SUMMARY OF NATIONAL TRANSPORTATION STATISTICS



JUNE 1976
ANNUAL REPORT

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This report is a compendium inventory, and performance modes: air carrier, general a and gas pipeline. The report revenues and expenses, num. As its name implies, the report from a variety of government cover the period 1964 through	data describing the pass viation, automobile, bus includes basic descripted ber of vehicles and employer is a summary of a large at and private statistical	enger and cargo, truck, local tra ors of U.S. trans oyees, vehicle-mer data base, cons	operations of to nsit, rail, water, portation, such iles and passeng isting of time-se	the following, oil pipeline, as operating er miles, etc.
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INTRODUCTION

The 1976 edition of the Summary of National Transportation Statistics is the 6th annual report containing cost, inventory and performance data. It is essentially an updated version of the 1975 edition, although some new tables and graphs have been added to the section called "Transportation, Energy, and the Environment."

Because the demand for information on energy continues, we have published the 4th compendium of energy supply and demand data in a separate report entitled: Energy Statistics—A Supplement to the Summary of National Transportation Statistics.

The statistical summaries in this document are of three types: (1) tree displays, (2) modal profiles, and (3) transportation trends. The data base from which the summaries have been drawn consists of time series covering the years 1964 - 1974.

Data summarization involves the selection of certain statistics from the data base and displaying them in such a fashion that comparisons of transportation measures and trends can be made with ease. The first step in this process is to place the selected data in a logical framework.

In general, the data can be divided into three main categories: cost, inventory, and performance. The following list indicates the type of data included in each group:

- I. Cost
 - A. Expenditures (private modes)
 - B. Revenue (for-hire modes)
 - C. Operating expenses
 - D. Federal expenditures
 - E. State and local expenditures

II. Inventory

- A. Number of companies
- B. Number of vehicles
- C. Number of employees
- D. Mileage

III. Performance

- A. Vehicle-miles
- B. Passenger-miles
- C. Number of passengers carried
- D. Ton-miles
- E. Tons of freight hauled
- F. Average passenger trip length
- G. Average length of freight haul
- H. Average speed
- I. Number of fatalities
- J. Number of fatal accidents
- K. Total number of accidents

As illustrated in figure 1, the data set can be described as cost, inventory, and performance statistics for each of the following major modal categories; highway, rail, air, water, pipeline, international air, and international water.

Figure 2 illustrates the detailed modal breakdown used in this report. The dotted lines indicate alternative groupings; e.g., "heavy and light rail" can be considered a subset of both "local transit" and "rail."

The framework presented in figure 2 is flexible, for it reflects the structures of the various sources of transportation data. One should notice, for example, that the breakdown of the general aviation category comes from the Federal Aviation Administration Statistical Handbook of Aviation.

Tree Displays. Figure 2 also provides the format for the tree displays. By placing numbers in the appropriate cells of the tree, it is possible to present one year's data for a given generalized measure for all modes of transportation. The following data are presented in tree format:

- Expenditures and revenues (1974)
- В. Vehicle-miles (1974)
- Passenger-miles (1974) Ton-miles (1974) C.
- D.
- E. Number of vehicles (1974)
- F. Fatalities (1974)

Some precision in definition is lost with this display technique, but the source information in the appendix attempts to qualify the statistics requiring further explanation. The figure in each block is obtained as indicated in the source information, Appendix A; it is not necessarily the sum of figures in blocks to its right.

Modal Profiles. A modal profile lists the most recent cost, inventory, and performance data available in the data base for a given mode. It is important to note that not all of the measures listed on page 1 are available for each mode, nor are they always applicable. This is clearly illustrated by the difference in the type and amount of data recorded for air carrier and oil pipeline.

Our intent was to provide 1964 and 1974 values for each measure. In some instances the 1974 value is not available, and either the 1973 or most recent value is listed instead.

Transportation Trends. Included in these tables are annual data from 1964 to 1974. A variety of cost, inventory, and performance items are represented in this section.

Supplementary Data. There has been a growing demand for data that relate transportation to the environment. This report touches on some of the major topics, such as air and water pollution from transportation sources.

Source Information and Glossary of Terms. Appendix A is a detailed listing of the sources of data contained in this document. A special footnote system has been devised for the tree displays (fig. 3-8). In figure 3, for example, the "local transit" cell contains the standard reference number (19) in the upper right-hand corner. In appendix A under figure 3 we find the number (19), after which the source of the local transit datum is given.

Feeling that the usefulness of transportation data depends greatly on clarity of definition, we have included in appendix B a glossary of terms. This section is organized by mode and has been assembled from existing glossaries, such as that in the Civil Aeronautics Board Handbook of Airline Statistics. The lack of comparable glossaries in other statistical handbooks makes it difficult to prepare a complete dictionary.

