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Motor Freight Transportation and Warehousing Survey: 1995



Acknowledgments

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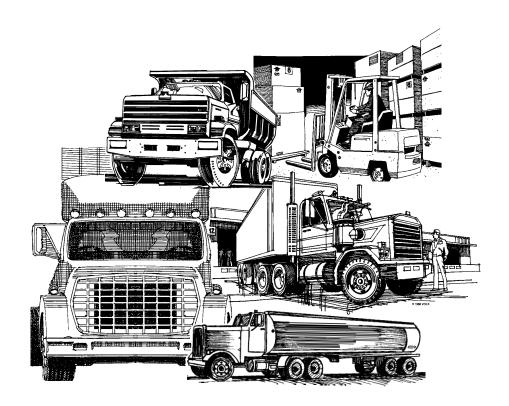
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Motor Freight Transportation and Warehousing Survey: 1995

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Introduction

Coverage

This report presents the results from the 1995 Motor Freight Transportation and Warehousing Survey. This annual sample survey represents all employer firms with one or more establishments that are primarily engaged in providing commercial motor freight transportation or public warehousing services. This includes firms furnishing local or long-distance trucking or transfer services, and those firms engaged in the storage of farm products, furniture or other household goods, or commercial goods of any nature.

This survey excludes private motor carriers that operate as auxiliary establishments to nontransportation companies, as well as independent owner-operators with no paid employees. As a result, the dollar volume estimates and estimates of year-to-year percentage change presented in this report should not be interpreted as representing measurements of total trucking industry activity.

Statistics in this report are summarized by kind-ofbusiness classification based on the 1987 edition of the Standard Industrial Classification Manual issued by the Office of Management and Budget.

Appendix A provides estimated measures of sampling variability (coefficients of variation) for the dollar volume estimates and estimates of year-to-year ratios presented in the report. An explanation of the survey coverage, sampling, and estimation methodology appears in appendix B. Appendix C provides a description of each kind of business included in this report. Copies of the 1995 report forms are provided in appendix D.

Dollar Values

All dollar values presented in this report are expressed in current dollars, that is, the estimates are not adjusted to a constant dollar series. Consequently, when comparing data to prior years, users also should consider price level changes.

Unpublished Data

Estimates for some kinds of business not separately shown in this report are produced as a by-product of the published statistics. These additional data are not published because of their high sampling variability, poor response quality, or other factors that result in their failure to meet Census Bureau standards for publication. The Bureau of the Census, upon written request, will release such figures for individual use.

Note that some unpublished figures can be derived from this report by subtracting published data from their respective totals. However, such figures are subject to the limitations described above. These unpublished estimates are for internal use only.

Census Disclosure Rules

In accordance with Federal law governing Census reports, no data are published that would disclose the operation of an individual firm.

Table 1. Motor Freight Transportation and Warehousing Services (SIC 42)—Summary Statistics, by Kind of Business: 1991 Through 1995

	Mate										
ltem	Motor freight transporta- tion and ware- housing services (SIC 42)	Trucking and courier services, except by air ² (SIC 421)	Local trucking without storage (SIC 4212)	Trucking, except local (SIC 4213)	Local trucking with storage (SIC 4214)	Courier services, except by air (SIC 4215)	Public ware- housing and storage (SIC 422)	Farm product ware- housing and storage (SIC 4221)	Refriger- ated ware- housing and storage (SIC 4222)	General ware- housing and storage (SIC 4225)	Special warehousing and storage (SIC 4226)
Total Operating Revenue											
Millions of dollars											
1995 1994 1993 1992 1991	176,259 167,865 152,694 143,793 134,259	165,271 157,910 143,601 135,437 126,772	41,393 39,400 35,953 33,554 30,890	95,814 91,971 82,558 78,358 73,982	4,410 4,282 4,259 4,191 4,022	23,654 22,257 20,831 19,334 17,878	10,941 9,911 9,056 8,329 7,440	781 773 718 656 566	2,271 1,970 1,805 1,745 1,554	5,060 4,652 4,352 3,919 3,568	2,829 2,516 2,181 2,009 1,752
Percent change											
1995/1994 1994/1993 1993/1992 1992/1991	5.0 9.9 6.2 7.1	4.7 10.0 6.0 6.8	5.1 9.6 7.1 8.6	4.2 11.4 5.4 5.9	3.0 0.5 1.6 4.2	6.3 6.8 7.7 8.1	10.4 9.4 8.7 11.9	1.0 7.7 9.5 15.9	15.3 9.1 3.4 12.3	8.8 6.9 11.0 9.8	12.4 15.4 8.6 14.7
Total Operating Expenses Millions of dollars											
1995 1994 1993 1992 1991	165,089 156,227 142,803 134,752 125,246	155,920 147,911 135,144 127,687 118,855	38,677 36,444 33,383 31,047 27,887	91,883 87,078 78,716 75,061 70,828	4,172 4,131 4,052 3,930 3,838	21,188 20,258 18,993 17,649 16,302	9,120 8,271 7,622 7,041 6,375	667 652 615 573 505	1,879 1,667 1,541 1,482 1,328	4,183 3,803 3,597 3,242 3,022	2,391 2,149 1,869 1,744 1,520
Percent change											
1995/1994 1994/1993 1993/1992 1992/1991	5.7 9.4 6.0 7.6	5.4 9.4 5.8 7.4	6.1 9.2 7.5 11.3	5.5 10.6 4.9 6.0	1.0 1.9 3.1 2.4	4.6 6.7 7.6 8.3	10.3 8.5 8.3 10.4	2.3 6.0 7.3 13.5	12.7 8.2 4.0 11.6	10.0 5.7 11.0 7.3	11.3 15.0 7.2 14.7
Annual Payroll											
Millions of dollars 1995 1994 1993 1992 1991	49,347 46,137 42,266 39,896 37,914	46,535 43,580 39,889 37,761 36,012	9,853 9,193 8,434 8,044 7,521	26,590 24,658 22,277 20,975 20,043	1,360 1,362 1,351 1,346 1,324	8,732 8,367 7,827 7,396 7,124	2,794 2,540 2,364 2,127 1,896	160 152 144 129 116	599 522 488 464 423	1,278 1,170 1,120 983 885	757 696 612 551 472
Percent change											
1995/1994	7.0 9.2 5.9 5.2	6.8 9.3 5.6 4.9	7.2 9.0 4.8 7.0	7.8 10.7 6.2 4.7	-0.1 0.8 0.4 1.7	4.4 6.9 5.8 3.8	10.0 7.4 11.1 12.2	5.3 5.6 11.6 11.2	14.8 7.0 5.2 9.7	9.2 4.5 13.9 11.1	8.8 13.7 11.1 16.7
Security and Other Supplemental Benefits											
Millions of dollars											
1995 1994 1993 1992 1991	12,488 12,101 11,309 10,647 9,861	11,857 11,502 10,745 10,125 9,393	2,228 2,159 1,959 1,835 1,686	6,428 6,228 5,863 5,583 5,304	288 301 301 310 303	2,913 2,814 2,622 2,397 2,100	627 596 561 520 466	40 39 38 36 32	139 135 128 131 111	282 265 256 226 208	166 157 139 127 115
Percent change											
1995/1994 1994/1993 1993/1992 1992/1991	3.2 7.0 6.2 8.0	3.1 7.0 6.1 7.8	3.2 10.2 6.8 8.8	3.2 6.2 5.0 5.3	-4.3 0.0 -2.9 2.3	3.5 7.3 9.4 14.1	5.2 6.2 7.9 11.6	2.6 2.6 5.6 12.5	3.0 5.5 –2.3 18.0	6.4 3.5 13.3 8.7	5.7 12.9 9.4 10.4

¹Includes terminal and joint terminal maintenance facilities for motor carrier transportation (SIC 4231) not shown separately.

Note: Detail may not add to total due to rounding. Estimates are not adjusted for price changes. Appendix A, table A-1 provides estimated measures of sampling variability (coefficients of variation).

²Excludes private motor carriers that operate as auxiliary establishments to nontransportation companies and independent owner-operators with no paid employees.

Trucking and Courier Services

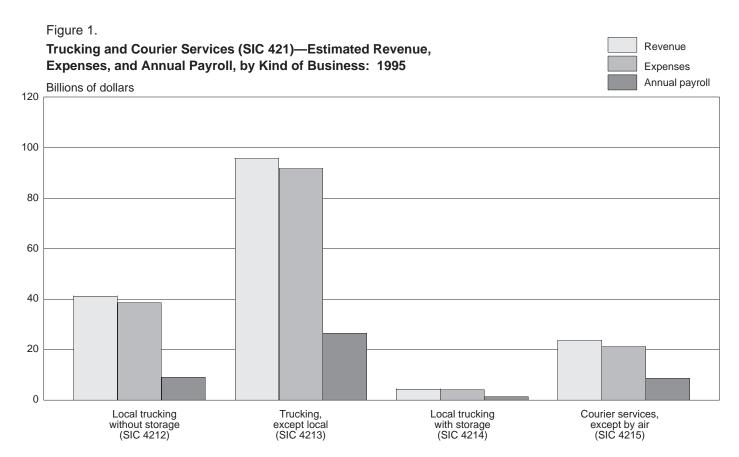
Summary of Data

Total operating revenue in 1995 for the for-hire trucking and courier services industry (excluding air courier services) was estimated at \$165.3 billion, up 4.7 percent from 1994. Long-distance trucking, which accounted for more than 74 percent of all motor carrier revenue, was up 4.4 percent from 1994. Local trucking revenue rose 5 percent from 1994 to approximately \$40.1 billion in 1995. Truckload shipments accounted for approximately 63 percent of motor carrier revenue in 1995 and increased 4.4 percent from 1994.

Approximately 47 percent of motor carrier revenue came from transporting manufactured products, such as furniture, hardware, glass products, textiles and apparel, and the delivery of small packages. Revenue in 1995 from the transport of household goods rose 11.4 percent from 1994.

Total operating expenses were estimated at \$155.9 billion in 1995, up 5.4 percent from 1994. Annual payroll accounted for nearly 30 percent of all trucking expenses, totaling \$46.5 billion for 1995. Purchased transportation rose 3.6 percent from 1994, while the cost of purchased fuels rose 5.5 percent.

Total operating revenue for long-distance trucking, SIC 4213, rose 4.2 percent from 1994 to approximately \$96 billion in 1995. Total operating expenses were estimated at \$91.9 billion in 1995 and were up 5.5 percent over 1994. Annual payroll accounted for nearly 29 percent of the industry's expenses in 1995 and was up 7.8 percent from 1994.



Note: See appendix A, table A-1 for estimated measures of sampling variability (coefficients of variation). Estimates are not adjusted for price changes. Expenses include annual payroll.

Source: U.S. Bureau of the Census, Motor Freight Transportation and Warehousing Survey: 1995

Table 2. Trucking and Courier Services (SIC 421)—Estimated Operating Revenue and Expenses for All Carriers, by Kind of Business: 1991
Through 1995

[Millions of dollars.]

