,073	1.97	4,082
52	Baggage, parcel room and station attendants	983	1,965,464	3,209,962	1,999	1.63	3,265
53	General foremen and foremen in freight sheds	558	1,146,603	2,441,492	2,055	2.13	4,375
54	Freight handlers and freight shed operators	4,649	8,415,496	15,445,596	1,810	1.84	3,322
55	Labourers	1,126	2,186,703	3,562,043	1,942	1.83	3,163
56	Dining car and restaurant inspectors	150	308,639	797,206	2,058	2.58	5,315
57	Dining car stewards, chefs, cooks and waiters	1,407	3,212,685	4,957,027	2,283	1.54	3,523
58	Restaurant managers, chefs, cooks and waiters	644	1,587,958	2,083,041	2,435	1.33	3,235
59	News agents	144	331,151	526,566	2,300	1.59	3,857
60	Sleeping and parlour car conductors	227	575,648	1,050,724	2,536	1.83	4,629
61	Porters and other train attendants	1,311	3,055,868	4,526,936	2,331	1.48	3,453
62	Bridge operators	130	264,190	514,548	2,032	1.95	3,958
83	Crossing watchmen and gatemen	457	941,969	1,505,566	2,061	1.60	3,294
64	Floating equipment employees	462	892,355	1,884,366	1,932	2.11	4,079
	Sub-totals	20,180	41,046,939	78,552,028	2,034	1.91	3,893
65	Yardmasters and assistants	820	2,033,633	5,711,174	2,480	2.81	6,965
66	Switch tenders	390	820,964	1,633,888	2,105	1.99	4,189
67	Hostlers	410	1,048,038	2,204,999	2,556	2.10	5,378
	Sub-totals	1,620	3,902,635	9,550,061	2,409	2.45	5,895
68	Road passenger conductors	729	1,407,682	4,919,517	1,931	3.49	6,748
69	Road freight conductors	2,374	5,213,838	15,756,472	2,196	3.02	8,637
70	Road passenger brakemen and baggagemen	1,658	3,020,970	8,652,876	1,822	2.86	5,219
71	Road freight brakemen	5,542	10,272,998	27,000,345	1,854	2.63	4,872
72	Yard foremen	2,159	4,724,873	11,985,119	2,188	2.54	5,551
73	Yard helpers	4,989	9,674,883	22,376,965	1,939	2.31	4,485
74	Road passenger engineers and motormen	930	1,567,950	7,736,095	1,686	4.93	8,318
75	Road freight engineers and motormen	2,715	5,534,014	19,355,832	2,038	3.50	7,129
76	Yard engineers and motormen	1,869	4,886,970	12,546,873	2,615	2.57	6,713
77	Road passenger firemen and helpers	776	1,246,353	5,015,057	1,606	4.02	6,463
78	Road freight firemen and helpers	2,800	5,357,656	15,270,959	1,913	2.85	5,454
79	Yard firemen and helpers	1,842	4,535,885	9,597,295	2,462	2.12	5,210
	Sub-totals	28,383	57,444,072	160,213,405	2,024	2.79	5,645
	Totals	50,183	102,393,646	248,315,494	2,040	2.43	4,948
	Totals divisions 1 to 79	155,555	313,966,322	665,774,731	2,018	2.12	4,280
Other Operations							
80	Communications	10,148	20,897,613	38,176,123	2,059	1.83	3,762
81	Express	10,801	21,461,313	40,577,015	1,987	1.89	3,757
82	Cartage	479	879,034	1,583,578	1,835	1.80	3,306
83	Highway transport (rail)	890	1,818,431	3,342,767	2,043	1.84	3,756
84	Outside operations	9,316	19,185,888	27,578,801	2,059	1.44	2,960
	Totals	31,634	64,242,279	111,258,284	2,031	1.73	3,517
	Grand totals	187,189	378,208,601	777,033,015²	2,020	2.05	4,151
85	Number of female employees (monthly average) ..	10,657	—	—	—	—	—
86	Salaries and wages charged to operating expenses	—	—	687,066,313	—	—	—

¹ Average of counts made each month.² Includes \$8,991,971 paid to employees domiciled outside Canada and charged to Canadian System. An additional \$5,920,493 expended for the same purpose by U.S. lines operating in Canada is not included because the proper distribution is not available.