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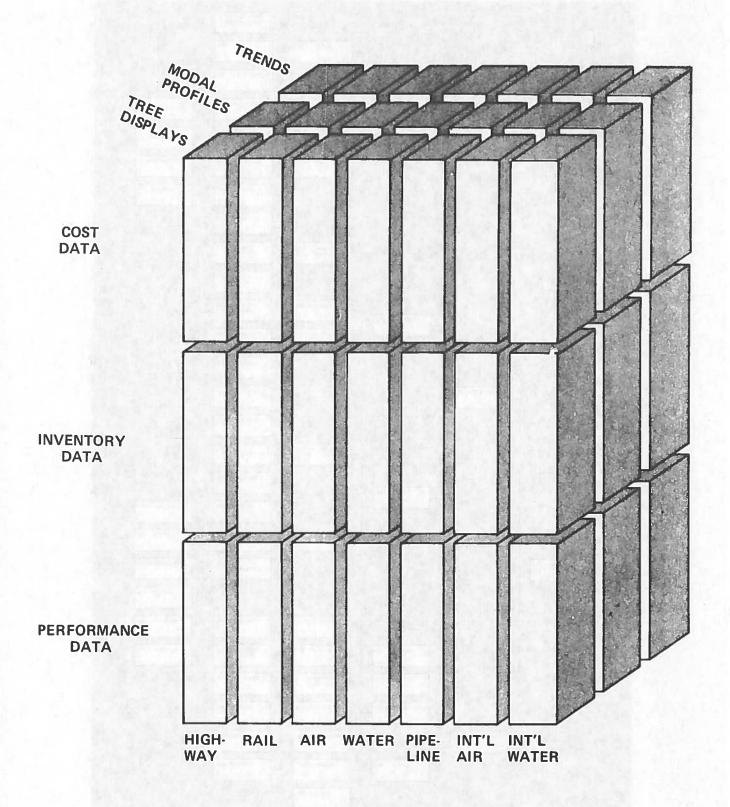