Item	Trucking	g and cou	urier servi (SIC 421		pt by air	L		king without SIC 4212	out storage	е			ng, excep SIC 4213				Local tru	cking with SIC 4214			(rvices, ex (SIC 421	cept by a	uir
	1995	1994	1993	1992	1991	1995	1994	1993	1992	1991	1995	1994	1993	1992	1991	1995	1994	1993	1992	1991	1995	1994	1993	1992	1991
Operating Revenue																									
Total	165,271	157,910	143,601	135,437	126,772	41,393	39,400	35,953	33,554	30,890	95,814	91,971	82,558	78,358	73,982	4,410	4,282	4,259	4,191	4,022	23,654	22,257	20,831	19,334	17,878
Motor carrier	155,971 40,062 115,909	149,160 38,157 111,003	135,383 34,086 101,297	127,049 31,120 95,929	, -	38,244 24,882 13,362	36,342 23,487 12,855	33,026 20,886 12,140	30,450 19,318 11,132	27,322 17,150 10,172	90,950 10,249 80,701	87,553 10,317 77,236	78,533 9,293 69,240	74,386 8,244 66,142	69,800 7,047 62,753	3,350 2,157 1,193	3,192 2,026 1,166	3,133 1,892 1,241	3,030 1,787 1,243	2,845 1,543 1,302	23,427 2,774 20,653	22,073 2,327 19,746	20,691 2,015 18,676	19,183 1,771 17,412	17,765 1,541 16,224
Operating Expenses																									
Total	155,920	147,911	135,144	127,687	118,855	38,677	36,444	33,383	31,047	27,887	91,883	87,078	78,716	75,061	70,828	4,172	4,131	4,052	3,930	3,838	21,188	20,258	18,993	17,649	16,302
Annual payroll	46,535	43,580	39,889	37,761	36,012	9,853	9,193	8,434	8,044	7,521	26,590	24,658	22,277	20,975	20,043	1,360	1,362	1,351	1,346	1,324	8,732	8,367	7,827	7,396	7,124
efits	11,857	11,502	10,745	10,125	9,393	2,228	2,159	1,959	1,835	1,686	6,428	6,228	5,863	5,583	5,304	288	301	301	310	303	2,913	2,814	2,622	2,397	2,100
Purchased fuels	14,018	13,287	12,119	11,345	10,203	3,835	3,727	3,389	2,922	2,376	8,428	7,968	7,179	6,941	6,558	210	199	214	210	187	1,545	1,393	1,337	1,272	1,082
Purchased transportation . Lease and rental	30,379	29,329	26,678 2,545	24,760	22,507 2.501	5,689 680	5,294 649	4,930 610	4,256 648	3,731 689	21,869 1.374	21,141 1.309	19,038 1,203	18,055	16,622	714 238	699	636 237	601 239	596 236	2,107 602	2,195	2,074 495	1,848 457	1,558 399
Insurance	5,617	5,489	5,097	4.801	4,637	1,576	1,618	1,547	1.460	1,245	3,359	3,251	2,945	1,177 2,819	2,834	198	254 196	202	182	184	484	520 424	495	340	399
Maintenance and repair	9,636	9,442	8.542	7.985	7,138	3.290	3.181	2,841	2.600	2.148	5,349	5.250	4.760	4.504	4.203	219	223	212	195	(S)	778	788	729	686	582
Depreciation	8,948	8,218	7,450	6,998	6,610	2,570	2,478	2,253	2,062	1,808	5,070	4,551	4,061	3,860	3,764	172	148	163	170	152	1,136	1,041	973	906	886
Taxes and licenses	3,931	3,676	3,351	3,212	2,839	909	885	808	732	593	2,552	2,385	2,161	2,116	1,932	76	78	75	69	59	394	328	307	295	255
Drug and alcohol testing and rehabilitation pro-																									
grams	98 22,007	82 20,574	64 18,664	53 18,126	39 16,976	24 8,023	26 7,234	19 6,593	13 6,475	8 6,082	70 10,794	52 10,285	41 9,188	37 8,994	29 8,362	(S) 694	(S) 668	(S) 658	(S) 606	(S) 590	(S) 2,496	(S) 2,387	(S) 2,225	(S) 2,051	(S) 1,942

S Data do not meet publication standards because of high sampling variability or poor response quality. Some unpublished estimates can be derived from this table by subtracting published data from their respective totals. However, the figures obtained by such subtraction are subject to these same limitations. These unpublished data are for internal use only.

Note: Excludes private motor carriers that operate as auxiliary establishments to nontransportation companies and independent owner-operators with no paid employees. Detail may not add to total due to rounding. Estimates are not adjusted for price changes. Appendix A, table A-2 provides estimated measures of sampling variability (coefficients of variation).

Table 3. Trucking and Courier Services (SIC 421)—Estimated Operating Revenue and Expenses, by Type of Carrier: 1991 Through 1995

