Catalogue no. 50-002-X Vol. 25, no. 4

Service Bulletin - Surface and Marine Transport Results of the Annual Motor Carriers of Freight Survey of Small For-hire Carriers and Owner Operators



2005

Highlights

Small for-hire carriers:

- In 2005, there were 7,067 small for-hire carriers with less than \$1 million in revenue. These represented 63% of carriers in the for-hire carriers segment.
- Small for-hire carriers generated total operating revenues of \$2.1 billion, for a \$300,800 per carrier average. Overall, small for-hire carriers generated 7% of total revenue for the sector.
- Small for-hire carriers operating expenses totalled \$2.0 billion or about \$286,000 per carrier. Their main operating
 expenditures were salaries, wages and benefits representing 24% of total expenses, fuel cost (20%) and other
 expenses (20%).
- Compared to the previous year, total operating revenues improved 6%, while total operating expenses increased 7%.
- Intra-provincial movements were responsible for 69% of the total operating revenue (\$1.46 billion). These movements were followed by international movements which represented 22% of total revenues (\$477 million). Interprovincial movements were responsible for 9% of total revenues (\$186 million).
- A little more than half (59%) of these carriers were specialized in long-distance transportation. This activity generated 54% of all operating revenues for small for-hire carriers.
- Geographically, Ontario was home to the largest number of small for-hire carriers with 39% of the Canadian carriers, followed by Quebec with 23% and Alberta with 12%.
- Small for-hire carriers reported an average of four employees of which 77% where full-time employees. In addition, they operated an average one straight truck, two road tractors and two semi-trailers.

Owner operators:

- In 2005, there were 37,591 trucking firms who self-identified as owner operators. Off these carriers, 99% reported revenues less than \$1 million.
- Overall, owner operators generated \$7.77 billion in operating revenues, about \$207,000 per carrier.
- Compared to the previous year, total operating revenues improved 4%, while total operating expenses increased 5%.





- Operating expenses for these carriers totalled \$7.1 billion, or \$189,000 per carrier. The main operating expenses incurred by owner operators were fuel expenses (25%) and salaries, wages and benefits (23%) and other expenses (20%).
- Almost three out of four owner operators offered their services exclusively to for-hire carriers, while 23% of them
 worked exclusively for private carriers.
- Intra-provincial movements accounted for 67% of the total operating revenues generated by owner operators (\$5.19 billion). These were followed by international movements with 23% (\$1.75 billion) of revenues and interprovincial movements were the source of 11% (\$833 millions) of overall revenues.
- The majority of owner operators (52%) specialized in long distance transportation. This type of transportation service generated 54% of operating revenues.
- Ontario was home to the largest number of owner operators with 35% of all Canadian carriers, followed by Quebec (21%) and Alberta (16%).
- The average owner operators firm has two employees and operated one road tractor.

Analysis

Annual Motor Carriers of Freight Survey of Small For-hire Carriers and Owner Operators: Financial and Operating Statistics, 2005

Introduction

The Annual Motor Carriers of Freight Survey (AMCFS) provides information on the structure and performance of two distinct groups of carriers located in Canada: small for-hire carriers and owner operators.

Small for-hire carriers are carriers with annual operating revenues between \$30,000 and \$1 million. Combined with AMCFS data on medium and large carriers with revenues of \$1 million or more, this information helps to provide a more complete picture of the for-hire trucking industry.

Owner operators are independent operators who provide transport services under contract to for-hire carriers, private carriers, or both. While most owner operators are small businesses, the data in this publication cover all those that generated revenues of \$30,000 or more in 2005. Thus, the estimates will likely include some owner operators who generated revenues of \$1 million or more in 2005.

The financial estimates for the survey (revenue and expense data) are based on administrative files from the Tax Estimates Program. The other types of data (on activities, territory served, employment, equipment, fuel and distance) are collected through computer-assisted telephone interviews.

The publication is in three parts: section 1 contains results for small for-hire carriers, section

Data limitations

Users are advised that financial data used in this article were taken from administrative records (tax files), which were not collected for statistical purposes. The financial data are compiled by Statistics Canada from a sample of Canada Revenue Agency T1 records of unincorporated firms' tax files and T2 records of incorporated firms' tax files.

Furthermore, operating ratios are not presented because they could be misinterpreted. Unincorporated businesses do not report labour costs in the same manner as incorporated ones on their tax returns. This is because working owners obtain their remuneration from profits, and they do not appear as expenses in the same way as salaries and wages do for incorporated companies. Also, fuel costs may have been reported under more than one expense category or may not be obtainable from the source of tax data. The result is an underestimation of total expenses, which would distort any calculated operating ratio.

^{1.} A **private carrier** is one for which trucking is not the main activity, but which owns or leases vehicles for the primary purpose of hauling its own goods. Private trucking is not part of the for-hire trucking industry. Note that, following persistent problems with data quality, the private carrier trucking survey was discontinued after reference year 1998. Since that date, therefore, it has no longer been possible to obtain data on this segment of the trucking industry.

Statistical Tables

Table 1 Summary statistics by size, for-hire carriers, 2005

	Small carriers	Medium and large carriers	Top carriers	Total
_	\$30,000 ⁴ to \$999,999	\$1 million ⁵ to \$24,9 million	\$25 million and over	
Estimated number of carriers (No.)	7,067	4,079	91	11,237
		millions of dollars		
Operating revenues	2,126	20,280	8,384	30,790
Operating expenses	2,020	18,719	7,765	28,504
Salaries and wages 1	487	5,202	1,911	7,600
Fuel	413	2,461	646	3,520
Owner operator expenses	92	3,650	2,098	5,840
Purchased transport ²	231	1,798	1,317	3,346
Maintenance	193	1,500	389	2,083
Depreciation	190	1,106	318	1,614
Other expenses 3	413	3,002	1,086	4,501
Operating ratio (%)		0.92	0.93	
Number of employees (No.)	24,769	123,929	40,082	188,780
Equipment operated (No.)				
Straight trucks	3,697	13,150	1,549	18,396
Road tractors	12,470	64,466	16,403	93,339

Includes employee benefits.

Note(s): Totals may not add due to rounding. Data for top, medium and large carriers are collected from the Quarterly motor carriers of freight survey while the small carriers data are from the Annual survey of small for-hire carriers and owner operators.

Includes driver services, vehicle lease or rent, total purchased transportation and load broker services.

Includes terminal expenses and other operating expenses (insurance, administration, etc.).

See methodology in Section 3.