Figure 1. Organization of the Data

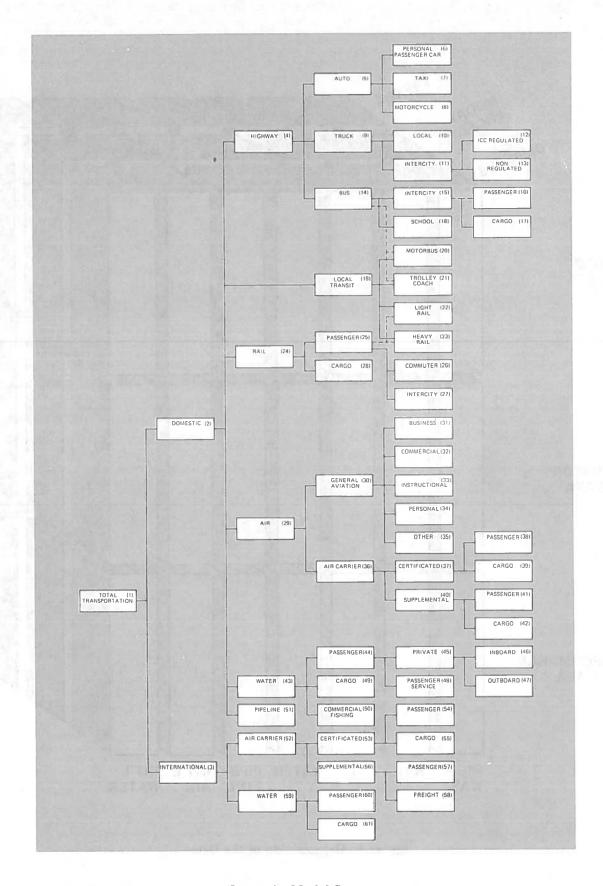


Figure 2. Modal Structure

TREE DISPLAYS

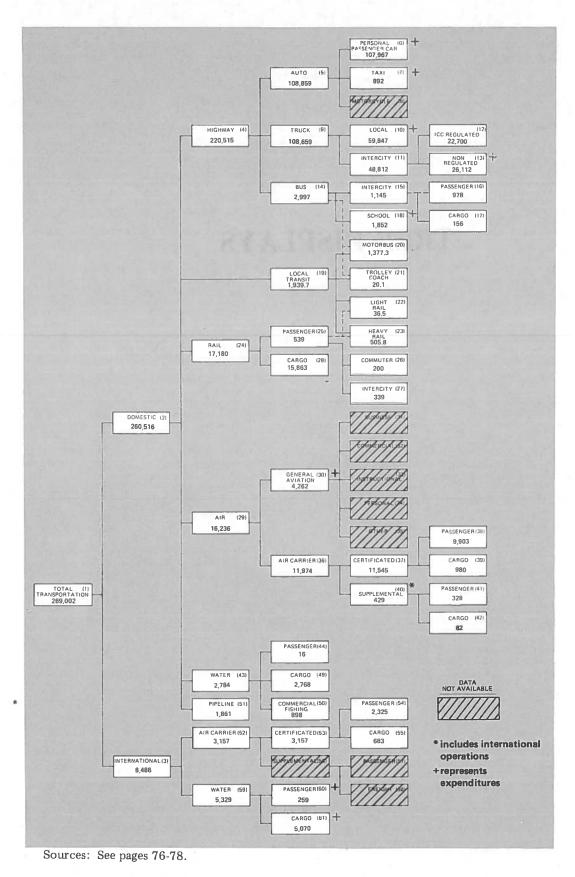
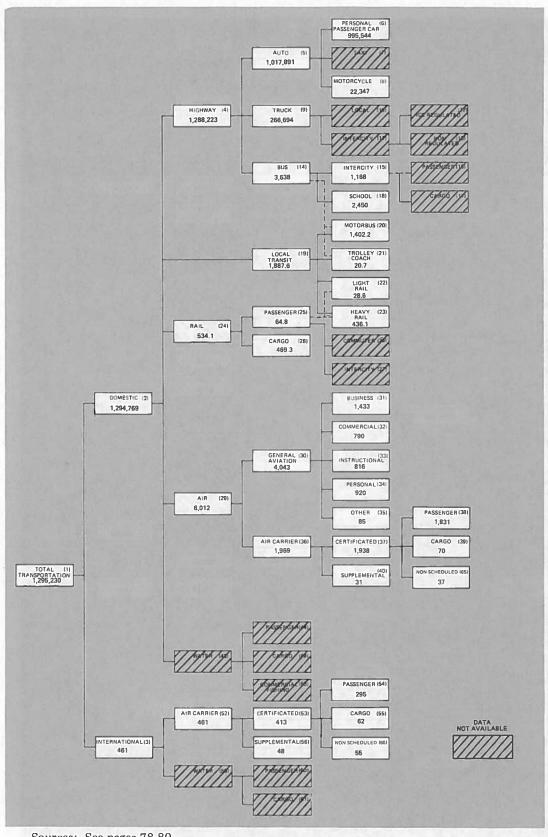
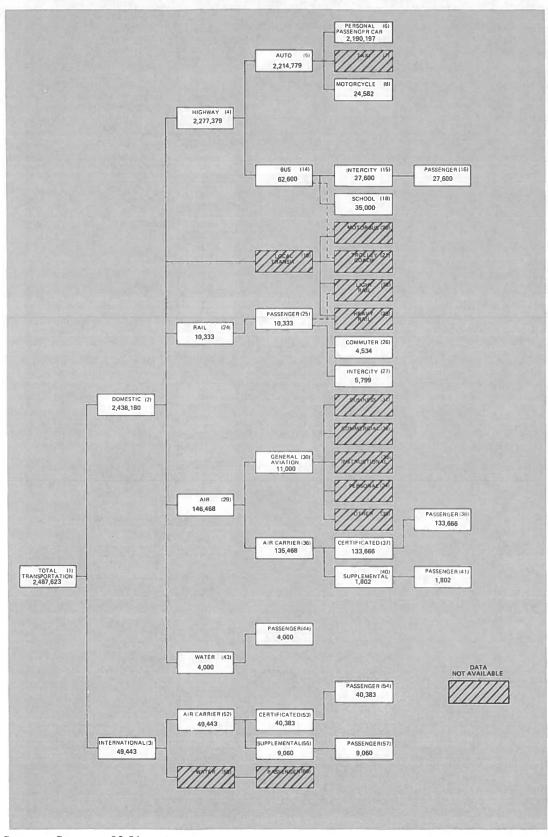


Figure 3. Expenditures and Revenues (\$ Millions) - 1974



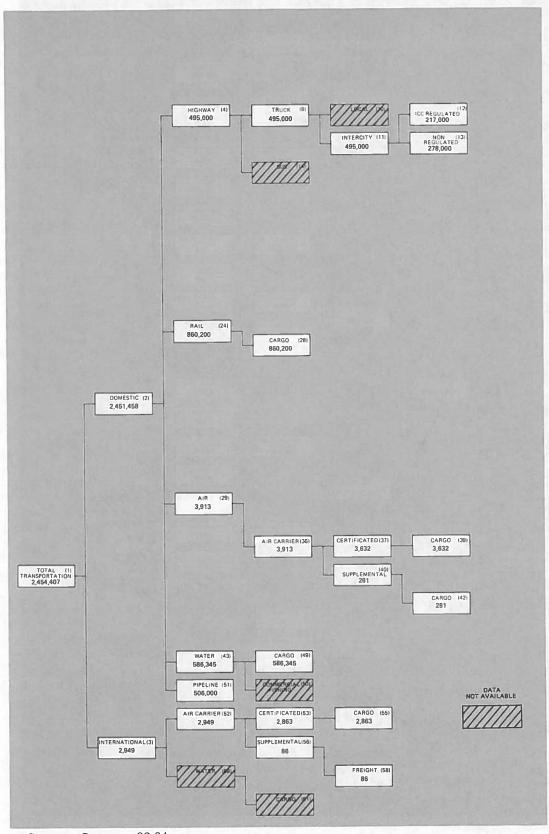
Sources: See pages 78-80.

Figure 4. Vehicle-Miles (Millions) - 1974



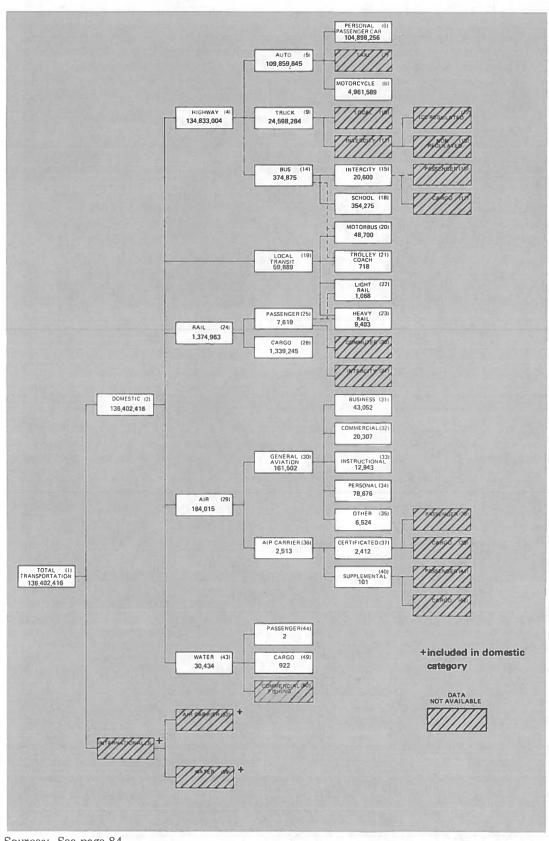
Sources: See pages 80-81.