Total	1994 157,910 149,160 38,157 111,003 147,911 43,580 11,502 13,287 29,329 2,732 5,489 9,442 8,218 3,676 82 20,574	143,601 135,383 34,086 101,297 135,144 39,889 10,745 12,119 26,678 2,545 5,097 8,542 7,450 3,351 64 18,664	1992 135,437 127,049 31,120 95,929 127,687 37,761 10,125 11,345 24,760 2,521 4,801 7,985 6,998 3,212 53 18,126	1991 126,772 117,732 27,281 90,451 118,855 36,012 9,393 10,203 22,507 2,501 4,637 7,138 6,610 2,839 39 16,976	1995/1994 4.7 4.6 5.0 4.4 5.4 6.8 3.1 5.5 3.6 5.9 2.3 2.1 8.9 6.9 19.5 7.0	1994/1993 10.0 10.2 11.9 9.6 9.4 9.3 7.0 9.6 9.9 7.3 7.7 10.5 10.3 9.7	1993/1992 6.0 6.6 9.5 5.6 5.8 5.6 6.1 6.8 7.7 1.0 6.2 7.0 6.5 4.3	1992/1991 6.8 7.9 14.1 6.1 7.4 4.9 7.8 11.2 10.0 0.8 3.5 11.9 5.9 13.1
Operating Revenue 165,271 Motor carrier 155,971 Local trucking 40,062 Long-distance trucking 115,909 Operating Expenses Total 155,920 Annual payroll 46,535 Employer contributions to Social Security and other supplemental benefits 11,857 Purchased fuels 14,018 Purchased transportation 30,379 Lease and rental 2,894 Insurance 5,617 Maintenance and repair 96,36 Depreciation 8,948 Taxes and licenses 3,931 Drug and alcohol testing and rehabilitation programs 98 Other operating expenses 22,007 SPECIALTY CARRIERS Operating Revenue Total 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefi	149,160 38,157 111,003 147,911 43,580 11,502 13,287 29,329 2,732 5,489 9,442 8,218 3,676 82 20,574	135,383 34,086 101,297 135,144 39,889 10,745 12,119 26,678 2,545 5,097 8,542 7,450 3,351	127,049 31,120 95,929 127,687 37,761 10,125 11,345 24,760 2,521 4,801 7,985 6,998 3,212	117,732 27,281 90,451 118,855 36,012 9,393 10,203 22,507 2,501 4,637 7,138 6,610 2,839	4.6 5.0 4.4 5.4 6.8 3.1 5.5 3.6 5.9 2.3 2.1 8.9 6.9	10.2 11.9 9.6 9.4 9.3 7.0 9.6 9.9 7.3 7.7 10.5 10.3 9.7	5.8 5.6 6.1 6.8 7.7 1.0 6.2 7.0 6.5	7.9 14.1 6.1 7.4 4.9 7.8 11.2 10.0 0.8 3.5 11.9
Total 165,271 Motor carrier 155,971 Local trucking 40,062 Long-distance trucking 115,909 Operating Expenses Total 155,920 Annual payroll 46,535 Employer contributions to Social Security and other supplemental benefits 11,857 Purchased fuels 14,018 Depreciation 8,948 Taxes and licenses 19 Operating expenses 22,007 SPECIALTY CARRIERS Operating Expenses Total 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,366 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Purchased fuels 2,818 Depreciation 7,977 Taxes and licenses 9,304 GENERAL CARRIERS Operating Revenue 750 Total 2,197 Taxes on Ilicenses 9,304 GENERAL CARRIERS Operating Revenue 750 Total 1,565 Operating Revenue 1,565 Other operating expenses 9,304 GENERAL CARRIERS	149,160 38,157 111,003 147,911 43,580 11,502 13,287 29,329 2,732 5,489 9,442 8,218 3,676 82 20,574	135,383 34,086 101,297 135,144 39,889 10,745 12,119 26,678 2,545 5,097 8,542 7,450 3,351	127,049 31,120 95,929 127,687 37,761 10,125 11,345 24,760 2,521 4,801 7,985 6,998 3,212	117,732 27,281 90,451 118,855 36,012 9,393 10,203 22,507 2,501 4,637 7,138 6,610 2,839	4.6 5.0 4.4 5.4 6.8 3.1 5.5 3.6 5.9 2.3 2.1 8.9 6.9	10.2 11.9 9.6 9.4 9.3 7.0 9.6 9.9 7.3 7.7 10.5 10.3 9.7	5.8 5.6 6.1 6.8 7.7 1.0 6.2 7.0 6.5	7.9 14.1 6.1 7.4 4.9 7.8 11.2 10.0 0.8 3.5 5.9
Motor carrier 155,971 Local trucking 40,062 Long-distance trucking 115,909 Operating Expenses Total 155,920 Annual payroll 46,535 Employer contributions to Social Security and other supplemental benefits 11,857 Purchased fuels 14,018 Purchased transportation 30,379 Lease and rental 2,894 Insurance 5,617 Maintenance and repair 9,636 Depreciation 8,948 Taxes and licenses 3,931 Drug and alcohol testing and rehabilitation programs 98 Other operating expenses 22,007 SPECIALTY CARRIERS Operating Revenue Total 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,566 Purchased fuels </td <td>149,160 38,157 111,003 147,911 43,580 11,502 13,287 29,329 2,732 5,489 9,442 8,218 3,676 82 20,574</td> <td>135,383 34,086 101,297 135,144 39,889 10,745 12,119 26,678 2,545 5,097 8,542 7,450 3,351</td> <td>127,049 31,120 95,929 127,687 37,761 10,125 11,345 24,760 2,521 4,801 7,985 6,998 3,212</td> <td>117,732 27,281 90,451 118,855 36,012 9,393 10,203 22,507 2,501 4,637 7,138 6,610 2,839</td> <td>4.6 5.0 4.4 5.4 6.8 3.1 5.5 3.6 5.9 2.3 2.1 8.9 6.9</td> <td>10.2 11.9 9.6 9.4 9.3 7.0 9.6 9.9 7.3 7.7 10.5 10.3 9.7</td> <td>5.8 5.6 6.1 6.8 7.7 1.0 6.2 7.0 6.5</td> <td>7.9 14.1 6.1 7.4 4.9 7.8 11.2 10.0 0.8 3.5 11.9 5.9</td>	149,160 38,157 111,003 147,911 43,580 11,502 13,287 29,329 2,732 5,489 9,442 8,218 3,676 82 20,574	135,383 34,086 101,297 135,144 39,889 10,745 12,119 26,678 2,545 5,097 8,542 7,450 3,351	127,049 31,120 95,929 127,687 37,761 10,125 11,345 24,760 2,521 4,801 7,985 6,998 3,212	117,732 27,281 90,451 118,855 36,012 9,393 10,203 22,507 2,501 4,637 7,138 6,610 2,839	4.6 5.0 4.4 5.4 6.8 3.1 5.5 3.6 5.9 2.3 2.1 8.9 6.9	10.2 11.9 9.6 9.4 9.3 7.0 9.6 9.9 7.3 7.7 10.5 10.3 9.7	5.8 5.6 6.1 6.8 7.7 1.0 6.2 7.0 6.5	7.9 14.1 6.1 7.4 4.9 7.8 11.2 10.0 0.8 3.5 11.9 5.9
Local trucking	38,157 111,003 147,911 43,580 11,502 13,287 29,329 2,732 5,489 9,442 8,218 3,676 82 20,574	34,086 101,297 135,144 39,889 10,745 12,119 26,678 2,545 5,097 8,542 7,450 3,351	31,120 95,929 127,687 37,761 10,125 11,345 24,760 2,521 4,801 7,985 6,998 3,212	27,281 90,451 118,855 36,012 9,393 10,203 22,507 2,501 4,637 7,138 6,610 2,839	5.0 4.4 5.4 6.8 3.1 5.5 3.6 5.9 2.3 2.1 8.9 6.9	9.4 9.3 7.0 9.6 9.9 7.3 7.7 10.5 10.3 9.7	9.5 5.6 5.8 5.6 6.1 6.8 7.7 1.0 6.2 7.0 6.5	14.1 6.1 7.4 4.9 7.8 11.2 10.0 0.8 3.5 11.9
Doperating Expenses	111,003 147,911 43,580 11,502 13,287 29,329 2,732 5,489 9,442 8,218 3,676 82 20,574	101,297 135,144 39,889 10,745 12,119 26,678 2,545 5,097 8,542 7,450 3,351	95,929 127,687 37,761 10,125 11,345 24,760 2,521 4,801 7,985 6,998 3,212 53	90,451 118,855 36,012 9,393 10,203 22,507 2,501 4,637 7,138 6,610 2,839 39	4.4 5.4 6.8 3.1 5.5 3.6 5.9 2.3 2.1 8.9 6.9	9.6 9.4 9.3 7.0 9.6 9.9 7.3 7.7 10.5 10.3 9.7	5.6 5.8 5.6 6.1 6.8 7.7 1.0 6.2 7.0 6.5	7.4 4.9 7.8 11.2 10.0 0.8 3.5 11.9
Operating Expenses 155,920 Annual payroll 46,535 Employer contributions to Social Security and other supplemental benefits 11,857 Purchased fuels 14,018 Purchased transportation 30,379 Lease and rental 2,894 Insurance 5,617 Maintenance and repair 96,36 Depreciation 8,948 Taxes and licenses 3,931 Drug and alcohol testing and rehabilitation programs 98 Other operating expenses 22,007 SPECIALTY CARRIERS SPECIALTY CARRIERS Operating Revenue 38,411 Total 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 7,927	147,911 43,580 11,502 13,287 29,329 2,732 5,489 9,442 8,218 3,676 82 20,574	135,144 39,889 10,745 12,119 26,678 2,545 5,097 8,542 7,450 3,351	127,687 37,761 10,125 11,345 24,760 2,521 4,801 7,985 6,998 3,212	118,855 36,012 9,393 10,203 22,507 2,501 4,637 7,138 6,610 2,839	5.4 6.8 3.1 5.5 3.6 5.9 2.3 2.1 8.9 6.9	9.4 9.3 7.0 9.6 9.9 7.3 7.7 10.5 10.3 9.7	5.8 5.6 6.1 6.8 7.7 1.0 6.2 7.0 6.5	7.4 4.9 7.8 11.2 10.0 0.8 3.5 11.9 5.9
Total	43,580 11,502 13,287 29,329 2,732 5,489 9,442 8,218 3,676 82 20,574	39,889 10,745 12,119 26,678 2,545 5,097 8,542 7,450 3,351	37,761 10,125 11,345 24,760 2,521 4,801 7,985 6,998 3,212	36,012 9,393 10,203 22,507 2,501 4,637 7,138 6,610 2,839	6.8 3.1 5.5 3.6 5.9 2.3 2.1 8.9 6.9	9.3 7.0 9.6 9.9 7.3 7.7 10.5 10.3 9.7	5.6 6.1 6.8 7.7 1.0 6.2 7.0 6.5	4.9 7.8 11.2 10.0 0.8 3.5 11.9 5.9
Employer contributions to Social Security and other supplemental benefits 11,857 Purchased fuels 14,018 Purchased transportation 30,379 Lease and rental 2,894 Insurance 5,617 Maintenance and repair 9,636 Depreciation 8,948 Taxes and licenses 3,931 Drug and alcohol testing and rehabilitation programs 98 Other operating expenses 22,007 SPECIALTY CARRIERS 98 Operating Revenue 3,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses 70tal Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,317 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 903<	11,502 13,287 29,329 2,732 5,489 9,442 8,218 3,676 82 20,574	10,745 12,119 26,678 2,545 5,097 8,542 7,450 3,351	10,125 11,345 24,760 2,521 4,801 7,985 6,998 3,212	9,393 10,203 22,507 2,501 4,637 7,138 6,610 2,839	3.1 5.5 3.6 5.9 2.3 2.1 8.9 6.9	7.0 9.6 9.9 7.3 7.7 10.5 10.3 9.7	6.1 6.8 7.7 1.0 6.2 7.0 6.5	7.8 11.2 10.0 0.8 3.5 11.9 5.9
Employer contributions to Social Security and other supplemental benefits 11,857 Purchased fuels 14,018 Purchased transportation 30,379 Lease and rental 2,894 Insurance 5,617 Maintenance and repair 9,636 Depreciation 8,948 Taxes and licenses 3,931 Drug and alcohol testing and rehabilitation programs 98 Other operating expenses 22,007 SPECIALTY CARRIERS 98 Operating Revenue 3,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses 70tal Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,317 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 903<	11,502 13,287 29,329 2,732 5,489 9,442 8,218 3,676 82 20,574	10,745 12,119 26,678 2,545 5,097 8,542 7,450 3,351	10,125 11,345 24,760 2,521 4,801 7,985 6,998 3,212	9,393 10,203 22,507 2,501 4,637 7,138 6,610 2,839	3.1 5.5 3.6 5.9 2.3 2.1 8.9 6.9	7.0 9.6 9.9 7.3 7.7 10.5 10.3 9.7	6.1 6.8 7.7 1.0 6.2 7.0 6.5	7.8 11.2 10.0 0.8 3.5 11.9 5.9
Purchased fuels 14,018 Purchased transportation 30,379 Lease and rental 2,894 Insurance 5,617 Maintenance and repair 9,636 Depreciation 8,948 Taxes and licenses 3,931 Drug and alcohol testing and rehabilitation programs 98 Other operating expenses 22,007 SPECIALTY CARRIERS 98 Operating Revenue 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses 7 Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing an	13,287 29,329 2,732 5,489 9,442 8,218 3,676 82 20,574	12,119 26,678 2,545 5,097 8,542 7,450 3,351	11,345 24,760 2,521 4,801 7,985 6,998 3,212	10,203 22,507 2,501 4,637 7,138 6,610 2,839	5.5 3.6 5.9 2.3 2.1 8.9 6.9	9.6 9.9 7.3 7.7 10.5 10.3 9.7	6.8 7.7 1.0 6.2 7.0 6.5	11.2 10.0 0.8 3.5 11.9 5.9
Lease and rental 2,894 Insurance 5,617 Maintenance and repair 9,636 Depreciation 8,948 Taxes and licenses 3,931 Drug and alcohol testing and rehabilitation programs 98 Other operating expenses 22,007 SPECIALTY CARRIERS Operating Revenue Total 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 </td <td>2,732 5,489 9,442 8,218 3,676 82 20,574</td> <td>2,545 5,097 8,542 7,450 3,351</td> <td>2,521 4,801 7,985 6,998 3,212</td> <td>2,501 4,637 7,138 6,610 2,839</td> <td>5.9 2.3 2.1 8.9 6.9</td> <td>7.3 7.7 10.5 10.3 9.7</td> <td>1.0 6.2 7.0 6.5</td> <td>0.8 3.5 11.9 5.9</td>	2,732 5,489 9,442 8,218 3,676 82 20,574	2,545 5,097 8,542 7,450 3,351	2,521 4,801 7,985 6,998 3,212	2,501 4,637 7,138 6,610 2,839	5.9 2.3 2.1 8.9 6.9	7.3 7.7 10.5 10.3 9.7	1.0 6.2 7.0 6.5	0.8 3.5 11.9 5.9
Insurance	5,489 9,442 8,218 3,676 82 20,574	5,097 8,542 7,450 3,351	4,801 7,985 6,998 3,212	4,637 7,138 6,610 2,839	2.3 2.1 8.9 6.9	7.7 10.5 10.3 9.7	6.2 7.0 6.5	3.5 11.9 5.9
Maintenance and repair 9,636 Depreciation 8,948 Taxes and licenses 3,931 Drug and alcohol testing and rehabilitation programs 98 Other operating expenses 22,007 SPECIALTY CARRIERS 22,007 Operating Revenue 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased transportation 7,997 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	9,442 8,218 3,676 82 20,574	8,542 7,450 3,351 64	7,985 6,998 3,212	7,138 6,610 2,839	2.1 8.9 6.9	10.5 10.3 9.7	7.0 6.5	11.9 5.9
Depreciation 8,948 Taxes and licenses 3,931 Drug and alcohol testing and rehabilitation programs 98 Other operating expenses 22,007 SPECIALTY CARRIERS 22,007 Operating Revenue 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses 40,325 Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	8,218 3,676 82 20,574	7,450 3,351 64	6,998 3,212 53	6,610 2,839 39	8.9 6.9 19.5	10.3 9.7	6.5	5.9
Taxes and licenses 3,931 Drug and alcohol testing and rehabilitation programs 98 Other operating expenses 22,007 SPECIALTY CARRIERS Operating Revenue Total 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	3,676 82 20,574	3,351 64	3,212 53	2,839	6.9 19.5	9.7		
prögrams 98 Other operating expenses 22,007 SPECIALTY CARRIERS Operating Revenue 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	82 20,574			1		28.1		
Other operating expenses 22,007 SPECIALTY CARRIERS Operating Revenue 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	20,574			1		72.1	000	
SPECIALTY CARRIERS Operating Revenue Total 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased fuels 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327		.5,55	.5,125	,		10.2	20.8 3.0	35.9 6.8
Operating Revenue 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	41,205		1					
Total 42,944 Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses 40,325 Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	41,205	I						
Motor carrier 38,411 Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	71,200	38,335	36,729	34,884	4.2	7.5	4.4	5.3
Local trucking 20,353 Long-distance trucking 18,058 Operating Expenses Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	07.045							
Long-distance trucking 18,058 Operating Expenses 40,325 Total 40,325 Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,565 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	37,015 19,231	34,279 17,442	32,690 16,366	30,604 14,668	3.8 5.8	8.0 10.3	4.9 6.6	6.8 11.6
Total	17,784	16,837	16,324	15,936	1.5	5.6	3.1	2.4
Total								
Annual payroll 9,961 Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	38,403	35,902	34,101	32,072	5.0	7.0	5.3	6.3
Employer contributions to Social Security and other supplemental benefits 2,317 Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	9,349	8,735	8,362	8,126	6.5	7.0	4.5	2.9
Purchased fuels 2,566 Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	3,343	0,733	0,302	0,120	0.5	7.0	4.5	
Purchased transportation 7,977 Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue 122,327	2,283	2,042	1,973	1,876	1.5	11.8	3.5	5.2
Lease and rental 792 Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	2,498 7,906	2,314 7,586	2,111 6,805	1,923 6,093	2.7 0.9	8.0 4.2	9.6 11.5	9.8 11.7
Insurance 1,565 Maintenance and repair 2,818 Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue 122,327	7,900	7,380	711	715	3.5	6.4	1.1	-0.6
Depreciation 2,197 Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	1,577	1,473	1,383	1,328	-0.8	7.1	6.5	4.1
Taxes and licenses 803 Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	2,645	2,367	2,298	2,128	6.5	11.7	3.0	8.0
Drug and alcohol testing and rehabilitation programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	2,016	1,950	1,886	1,847	9.0	3.4	3.4	2.1
programs 25 Other operating expenses 9,304 GENERAL CARRIERS Operating Revenue Total 122,327	746	688	667	584	7.6	8.4	3.1	14.2
GENERAL CARRIERS Operating Revenue Total	23	18	15	11	8.7	27.8	20.0	36.4 6.0
Operating Revenue Total	8,595	8,010	7,890	7,441	8.2	7.3	1.5	6.0
Total								
	ll							
Motor carrier	116,705	105,266	98,708	91,888	4.8	10.9	6.6	7.4
	112,145	101,104	94,359	87,128	4.8	10.9	7.1	8.3
Local trucking 19,709 Long-distance trucking 97,851	18,926 93,219	16,644 84,460	14,754 79,605	12,613 74,515	4.1 5.0	13.7 10.4	12.8 6.1	17.0 6.8
Operating Expenses	93,219	84,400	7 9,003	74,313	3.0	10.4	0.1	0.0
	100 509	00.242	02 506	96 792	E 6	10.2	6.0	7.8
Total	109,508	99,242	93,586	86,783	5.6	10.3	6.0	
Annual payroll	34,231	31,154	29,399	27,886	6.8	9.9	6.0	5.4
other supplemental benefits 9,540	9,219	8,703	8,152	7,517	3.5	5.9	6.8	8.4
Purchased fuels	10,789	9,805	9,234	8,280	6.1	10.0	6.2	11.5
Purchased transportation	21,423	19,092	17,955	16,414	4.6 6.9	12.2 7.7	6.3 0.9	9.4 1.3
Lease and rental 2,102 Insurance 4,052	1,967 3,912	1,826 3,624	1,810 3,418	1,786 3,309	3.6	7.7	6.0	3.3
Maintenance and repair 6,818	6,797	6,175	5,687	5,010	0.3	10.1	8.6	13.5
Depreciation		5,500	5,112	4,763	8.9	12.8	7.6	7.3
Taxes and licenses	6,202	2,663	2,545	2,255	6.8	10.0	4.6	12.9
Drug and alcohol testing and rehabilitation programs		46	38	28	23.7	28.3	21.1	35.7
Other operating expenses	6,202	10,654	10,236	9,535	6.0	12.4	4.1	7.4

Note: Excludes private motor carriers that operate as auxiliary establishments to nontransportation companies and independent owner-operators with no paid employees. Detail may not add to total due to rounding. Estimates are not adjusted for price changes. Appendix A, table A-3 provides estimated measures of sampling variability (coefficients of variation).