Table 2 Summary statistics by type of activity, small for-hire carriers, 2005

	Total	General freight	Household	Bulk liquids	Dry bulk	Forest products	Other commodities
		- 3 -		1	materials		
Estimated number of carriers (No.)	7,068	3,066	155	491	1,419	582	1,355
			tho	ousands of dolla	ars		
Operating revenues	2,126,366	721,948	51,352	180,178	364,109	194,707	614,072
Operating expenses	2,020,071	677,832	50,308	171,446	347,893	190,309	582,283
Salaries and wages	481,971	161,380	13,535	54,564	77,153	50,257	125,082
Benefits	5,448	2,145	162	334	698	670	1,439
Fuel	412,991	136,231	7,352	32,450	70,511	39,167	127,280
Owner operator expenses	91,833	49,960	125	155	12,392	404	28,797
Purchased transport	231,212	64,316	7,378	25,926	43,498	17,585	72,509
Maintenance	193,269	66,194	2,990	11,339	39,705	33,697	39,344
Depreciation	190,409	63,211	3,866	18,131	40,708	20,880	43,613
Insurance	72,180	19,922	1,434	5,525	11,821	9,253	24,225
Rent	72,972	24,663	2,672	5,183	9,110	4,020	27,324
Other expenses	267,786	89,809	10,794	17,840	42,297	14,375	92,671
Full time employees (No).	19,192	8,060	1,177	1,432	3,431	1,190	3,902
Equipment operated (No.)	31,416	12,665	1,220	2,258	5,749	2,492	7,032
Straight trucks (No.)	3,698	819	333	452	1,488	76	530
Distance travelled ('000 km)	189,084	52,463	15,955	21,363	68,549	5,068	25,686
Average distance ('000 km)	51	64	48	47	46	67	48
Road tractors (No.)	12,470	5,889	334	729	1,658	1,016	2,844
Distance travelled ('000 km)	1,319,485	548,451	22,042	82,065	177,599	122,035	367,293
Average distance ('000 km)	106	93	66	113	107	120	129
Semi-trailers (No.)	13,180	5,103	538	1,004	2,076	1,216	3,243
Other (No.)	2,070	856	15	73	527	184	415
Total distance ('000 km)	1,508,570	600,914	37,998	103,427	246,148	127,103	392,980
Fuel consumed ('000 L)	629,740	228,240	15,672	45,000	113,018	58,900	168,910

Table 3
Summary statistics by type of activity, local transport¹, small for-hire carriers, 2005

Local carriers	Total	General freight	Bulk liquids	Dry bulk materials	Forest products	Other commodities
Estimated number of carriers (No.)	2,749	716	305	958	301	469
			thousan	ds of dollars		
Operating revenues	934,610	299,562	105,205	243,703	103,822	182,318
Operating expenses	896,399	291,614	102,385	232,522	101,658	168,220
Salaries and wages	234,949	77,878	38,073	54,655	27,087	37,256
Benefits	3,694	1,796	125	447	425	901
Fuel	160,690	56,402	16,061	47,174	18,729	22,324
Owner operator expenses	42,991	27,505	155	9,329	404	5,598
Purchased transport	133,268	38,827	14,161	24,059	11,347	44,874
Maintenance	80,765	19,557	5,067	27,242	17,364	11,535
Depreciation	89,124	18,822	11,735	30,112	10,670	17,785
Insurance	30,606	10,848	2,167	7,848	4,548	5,195
Rent	28,102	9,512	4,340	6,750	2,901	4,599
Other expenses	92,207	30,468	10,501	24,905	8,183	18,150
Full time employees (No.)	7,727	2,643	893	2,209	616	1,366
Equipment operated (No.)	12,430	4,068	1,479	3,545	1,064	2,274
Straight trucks (No.)	2,781	739	398	1,181	63	400
Distance travelled ('000 km)	147,087	46,955	19,230	60,454	3,335	17,113
Average distance ('000 km)	53	64	48	51	53	43
Road tractors (No.)	3,786	1,290	354	906	444	792
Distance travelled ('000 km)	366,467	112,893	32,176	73,722	54,297	93,379
Average distance ('000 km)	97	88	[^] 91	[^] 81	122	118
Semi-trailers (No.)	5,108	1,861	705	1,031	491	1,020
Other (No.)	757	177	23	428	67	62
Total distance ('000 km)	513,556	159,848	51,406	134,177	57,632	110,493
Fuel consumed ('000 L)	232,038	64,433	22,208	61,043	28,508	55,846

^{1.} Excludes household goods movers.

Table 4
Summary statistics by type of activity, long-distance transport¹, small for-hire carriers, 2005

Long distance carriers	Total	General freight	Bulk liquids	Dry bulk materials	Forest products	Other commodities
Estimated number of carriers (No.)	4,163	2,349	186	461	281	886
_			thousands	of dollars		
Operating revenues	1,140,402	422,385	74,973	120,406	90,885	431,753
Operating expenses	1,073,364	386,217	69,061	115,371	88,652	414,063
Salaries and wages	233,487	83,502	16,491	22,497	23,171	87,826
Benefits	1,594	349	210	251	246	538
Fuel	244,948	79,829	16,388	23,337	20,438	104,956
Owner operator expenses	48,716	22,455	0	3,063	0	23,198
Purchased transport	90,567	25,489	11,765	19,439	6,239	27,635
Maintenance	109,515	46,637	6,272	12,464	16,333	27,809
Depreciation	97,416	44,388	6,395	10,596	10,210	25,827
Insurance	40,140	9,074	3,358	3,973	4,705	19,030
Rent	42,198	15,152	843	2,360	1,119	22,724
Other expenses	164,786	59,342	7,339	17,392	6,192	74,521
Full time employees (No.)	10,287	5,417	539	1,222	573	2,536
Equipment operated (No.)	17,767	8,598	779	2,204	1,428	4,758
Straight trucks	584	79	55	307	13	130
Distance travelled ('000 km)	26,042	5,508	2,133	8,095	1,733	8,573
Average distance ('000 km)	45	70	39	26	133	66
Road tractors (No.)	8,351	4,598	376	753	572	2,052
Distance travelled ('000 km)	930,974	435,558	49,888	103,877	67,737	273,914
Average distance ('000 km)	111	95	133	138	118	133
Semi-trailers (No.)	7,534	3,242	299	1,045	725	2,223
Other (No.)	1,297	678	50	99	117	353
Total distance ('000 km)	957,017	441,066	52,021	111,972	69,471	282,487
Fuel consumed ('000 L)	382,031	163,807	22,792	51,975	30,392	113,065

^{1.} Excludes household goods movers.