Figure 5. Passenger-Miles (Millions) - 1974



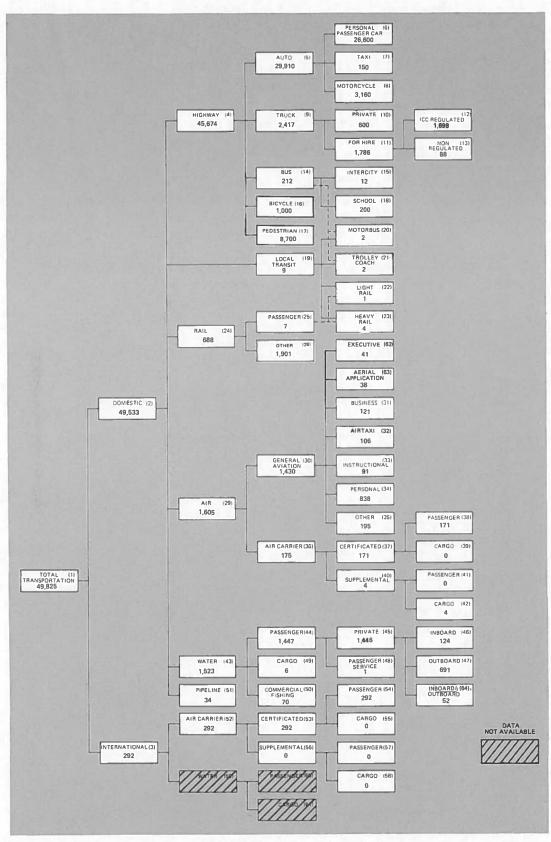
Sources: See pages 82-84.

Figure 6. Cargo Ton-Miles (Millions) - 1974



Sources: See page 84.

Figure 7. Number of Vehicles - 1974



Sources: See pages 84-87.

Figure 8. Number of Fatalities - 1974

MODAL PROFILES

Modal Profile Source References and Percentage Change Calculations

The 1976 Modal Profiles have been augmented to provide specific page references for each Profile data element and to permit comparison of the most recent data entries (1974) with the 1964 and 1973 data entries.

Specific page references are obtained as follows: The first data element at the top of each Profile data column is directly followed to its right by an italicized page reference letter. This reference letter then applies to all subsequent data elements in that Profile column until the next page reference letter occurs. The next reference letter then applies to the Profile data element on its left and to all subsequent data in that Profile column until the next page reference occurs. The specific source and page reference may then be found in the list of sources at the end of that particular Profile.

The % Change 1973-1974 column refers to the usual percent difference between 1974 data and 1973 data. Annual % Change 1964-1974 is equal to C \times 100%, where C is obtained from the following relationship: $D_{74} = D_{64} \ (1 \times C)^{10}$. (Note: D_{64} and D_{74} refer to 1964 and 1974 data, respectively.)

AIR CARRIER PROFILE

I. FINANCIAL	1964	1973		1964-1974 Ayerage Annual % Change	1973-1974 % Change
			-	3 15-10	ARREST HOLL
Operating Revenues (\$ millions) Certificated carriers, total domestic operations					
· · · · · · · · · · · · · · · · · · ·	2 071 1 0	9,529.6 k	11,041.0	k 13.7	15.9
Transport revenues	3,071.1 a	9,529.6 R 164.4	504.1		206.6
Nontransport revenues	97.7				19.1
Total operating revenues	3,168.8	9,694.0	11,545.1	13.8	ione -
Transport revenues	1,066.9 b	2,680.4 l	3,056.6	11.1	14.0
Nontransport revenues	15.2	44.3	100.8	20.8	127.5
Total operating revenues	1,082.0	2,724.8	3,157.4	11.3	15.9
Supplemental carriers, domestic plus					
international operations					
Transport revenues	n/a	372.1 m	411.8	m n/a	10.7
Nontransport revenues	n/a	2.1	17.1	n/a	714.3
Total operating revenues	n/a	374.2	428.9	n/a	14.6
Total operating revenues	, a	0.1.2	120.0		art servation
Operating Expenses (\$ millions)					STREET, STREET, ST.
Certificated carriers, domestics operations	2.848.8 a	$9,200.2^{r}k$	10,760.1	k = 14.2	17.0
Certificated carriers, international operations	932.0 b	2,633.3 rl	3,217.8	1 13.2	22.2
Supplemental carriers, domestic plus		,	,		
international operations	n/a	380.9 m	431.9	m n/a	13.4
II. INVENTORY					
Number of carriers					
Domestic and international					
Certificated	49 d	34 c	34	c = -3.6	0.0
Supplemental	n/a	14 cc	9	cc n/a	-35.7
	11.00				
Number of Aircraft Available for Service					
Domestic and international					
Certificated, all services	1,894 dd	2,467 dd	2,412	n 2.4	-2.2
Supplemental	210	133	101	-7.1	-24.1
Number of Employees					
Domestic	1000	005 001 7	001000		0.5
Certificated, all services	154,773 e	265,231 ree	264,033		-0.5
Supplemental	2,236	5,403	4,251	6.6	-21.3
International	00.000	10 700 P	10.161		0.0
Certificated, all services	36,820	46,588 ^r	43,404	1.7	-6.8

AIR CARRIER PROFILE (cont.)