Table 4. Trucking and Courier Services (SIC 421)—Components of Operating Expense Estimates, by Type of Carrier: 1991 Through 1995

					All c	arriers				
Item		N	fillions of dollar	s			Percent of	of total operating	expenses	
	1995	1994	1993	1992	1991	1995	1994	1993	1992	1991
Operating Expenses										
Total	155,920	147,911	135,144	127,687	118,855	100.0	100.0	100.0	100.0	100.0
Annual payroll	46,535	43,580	39,889	37,761	36,012	29.8	29.5	29.5	29.6	30.3
Employer contributions to Social Security and other supplemental benefits	11,857	11,502	10,745	10,125	9,393	7.6	7.8	8.0	7.9	7.9
Plans required under Federal and State legislation	6,435 5,422	6,169 5,333	5,739 5,006	5,467 4,658	5,070 4,323	4.1 3.5	4.2 3.6	4.2 3.7	4.3 3.6	4.3 3.6
Purchased fuels	14,018	13,287	12,119	11,345	10,203	9.0	9.0	9.0	8.9	8.6
Trucks, truck-tractors, and other motor vehicles	13,553 465	12,820 467	11,695 424	10,969 376	9,861 342	8.7 0.3	8.7 0.3	8.7 0.3	8.6 0.3	8.3 0.3
Purchased transportation	30,379	29,329	26,678	24,760	22,507	19.5	19.8	19.7	19.4	18.9
motor vehicles rented or leased with drivers	20,089	19,356	17,811	16,323	15,136	12.9	13.1	13.2	12.8	12.7
motor vehicles rented or leased without drivers	5,647	5,434	4,980	4,772	4,346	3.6	3.7	3.7	3.7	3.7
Transportation purchased from railroads, airlines, water, and other motor carriers	4,643	4,539	3,887	3,665	3,025	3.0	3.1	2.9	2.9	2.5
Lease and rental	2,894	2,732	2,545	2,521	2,501	1.9	1.8	1.9	2.0	2.1
Buildings, offices, and structures Machinery and equipment (other than	2,301	2,169	2,038	1,999	1,994	1.5	1.5	1.5	1.6	1.7
motor vehicles)	593	563	507	522	507	0.4	0.4	0.4	0.4	0.4
Insurance	5,617	5,489	5,097	4,801	4,637	3.6	3.7	3.8	3.8	3.9
insurance	3,408	3,352	3,137	2,928	2,766	2.2	2.3	2.3	2.3	2.3
vehicles and their cargos	1,864	1,816	1,664	1,589	1,579	1.2	1.2	1.2	1.2	1.3
and machinery and equipment (other than motor vehicles)	345	321	296	284	292	0.2	0.2	0.2	0.2	0.2
Maintenance and repair	9,636	9,442	8,542	7,985	7,138	6.2	6.4	6.3	6.3	6.0
Motor vehicle parts for self-repair Trucks, truck-tractors, trailers, and other	5,456	5,424	4,964	4,801	4,512	3.5	3.7	3.7	3.8	3.8
motor vehicles	3,256 403	3,142 378	2,777 323	2,457 275	1,841 308	2.1 0.3	2.1 0.3	2.1 0.2	1.9 0.2	1.5 0.3
Machinery and equipment (other than motor vehicles)	521	498	478	452	477	0.3	0.3	0.4	0.4	0.4
Depreciation	8,948	8,218	7,450	6,998	6,610	5.7	5.6	5.5	5.5	5.6
Trucks, truck-tractors, trailers, and other motor vehicles	6,971 972	6,388 883	5,725 828	5,343 779	4,996 778	4.5 0.6	4.3 0.6	4.2 0.6	4.2 0.6	4.2 0.7
Machinery and equipment (other than motor vehicles)	1,005	947	897	876	836	0.6	0.6	0.7	0.7	0.7
Taxes and licenses	3,931	3,676	3,351	3,212	2,839	2.5	2.5	2.5	2.5	2.4
Drug and alcohol testing and rehabilitation programs	98	82	64	53	39	0.1	0.1	(Z)	(Z)	(Z)
Other operating expenses	22,007	20,574	18,664	18,126	16,976	14.1	13.9	13.8	14.2	14.3

See footnotes at end of table.

Table 4. Trucking and Courier Services (SIC 421)—Components of Operating Expense Estimates, by Type of Carrier: 1991 Through 1995—Continued

ltem		N	Millions of dollar	s			Percent of	of total operating	expenses	
	1995	1994	1993	1992	1991	1995	1994	1993	1992	1991
Operating Expenses										
Total	40,325	38,403	35,902	34,101	32,072	100.0	100.0	100.0	100.0	100.0
Annual payroll	9,961	9,349	8,735	8,362	8,126	24.7	24.3	24.3	24.5	25.3
Employer contributions to Social Security and other supplemental benefits	2,317	2,283	2,042	1,973	1,876	5.7	5.9	5.7	5.8	5.8
Plans required under Federal and State legislation	1,418 899	1,404 879	1,265 777	1,212 761	1,143 733	3.5 2.2	3.7 2.3	3.5 2.2	3.6 2.2	3.6 2.3
Purchased fuels	2,566	2,498	2,314	2,111	1,923	6.4	6.5	6.4	6.2	6.0
vehicles	2,441 125	2,379 119	2,204 110	2,018 93	1,851 72	6.1 0.3	6.2 0.3	6.1 0.3	5.9 0.3	5.8 0.2
Purchased transportation	7,977	7,906	7,586	6,805	6,093	19.8	20.6	21.1	20.0	19.0
motor vehicles rented or leased with drivers	6,213	6,089	5,697	5,104	4,842	15.4	15.9	15.9	15.0	15.1
motor vehicles rented or leased without drivers	1,226	1,256	1,289	1,096	874	3.0	3.3	3.6	3.2	2.7
Transportation purchased from railroads, airlines, water, and other motor carriers	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Lease and rental	792	765	719	711	715	2.0	2.0	2.0	2.1	2.2
Buildings, offices, and structures	614	590	568	547	556	1.5	1.5	1.6	1.6	1.7
Machinery and equipment (other than motor vehicles)	178	175	151	164	159	0.4	0.5	0.4	0.5	0.5
Insurance	1,565	1,577	1,473	1,383	1,328	3.9	4.1	4.1	4.1	4.1
insurance for loss of, or damage to, motor	829	873	818	741	745	2.1	2.3	2.3	2.2	2.3
vehicles and their cargos	627	594	550	539	482	1.6	1.5	1.5	1.6	1.5
and machinery and equipment (other than motor vehicles)	109	110	105	103	101	0.3	0.3	0.3	0.3	0.3
Maintenance and repair	2,818 1,452	2,645 1,367	2,367 1,190	2,298 1,253	2,128 1,199	7.0 3.6	6.9 3.6	6.6 3.3	6.7 3.7	6.6 3.7
Trucks, truck-tractors, trailers, and other motor vehicles	1.029	970	886	789	622	2.6	2.5	2.5	2.3	1.9
Buildings, offices, and structures	133	120	104	93	106	0.3	0.3	0.3	0.3	0.3
motor vehicles)	204	188	187	163	201	0.5	0.5	0.5	0.5	0.6
Depreciation	2,197	2,016	1,950	1,886	1,847	5.4	5.2	5.4	5.5	5.8
Trucks, truck-tractors, trailers, and other motor vehicles	1,701 179	1,523 174	1,503 158	1,449 149	1,380 166	4.2 0.4	4.0 0.5	4.2 0.4	4.2 0.4	4.3 0.5
Machinery and equipment (other than motor vehicles)	317	319	289	288	301	0.8	0.8	0.8	0.8	0.9
Taxes and licenses	803	746	688	667	584	2.0	1.9	1.9	2.0	1.8
Drug and alcohol testing and rehabilitation programs	25	23	18	15	11	0.1	0.1	0.1	(Z)	(Z)
Other operating expenses	9,304	8,595	8,010	7,890	7,441	23.1	22.4	22.3	23.1	23.2

See footnotes at end of table.

Table 4. Trucking and Courier Services (SIC 421)—Components of Operating Expense Estimates, by Type of Carrier: 1991 Through 1995—Continued

					Genera	l carriers				
ltem		N	Millions of dollar	s			Percent of	of total operating	g expenses	
	1995	1994	1993	1992	1991	1995	1994	1993	1992	1991
Operating Expenses										
Total	115,595	109,508	99,242	93,586	86,783	100.0	100.0	100.0	100.0	100.0
Annual payroll	36,574	34,231	31,154	29,399	27,886	31.6	31.3	31.4	31.4	32.1
Employer contributions to Social Security and other supplemental benefits	9,540	9,219	8,703	8,152	7,517	8.3	8.4	8.8	8.7	8.7
Plans required under Federal and State legislation	5,017 4,523	4,765 4,454	4,474 4,229	4,255 3,897	3,927 3,590	4.3 3.9	4.4 4.1	4.5 4.3	4.5 4.2	4.5 4.1
Purchased fuels	11,452	10,789	9,805	9,234	8,280	9.9	9.9	9.9	9.9	9.5
Trucks, truck-tractors, and other motor	,		•							
vehicles	11,112 340	10,441 348	9,491 314	8,951 283	8,010 270	9.6 0.3	9.5 0.3	9.6 0.3	9.6 0.3	9.2 0.3
Purchased transportation	22,402	21,423	19,092	17,955	16,414	19.4	19.6	19.2	19.2	18.9
motor vehicles rented or leased with drivers	13,876	13,267	12,114	11,219	10,294	12.0	12.1	12.2	12.0	11.9
motor vehicles rented or leased without drivers	4,421	4,178	3,691	3,676	3,472	3.8	3.8	3.7	3.9	4.0
Transportation purchased from railroads, airlines, water, and other motor carriers	4,105	3,978	3,287	3,060	2,648	3.6	3.6	3.3	3.3	3.1
Lease and rental	2,102	1,967	1,826	1,810	1,786	1.8	1.8	1.8	1.9	2.1
Buildings, offices, and structures	1,687	1,579	1,470	1,452	1,438	1.5	1.4	1.5	1.6	1.7
Machinery and equipment (other than motor vehicles)	415	388	356	358	348	0.4	0.4	0.4	0.4	0.4
Insurance	4,052	3,912	3,624	3,418	3,309	3.5	3.6	3.7	3.7	3.8
Public liability and property damage insurance	2,579	2,479	2,319	2,187	2,021	2.2	2.3	2.3	2.3	2.3
Insurance for loss of, or damage to, motor vehicles and their cargos	1,237	1,222	1,114	1,050	1,097	1.1	1.1	1.1	1.1	1.3
Insurance for buildings, offices, structures, and machinery and equipment (other than motor vehicles)	236	211	191	181	191	0.2	0.2	0.2	0.2	0.2
Maintenance and repair	6,818	6,797	6,175	5,687	5,010	5.9	6.2	6.2	6.1	5.8
Motor vehicle parts for self-repair	4,004	4,057	3,774	3,548	3,313	3.5	3.7	3.8	3.8	3.8
Trucks, truck-tractors, trailers, and other motor vehicles	2,227	2,172	1,891	1,668	1,219	1.9	2.0	1.9	1.8	1.4
Buildings, offices, and structures	270	258	219	182	202	0.2	0.2	0.2	0.2	0.2
motor vehicles)	317	310	291	289	276	0.3	0.3	0.3	0.3	0.3
Depreciation	6,751	6,202	5,500	5,112	4,763	5.8	5.7	5.5	5.5	5.5
Trucks, truck-tractors, trailers, and other motor vehicles	5,270	4,865	4,222	3,894	3,616	4.6	4.4	4.3	4.2	4.2
Buildings, offices, and structures	793	709	670	630	612	0.7	0.6	0.7	0.7	0.7
Machinery and equipment (other than motor vehicles)	688	628	608	588	535	0.6	0.6	0.6	0.6	0.6
Taxes and licenses	3,128	2,930	2,663	2,545	2,255	2.7	2.7	2.7	2.7	2.6
Drug and alcohol testing and rehabilitation programs	73	59	46	38	28	0.1	0.1	(Z)	(Z)	(Z)
Other operating expenses	12,703	11,979	10,654	10,236	9,535	11.0	10.9	10.7	10.9	11.0

Z Less than .05 percent. S Data do not meet publication standards because of high sampling variability or poor response quality. Some unpublished estimates can be derived from this table by subtracting published data from their respective totals. However, the figures obtained by such subtraction are subject to these same limitations. These unpublished data are for internal use only.

Note: Excludes private motor carriers that operate as auxiliary establishments to nontransportation companies and independent owner-operators with no paid employees. Detail may not add to total due to rounding. Estimates are not adjusted for price changes. Appendix A, table A-4 provides estimated measures of sampling variability (coefficients of variation).

Table 5. Trucking and Courier Services (SIC 421)—Estimated Motor Carrier Revenue, by Size of Shipments, Commodities Handled, and Origin and Destination of Shipments: 1991 Through 1995

		Milli	ons of do	ollars			Percent	change		Perce	ent of tota	al motor o	carrier re	venue
Item	1995	1994	1993	1992	1991	1995/ 1994	1994/ 1993	1993/ 1992	1992/ 1991	1995	1994	1993	1992	1991
Total Motor Carrier Revenue	155,971	149,160	135,383	127,049	117,732	4.6	10.2	6.6	7.9	100.0	100.0	100.0	100.0	100.0
Size of Shipments														
Less-than-truckload Truckload	,	55,445 93,715	52,075 83,308	49,119 77,930	46,626 71,106	4.9 4.4	6.5 12.5	6.0 6.9	5.3 9.6	37.3 62.7	37.2 62.8	38.5 61.5	38.7 61.3	39.6 60.4
Commodities Handled														
Agricultural and food products	23,156	21,795	19,941	19,390	17,850	6.2	9.3	2.8	8.6	14.8	14.6	14.7	15.3	15.2
unrefined Building materials	3,125 8,502	2,631 8,904	2,259 8,477	1,890 7,247	1,748 5,966	18.8 -4.5	16.5 5.0	19.5 17.0	8.1 21.5	2.0 5.5	1.8 6.0	1.7 6.3	1.5 5.7	1.5 5.1
Forestry, wood, and paper products	11,613	10,959	9,304	8,441	7,559	6.0	17.8	10.2	11.7	7.4	7.3	6.9	6.6	6.4
products Petroleum and petroleum	7,431	7,049	6,607	6,350	6,071	5.4	6.7	4.0	4.6	4.8	4.7	4.9	5.0	5.2
products	3,888	4,044	3,746	3,734	3,954	-3.9	8.0	0.3	- 5.6	2.5	2.7	2.8	2.9	3.4
products Household goods Other manufactured	14,085 10,886	13,193 9,772	12,018 8,647	11,038 8,144	10,697 7,416	6.8 11.4	9.8 13.0	8.9 6.2	3.2 9.8	9.0 7.0	8.8 6.6	8.9 6.4	8.7 6.4	9.1 6.3
products Other goods	21,818 51,467	21,842 48,971	18,696 45,688	17,109 43,706	15,733 40,738	-0.1 5.1	16.8 7.2	9.3 4.5	8.7 7.3	14.0 33.0	14.6 32.8	13.8 33.7	13.5 34.4	13.4 34.6
Origin and Destination of Shipments														
U.S. to U.S	153,642 889 696 744	147,045 789 664 663	(NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA)	4.5 12.7 4.8 12.2	(NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA)	98.5 0.6 0.4 0.5	98.6 0.5 0.4 0.4	(NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA)

NA Not available.