TABLE 5. Employees and their Compensation, 1959 - Class III and IV Railways

No.	Division	Number of employees (monthly average) ¹	Time on duty (hours)	Total compensation	Average hours worked	Average salaries and wages	
						Per hour	Per year
	Summary			\$		dollars	
1-12	General	150	287,234	541,325	1,915	1.88	3,609
13-30	Way and structures	161	340,119	579,062	2,113	1.70	3,597
31-45	Equipment	135	263,098	525,535	1,949	2.00	3,893
46-79	Transportation	341	720,267	1,340,261	2,112	1.86	3,930
	Totals divisions 1 to 79	787	1,610,718	2,986,183	2,047	1.85	3,794
80	Communications	-	-	-	-	-	-
81	Express	5	12,480	12,336	2,496	0.99	2,467
82	Cartage	-	-	-	-	-	-
83	Highway transport (rail)	-	-	-	-	-	-
84	Outside operations	-	-	-	-	-	-
	Totals divisions 80 to 84	5	12,480	12,336	2,496	0.99	2,467
	Grand totals	792	1,623,198	2,998,519	2,049	1.85	3,786
85	Number of female employees (monthly average)	29	-	-	-	-	-
86	Salaries and wages charged to operating expenses	-	-	2,156,223	-	-	-
87	Pullman and International Bridge Company ²	98	222,537	521,402	2,271	2.34	5,320

¹ Average of counts made each month.² Included with "Class III and IV Railways".

TABLE 6. Employees and their Compensation, 1959 - All Railways

No.	Division	Number of employees (monthly average) ¹	Time on duty (hours)	Total compensation	Average hours worked	Average salaries and wages	
						Per hour	Per year
	Summary			\$		dollars	
1-12	General	31,930	63,555,168	137,713,249	1,990	2.17	4,313
13-30	Way and structures	36,983	77,319,161	132,163,828	2,091	1.71	3,574
31-45	Equipment	36,905	71,588,798	149,228,082	1,940	2.08	4,044
46-79	Transportation	50,524	103,113,913	249,655,755	2,041	2.42	4,941
	Totals divisions 1 to 79	156,342	315,577,040	668,760,914	2,019	2.12	4,278
80	Communications	10,148	20,897,613	38,176,123	2,059	1.83	3,762
81	Express	10,806	21,473,793	40,589,351	1,987	1.89	3,756
82	Cartage	479	879,034	1,583,578	1,835	1.80	3,308
83	Highway transport (rail)	890	1,818,431	3,342,767	2,043	1.84	3,756
84	Outside operations	9,316	19,185,888	27,578,801	2,059	1.44	2,960
	Totals divisions 80 to 84	31,639	64,254,759	111,270,620	2,031	1.73	3,517
	Grand totals	187,981	379,831,799	780,031,534²	2,021	2.05	4,150
85	Number of female employees (monthly average)	10,686	-	-	-	-	-
86	Salaries and wages charged to operating expenses	-	-	689,222,536	-	-	-

¹ Average of counts made each month.² Includes \$9,025,102 paid to employees domiciled outside Canada and charged to Canadian System. An additional \$5,961,539 expended for the same purpose by U.S. lines operating in Canada is not included because the proper distribution is not available.

TABLE 2. Results of the analysis of variance for the effect of treatment on the growth of the fish.

Source of variation	D.F.	Mean square	F-value	P-value	Significance	Treatment
Treatment	4	12.5	10.5	0.001	***	1, 2, 3, 4, 5
Replication	4	0.5	0.4	0.75	n.s.	1, 2, 3, 4, 5
Block	4	1.2	1.0	0.45	n.s.	1, 2, 3, 4, 5
Error	16	0.3				
Total	28					

TABLE 3. Results of the analysis of variance for the effect of treatment on the survival of the fish.

Source of variation	D.F.	Mean square	F-value	P-value	Significance	Treatment
Treatment	4	1.8	1.5	0.20	n.s.	1, 2, 3, 4, 5
Replication	4	0.2	0.15	0.95	n.s.	1, 2, 3, 4, 5
Block	4	0.5	0.4	0.75	n.s.	1, 2, 3, 4, 5
Error	16	0.1				
Total	28					

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