III. PERFORMANCE	1964	1973	1974	1964-1974 Average Annual % Change	1973- % Ch	
Aircraft Revenue-Miles (millions)						
Domestic Domestic						
Certificated, all services	998.2 f	2.097.8 x	1.937.9x	6.9	-7.6	
Scheduled service		2,057.7	1,900.5	7.0	-7.6	
Nonscheduled service		40.1	37.4	2.2	-6.7	
Supplemental		35.0 y		n/a	-10.0	
International						
Certificated, all services	240.9 g	457.9 z	412.8 z	5.5	-9.8	
Scheduled service		390.4	357.6	4.9	-8.4	
Nonscheduled service	20.0	67.5	55.2	10.7	-18.2	
Supplemental	4	56.8 y	47.9 y	n/a	-15.7	
Total	n/a	2,647.5	2,430.1	n/a	-8.2	
Revenue Passenger-Miles (millions)						
Domestic						
Certificated, all services	45,046.1 <i>f</i>	130,450.1 x	133,666.2 x	11.5	2.5	
Scheduled service	44,141.3	126,317.3	129,731.0	11.4	2.7	
Nonscheduled service		4,132.8	3,935.2	15.8	-4.8	
Supplemental	, n/a	2,005.9 y	1,802.5 y	n/a	-10.1	
International						
Certificated, all services			*	9.2	-8.0	
Scheduled service		35,640.0	33,186.2	8.7	-6.9	
Nonscheduled service	,	8,262.2	7,197.3	11.6	-12.9	
Supplemental		9,783.7 y	, ,	n/a	-7.4	
Total	. n/a	186,142.8	184,912.2	n/a	-0.7	
7)						
Revenue Passenger Load Factor (%)						
Domestic and international Certificated scheduled service	55.0 h	52.1 v	54.9 v	0.0	5.4	
Domestic	, 55.0 <i>n</i>	52.10	54.50	0.0	0.4	
Certificated scheduled service	54.8 f	51.6 x	55.5 x	0.1	7.6	
Cerumeated scheduled service	. 04.07	01.0 %	00.0 %	0.1	1.0	
Revenue Ton-Miles of Freight ¹ (millions)						
Domestic (minimum)						
Certificated all services	1.025.2	2,875.7	2,860.4	10.8	-0.5	
Scheduled service		2.821.9	2,808.4	13.2	-0.5	
Nonscheduled service		53.8	52.0	-13.0	-3.3	
Supplemental	n/a	291.6 y		n/a	-3.6	
International	,			,		
Certificated, all services	530.2 g	2,307.0z	2,391.0z	16.3	3.6	
Scheduled service		1,914.8	2,081.6	15.7	8.7	
Nonscheduled service		392.2	309.4	21.3	-21.1	
Supplemental		111.9 y	85.8 y	n/a	-23.3	
				•		

AIR CARRIER PROFILE (cont.)

				1964-1974 Average Annual	1973-1974
	1964	<u>1973</u>	1974	% Change	% Change
Average Overall Airborne Speed (mph) Domestic					
Certificated, scheduled service	296 i	405 j	402 j	3.1	-0.7
Certificated, scheduled service	435	481	481	1.0	0.0
Total Number of U.S. Air Carrier Accidents (injury & no-injury) ²					
	79 q	43 q	47 q	-5.1	9.3
Certificated Air Carriers	70	41	45	-4.3	9.8
Scheduled service	59	37	44	-2.9	18.9
	50	29	32	-4.4	10.3
International	9	8	12	2.9	50.0
Nonscheduled operations	11	4	1	-21.3	-75.0
Domestic	11	4	. 1	-21.3	-75.0
International.	0	0	0	0.0	0.0
Supplemental Air Carriers	9	2	2	-14.0	0.0
Domestic	9	0	1	-19.7	100.0
International	0	2	1	0.0	-50.0
Total Number of Fatalities ² - U.S. Air Carriers	242	227	407	2.0	mal .
Certificated Air Carriers	238	221	467 463	6.8	105.7
Scheduled service	237	217		6.9	109.5
Domestic	130	138	460	6.9	112.0
International	107	79	168	2.6	21.7
Nonscheduled operations	1		292	10.6	269.6
Domestic	1	4	3	11.6	-25.0
International	0	4	3	11.6	-25.0
Supplemental Air Carriers	4	0	0	0.0	0.0
Domestic	4	6	4	0.0	-33.3
International		0	0	-100.0	0.0
International	0	6	4	14.9	-33.3

n/a = not available

Sources: Civil Aeronautics Board, Handbook of Airline Statistics, 1973: a-216, b-227, f-106, g-117, h-105, i-62 d-9, e-63.