Note: Excludes private motor carriers that operate as auxiliary establishments to nontransportation companies and independent owner-operators with no paid employees. Detail may not add to total due to rounding. Estimates are not adjusted for price changes. Appendix A, table A-5 provides estimated measures of sampling variability (coefficients of variation).

Table 6. Trucking and Courier Services (SIC 421)—Estimated Inventories of Revenue Generating Equipment, by Type of Carrier, as of December 31: 1991 Through 1995

Fundament		All carriers		Sp	ecialty carrie	ers	G	Seneral carrie	ers
Equipment	Total	Owned	Leased	Total	Owned	Leased	Total	Owned	Leased
Trucks									
Units (Thousands)									
1995 1994 1993 1992	295 287 260 246 235	252 247 224 211 197	(S) (S) (S) (S) 38	154 147 131 112 103	124 120 105 89 79	(S) (S) (S) (S) 24	141 140 129 134 132	128 127 119 122 118	13 13 10 12 14
Percent change									
1995/1994 1994/1993 1993/1992 1992/1991	2.8 10.4 5.7 4.7	2.0 10.3 6.2 7.1	(S) (S) (S) (S)	4.8 12.2 17.0 8.7	3.3 14.3 18.0 12.7	(S) (S) (S) (S)	0.7 8.5 -3.7 1.5	0.8 6.7 -2.5 3.4	0.0 30.0 -16.7 -14.3
Truck-tractors									
Units (Thousands)									
1995 1994 1993 1992	758 681 622 575 538	593 535 491 453 430	165 146 131 122 108	150 133 129 110 110	117 103 100 85 86	33 30 29 25 24	608 548 493 465 428	476 432 391 368 344	132 116 102 97 84
Percent change									
1995/1994	11.3 9.5 8.2 6.9	10.8 9.0 8.4 5.3	13.0 11.5 7.4 13.0	12.8 3.1 17.3 0.0	13.6 3.0 17.6 –1.2	10.0 3.4 16.0 4.2	10.9 11.2 6.0 8.6	10.2 10.5 6.3 7.0	13.8 13.7 5.2 15.5
Trailers (Full and semi)									
Units (Thousands)									
1995	1,583 1,456 1,337 1,276 1,227	1,316 1,227 1,118 1,055 1,018	267 229 219 221 209	222 212 200 202 210	183 178 170 175 182	39 34 30 27 28	1,361 1,244 1,137 1,074 1,017	1,133 1,049 948 880 836	228 195 189 194 181
Percent change									
1995/1994 1994/1993 1993/1992 1992/1991	8.7 8.9 4.8 4.0	7.3 9.7 6.0 3.6	16.6 4.6 -0.9 5.7	4.7 6.0 -1.0 -3.8	2.8 4.7 -2.9 -3.8	14.7 13.3 11.1 -3.6	9.4 9.4 5.9 5.6	8.0 10.7 7.7 5.3	16.9 3.2 –2.6 7.2

S Data do not meet publication standards because of high sampling variability or poor response quality. Some unpublished estimates can be derived from this table by subtracting published data from their respective totals. However, the figures obtained by such subtraction are subject to these same limitations. These unpublished data are for internal use only.

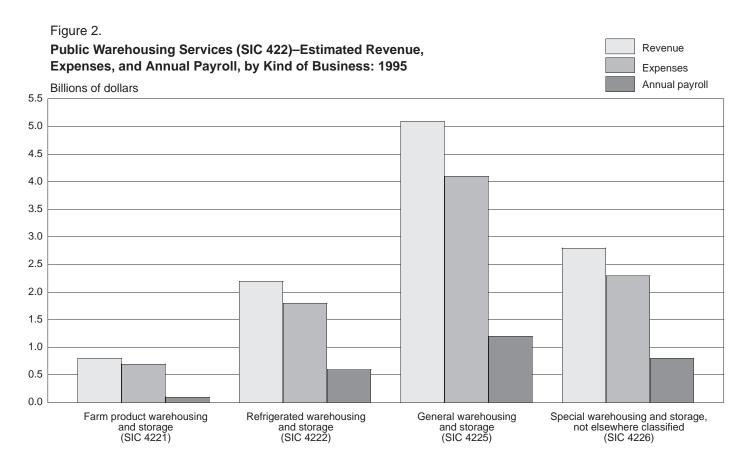
Note: Excludes private motor carriers that operate as auxiliary establishments to nontransportation companies and independent owner-operators with no paid employees. Detail may not add to total due to rounding. Estimates are not adjusted for price changes. Appendix A, table A-6 provides estimated measures of sampling variability (coefficients of variation).

Public Warehousing Services

Summary of Data

Total operating revenue for public warehousing services (SIC 422) increased 10.4 percent from 1994 to \$10.9 billion. Total operating expenses rose 10.3 percent to \$9.1 billion. Annual payroll was up 10 percent to 2.8 billion and represented more than 30 percent of the warehousing industry's total operating expenses.

More than 46 percent of all public warehousing services revenue (SIC 422) was from general warehousing and storage (SIC 4225). Revenue from refrigerated warehousing and storage (SIC 4222) increased 15.3 percent to \$2.3 billion. It accounted for more than 20 percent of the warehousing industry's total operating revenue in 1995. Total operating revenue in 1995 for farm product warehousing and storage (SIC 4221) represents approximately 7.1 percent of the warehousing industry's total operating revenue.



Note: See appendix A, table A-7 for estimated measures of sampling variability (coefficients of variation). Estimates are not adjusted for price changes. Expenses include annual payroll.

Source: U.S. Bureau of the Census, Motor Freight Transportation and Warehousing Survey: 1995

Table 7. Public Warehousing Services (SIC 422)—Estimated Operating Revenue and Expenses, by Kind of Business: 1991 Through 1995

						O					
						Operating	expenses				
Item	Total operating revenue	Total operating expenses	Annual payroll	Employer contribu- tions to Social Security and other supple- mental benefits	Purchased fuels	Lease and rental	Insurance	Purchased repairs	Deprecia- tion	Taxes and licenses	Other operating expenses
Public Warehousing and Storage (SIC 422)											
Millions of dollars											
1995 1994 1993 1992 1991 Percent change	10,941 9,911 9,056 8,329 7,440	9,120 8,271 7,622 7,041 6,375	2,794 2,540 2,364 2,127 1,896	627 596 561 520 466	125 123 115 101 93	1,224 1,078 967 889 836	213 195 181 170 157	388 348 310 278 258	735 668 643 612 569	298 285 264 233 206	2,716 2,438 2,217 2,111 1,894
1995/1994	10.4 9.4	10.3 8.5	10.0 7.4	5.2 6.2	1.6 7.0	13.5 11.5	9.2 7.7	11.5 12.3	10.0 3.9	4.6 8.0	11.4 10.0
1993/1992	8.7	8.3	11.1	7.9	13.9	8.8	6.5	11.5	5.1	13.3	5.0
1992/1991	11.9	10.4	12.2	11.6	8.6	6.3	8.3	7.8	7.6	13.1	11.5
Millions of dollars											
1995 1994 1993 1992 1991	781 773 718 656 566	667 652 615 573 505	160 152 144 129 116	40 39 38 36 32	18 18 17 16 14	49 45 40 36 34	25 24 22 22 18	33 33 30 29 27	47 45 46 43 38	20 20 19 18 14	275 276 259 244 212
Percent change 1995/1994	1.0 7.7	2.3 6.0	5.3 5.6	2.6 2.6	0.0 5.9	8.9 12.5	4.2 9.1	0.0 10.0	4.4 -2.2	0.0 5.3	-0.4 6.6
1993/1992	9.5 15.9	7.3 13.5	11.6 11.2	5.6 12.5	6.3 14.3	11.1 5.9	0.0 22.2	3.4 7.4	7.0 13.2	5.6 28.6	6.1 15.1
Refrigerated Warehousing and Storage (SIC 4222)											
Millions of dollars 1995	2,271 1,970 1,805 1,745 1,554	1,879 1,667 1,541 1,482 1,328	599 522 488 464 423	139 135 128 131 111	26 26 27 27 22	145 132 127 124 104	38 35 32 28 26	95 78 68 66 62	202 195 179 170 150	49 48 45 45 41	586 496 447 427 389
Percent change											
1995/1994 1994/1993	15.3 9.1 3.4 12.3	12.7 8.2 4.0 11.6	14.8 7.0 5.2 9.7	3.0 5.5 –2.3 18.0	0.0 -3.7 0.0 22.7	9.8 3.9 2.4 19.2	8.6 9.4 14.3 7.7	21.8 14.7 3.0 6.5	3.6 8.9 5.3 13.3	2.1 6.7 0.0 9.8	18.1 11.0 4.7 9.8
(SIC 4225)											
Millions of dollars 1995	5,060 4,652 4,352 3,919 3,568	4,183 3,803 3,597 3,242 3,022	1,278 1,170 1,120 983 885	282 265 256 226 208	39 39 38 30 32	701 621 591 544 524	86 78 73 70 66	155 139 124 103 97	279 231 235 216 215	147 133 120 104 93	1,216 1,127 1,040 966 902
Percent change 1995/1994	8.8 6.9 11.0	10.0 5.7 11.0	9.2 4.5 13.9	6.4 3.5 13.3	0.0 2.6 26.7	12.9 5.1 8.6	10.3 6.8 4.3	11.5 12.1 20.4	20.8 -1.7 8.8	10.5 10.8 15.4	7.9 8.4 7.7
1992/1991	9.8	7.3	11.1	8.7	-6.3	3.8	6.1	6.2	0.5	11.8	7.1
(SIC 4226)											
Millions of dollars 1995	2,829 2,516 2,181 2,009 1,752	2,391 2,149 1,869 1,744 1,520	757 696 612 551 472	166 157 139 127 115	42 40 33 28 25	329 280 209 185 174	64 58 54 50 47	105 98 88 80 72	207 197 183 183 166	82 84 80 66 58	639 539 471 474 391
Percent change 1995/1994	12.4 15.4 8.6 14.7	11.3 15.0 7.2 14.7	8.8 13.7 11.1 16.7	5.7 12.9 9.4 10.4	5.0 21.2 17.9 12.0	17.5 34.0 13.0 6.3	10.3 7.4 8.0 6.4	7.1 11.4 10.0 11.1	5.1 7.7 0.0 10.2	-2.4 5.0 21.2 13.8	18.6 14.4 -0.6 21.2

Note: Detail may not add to total due to rounding. Estimates are not adjusted for price changes. Appendix A, table A-7 provides estimated measures of sampling variability (coefficients of variation).

Appendix A. Measures of Sampling Variability

RELIABILITY OF DATA

There are two types of errors possible in an estimate based on a sample survey—sampling and nonsampling. Sampling errors occur because observations are made on a sample, not on the entire population. Nonsampling errors can be attributed to many sources in the collection and processing of the data. The accuracy of a survey result is determined by the joint effect of sampling and nonsampling errors.

MEASURES OF SAMPLING VARIABILITY

Because the estimates were based on a sample, exact agreement with the results that would be obtained from a complete census of the trucking and warehousing industries using the same enumeration procedure was not expected. However, because each firm in the United States in the specified Standard Industrial Classifications (SIC's) had a chance of being selected for the sample and because the probability of selection for each firm in the sample was known, it was possible to estimate the sampling variability of the estimates made from the sample.

The standard error of the estimate is a measure of the variability among the estimates from all possible samples of the same size and design and, thus, is a measure of the precision with which an estimate from a particular sample approximates the results of a complete enumeration. The coefficient of variation (expressed as a percent) is the standard error of the estimate times 100 percent divided by the value being estimated. Note that measures of sampling variability, such as the standard error or coefficient of variation, are estimated from the sample and are also subject to sampling variability. Coefficients of variation for dollar volume estimates and year-to-year ratios are shown in tables A-1 through A-7 in this appendix.