Table 5 Summary statistics by type of movement, small for-hire carriers, 2005

	Intraprovincial		Extr	raprovincial carriers			
	carriers	Total	Intraprovincial	Interprovincial	Ir	nternationa	
					Sub total	¹ Into Canada	Out of Canada
Estimated number of carriers (No.)	3,843	3,224					
			thousands of	dollars			
Operating revenues	1,030,092	1,096,273	432,644	186,212	477,417	283,313	194,104
Operating expenses Transportation expenses Maintenance and garage expenses Administrative and general office expenses	972,480 720,325 112,536 139,619	1,047,591 761,061 80,733 205,797	416,901 318,179 31,185 67,536	179,764 135,463 16,390 27,911	450,926 307,419 33,158 110,350	267,525 182,462 17,677 67,387	183,401 124,957 15,481 42,963
Full time employees (No.)	8,638	10,555					
Salaries and wages (\$'000)	239,731	242,239					
			numbe	r			
Equipment operated Straight trucks Road tractors Semi-trailers Other	15,127 2,983 5,373 5,267 1,505	16,290 714 7,098 7,913 564	 	 			

Table 6
Summary statistics by province or territory of domicile, small for-hire carriers, 2005

	Canada	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
Estimated number of carriers (No.)	7,067	49	х	129	126	1,592	2,728
_			thous	sands of dollars			
Operating revenues	2,126,365	13,919	х	46,121	34,559	522,504	643,464
Operating expenses	2,020,071	13,083	x	44,582	35,608	485,117	627,542
Salaries and wages	481,970	3,593	Х	9,734	8,883	123,720	122,405
Benefits Fuel	5,449	X	X	125 12.471	135	2,560 87.989	652 130.637
Owner operator expenses	412,991 91.833	4,181	X	12,471	8,166 131	87,989 30.056	29.782
Purchased transport	231,213	x 450	X X	4.844	3.059	31,680	102.950
Maintenance	193.269	1.285	X	4,712	4.845	65.147	61.721
Depreciation	190,408	1,263	x	3.753	5.789	45.408	61.297
Insurance	72.180	587	x	1.884	1,279	15.154	17.756
Rent	72,972	439	X	570	490	14.828	20.022
Other expenses	267,786	X	x	4,719	2,832	68,575	80,322
Full time employees (No.)	19,193	121	x	368	615	5,572	5,851
	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon	Northwest Territories	Nunavut
-				Columbia		Territories	
Estimated number of carriers (No.)	119	301	856	1,142	x	x	0
_			thou	dands of dollars			
Operating revenues	52,339	75,173	317,219	413,914	x	x	0
Operating expenses	49,375	74,781	301,894	381,106	x	x	0
Salaries and wages	11,914	19,486	80,906	99,302	Х	Х	0
Benefits	164	198	976	635	Х	Х	0
Fuel	16,132	16,852	52,750	82,179	Х	Х	0
Owner operator expenses	828	2,869	13,489	12,657	X	X	0
Purchased transport	2,329 4.685	10,204 6,992	40,433 21,601	35,112	X	X	0
Maintenance Depreciation	4,685	6,992 6.064	21,601 35.376	21,737 26.971	X X	X X	0
Insurance	2.015	3,513	12.429	17.185	X	X	0
Rent	2,013	2.094	8.160	24,194	X	X	0
Other expenses	5,160	6,510	35,773	61,133	X	X	0
Full time employees (No.)	393	532	3,113	2,595	х	x	0

Table 7
Number of employees by owned and leased vehicle and by province or territory of domicile, small for-hire carriers, 2005

	Canada	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
				number			
Estimated number of carriers	7,067	x	х	129	126	1,592	2,728
Employees Drivers							
Full time Part time	14,662 2,987	x x	X X	316 69	462 87	3,780 910	4,727 641
	2,907	^	^	09	07	910	041
Other employees Full time Part time	4,531 2,588	x x	x x	52 27	152 26	1,792 907	1,123 659
Total - drivers and other employees Full time Part time	19,193 5,576	x x	x x	368 96	615 112	5,572 1,817	5,851 1,300
	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon	Northwest Territories	Nunavut
				number			
Estimated number of carriers	119	301	856	1,142	Х	Х	0
Employees Drivers							
Full time Part time	301 26	464 86	2,378 641	2,099 498	X X	X X	0
Other employees							
Full time Part time	92 64	68 261	735 274	496 331	X X	X X	0 0
Total - drivers and other employees Full time	393	532	3,113	2,595	x	x	0
Part time	90	346	915	829	x	x	0

Table 8
Equipment operated by province or territory of domicile, small for-hire carriers, 2005

		Own	ed and leased		
	Straight trucks	Road tractors	Semi- trailers	Other equipment	Total
			number		
Newfoundland and Labrador Prince Edward Island Nova Scotia New Brunswick Québec Ontario Manitoba Saskatchewan	x 5 67 14 1,199 966 47 51	x 26 273 476 2,607 4,415 268 478	x 35 334 883 3,236 3,438 422 523	x 0 13 27 344 773 22 17	x 66 687 1,400 7,387 9,592 760 1,069
Alberta British Columbia Yukon Northwest Territories Nunavut	826 510 x x 0	2,012 1,778 x x 0	2,367 1,798 x x 0	392 478 x x 0	5,598 4,564 x x 0
Canada Owned and leased Operated by owner operator	3,697 498	12,470 4,065	13,180 2,024	2,069 25	31,416 6,611

Table 9
Estimated annual distance travelled by owned and leased vehicle and by province or territory of domicile, small for-hire carriers, 2005

	Total	Straight trucks	Road tractors
	thou	sands kilometres	
Newfoundland and Labrador	12,797	X	X
Prince Edward Island	3,280	91	3,189
Nova Scotia	35,285	3,026	32,259
New Brunswick	60,279	780	59,499
Quebec	323,783	47,749	276,034
Ontario	460,759	59,791	400,968
lanitoba	39,628	2,465	37,163
askatchewan	57,327	2,561	54,766
Alberta	241,687	38,583	203,104
British Columbia	272,213	33,422	238,791
′ukon	1,332	X	x
Northwest Territories	200	X	х
Nunavut	0	0	0
anada	1,508,570	189,085	1,319,485

Table 10 Summary statistics, owner operators, 2001 to 2005

	2005	2004	2003	2002	2001
Estimated number of owner operators (No.)	37,591	35,609	36,281	35,085	35,931
_		thou	sands of dollars		
Operating revenues	7,769,747	7,443,278	7,397,099	7,023,352	6,598,667
Operating expenses	7,122,068	6,771,732	6,761,844	6,566,395	5,935,630
Salaries and wages	1,568,729	1,465,703	1,539,416	1,511,473	1,339,347
Benefits	35,379	27,790	25,105	32,455	22,420
Fuel	1,750,750	1,719,729	1,460,718	1,595,854	1,539,092
Owner operator expenses	0	, , ,	, , , ,	0	0
Purchased transport	848,650	721,180	845,089	744,175	571,852
Maintenance	768.567	774.732	740.397	618,103	601,029
Depreciation	737.157	676.058	716.735	789.964	769,132
Insurance	291.962	296.424	252.684	248,801	217,338
Rent	236.837	240.164	223,703	246.777	172,929
Other expenses	884,038	849,953	957,998	778,792	702,491
Full time employees ¹(No.)	60,765	58,604	62,518	62,400	60,799
Equipment operated (No.)	86,949	84,125	87,925	90,048	83,744

^{1.} Working owner included.