Civil Aeronautics Board, 1973-1974 Supplement to Handbook of Airline Statistics, n-126, ee-153, j-5. Civil Aeronautics Board, Air Carrier Traffic Statistics, Dec. 1973, 1974, c-Back of Frontispiece, cc-Inside of Back Cover.

Cc-inside of Back Cover.

Civil Aeronautics Board, Air Carrier Traffic Statistics, Dec. 1974, v-1, x-4, y-93, z-13.

Civil Aeronautics Board, Air Carrier Financial Statistics, Dec. 1974; k-2, l-7, m-99.

Civil Aeronautics Board, Statistical Data Division, dd-Personnal Communication.

National Transportation Safety Board, Bureau of Aviation Safety (BAS-22), q-Personal Communication.

r = revised

¹ Excludes ton-miles of express mail, and excess baggage.

² Includes crew in passenger, cargo and nonrevenue flights.

GENERAL AVIATION PROFILE

		1964	<u> 1973</u>	1974	1964-1974 Average Annual % Change	1973-1974 % Change	
I.	FINANCIAL						
	Expenditures (\$ millions)	6					
	Total	$1,\!171 a$	4,237 a	$4,262^{p}h$	13.8	0.6	
	Aircraft	206	797	726 ^p	13.4	-8.9	
	Operating costs	965	3,440	3,536 ^p	13.9	2.8	
II.	INVENTORY						
	Number of Active Aircraft						
	Total, all aircraft	88,742 b	153,540 c	161,502 c	6.2	5.2	
						× ×	
III.	PERFORMANCE						
	Number of Miles Flown (millions)	40400	1 0 1 0 - 1	1			
	Business	1,046.8 d		1,433.2 d	3.2	6.7	
	Commercial	392.5	688.4	789.7	7.2	14.7	
	Instructional	283.5	778.9	815.5	11.1	4.7	
	Personal	436.1	825.1	919.6	7.7	11.5	
	Other	21.8	93.4	84.6	14.5	-9.4	
	Total	2,180.8	3,728.5	4,042.7	6.4	8.4	
	Number of Hours Flown (millions)						
	Business	5.8 e	8.6 f	9.1 f	4.6	5.8	
	Commercial	3.3	5.6	6.3	6.7	12.5	
	Instructional	2.7	7.6	8.0	11.5	5.3	
	Personal	3.8	7.5	8.4	8.3	12.0	
	Other	.2	.7	.7	13.3	0.0	
	Total	15.7	30.0	32.5	7.5	8.3	
		- 1213		02.0		0.0	
	Number of Fatalities						
	Instructional	30 g	76 g	91 g	11.7	19.7	
	Personal	491	839	838	5.5	-0.1	
	Business	177	124	121	-3.7	-2.4	
	Executive	49	62	41	-1.8	-33.9	
	Aerial Application	50	49	38	-2.7	-22.4	
	Air Taxi	62	105	106	5.5	1.0	
	Other	223	148	195	-1.3	31.8	
	Total	1,082	1,403	1,430	2.8	1.9	
	Number of Accidents (Fatal, Injury, and No Injury)						
	Instructional	567	587	641	1.2	9.2	
	Personal	2,193	2,206	2,213	0.1	0.3	
	Business	878	305	320	-9.6	4.9	
	Executive	84	94	78	-0.7	-17.0	
	Aerial Application	402	415	481	1.8	15.9	
	Air Taxi	167	163	191	1.4	17.2	
	Other	808	531	561	-3.6	5.6	
	Total	5,099	4,301	4,485	-1.3	4.3	

p = preliminary

Sources: Federal Aviation Administration, Statistical Handbook of Aviation, 1970, 1973, 1974. b-Table 8.2, c-Table 8.6, d-Table 8.5, e-Table 9.9, f-Table 8.3.

Transportation Association of America, Transportation Facts & Trends, July 1975, Quarterly Supplement to the 11th edition, Dec. 1974 a-5

National Transportation Safety Board, Bureau of Aviation Safety, (BAS-22), g-Personal Communication,

Transportation Association of America, Transportation Facts & Trends, 1976, h-preliminary estimate,

HIGHWAY PROFILE

TALOTAL MEMORY POLY STATE	1964	1973	1974	1964-1974 Average Annual % Change	1973-1974 % Change
I. FINANCIAL				1 1000	May Carda
G 17 19 19 19 19 19 19 19 19 19 19 19 19 19					
Government Expenditures (\$ millions)	0.45	510	5.05	0.1	0.7
Federal		516 a	535 a	8.1	3.7
State and local	, , , , , , , , , , , , , , , , , , , ,	22,035	23,971	6.5	8.8
Total	12,985	22,551	24,506	6.6	8.7
II. INVENTORY					
Rural Mileage					
Under State control					
State primary system	411,076 b	409,834 b	410,450 b	0.0	0.2
State secondary roads	248,181	272,707	266,977	0.7	-2.1
Other State roads	22,117	27,920	28,868	2.7	3.4
Total	681,374	710,461	706,295	0.4	-0.6
Under local control					
County roads	. 1,740,596	1,727,834	1,731,188	-0.1	0.2
Town and township roads	536,085	489,164	483,953	-1.0	-1.1
Other local roads	67,442	32,448	32,568	-7.0	0.4
Total		2,249,446	2,247,709	-0.4	-0.1
Under Federal control		215,747	224,148	5.8	3.9
Municipal Mileage	Mark Tracking	16	No per good		
Under State control					
Extensions of State primary system	49.087	64.343	66,532	3.1	3.4
Extensions of State secondary roads		17,349	17,559	3.0	1.2
Total		81,692	84.091	3.1	2.9
Under local control	,	,			
Local city street	429,367	549,537	553,564	2.6	0.7
Total municipal mileage		631,229	637.655	2.6	1.0
2000 manospat mnoago		001,220	33.,333	william astild-	Chine V.
Total Rural and Municipal Mileage	. 3,644,069	3,806,883	3,815,807	0.5	0.2
			DESCRIPTION OF		

Sources: Federal Highway Administration, Highway Statistics, 1973, 1974, a-Table HF-10.