The coefficients of variation presented in these tables permit certain confidence statements about the sample estimates. The particular sample used in this survey was one of a large number of samples of the same size that could have been selected using the same design. In about two out of three of these samples, the estimates would differ from a complete enumeration by less than the corresponding percentages for that estimate shown in the sampling variability tables. In about 9 out of 10 of these samples, the estimates would differ from the results of a complete enumeration by less than 1.65 times the percentages shown.

To illustrate the computations involved in the above confidence statements as related to dollar volume estimates, assume that an estimate of revenue published in table 1 of this publication is \$10.7 million for a particular year and that the coefficient of variation for this estimate, as given in table A-1 of this appendix, is 1.8 percent or 0.018. Multiplying \$10.7 million by 0.018 yields \$193 thousand. Therefore, a 67-percent confidence interval is \$10.5 million to \$10.9 million (\$10.7 million plus or minus \$193 thousand). If corresponding confidence intervals were constructed for all possible samples of the same size and design, approximately 2 out of 3 (67 percent) of the intervals would contain the figure obtained from a complete enumeration. Typical practice is to construct a 90- or 95-percent confidence interval. Using the same illustration, a 90-percent confidence interval would be \$10.4 million to \$11.2 million (\$10.7 million plus or minus \$318 thousand. The \$318 thousand is computed by multiplying \$10.7 million by 0.018 by 1.65).

NONSAMPLING ERRORS

As calculated for this report, the coefficient of variation measures sampling errors but does not measure all non-sampling error in the data. Nonsampling error consists of both a variance component and a bias component. Bias is the difference, averaged over all possible samples of the same size and design, between the estimate and the true value being estimated.

Nonsampling errors can be attributed to many sources: (1) inability to obtain information about all cases in the sample, (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses.

Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

The major source of bias in the published estimates is due to imputing for nonrespondents, for late reporters, and for data which failed edit. For all kinds of business combined, imputed revenue amounts to about 17 percent of the national revenue estimates.

Table A-1. Motor Freight Transportation and Warehousing Services (SIC 42)—Estimated Coefficients of Variation for Summary Statistics, by Kind of Business: 1994 and 1995

						1					
ltem	Motor freight transpor- tation and ware- housing services (SIC 42)	Trucking and courier services, except by air (SIC 421)	Local trucking without storage (SIC 4212)	Trucking, except local (SIC 4213)	Local trucking with storage (SIC 4214)	Courier services, except by air (SIC 4215)	Public ware- housing and storage (SIC 422)	Farm product ware- housing and storage (SIC 4221)	Refriger- ated ware- housing and storage (SIC 4222)	General ware- housing and storage (SIC 4225)	Special ware- housing and storage (SIC 4226)
Total Operating Revenue											
Dollar volume											
1995 1994	1.9 1.7	2.0 1.8	4.5 4.0	2.6 2.4	11.7 12.2	4.1 3.8	4.4 4.0	9.7 7.9	4.8 4.9	8.3 7.0	6.9 7.7
Year-to-year ratio 1995/1994	0.8	0.9	2.8	0.9	4.4	0.8	1.5	3.0	2.9	2.9	1.7
Total Operating Expenses											
Dollar volume											
1995 1994	1.9 1.8	2.0 1.9	4.8 4.2	2.5 2.4	12.4 12.2	4.0 3.8	4.5 4.1	11.0 9.0	4.6 4.1	8.4 7.5	7.4 7.5
Year-to-year ratio 1995/1994	0.8	0.9	2.7	0.9	3.6	0.8	1.3	3.7	2.7	2.4	1.6
Annual Payroll											
Dollar volume											
1995 1994	1.9 1.6	2.0 1.7	5.3 4.3	2.6 2.2	12.6 13.3	3.1 2.7	3.5 3.6	11.5 9.6	4.4 3.9	4.6 4.9	9.7 9.6
Year-to-year ratio 1995/1994	0.9	1.0	3.5	1.0	4.2	0.9	1.5	4.6	3.2	2.4	2.6
Employer Contributions to Social Security and Other Supplemental Benefits											
Dollar volume											
1995 1994	2.0 1.7	2.1 1.8	6.7 5.4	2.8 2.4	16.0 14.6	2.7 2.6	2.9 3.4	10.7 9.3	4.3 4.7	4.0 3.5	7.4 10.3
Year-to-year ratio 1995/1994	1.0	1.0	4.6	0.9	5.7	0.4	1.9	4.8	1.8	3.0	4.3

Table A-2. Trucking and Courier Services (SIC 421)—Estimated Coefficients of Variation for Operating Revenue and Expenses for All Carriers, by Kind of Business: 1994 and 1995

	All carriers (Dollar volume)											
Item	Trucking and courier services, except by air (SIC 421)		Local trucking without storage (SIC 4212)		Trucking, except local (SIC 4213)		Local trucking with storage (SIC 4214)		Courier services, except by air (SIC 4215)			
	1995	1994	1995	1994	1995	1994	1995	1994	1995	1994		
Operating Revenue												
Total	2.0	1.8	4.5	4.0	2.6	2.4	11.7	12.2	4.1	3.8		
Motor carrier	2.2 4.1 2.4	1.9 3.2 2.2	5.3 5.8 9.9	4.1 3.9 8.7	2.8 5.4 2.9	2.6 6.2 2.7	12.4 13.6 17.7	12.9 13.0 18.4	4.0 18.5 3.3	3.8 18.2 3.4		
Operating Expenses												
Total	2.0	1.9	4.8	4.2	2.5	2.4	12.4	12.2	4.0	3.8		
Annual payroll	2.0	1.7	5.3	4.3	2.6	2.2	12.6	13.3	3.1	2.7		
benefits	2.1	1.8	6.7	5.4	2.8	2.4	16.0	14.6	2.7	2.6		
Purchased fuels	3.5	3.1	7.4	6.0	4.5	4.1	20.5	20.3	6.8	6.7		
Purchased transportationLease and rental	2.9 3.1	3.1 3.3	9.9 6.2	10.9 5.2	2.9 4.8	3.1 5.6	13.4 15.1	14.3 14.9	12.2 4.9	12.4 4.2		
Insurance	3.0	2.8	7.1	6.0	3.5	3.3	13.1	14.8	9.4	8.6		
Maintenance and repair	3.0	2.7	6.7	5.5	3.3	3.5	15.8	15.4	5.7	5.4		
Depreciation	3.6 2.9	3.4 3.0	8.7 6.4	6.4 6.2	4.5 3.7	4.8 4.0	22.7 13.6	21.7 13.6	4.2 3.5	3.9 3.8		
Drug and alcohol testing and rehabilitation programs Other operating expenses	7.8 2.6	6.1 2.6	9.1 5.1	15.9 5.6	10.2 3.2	4.6 3.1	(S) 15.4	(S) 14.1	(S) 5.7	(S) 5.7		

S Data do not meet publication standards because of high sampling variability or poor response quality.

Table A-3. Trucking and Courier Services (SIC 421)—Estimated Coefficients of Variation for Operating Revenue and Expenses, by Type of Carrier: 1994 and 1995

ltem .	Dollar	volume	
пеш	1995	1994	Year-to-year ratio 1995/1994
ALL CARRIERS			
Operating Revenue			
Total	2.0	1.8	0.9
Motor carrier	2.2	1.9	0.9
Local trucking	4.1 2.4	3.2 2.2	2.8 0.8
Operating Expenses			
Total	2.0	1.9	0.9
Annual payroll	2.0 2.1 3.5	1.7 1.8 3.1	1.0 1.0 1.3
Purchased transportation	2.9	3.1	1.7
Lease and rental	3.1 3.0	3.3	1.6
Maintenance and repair	3.0	2.7	1.5
Depreciation	3.6	3.4	1.3
Taxes and licenses Drug and alcohol testing and rehabilitation programs Other operating expenses	2.9 7.8 2.6	3.0 6.1 2.6	1.3 7.2 1.3
SPECIALTY CARRIERS			
Operating Revenue			
Total	3.8	3.5	1.7
Motor carrier	3.9	3.3	2.0
Local trucking Long-distance trucking	4.4 6.2	4.3 5.2	3.3 1.7
Operating Expenses			
Total	3.8	3.5	1.5
Annual payroll Employer contributions to Social Security and other supplemental benefits Purchased fuels Purchased transportation Lease and rental Insurance Maintenance and repair Depreciation Taxes and licenses Drug and alcohol testing and rehabilitation programs Other operating expenses	5.0 4.7 6.2 5.3 6.1 5.6 4.6 4.7 5.8 8.6	4.7 5.2 5.2 5.8 6.1 4.9 4.2 4.2 5.1 9.4	2.2 3.4 2.4 3.3 2.4 2.5 2.1 2.6 3.4 6.5
GENERAL CARRIERS			
Operating Revenue			
Total	2.8	2.7	0.8
Motor carrier	2.9 6.9 2.9	2.7 5.9 2.7	0.8 3.6 0.9
Operating Expenses			
Total	2.8	2.7	0.9
Annual payroll	2.5 2.5 4.7 4.1	2.2 2.2 4.4 4.5	0.9 0.8 1.4 1.7
Lease and rental	4.4	4.6	2.0
Insurance	4.3 4.6 5.1	4.1 4.2 4.9	1.5 1.8 1.6
Taxes and licenses Drug and alcohol testing and rehabilitation programs Other operating expenses	3.9 10.4 4.8	4.1 8.5 4.8	1.5 9.2 1.8

Table A-4. Trucking and Courier Services (SIC 421)—Estimated Coefficients of Variation for Components of Operating Expenses, by Type of Carrier: 1994 and 1995

		All ca	rriers			Specialty	carriers		General carriers			
Item	Dollar volume			of total expenses	Dollar	volume	Percent of total operating expenses		Dollar volume		Percent of total operating expenses	
	1995	1994	1995	1994	1995	1994	1995	1994	1995	1994	1995	1994
Operating Expenses												
Total	2.0	1.9	(X)	(X)	3.8	3.5	(X)	(X)	2.8	2.7	(X)	(X)
Annual payroll	2.0	1.7	1.3	1.3	5.0	4.7	2.9	2.8	2.5	2.2	2.2	2.3
Employer contributions to Social Security and other supplemental benefits	2.1	1.8	1.7	1.6	4.7	5.2	3.2	3.5	2.5	2.2	2.6	2.6
Plans required under Federal and	2.5	2.2	2.0	1.8	5.4	5.5	3.8	3.7	2.9	2.7	2.7	2.7
State legislation	1.9	1.7	1.8	1.8	4.7	6.2	4.1	5.1 5.1	2.9	2.7	2.7	2.7
Purchased fuels	3.5	3.1	2.0	1.8	6.2	5.2	3.9	3.9	4.7	4.4	2.3	2.1
Trucks, truck-tractors, and other motor vehicles	3.6	3.2	2.1	1.9	6.3	5.3	4.1	4.0	4.8	4.5	2.4	2.2
Heat, power, and generating electricity	5.3	5.2	5.3	5.3	7.9	8.8	7.0	8.3	7.3	7.1	6.9	6.8
	2.9		2.2	2.2		5.8	4.2	4.5		4.5	2.9	3.1
Purchased transportation Trucks, truck-tractors, trailers, and other motor vehicles rented or leased with drivers	4.3	3.1 4.5	3.6	3.7	5.3	6.8	5.3	5.8	4.1 5.6	6.0	4.4	4.6
Trucks, truck-tractors, trailers, and other motor vehicles rented or leased without drivers	9.0	8.9	8.8	9.0	10.2	10.6	9.4	10.1	11.5	11.6	11.0	11.2
Transportation purchased from railroads, airlines, water, and other motor carriers	3.8	4.5	4.0	4.2	(S)	(S)	(S)	(S)	3.9	4.6	4.3	4.8
Lease and rental	3.1	3.3	2.9	3.1	6.1	6.1	4.5	4.7	4.4	4.6	3.8	4.1
Buildings, offices, and structures	3.6	3.7	3.6	3.7	6.8	7.0	5.5	5.8	4.8	4.9	4.5	4.5
Machinery and equipment (other than motor vehicles)	4.9	4.3	4.0	3.8	7.9	8.6	6.7	7.6	6.6	6.3	5.5	5.5
Insurance	3.0	2.8	1.7	1.6	5.6	4.9	2.8	3.1	4.3	4.1	2.2	2.0
Public liability and property damage insurance	3.9	3.5	2.7	2.5	7.7	6.5	5.7	5.2	5.0	4.6	3.1	2.6
Insurance for loss of, or damage to, motor vehicles and their cargos	3.2	3.1	2.2	2.4	5.8	5.2	4.0	4.1	5.0	4.8	3.1	3.2
Insurance for buildings, offices, structures, and machinery and equipment (other than motor	6.6	7.4	6.7	7.0	42.2	42.4	44.4	44.0	9.0	40.0	0.4	10.5
vehicles)		7.1	6.7	7.3	12.2	12.1	11.1	11.0		10.2	9.1	
Maintenance and repair	3.0 3.4	2.7 3.4	1.8 2.4	1.6 2.5	4.6 6.0	4.2 5.5	2.8 5.4	3.4 5.6	4.6 4.6	4.2 4.7	2.4 2.7	2.1 3.0
Trucks, truck-tractors, trailers, and	3.4	3.4	2.4	2.5	0.0			5.0	4.0	4.7	2.1	
other motor vehicles	4.5	3.7	3.3	2.9	6.7	5.8	5.0	4.6	6.8	6.0	4.8	4.5
Buildings, offices, and structures Machinery and equipment (other than motor vehicles)	4.6 4.7	5.3 4.3	4.8 5.0	5.1 4.5	7.8 9.0	7.2 10.3	6.7 7.7	6.2 8.9	6.6 6.7	7.6 4.6	6.3	7.0 4.2
	3.6	3.4	2.3	2.0	4.7	4.2	3.4	3.0	5.1	4.9	2.8	2.8
Depreciation	4.4	4.0	3.0	2.0	5.6	4.2	4.5	4.1	5.1	5.6	3.6	3.5
Buildings, offices, and structures	2.6	2.3	2.6	1.9	6.6	6.4	4.6	5.0	4.0	3.8	3.9	3.4
Machinery and equipment (other than motor vehicles)	4.8	3.9	4.6	3.5	8.7	6.3	8.3	5.5	6.0	5.4	5.4	4.6
Taxes and licenses	2.9	3.0	2.0	1.9	5.8	5.1	3.7	3.9	3.9	4.1	2.4	2.2
Drug and alcohol testing and rehabilitation programs	7.8	6.1	7.0	5.1	8.6	9.4	7.3	8.2	10.4	8.5	9.1	6.8
Other operating expenses	2.6	2.6	1.7	1.9	4.5	4.2	2.9	2.9	4.8	4.8	3.0	3.2