Table 11
Distribution of owner operators by carrier types and by region of domicile, owner operators, 2005

	Owner operator working for			
	For-hire carriers	Private carriers	Both	
		number		
Atlantic	x	Х	Х	2,290
Quebec	6,018	1,799	254	8,071
Ontario	8,670	3,921	626	13,217
Prairies	6,701	1,642	832	9,175
British Columbia	3,419	731	642	4,792
Territories	x	Х	X	45
Canada	26,497	8,574	2,519	37,590

Table 12 Summary statistics by size, owner operators, 2005

	Total	Small enterprises	Medium and large enterprises
		(\$30,000 to \$999,999)	(\$1 million and over)
Estimated number of owner operators (No.)	37,591	37,092	499
	tr	nousands of dollars	
Operating revenues	7,769,747	6,911,682	858,065
Operating expenses Salaries and wages 1 Fuel Purchased transport 2 Maintenance Depreciation Other expenses 3	7,122,068 1,604,108 1,750,750 848,650 768,567 737,157 1,412,837	6,307,037 1,403,076 1,638,853 596,983 710,257 659,810 1,298,056	815,032 201,032 111,897 251,666 58,309 77,348 114,779
Number of employees 4(No.)	78,033	73,540	4,492
Equipment operated (No.) Straight trucks Road tractors	16,218 37,542	15,338 35,216	880 2,326

^{1.} Includes employee benefits.

Includes driver services, vehicule lease or rent, total purchased transportation and load broker services.
 Includes terminal and insurance expenses.
 Working owners, full and part time employees are included.

Table 13 Summary statistics by type of activity, local transport¹, owner operators, 2005

Local carriers	Total	General freight	Bulk liquids	Dry bulk materials	Forest products	Other commodities
Estimated number reporting (No.)	17,079	5,167	1,299	6,317	1,649	2,647
			thousand	s of dollars		
Operating revenues	3,443,230	785,397	423,564	1,213,649	500,356	520,264
Operating expenses	3,190,794	739,171	388,244	1,140,982	468,616	453,781
Salaries and wages	802,492	197,670	112,371	269,435	125,397	97,619
Benefits	22,295	3,429	2,884	11,243	2,803	1,936
Fuel	681,870	168,418	53,615	249,639	104,690	105,508
Owner operator expenses	0	0	0	0	0	0
Purchased transport	387,205	90,027	64,961	136,550	43,352	52,315
Maintenance	335,030	61,081	44,723	115,435	67,787	46,004
Depreciation	369,830	78,620	48,161	130,946	52,172	59,931
Insurance	133,696	27,639	13,394	47,384	20,215	25,064
Rent	117,108	28,138	9,675	55,100	11,662	12,533
Other expenses	341,263	84,146	38,459	125,249	40,537	52,872
Full time employees ² (No.)	29,898	7,988	2,777	12,314	2,938	3,881
Equipment operated (No.)	41,690	9,256	4,049	15,395	5,497	7,493
Straight trucks (No.)	14,062	3,665	1,027	7,522	224	1,624
Distance travelled ('000 km)	710,300	197,777	56,587	399,096	8,976	47,864
Average distance ('000 km)	51	54	55	53	40	29
Road tractors (No.)	13,362	3,461	1,288	3,922	2,373	2,318
Distance travelled ('000 km)	1,130,111	306,202	123,264	290,969	218,439	191,237
Average distance ('000 km)	85	88	96	74	92	83
Semi-trailers (No.)	11,061	2,037	1560	2698	2,325	2,441
Other (No.)	3,205	93	175	1254	575	1,108
Total distance ('000 km)	1,840,411	503,979	179,851	690,065	227,415	239,101
Fuel consumed ('000 L)	945,947	220,268	86,375	387,926	124,786	126,592

^{1.} Excludes household goods movers.

Working owner included.

Note(s): Some totals may not add due to rounding.

Table 14 Summary statistics by type of activity, long-distance transport¹, owner operators, 2005

Long distance carriers	Total	General freight	Bulk liquids	Dry bulk materials	Forest products	Other commodities
Estimated number of owner operators (No.)	19,700	8,879	1,159	2,847	1,814	5,001
_			thousands	of dollars		
Operating revenues	4,157,086	1,611,604	328,619	572,187	542,839	1,101,837
Operating expenses	3,775,721	1,482,110	298,252	508,870	502,908	983,581
Salaries and wages	718,596	290,322	82,982	98,019	95,059	152,214
Benefits	12,324	5,373	1,695	1,601	1,174	2,481
Fuel	1,040,196	362,594	65,109	135,501	166,780	310,212
Owner operator expenses	0	0	0	0	0	0
Purchased transport	442,317	252,234	20,656	52,149	42,714	74,564
Maintenance	424,667	150,082	38,714	59,461	72,029	104,381
Depreciation	356,402	128,071	32,838	50,415	51,246	93,832
Insurance	150,886	58,416	13,254	19,086	22,447	37,683
Rent	111,844	50,554	12,370	18,258	8,548	22,114
Other expenses	518,485	184,465	30,632	74,379	42,910	186,099
Full time employees ² (No.)	29,211	13,029	2,164	3,879	3,006	7,133
Equipment operated (No.)	43,729	18,702	2,351	5,534	5,127	12,015
Straight trucks (No.)	1,584	958	132	323	[*] 57	114
Distance travelled ('000 km)	98,938	64,920	8,091	14,634	4,633	6,660
Average distance ('000 km)	62	68	61	45	81	58
Road tractors (No.)	23,647	10,474	1,550	2,763	2,569	6,291
Distance travelled ('000 km)	3,718,815	1,700,217	229,667	398,091	374,344	1,016,496
Average distance ('000 km)	157	162	148	144	146	162
Semi-trailers (No.)	15,727	7,063	631	1417	2,258	4,358
Other (No.)	2,771	207	37	1031	244	1,252
Total distance ('000 km)	3,817,755	1,765,137	237,759	412,726	378,977	1,023,156
Fuel consumed ('000 L)	1,840,525	884,222	110,204	219,349	161,327	465,423

^{1.} Excludes household goods movers.

Working owner included.

Note(s): Some totals may not add due to rounding.