Federal Highway Administration, Highway Statistics, 1964, 1973, 1974, b-Table M-1.

Federal Highway Administration, Highway Statistics, Summary to 1965, March 1967, c-Table HF-201 sheet 2.

Bureau of Public Roads, News Release BPR 67-1, Jan. 3, 1967, c-Table HF-2.

AUTOMOBILE PROFILE

					1964-1974 Average Annual	1973-1974
		1964	1973	1974	% Change	% Change
I.	FINANCIAL					
	Expenditures (\$ millions) New and used cars Tires, tubes, accessories Gasoline and oil Tolls Insurance Auto registration fees Operator's permit fees Repair, greasing, washing, parking, storage, rental Total Revenues (\$ millions) Taxi	3,118 13,530 421 2,116 1,068 n 135 6,492 a 49,713	47,958 a 6,424 28,295 786 5,116 1,958 n 249 15,380 a 106,116	41,030 a 6,942 36,447 748 5,065 2,015 n 263 17,735 a 110,246	6.0 8.3 10.4 5.9 9.1 6.6 6.9 10.6 8.3	-14.4 8.1 28.8 -4.8 -1.0 2.9 5.6 15.3 3.9
II.	INVENTORY					
	Number of Vehicle Registrations Passenger cars and taxis Motorcycles	71,669,852 <i>b</i> 1 970,533	01,188,735 <i>b</i> 3 4,332,580	104,269,754 <i>b</i> 4,936,805	3.8 17.7	3.0 13.9
	Taxis	109,500 dd	97,200 d	93,300 d	-1.6	-4.0
III.	PERFORMANCE					
	Vehicle-Miles (millions) ¹ Urban streets Main rural roads Local rural roads Total travel	345,432 <i>f</i> 246,850 94,853 687,135	592,191 <i>f</i> 341,633 102,631 1,036,455	589,757 f 314,782 113,352 1,017,891	5.5 2.5 1.8 4.0	-0.4 -7.9 10.4 -1.8
	Vehicle-Miles (millions) Motorcycles	2,748* 684,387 687,135	19,594 1,016,861 1,036,455	22,347 995,544 1,017,891	23.3 3.8 4.0	14.1 -2.1 -1.8
	Passenger-Miles (millions) Total travel, passenger cars & taxis ² Total travel, motorcycles ³	1,505,651 3,022	2,237,094 21,553	2,190,197 24,582	3.8 23.3	-2.1 14.1
	Average Speed (mph), Main Rural Highway Passenger cars	57 l	62 g	56 g	-0.2	-9.7
	Number of Vehicles in All Accidents Motorcycles Passenger cars Taxis	150,000 h 18,500,000 150,000	360,000 h 23,300,000 170,000	360,000 h 20,600,000 150,000	9.1 1.1 0.0	$0.0 \\ -11.6 \\ -11.8$

AUTOMOBILE PROFILE (cont.)

Number of Vehicles in Fatal Accidents	1964	1973	1974	1964-1974 Average Annual % Change	1973-1974 % Change
Motorcycles	1,100 h 45,500 170	2,900 h 49,000 260	3,000 h 40,700 240	10.6 -1.1 3.5	3.4 -16.9 -7.7
Number of Fatalities					
Passenger cars & taxis Passenger cars Taxis Motorcycles ⁵ Bicycles Pedestrians	31,500 z n/a n/a n/a 680 j 9,000 i	33,700 k 33,500 h 700 3,130 1,000 j 10,200 i	26,800 k 26,600 h 150 3,160 1,000 j 8,700 i	-1.6 n/a n/a n/a 3.9 -0.3	-20.5 -20.6 -11.8 1.0 0.0 -14.7

n/a - not available

¹ Includes passenger cars, taxis and motorcycles.

⁴Speed of free-flowing traffic along level sections of highway.

Sources: Federal Highway Administration, Highway Statistics, 1964, 1973, 1974. b-Table MV-1, f-Table VM-1, g-Table VS-1, n-Table MV-2.

Bureau of Public Roads, Traffic Speed Trends. March 1965, 1-4.

Transportation Association of America, Transportation Facts and Trends, July 1975, Quarterly Supplement, Dec. 1974. s-5 Department of Labor, d-Personal Communication.

Department of Labor, Employment and Earnings, US 1909 - 1972, dd-528.

Department of Commerce, Bureau of Economic Analysis, Benchmark Revision of National Income and Product Accounts, a-Table 2.6,

National Safety Council, Accident Facts, 1965, 1974, 1975, h-56, i-58, k-75, j-47, z-79.

r = revised

^{*}Based on footnote 2, Table VM-1 of Bureau of Public Roads, Highway Statistics, 1964.