X Not applicable.

Table A-5. Trucking and Courier Services (SIC 421)—Estimated Coefficients of Variation for Motor Carrier Revenue, by Size of Shipments, Commodities Handled, and Origin and Destination of Shipments: 1994 and 1995

Item	Dollar	volume	Voor to voor	Percent of total motor carrier revenue		
	1995	1994	Year-to-year ratio 1995/1994	1995	1994	
Total Motor Carrier Revenue	2.2	1.9	0.9	(X)	(X)	
Size of Shipments						
Less-than-truckload	2.6 3.1	2.5 2.6	0.9 1.3	2.4 1.5	2.2 1.3	
Commodities Handled						
Agricultural and food products Mining products, unrefined Building materials Forestry, wood, and paper products Chemicals and allied products Petroleum and petroleum products Metals and metal products Household goods Other manufactured products Other goods	4.8 17.3 6.1 6.7 4.9 8.2 6.5 6.2 4.6 2.1	4.5 16.4 8.8 5.1 5.3 8.6 6.3 6.2 4.6 2.1	2.4 5.9 6.2 3.5 2.5 3.8 2.1 3.9 1.8 1.0	3.9 17.4 5.8 5.9 4.8 8.2 5.7 5.6 3.5 2.0	3.7 16.5 8.8 4.5 5.4 8.6 5.9 5.8 3.4 2.0	
Origin and Destination of Shipments						
U.S. to U.S. U.S. to Canada Canada to U.S. Other	2.2 7.7 9.1 11.7	1.9 4.7 8.7 9.2	0.9 5.7 3.9 10.3	0.1 7.4 9.1 11.7	0.1 5.0 8.5 9.5	

X Not applicable.

Table A-6. Trucking and Courier Services (SIC 421)—Estimated Coefficients of Variation for Inventories of Revenue Generating Equipment, by Type of Carrier, as of December 31: 1994 and 1995

Facilitate		All carriers		Sp	ecialty carrie	ers	General carriers			
Equipment	Total	Owned	Leased	Total	Owned	Leased	Total	Owned	Leased	
Trucks										
Units										
1995	5.1 6.1	5.0 6.4	(S) (S)	8.4 11.4	8.5 12.2	(S) (S)	5.8 4.6	5.9 5.0	14.6 16.0	
Year-to-year ratio 1995/1994	3.9	4.0	(S)	6.8	7.6	(S)	2.8	2.6	16.1	
Truck-tractors										
Units										
1995	3.7 3.3	4.0 3.8	7.0 5.5	8.1 7.2	7.0 6.7	20.6 15.0	4.3 4.2	4.6 4.7	7.9 6.0	
Year-to-year ratio 1995/1994	1.9	2.0	4.3	2.9	3.4	9.6	2.1	2.2	4.9	
Trailers (Full and semi)										
Units										
1995	3.7 3.3	3.7 3.5	10.1 6.6	7.1 6.6	7.1 6.7	16.9 14.5	4.4 4.1	4.3 4.2	12.6 8.1	
Year-to-year ratio 1995/1994	1.5	1.2	6.1	3.7	3.8	11.5	1.6	1.3	7.0	

S Data do not meet publication standards because of high sampling variability or poor response quality.

Table A-7. Public Warehousing Services (SIC 422)—Estimated Coefficients of Variation for Operating Revenue and Expenses, by Kind of Business: 1994 and 1995

						Operating	expenses				
Item	Total oper- ating revenue	Total oper- ating expenses	Annual payroll	Employer contribu- tions to Social Security and other supple- mental benefits	Pur- chased fuels	Lease and rental	Insur- ance	Pur- chased repairs	Depre- ciation	Taxes and licenses	Other operating expenses
Public Warehousing and Storage (SIC 422)											
Dollar volume											
1995	4.4	4.5	3.5	2.9	6.9	8.1	6.1	5.0	6.6	7.4	6.1
1994	4.0 1.5	4.1	3.6 1.5	3.4	6.1	7.3	5.2 2.5	3.9 2.6	6.1	6.4	5.3
Year-to-year ratio 1995/1994	1.5	1.3	1.5	1.9	3.4	2.6	2.5	2.6	2.9	2.0	1.8
Farm Product Warehousing and Storage (SIC 4221)											
Dollar volume											
1995	9.7 7.9	11.0 9.0	11.5 9.6	10.7 9.3	10.9 8.2	12.8 9.4	9.4 7.6	10.4 6.2	11.9 11.2	9.5 7.4	14.7 11.4
Year-to-year ratio 1995/1994	3.0	3.7	4.6	4.8	4.0	8.4	4.4	5.8	4.0	3.4	5.0
Refrigerated Warehousing and Storage (SIC 4222)											
Dollar volume											
1995 1994	4.8 4.9	4.6 4.1	4.4 3.9	4.3 4.7	12.7 12.4	8.5 8.6	5.7 6.6	6.1 6.1	6.0 6.1	4.3 4.2	5.8 4.9
Year-to-year ratio 1995/1994	2.9	2.7	3.2	1.8	3.2	4.6	8.0	4.6	3.0	3.1	3.0
General Warehousing and Storage (SIC 4225)											
Dollar volume											
1995 1994	8.3 7.0	8.4 7.5	4.6 4.9	4.0 3.5	13.2 10.6	12.9 11.4	12.2 9.8	10.9 7.9	15.0 14.4	12.8 11.0	12.3 10.6
Year-to-year ratio 1995/1994	2.9	2.4	2.4	3.0	6.0	4.3	4.7	5.3	7.3	3.4	3.1
Special Warehousing and Storage (SIC 4226)											
Dollar volume											
1995 1994	6.9 7.7	7.4 7.5	9.7 9.6	7.4 10.3	13.9 13.0	11.3 11.6	10.9 10.1	6.3 6.3	10.0 10.0	14.1 12.9	7.7 6.1
Year-to-year ratio 1995/1994	1.7	1.6	2.6	4.3	8.1	2.4	1.8	2.7	1.6	2.7	3.3

Appendix B. Explanatory Material

DEFINITION OF TERMS

Firm

A firm is a business entity consisting of one or more domestic establishments/locations under common ownership or control.

Operating Revenue

Billings for services rendered and any sales of merchandise during the survey year, even though payments may be received at a later date. Excludes income from interest, investments, gifts, loans, contributions or grants; the sale of securities, real estate, etc; sales taxes or other taxes collected from customers and remitted directly by the firm to a local, State, or Federal tax agency; revenue from the sale of merchandise and equipment from retail establishments; and revenue from a domestic parent organization, or from franchise locations owned by others and any franchise or license fees.

Motor carrier revenue. Billings for the transportation of freight by motor vehicles including the rental and leasing of vehicles with drivers.

Warehousing, storage, and handling revenue. Warehousing and storage revenue refers to billings for the storage of shipments in transit or permanent storage. Includes rental receipts from the operation of mini-warehouses and self-service storage facilities. Excludes revenue from subleasing of warehousing space to others. Warehouse handling revenue refers to amounts billed separately for labor, packing and crating, handling, loading and unloading, and other accessory services.

Other operating revenue

Trucking firms. Includes sales from the operation of lunch-rooms and restaurants; revenue from parking and storage of vehicles; revenue from snowplow work; revenue from other carriers for the use of terminal facilities operated by the firm including amounts billed separately for repair services; revenue from the short-term rental or extended-term leasing (with or without maintenance) of trailers, trucks, and truck-tractors, without drivers; fair sales value of merchandise marketed under capital, finance or full-payout leases; revenue from commissions for providing

brokerage services, making payroll deductions, or collecting freight charges from other carriers. Excludes nonoperating revenue, such as income from investments, loans, the sale of securities, real estate, etc.

Warehousing firms. Includes revenue from compressing, bailing, etc., and the leasing of vehicles without drivers. Excludes the value of used equipment or vehicles sold, as well as revenue received from any equity or full-payout leasing arrangement (finance leasing); and nonoperating revenue, such as income from investments, loans, the sale of securities, real estate, etc.

Operating Expenses

Costs incurred during the survey year, even though payment may be made at a later date. Excludes interest on loans and sales taxes and other taxes collected from customers and paid directly to a taxing authority.

Annual payroll. All salaries, wages, commissions, bonuses, and allowances for vacation, holiday, and sick leave paid to employees during the survey year. For corporations, it includes amounts paid to officers and executives; for unincorporated businesses, it does not include payments to proprietors or partners. Annual payroll is reported before employee deductions for Social Security, withholding taxes, insurance, union dues, etc.

Employer contributions for employee benefit plans

Plans required under Federal and State legislation. The employer's cost for all legally required programs, such as Social Security, and Medicare (FICA), worker's compensation insurance, unemployment tax, State disability insurance programs, etc.

Other fringe benefit plans. The employer's cost for programs not required by law, such as pension plans, stock purchase plans, union-negotiated benefits, life insurance benefits, insurance premiums on hospital and medical plans, etc.

Purchased fuels. The cost of gasoline and other fuels (including all applicable Federal and State gasoline, diesel fuel and oil taxes) used for trucks and other motor vehicles. Warehousing firms include fuels consumed for heat, power, or generating electricity; trucking firms report these costs separately.

Purchased transportation (trucking firms only)

Trucks, truck-tractors, trailers, and other motor vehicles rented or leased with drivers. Payments made to other carriers for the rental of motor vehicles (trucks, truck-tractors, and trailers) with drivers for the exclusive use and control of the firm.

Trucks, truck-tractors, trailers, and other motor vehicles rented or leased without drivers. Payments made to other carriers for the rental of motor vehicles (trucks, truck-tractors, and trailers) without drivers for the exclusive use and control of the firm.

Transportation purchased from railroads, airlines, water, and other motor carriers. Payments made for individual shipments and part loads in the vehicles of other carriers when the hauling carrier retains control of the vehicle and driver; payments to railroads, water carriers, airlines, and others for the transportation of this firm's loaded or empty vehicles and containers; and payments for the delivery of small shipments by parcel post or messenger.

Lease and rental. Payments made to other companies for the rental and leasing of assets owned by them. Excludes payments to a parent company or organization or any of its subsidiaries, and installment payments for assets obtained through capital lease agreements.

Buildings, offices, and structures. Payments made to other companies for the rental or leasing of buildings, offices, and structures.

Machinery and equipment. Payments made to other companies for the rental and leasing of machinery and equipment. Warehousing firms include payments for the rental and leasing of motor vehicles. Trucking firms report these payments under purchased transportation.

Insurance. Trucking firms report these costs separately, while warehousing firms report a combined total.

Public liability and property damage insurance. The cost of commercial insurance to protect the company against liability for deaths or injuries of persons (excluding worker's compensation premiums) and damages to property of others resulting from the operation of owned and leased vehicles.