Table 15
Summary statistics by type of activity, owner operators, 2005

	Total	General freight	Household	Bulk liquids	Dry bulk materials	Forest products	Other commodities		
Estimated number of owner operators (No.)	37,591	14,045	812	2,458	9,164	3,463	7,649		
_	thousands of dollars								
Operating revenues	7,769,746	2,397,001	169,429	752,183	1,785,837	1,043,195	1,622,101		
Operating expenses	7,122,068	2,221,280	155,556	686,496	1,649,851	971,523	1,437,362		
Salaries and wages	1,568,730	487,993	47,640	195,353	367,454	220,457	249,833		
Benefits	35,379	8,802	759	4,579	12,845	3,977	4,417		
Fuel	1,750,752	531,012	28,683	118,725	385,141	271,471	415,720		
Owner operator expenses	0	0	0	0	0	0	0		
Purchased transport	848,650	342,261	19,128	85,617	188,699	86,066	126,879		
Maintenance	768,568	211,164	8,868	83,437	174,897	139,816	150,386		
Depreciation	737,157	206,691	10,924	81,000	181,361	103,418	153,763		
Insurance	291,961	86,055	7,379	26,649	66,470	42,661	62,747		
Rent	236,837	78,692	7,885	22,045	73,358	20,210	34,647		
Other expenses	884,038	268,611	24,290	69,091	199,628	83,447	238,971		
Full time employees ¹ (No.)	60,764	21,017	1,656	4,941	16,193	5,943	11,014		
Equipment operated (No.)	86,949	27,959	1,530	6,400	20,929	10,624	19,507		
Straight trucks (No.)	16,218	4,623	574	1,159	7,844	280	1,738		
Distance travelled ('000 km)	832,715	262,698	23,476	64,678	413,731	13,609	54,523		
Average distance ('000 km)	51	57	41	56	53	49	31		
Road tractors (No.)	37,541	13,935	532	2,838	6,685	4,942	8,609		
Distance travelled ('000 km)	4,903,906	2,006,418	54,980	352,931	689,060	592,784	1,207,733		
Average distance ('000 km)	131	144	103	124	103	120	140		
Semi-trailers (No.)	27,140	9,100	351	2191	4,115	4,583	6,800		
Other (No.)	6,048	300	73	212	2,284	819	2,360		
Total distance ('000 km)	5,736,622	2,269,116	78,456	417,610	1,102,791	606,392	1,262,257		
Fuel consumed ('000 L)	2,820,187	1,104,489	33,716	196,579	607,275	286,113	592,015		

^{1.} Working owner included.

Table 16
Summary statistics by type of movement, owner operators, 2005

	Intraprovincial	Extraprovincial carriers							
	carriers	Total	Intraprovincial	Interprovincial _	International				
					Sub total	Into Canada	Out of Canada		
Estimated number of carriers (No.)	20,544	17,048							
			thousands of	dollars					
Operating revenues	3,952,839	3,817,017	1,233,580	833,103	1,750,334	808,915	941,419		
Operating expenses Transportation expenses Maintenance and garage expenses Administrative and general office expenses	3,603,982 2,631,268 402,529 570,186	3,518,199 2,510,959 366,038 641,200	1,144,992 839,150 120,908 184,934	774,792 567,150 81,971 125,670	1,598,415 1,104,659 163,159 330,596	752,439 524,300 78,463 149,675	845,976 580,359 84,696 180,921		
Full time employees (No.)	32,845	27,920							
Salaries and wages (\$'000)	860,227	708,502							
			numbe	r					
Equipment operated Straight trucks Road tractors Semi-trailers Other	45,372 12,645 16,159 12,981 3,587	41,577 3,573 21,383 14,160 2,461	 	 	 				

Table 17
Summary statistics by province or territory of domicile, owner operators, 2005

	Canada	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario		
Estimated number of owner operators (No.)	37,591	336	162	772	1,020	8,071	13,218		
_			thous	sands of dollars					
Operating revenues	7,769,747	76,103	32,388	144,442	220,509	1,926,177	2,289,964		
Operating expenses	7,122,068	74,200	31,522	136,705	200,047	1,792,919	2,127,699		
Salaries and wages	1,568,729	18,374	5,999	27,934	39,125	404,954	414,162		
Benefits	35,379	282	33	314	591	7,278	9,268		
Fuel	1,750,750	22,015	10,634	44,568	70,421	344,423	581,138		
Owner operator expenses	0	0	0	. 0	0	0	0		
Purchased transport	848,650	8,587	2,722	17,747	6,913	250,882	271,455		
Maintenance	768,567	5,677 7.800	3,334	10,299 16.307	26,474	252,556	182,019		
Depreciation	737,157 291,962	7,800 3,449	2,187 1.328	4,856	21,964 9.044	179,063 69.670	227,804 67.531		
Insurance Rent	236,837	3,449 1,473	369	4,656 1.625	9,044 3.793	76.780	54.073		
Other expenses	884,038	6,543	4.917	13,055	21,722	207,312	320,249		
Full time employees (No.)	60,765	622	267	1,070	1,665	13,810	19,685		
	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon	Northwest Territories	Nunavut		
Estimated number of owner operators (No.)	1,536	1,495	6,144	4,792	31	14	0		
_	thousands of dollars								
Operating revenues	306,817	365,073	1,447,115	953,021	6,451	1,685	0		
Operating expenses	274,130	331,801	1,284,336	861,462	6,062	1,186	0		
Salaries and wages	51,188	76,206	301,755	227,465	Х	X	0		
Benefits	382	2,034	8,544	6,621	Х	X	0		
Fuel	100,259	104,644	284,567	186,138	Х	X	0		
Owner operator expenses	0	0	0	0	Х	Х	0		
Purchased transport	28,394	27,416	153,804	80,560	Х	Х	0		
Maintenance	20,615	36,622	138,197	91,345	X	X	0		
Depreciation	24,789 7.843	32,791 16.122	135,163 70.133	88,635 41.679	X	Х	0		
Insurance Rent	7,643	8,265	70,133 58.655	23.878	X X	X X	0		
Other expenses	32,959	27,701	133,520	115,140	X	X	0		
Full time employees (No.)	2,540	2,481	10,320	8,235	x	x	0		

Table 18

Number of employees by type and by province or territory of domicile, owner operators, 2005

	Canada	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
				number			
Estimated number of owner operators	37,591	336	162	772	1,020	8,071	13,218
Employees Drivers							
Full time	52,680	х	х	1,002	1,338	11,971	17,226
Part time	9,313	Х	X	110	446	2,072	2,209
Other Employees							
Full time Part time	8,085 7,955	X	X	67 181	327 432	1,839 1,403	2,459
	7,955	Х	Х	101	432	1,403	3,028
Total Full time	60,765	x	х	1,070	1,665	13,810	19,685
Part time	17,268	X	x	290	878	3,475	5,238
	Manitoba	Saskat-	Alberta	British	Yukon	Northwest	Nunavut
		chewan		Columbia		Territories	
				number			
Estimated number of owner operators	1,536	1,495	6,144	4,792	31	14	0
Employees							
Drivers Full time	2,231	2,063	9,005	7,008	v	v	0
Part time	486	557	2,097	1,117	X X	X X	0
Other Employees							
Full time	309	418	1,316	1,227	х	x	0
Part time	514	317	1,200	751	х	х	0
Total							
Full time Part time	2,540 1,000	2,481 875	10,320 3,296	8,235 1,868	X X	x x	0
rait tille	1,000	010	3,230	1,000	X	*	U