Insurance for loss of, or damage to, motor vehicles and their cargos. The cost of commercial insurance to protect the company against liability for claims resulting from loss, damage, or delay of property entrusted to it for transportation or storage; and losses from fire, theft, or collision damage to owned or leased vehicles.

Insurance for buildings, offices, structures, and machinery and equipment (other than trucks and other motor vehicles). The cost of commercial insurance to protect the company against loss or damage to buildings, structures, offices, machinery, and equipment (other than motor vehicles) caused by fire, flood, wind, boiler explosion, or any other cause.

Maintenance and repair. Excludes repair costs included as part of a lease or rental agreement, and improvements for which depreciation accounts are maintained.

Motor vehicle parts for self-repair (including tires and tubes) (trucking firms only). The amount paid for tires and tubes and parts used in repairs to company owned or leased vehicles by company employees.

Purchased repairs for trucks, truck-tractors, trailers, and other motor vehicles (trucking firms only). The amount paid to others for repair of company owned or leased vehicles, including parts and labor.

Purchased repairs for buildings, offices, and structures. The amount paid to others for repair of company owned or leased buildings, structures, and offices.

Purchased repairs for machinery and equipment. The amount paid to others for repair of company owned or leased machinery and equipment. Warehousing firms report repairs to motor vehicles here; trucking firms report these costs in the first two maintenance and repair costs above.

Depreciation. Depreciation charges on assets owned by the company. Includes depreciation on assets rented or leased to others by the company under an operating lease agreement. Also includes depreciation against assets owned by the company within leaseholds and assets obtained through capital lease agreements. Excludes depreciation by the company on intangible assets and assets leased to others under a capital lease agreement. These charges are not adjusted for the value of depreciable assets sold or traded for replacement purposes.

Motor vehicles (trucking firms only). Depreciation charges on trucks, truck-tractors, trailers, and other motor vehicles.

Buildings, offices, and structures. Depreciation charges on buildings, offices, and structures owned by the company (except machinery and equipment).

Machinery and equipment. Depreciation charges for machinery and equipment. Warehousing firms include depreciation of motor vehicles with other machinery and equipment. Trucking firms report motor vehicle charges separately.

Taxes and licenses. Includes payments for vehicle licensing and registration, tolls, and other vehicle use taxes. Also includes the cost of taxes, including real and personal property taxes (such as taxes on real estate, motor vehicles, machinery, equipment, and inventories). Excludes gasoline, diesel fuel, oil taxes and income, sales, payroll, excise taxes, and other taxes collected from customers and paid to local, State, or Federal government agencies.

Drug and alcohol testing and rehabilitation programs. The cost of testing employees for drugs and alcohol and employer-sponsored rehabilitation programs.

Other operating expenses. All other operating expenses not reported above, including booking commissions, land-fill expenses, the cost of purchased utilities (including electricity, water, sewer, etc.), communication services, advertising, office supplies, losses by damage or theft not covered by insurance, bad debt losses, etc. Excludes interest on loans, as well as sales taxes and other taxes collected directly from customers and paid directly to a taxing authority.

Classification of Carrier (Trucking Firms Only)

Specialty freight. Carriers limited to transporting articles which, because of their size, shape, weight, or other inherent characteristics, require special equipment for loading, unloading, or transporting. These commodities include:

- Household goods
- Heavy machinery
- Refrigerated products
- Agricultural commodities
- Motor vehicles
- Building materials
- Dangerous or hazardous materials
- Forest products

General freight. Carriers capable of handling a wide variety of commodities including all or some of those listed above.

Classification of Distance Traveled (Trucking Firms Only)

Local trucking. Carriers primarily engaged in furnishing trucking or transfer services, with or without storage, within a city, town, or other local area including adjoining municipalities or suburban areas.

Long-distance trucking. Carriers primarily engaged in furnishing "over-the-road" trucking services either as a common carrier or under special or individual contract or agreement.

Classification of Shipment Size (Trucking Firms Only)

Less-than-truckload. Shipments with an actual weight of less than 10,000 pounds.

Truckload. Shipments with an actual weight of 10,000 pounds or more.

Classification of Commodities Handled (Trucking Firms Only)

Agricultural and food products. Includes live animals (cattle, horses, poultry, hogs, etc.), seafood, fresh farm products (grain, flowers, nursing stocks, raw milk, etc.), and processed food and tobacco products (canned goods, prepared meats, frozen foods, beverages, cigarettes, etc.).

Mining products, unrefined. Includes crude oil, coal and metal ores.

Building materials. Includes gravel, sand, concrete, flat glass, etc. Excludes cut lumber.

Forestry, wood, and paper products. Includes logs and forest products, lumber and fabricated wood products (except furniture), paper and paper products.

Chemicals and allied products (except petroleum). Includes chemicals and drugs (fertilizers, pesticides, cosmetics, paints, etc.), plastics, and rubber products.

Petroleum and petroleum products. Includes paving and roofing materials.

Metals and metal products. Includes primary metal products (pipes, ingots, billets, sheets, etc.), fabricated metal products, machinery, and transportation equipment, vehicles, and parts.

Household goods. Includes household and office furniture from homes, offices, etc.

Other manufactured products. Includes furniture and hardware (not involved in household moving), glass products, textiles and apparels (fibers, leather products, carpets, clothing, etc.), and miscellaneous manufactured products (photographic goods, watches, clocks, jewelry, toys, etc.).

Other. Includes scrap, garbage, trash, septic tank waste, industrial water, mixed cargo (including delivery of small packages), etc.

Classification of Shipments by Origin and Destination (Trucking Firms Only)

U.S. to U.S. Includes shipments that originated from and were destined to locations in the United States.

U.S. to Canada. Includes shipments that originated from the U.S. and were destined to locations in Canada.

Canada to U.S. Includes shipments that originated from Canada and were destined to locations in the U.S.

Other. Includes shipments that originated from and were destined to locations in each of the following country combinations: U.S. to Mexico, Canada to Canada, Canada to Mexico, Mexico to U.S., Mexico to Canada, and Mexico to Mexico.

SAMPLE DESIGN

The Motor Freight Transportation and Warehousing Survey is based on a probability sample, selected from employers contained on the Census Bureau's Standard Statistical Establishment List (SSEL). The SSEL includes all employer businesses that make Social Security payments for employees under the Federal Insurance Contribution Act (FICA). The sample is updated quarterly to account for new employer businesses (births) and employers which go out of business (deaths). The sample was originally drawn from establishments on the SSEL as of December 31, 1989. The SSEL consisted of two lists. One list was composed of all Employer Identification Numbers (EIN's) for businesses with reported payroll for at least one quarter of 1989. The EIN is the primary taxpayer identifier used by employer business firms. The second list consisted of all establishments of known multiestablishment companies as of December 31, 1989. These lists contained information on sales or receipts, payroll, employment, name and address, kind-of-business classification, etc.

Before the sampling frame was available, a study was made using files from the 1989 SSEL and 1987 Census of Transportation. This study determined the stratification of the sampling units based on payroll and kind of business, and the optimal allocation of the sample necessary to meet specified sampling variability objectives for revenue of different kind-of-business groups. The primary stratum boundary determined in the study was the certainty cutoff to be used for each kind of business. The cutoff was particularly important since it often determined the type of sampling unit.

The sampling units consist of both companies and EIN's. If a company had total revenue (estimated from payroll) above the corresponding cutoff for its major kind of business, or total revenue for any minor kind of business above the corresponding cutoff for the minor kind of business, the company was selected into the sample with certainty. The company, which might consist of many EIN's, was then the sampling unit; therefore, any new establishments that the company might acquire, even if under new or different EIN's, were in the sample with certainty. The EIN was the sampling unit for all single-establishment companies, whether or not selected with certainty were treated on an EIN basis; that is, the EIN was the sampling unit.

To be eligible for the initial sampling, an EIN had to be active (i.e., had payroll in 1989 and was on the latest available Internal Revenue Service (IRS) active mailing list for FICA taxpayers). The EIN's were then stratified according to their major kind of business and their estimated revenue. Within each stratum, a simple random sample of EIN's was selected. The sampling rates for these strata varied between 1 in 3 and 1 in 481.

For all EIN "births" after the initial selection, a two-phase selection procedure is used. EIN births are all new EIN's recently assigned by the IRS and on the latest available IRS mailing list for FICA taxpayers. In the first phase, births are arranged by kind of business and size (expected employment or quarterly payroll). A relatively large sample is then drawn and canvassed in order to obtain a more reliable measure of size (revenue of two recent months) and to correct or obtain a more detailed kind-of-business code, if needed.

Using this more reliable information, the births selected in phase one are subjected to probability proportional-to-size sampling with overall probabilities equivalent to those used in drawing the initial sample from the 1989 SSEL. Because of the lag in identifying births and the time needed to accomplish the two-phase birth selection procedures, births are actually added to the sample on an average of 9 to 12 months after they begin operation. The birth selection procedure is carried out quarterly.

The EIN births that are selected in the quarterly birth selection procedure in early November of the annual survey year are included in the main mailing of the annual survey questionnaires early in the following year.

To account for all EIN births in the annual survey year, we mail EIN births selected in subsequent quarterly birth selection procedures in June and August to supplement the main survey mailing.

Selected EIN's that were reactivated in the quarterly processing, were not included in the main mailing and had payroll in the annual survey year are treated in a similar manner to the EIN births.

To be eligible for the sample canvass and tabulation, a business must meet both of the following requirements:

- a. It must be on the latest available IRS mailing list for FICA taxpayers from the previous quarter.
- b. It must have been selected from the SSEL or the file of employer births.

In the case of businesses that were selected into the sample with certainty, the first requirement is changed. These sampling units are not dropped from canvass and tabulation if they are no longer on the IRS mailing list.

Rather, these businesses are contacted, and if there are successor businesses, they are added to the survey.

ESTIMATION

Annual estimates of revenue, expenses and inventories from the Motor Freight Transportation and Warehousing-Survey are based upon the summation of weighted data reported by the sampling units in the survey. The assigned weights of the sampling units are the reciprocal of the probability of selection (or, equivalently, the inverse of the sampling rate).

Appendix C. Kind-of-Business Classifications

The motor freight transportation and warehousing industries included in the report are classified in accordance with the 1987 edition of the *Standard Industrial Classification Manual* issued by the Office of Management and Budget for purposes of providing a standard for the classification and presentation of data by all Federal agencies. Each establishment, firm, or organization is classified according to the major service (determined by the volume of revenue) it provides. Establishments, firms, and organizations owned and operated by Federal, State, or local governments are excluded. The following is a description of each kind-of-business classification presented in this report.

MOTOR FREIGHT TRANSPORTATION AND WAREHOUSING (SIC MAJOR GROUP 42)

Establishments furnishing local or long-distance trucking or transfer services, or those engaged in the storage of farm products, furniture and other household goods, or commercial goods of any nature. The operation of terminal facilities for handling freight, with or without maintenance facilities, is also included.

Local Trucking Without Storage (SIC 4212)

Establishments primarily engaged in furnishing trucking or transfer services without storage for freight generally weighing more than 100 pounds, in a single municipality, contiguous municipalities, or a municipality and its suburban areas.

Trucking, Except Local (SIC 4213)

Establishments primarily engaged in furnishing longdistance (over-the-road) trucking services or trucking services and storage services, including household goods either as common carriers or under special or individual contracts or agreements, for freight generally weighing more than 100 pounds.

Local Trucking With Storage (SIC 4214)

Establishments primarily engaged in furnishing both trucking and storage services, including household goods.

Courier Services, Except by Air (SIC 4215)

Establishments primarily engaged in the delivery of individually addressed letters, parcels, and packages (generally under 100 pounds), except by means of air transportation or by the United States Postal Service. Delivery is usually made by street or highway within a local area or between cities.

Farm Product Warehousing and Storage (SIC 4221)

Establishments primarily engaged in the warehousing and storage of farm products.

Refrigerated Warehousing and Storage (SIC 4222)

Establishments primarily engaged in the warehousing and storage of perishable goods under refrigeration. The establishments may also rent locker space for the storage of food products for individual households and provide incidental services for processing, preparing, or packaging such food for storage.

General Warehousing and Storage (SIC 4225)

Establishments primarily engaged in the warehousing and storage of a general line of goods. General merchandise is defined as material or goods of many varieties which are packaged or are readily handled and do not require refrigeration, controlled humidity, or other special facilities.

Special Warehousing and Storage, Not Elsewhere Classified (SIC 4226)

Establishments primarily engaged in the warehousing and storage of special products, not elsewhere classified, such as household goods, automobiles (dead storage only), furs (for the trade), textiles, whiskey, and goods at foreign trade zones.

Terminal and Joint Terminal Maintenance Facilities For Motor Freight Transportation (SIC 4231)

Establishments primarily engaged in the operation of terminal facilities used by highway-type property carrying vehicles. Also included are terminals which provide maintenance and service for motor vehicles.

Appendix D. Report Forms