Table 19 Equipment operated by province or territory of domicile¹, owner operators, 2005

	Straight trucks	Road tractors	Semi-trailers	Other equipment	Total
			number		
Newfoundland and Labrador	178	426	306	35	946
Prince Edward Island	Х	X	Х	x	514
Nova Scotia	Х	X	Х	x	1,506
New Brunswick	184	1,349	1,047	78	2,658
Quebec	3,873	8,586	7,158	1,362	20,978
Ontario	5,975	12,172	6,874	1,770	26,792
Manitoba	386	2,427	1,105	48	3,967
Saskatchewan	269	1,953	1,879	196	4,298
Alberta	2,599	6,139	5,391	563	14,693
British Columbia	2,416	3,439	2,691	1,938	10,486
Yukon	×	×	×	×	87
Northwest Territories	х	x	х	x	25
Nunavut	0	0	0	0	0
Canada	16,218	37,542	27,141	6,048	86,949

^{1.} Owned and leased by a company.

Table 20
Estimated annual distance travelled by type of vehicle and by province or territory of domicile, owner operators, 2005

	Total	Straight	Road				
	distance	trucks	tractors				
	thousands kilometres						
Newfoundland and Labrador	52,376	6,577	45,799				
Prince Edward Island	31,347	X	x				
Nova Scotia	123,132	X	x				
New Brunswick	212,174	8,472	203,702				
Quebec	1,325,486	179,232	1,146,255				
Ontario	2,047,034	356,111	1,690,923				
Manitoba	289,285	21,955	267,331				
Saskatchewan	221,390	7,570	213,820				
Alberta	855,964	90,052	765,912				
British Columbia	569,824	148,242	421,582				
/ukon	7,144	X	x				
Northwest Territories	1,466	X	x				
Nunavut	0	0	0				
Canada	5,736,622	832,715	4,903,907				

Methodology and data quality

Introduction

This section describes the methodology of the Annual Motor Carriers of Freight Survey of Small For-hire Carriers and Owner Operators. Included are descriptions of the target and survey populations, the sample design, and the data processing and estimation methods. The quality of the data presented in this publication is discussed and quality indicators for some key statistics are given.

This information will provide the user with a better understanding of the strengths and limitations of the data, and how they can be effectively used and analyzed. The information may be of particular importance when making comparisons with data from other surveys or sources of information, and in drawing conclusions regarding changes over time, differences between geographic areas and differences among sub-groups of the target population.

Several terms used in this chapter are defined below:

Target Population: all units (e.g. carriers) for which the information is required.

Survey Population: all units (e.g. carriers) for which the survey can realistically provide information. The survey population may differ from the target population due to the operational difficulty of identifying all the units that belong to the target population.

Survey Frame: a list of all units in the survey population that carries classification information (e.g. industrial, geographical and size) of the units. This list is used for sample design and selection.

Stratification: a non-overlapping partition of the survey population into relatively homogeneous groups with respect to certain characteristics such as geographical and industrial classification, size, etc. These groups are called strata and are used for sample allocation and selection.

Sampling weight: a raising factor attached to each sampled unit to obtain estimates for the population from a sample. The basic concept of the sampling weight can be explained by using the representation rate. For example, if 2 units are selected out of 10 population units at random, then each selected unit represents 5 units in the population including itself, and is given the sampling weight of 5. A survey with a complex sample design requires a more complicated way of calculating the sampling weight. However, the sampling weight is still equal to the number of units in the population that the unit represents.

Data Sources and Methodology

A. Survey Objectives

The objective of this survey is to obtain information on small for-hire carriers and owner operators in terms of their structure and performance on an annual basis.

B. Populations

Target Population

The target population includes all Canadian-domiciled for-hire motor carriers (companies) with annual operating revenues greater than or equal to \$30 thousand and less than \$1 million, as well as all Canadian-domiciled owner operators with annual operating revenues of \$30 thousand and more. Courier and messenger services are not covered by this survey, nor are private carriers.

Survey Population

The 2005 survey population consists of all companies on Statistics Canada's Business Register, the Central Frame Data Base (CFDB), classified as trucking companies with annual gross business income greater than or equal to \$30 thousand and less than \$1 million, or with annual gross business income of \$1 million and more if these companies are known as owner operators. In addition, the survey population includes some companies from an administrative file of 2005 tax filers, classified as trucking companies with annual operating revenues greater than or equal to \$30 thousand and less than \$1 million that are not yet found on the Business Register.

C. Sample Design

The number of trucking companies on the survey frame is large and for that reason a sample of them is selected to represent the population. The survey uses a two-phase sample design, where a large first-phase sample is selected and the second-phase sample is drawn as a sub-sample from these companies. The design of the sampling procedures used in each phase is described below.

First-Phase

The first-phase sample is drawn independently for incorporated and unincorporated companies. The list of unincorporated companies on the Business Register is classified using province/territory of domicile, North American Industrial Classification System (NAICS) code, and size (measured by annual gross business income). Companies with the same classification form a stratum within which a first-phase sample is selected. The complete list of incorporated companies on the survey frame is included in the first-phase sample

Second-Phase

The second-phase sample is a sub-sample of the first-phase sample. The companies included in the first-phase sample are again classified using province/territory of domicile, NAICS code, and size. Companies with the same classification form a stratum within which a second-phase sample is selected.

The overall size of the second phase sample and its allocation among strata are determined to satisfy precision requirements for provincial estimates under given cost constraints. The coefficient of variation is used as the measure of precision. The sample size and the estimated population size by province or territory of domicile are given in **Table 21.**

Table 21
Estimated population size and sample size by province or territory of domicile, annual motor carriers of freight survey: small for-hire carriers and owner operators, 2005

	Estimated carriers in survey population	Carriers selected	In-scope carriers selected
		Phase 1	Phase 2
	n	umber	
Newfoundland and Labrador	397	292	172
Prince Edward Island	179	106	56
Nova Scotia	906	476	185
New Brunswick	1,155	758	244
Quebec	9,855	6,688	524
Ontario	16,232	6,586	659
Manitoba	1,686	733	237
Saskatchewan	1,829	1,031	269
Alberta	7,132	4,694	668
British Columbia	6,038	2,719	416
⁄ukon	41	29	22
Northwest Territories	16	19	10
Nunavut	0	0	1
Canada	45,466	24,131	3,462

D. Data Collection and Processing

During the collection period, financial data is obtained for all units in the first-phase sample from an administrative file of tax filers. The companies included in the second-phase sample are contacted via telephone interview in order to collect operational data.

The survey data are checked for errors and inconsistencies. Problems or missing data are replaced with consistent values (are imputed) using Statistics Canada's Generalized Edit and Imputation System. The system imputes data using imputation rules that select representative data from another carrier. The data is then verified by subject matter specialists.

E. Estimation

Since only a sample of carriers was contacted for the AMCF survey, the individual values are weighted to represent the whole industry within the scope of the survey. The value of each carrier is multiplied by the weight for that carrier, and then the weighted data from all sampled carriers belonging to a given estimation domain (e.g. Ontario) are summed to obtain the estimate.

F. Reference Period

The reference period for collection purposes is the firm's own 12-month accounting period whose year-end occurred on any date from April1, 2005 to March 31, 2006, inclusive.

Data Quality

Any survey suffers from errors. While considerable effort is made to ensure a high standard throughout all survey operations, the resulting estimates are inevitably subject to a certain degree of error. The total survey error is defined as the difference between the survey estimate and the true population value for which the survey estimate aims. The total survey error consists of two types of errors; sampling and non-sampling errors. Sampling error occurs when

a sample survey is carried out. Non-sampling errors arise due to various reasons other than sampling. These two types of errors are further explained below.

A. Sampling Error

The Annual Motor Carriers of Freight Survey of Small For-hire Carriers and Owner Operators is subject to sampling error. When a sample is selected from a population, estimates based on the sample data will not in general be exactly the same as what would be obtained from a census of that population.

The difference between the estimates from a sample survey and a census conducted under the same conditions is referred to as the sampling error. Factors such as the sample size, the sample design, the variability of the population characteristic under study and the estimation method affect the sampling error. In general, a larger sample size produces a smaller sampling error. If the population is very heterogeneous like the trucking industry, a large sample size is needed to obtain a reliable estimate.

B. Non-sampling Errors

The sampling error is only one component of the total survey error. Errors arising from all phases of a survey are called non-sampling errors. For example, non-sampling error can arise when a respondent provides incorrect information or does not answer certain questions or when a unit in the target population is omitted or covered more than once or when a unit that is out of scope for the survey is included by mistake or when errors occur in data processing, such as coding and capture errors.

The effects of some of the non-sampling errors will cancel out over a large number of observations, but systematically occurring errors (i.e. those that do not tend to cancel) will contribute to a bias in the estimates. For example, if carriers consistently tend to under-report their revenues, then the resulting estimate of the total revenues will be below the true population total.

As the sample size becomes closer to the population size, the sampling error component of the total survey error is expected to decrease. However, this is not necessarily true for the non-sampling error component.

In general, non-sampling errors are difficult to evaluate and special studies must be conducted to estimate them. However, certain measures such as imputation rates are easily obtained and can be used as indicators for portions of the non-sampling errors. Different types of non-sampling error together with their associated measures are discussed below.

I. Coverage Errors

Coverage errors arise when the survey frame does not adequately cover the target population. As a result, certain units belonging to the target population are either excluded (under coverage), or counted more than once (over coverage). In addition, out of scope units may be present in the survey frame (over coverage). Errors in the North American Industrial Classification Standard (NAICS) code on the survey frame may also result in either over or under coverage of the trucking industry.

II. Response Errors

Response errors occur when a respondent provides incorrect information due to misinterpretation of the survey questions or lack of correct information, gives wrong information by mistake, or is reluctant to disclose the correct information. Large response errors are likely to be caught during editing; however, others may simply go through undetected.

III. Non-response Errors

Non-response errors can occur when a respondent does not respond at all (total non-response) or responds only to some questions (partial non-response). These errors can have a serious effect if non-respondents are systematically different from respondents in survey characteristics and/or the non-response rate is high.

IV. Processing Errors

Apart from coverage, response and non-response errors as described above, errors that occur during the processing of the data constitute another component of the non-sampling error. Processing errors can arise in data capture, coding, transcription, imputation, outlier detection and treatment, and other types of data handling.

A coding error occurs when a field is coded erroneously because of misinterpretation of coding procedures or poor judgment (e.g. errors in NAICS coding). A data capture error occurs when data are misinterpreted or keyed incorrectly. For this survey, errors in financial data can occur when the data are being transcribed from the tax returns.

Once data are coded and captured, they are subject to editing and imputation of missing or erroneous values. The quality of the data depends on the amount of imputation and the difference between the imputed and the true, but unknown, values. Using invalid assumptions when developing the imputation system could result in bias in the imputed data.

The non-sampling error as a whole is only one part of the total survey error but its contribution may be important. To minimize the effect of this type of error, a quality assurance program is carried out for this survey. For instance, various quality assurance procedures are exercised at the data capture step. The data editing procedures identify some inconsistencies in the data structure and the imputation procedures correct the identified inconsistencies.

C. Some Measures of Data Quality

This section presents some indicators of the data quality of the Annual Motor Carriers of Freight Survey of Small For-hire Carriers and Owner Operators as shown in Table 22. To assist the user in evaluating the potential effect of non-response and imputation, relative imputation rates for key characteristics (number of employees, fuel consumed, and operating revenues) are presented. The relative imputation rate is defined as the proportion of the corresponding published estimate that is accounted for by imputed data. For example, assume that the total published estimate is \$25 million, composed of \$20 million from non-imputed data and \$5 million from imputed data. Then the relative imputation rate is 0.2 (\$5 million divided by \$25 million) or 20%. The lower the relative imputation rate, the more reliable the published estimate.

Table 22
Quality measures by province or territory of domicile, annual motor carriers of freight survey: small for-hire carriers and owner operators, 2005

		For-hire carriers			Owner-operators	
	Response rate	Relative imputation rate	Coefficient of variation	Response rate	Relative imputation rate	Coefficient of variation
			percen	t		
Newfoundland and Labrador Total employment Fuel consumed ¹ Total revenues	45.2 	50.9 66.6 0.0	11.6 12.7 12.0	72.3 	22.0 54.8 0.0	6.2 8.4 4.6
Prince Edward Island Total employment Fuel consumed ¹ Total revenues	100.0 	0.0 37.7 0.0	18.9 27.1 20.8	67.3 	17.7 56.9 0.0	17.4 11.3 8.7
Nova Scotia Total employment Fuel consumed ¹ Total revenues	56.1 	35.1 74.7 0.1	14.1 13.4 11.1	85.9 	12.0 56.0 0.0	5.0 10.5 6.0
New Brunswick Total employment Fuel consumed ¹ Total revenues	80.9 	7.3 21.8 0.0	47.7 90.8 26.1	73.1 	21.5 53.4 0.0	17.2 14.9 11.2
Québec Total employment Fuel consumed ¹ Total revenues	80.0 	11.2 42.6 0.0	13.8 11.0 8.1	76.6 	22.7 49.1 0.0	5.1 5.3 3.8
Ontario Total employment Fuel consumed ¹ Total revenues	77.0 	42.3 63.6 0.0	21.0 27.0 16.7	64.4 	43.5 61.3 0.5	12.3 13.1 10.2
Manitoba Total employment Fuel consumed ¹ Total revenues	85.1 	11.2 45.9 0.0	11.9 16.2 11.1	70.6 	22.2 52.9 1.0	9.3 8.5 5.3
Saskatchewan Total employment Fuel consumed ¹ Total revenues	80.0 	39.1 67.4 0.0	 19.2 19.1 12.9	71.6 	22.8 52.4 0.0	9.1 12.1 8.4
Alberta Total employment Fuel consumed ¹ Total revenues	71.1 	44.5 64.5 0.0	16.7 14.0 11.5	71.7 	16.4 46.7 0.1	11.1 9.8 5.8
British Columbia Total employment Fuel consumed ¹ Total revenues	65.0 	40.5 63.6 0.0	14.5 22.9 19.1	81.0 	8.8 71.9 1.6	12.4 26.3 9.3
Yukon Total employment Fuel consumed ¹ Total revenues	50.0 	53.4 89.9 0.0	12.0 20.0 6.1	43.8 	29.7 35.2 0.0	27.1 13.1 12.0
Northwest Territories Total employment Fuel consumed ¹ Total revenues	50.0 	28.1 57.1 0.0	15.9 32.0 6.6	100.0 	0.0 60.5 0.0	0.0 26.8 4.2
Nunavut Total employment Fuel consumed ¹ Total revenues	 	 	 	 	 	
Canada Total employment Fuel consumed ¹ Total revenues	73.3 	32.0 57.5 0.0	8.4 10.3 6.9	72.6 	26.0 55.8 0.4	4.6 5.5 3.3

^{1.} All the for-hire carriers in the AMCF sample (whether they had an actual annual operationg revenue less or over than \$1 million) were used to calculate the response and imputation rates presented in this table. See Section on Comparability of Data for more details.

A total response rate is also provided. This rate is defined as the number of carriers that responded to the survey divided by the total number of in-scope units in the sample.

As a measure of the sampling error, estimated coefficients of variation (CV) for some variables are presented in **Table 22**. CVs for other estimates may be obtained from the Transportation Division upon request. Note that the provided CV estimates do not consider the fact that some of the data were imputed and thus may underestimate the true CVs. The CV and the relative imputation rate should be considered simultaneously to make an assessment of the reliability of an estimate.

The quality of the estimates is classified as follows:

* Excellent: CV is 0,01% and 4,99%

* Very good : CV is 5,00% and 9,99%

* Good: CV is 10,00% and 14,99%

* Acceptable : CV is 15,00% and 24,99%

* Caution: CV is 25,00% and 34,99%

* Unreliable CV is larger than 35,00%

Comparability of Data

For the 1999 reference year, changes were made to the derivation of certain financial variables from the administrative tax files. The variables for which historical comparison may be affected are transportation revenues, fuel expenses, Owner-operator expenses and miscellaneous expenses.

Effective for the 1998 reference year, the survey underwent a major redesign. The redesign involved major changes to the frame creation process, the sample design and the estimation strategy. The frame for 1998 was created from Statistics Canada's Business Register. The sample design at the second-phase has been optimized, and the estimation strategy now uses a calibration approach to make use of information that became available after the sample had been drawn (e.g. an updated frame is used in calculating the estimation weights to make use of updates to the Business Register since the sample was drawn). The overall effect of these changes is an improved reliability in the survey estimates. In particular, this improved reliability comes from i) an improved coverage of the target population (which results in an increase in the estimated number of in-scope companies), and ii) an improved precision in the survey estimates (i.e. lower coefficients of variation).

In order to improve the combined coverage of the trucking industry by the AMCF survey and its complement, the Quarterly Motor Carriers of Freight (QMCF) survey, a group of large companies will be included in the AMCF, effective for 1998. Since the QMCF uses the annual gross business income from the Business Register, which is not identical to the true annual operating revenues, to define the survey population, some companies in the QMCF target population (those with annual gross business income less than \$1 million, and actual annual operating revenues over \$1 million) are not included in the QMCF survey population. Although these companies do not fall into the target population for the AMCF, it was decided to include them in the AMCF survey population to improve the overall industry coverage of the two surveys. The effect of this is the addition of a small number of large companies to the AMCF survey population. Although the number of such companies is small, their large size leads to a noticeable increase in the survey estimates. In order to facilitate historical comparisons, separate domain estimates will be produced for i) companies with actual operating revenue greater than or equal to \$1 million.

From 1995 to 1997, the survey covered for-hire carriers and owner operators with annual operating revenues greater than or equal to \$30 thousand and less than \$1 million. Starting with 1998, owner operators with annual operating revenues greater than or equal to \$1 million will also be covered.

From 1990 to 1995, the survey covered for-hire carriers and owner operators with annual operating revenues greater than or equal to \$25 thousand and less than \$1 million.

The survey data prior to the 1990 survey covered for-hire carriers with annual operating revenues of \$100 thousand or more. Owner operators were not included in the 1989 and preceding surveys.

Release date: July 2010

Symbols

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- revised
- x suppressed to meet the confidentiality requirements of the Statistics Act
- E use with caution
- F too unreliable to be published

To access this product

This product, Catalogue no. 50-002-X, is available free in electronic format. To obtain a single issue, visit our website at www.statcan.gc.ca and browse by "Key resource" > "Publications."

Frequency: Irregular / ISSN 1209-1162

For information on the wide range of data available from Statistics Canada, please call our national inquiries line at 1-800-263-1136.

Cette publication est également disponible en français.

Published by authority of the Minister responsible for Statistics Canada. © Minister of Industry, 2010. All rights reserved. The content of this electronic publication may be reproduced, in whole or in part, and by any means, without further permission from Statistics Canada, subject to the following conditions: that it be done solely for the purposes of private study, research, criticism, review or newspaper summarry, and/or for non-commercial purposes; and that Statistics Canada be fully acknowledged as follows: Source (or "Adapted from", if appropriate): Statistics Canada, year of publication, name of product, catalogue number, volume and issue numbers, reference period and page(s). Otherwise, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form, by any means—electronic, mechanical or photocopy—or for any purposes without prior written permission of Licensing Services, Client Services Division, Statistics Canada, Ottawa, Ontario, Canada K1A 0T6.

Standards of service to the public

Statistics Canada is committed to serving its clients in a prompt, reliable and courteous manner. To this end, Statistics Canada has developed standards of service that its employees observe.

To obtain a copy of these service standards, please contact Statistics Canada toll-free at 1-800-263-1136. The service standards are also published on www.statcan.gc.ca under "About us" > "Providing services to Canadians."

Note of appreciation

Canada owes the success of its statistical system to a long-standing partnership between Statistics Canada, the citizens of Canada, its businesses, governments and other institutions. Accurate and timely statistical information could not be produced without their continued cooperation and goodwill.