Based on vehicle-mile data from the Federal Highway Administration, Dept. of Transportation, and an average occupancy of 2.2.

Based on vehicle-mile data from the Federal Highway Administration, Dept. of Transportation, and an average occupancy of 1.1.

⁵ Includes passengers on motor scooters, motorized bicycles, and motorized tricycles.

BUS PROFILE

	1964	1973	1974	1964-1974 Average Annual % Change	1973-1974 % Change
I. FINANCIAL		1201100	VI 11-		
Expenditures (\$ millions)					
School bus	674 a	1,626 a	1,852 s	10.6	13.9
Operating Revenues (\$ millions)					
Intercity bus, total	686.7 c	$1,022.7 r_c$	1,144.6 ^p c	5.2	11.9
Intercity bus, Class I	595.4 d	$814.6 r_d$	925.3 P_d	4.5	13.6
Operating Expenses (\$ millions)					
Intercity bus, total	594.9 c	937.9 r_c	1,062.0 Pc	6.0	13.2
Intercity bus, Class I	510.2 d	$738.0 r_d$	850.7 ^p d	5.2	15.3
Taxes Assignable to Operations (\$ millions) ¹					
Intercity bus, total	63.5 c	89.6 r _c	$94.9 p_c$	4.1	5.9
Intercity bus, Class I	42.7 d	58.9 ^r d	63.1 ^r d	4.0	7.1
II. INVENTORY					
Number of Operating Companies			. n		
Intercity bus, total	1,100c	1,000 c	950 ^p c	-1.5	-5 .0
Intercity bus, Class I	160	75	80 P	-6.7	6.7
Number of Vehicles	00.500	00 000 5	20, 200 7	0.0	1.0
Intercity bus, total	20,500	20,800 ^r	20,600 ^p	0.0	-1.0
School bus	222,098 m $11,758 c$	333,892 m 9,300 c	$\begin{array}{c} 354,275 \ m \\ 9,700 \ {}^{p}_{c} \end{array}$	$4.8 \\ -1.9$	6.1 4.3
Number of Employees of Operating Companies					
Intercity bus, total	46,800	48,400 ^p	49,000 ^p	0.5	1.2
Miles of Highway Served					
Intercity, total	260,000	270,000	270,000	0.4	0.0
III. PERFORMANCE					
Vehicle-Miles (millions)					
Commercial bus ² Urban streets	1 000 -	1 5 4 5 -	1 555 -	_1 =	0.6
Main rural roads	1,803 <i>e</i> 908	1,545 <i>e</i> 890	1,555 <i>e</i> 965	-1.5 0.6	0.6 8.4
Local roads	181	113	90	-6.7	-20.4
Total travel	2,892	2,548	2,610	-1.0	2.4
School and nonrevenue bus					
Urban streets	307	497	520	5.4	4.6
Main rural roads	674 743	920 995	920	3.2	0.0
Total travel	1,724	2,412	1,010 2,450	3.1 3.6	1.5 1.6
All buses	-,	-, -1	2,100	0.0	2.0
Urban streets	2,110	2,042	2,075	-0.2	1.6
Main rural roads	1,582	1,810	1,885	1.8	4.1
Local rural roads	924	1,108	1,100	1.8	-0.7
Total travel	4,616	4,960	5,060	0.9	2.0

BUS PROFILE (cont.)

STATE OF THE PARTY	1964	1973	1974	1964-1974 Average Annual % Change	1973-1974 % Change
Revenue Passenger-Miles (millions)			- P	1400	MARKET ALL
Intercity bus, total	23,300 c	26,400 c	27,600 pc	1.7	4.5
Intercity bus, Class I ³	15,805 f	13,898 f	14,600 f	-0.8	5.1
Number of Revenue Passengers (millions)					
Intercity bus, total	360 c	$381 r_c$	379 Pc	0.5	-0.5
Intercity bus, Class I	279 f	155 ^r f	155 pf	0.0	0.0
Average Speed (mph) ⁴ Commercial bus, main rural roads	57 <i>l</i>	60 k	56 k	-0.4	Charrette
		00 k	30 K	-0.4	-6.7
Number of Fatalities					
All buses	80 g	170 g	150 g	6.5	-11.8
Intercity buses, Class I ⁵	19	29	12	-4.5	-58.6
School bus total	90 i	210 h	200 h	8.3	-4.8
rupus	50	125	90	6.1	-28.0
Bus drivers	5	15	10	7.2	-33.3
Other persons	35	70	100	11.1	42.9

p = preliminary

Sources: National Association of Motorbus Owners, Bus Facts, 1974 Statistical Supplement, c-1, d-2, f-3.

Federal Highway Administration, Highway Statistics, 1964, 1973, 1974, e-Table VM-1, h-Table VS-1, m-MV-10.

Bureau of Public Roads, Traffic Speed Trends, March 1965, I-4.

Transportation Association of America, Transportation Facts and Trends, July 1975, Quarterly Supplement, Dec. 1974, a-5. Transportation Association of America, Transportation Facts and Trends, 1976, s-preliminary estimate.

National Safety Council, Accident Facts, 1965, 1974, 1975, g-75, h-92, i-93.

r = revised

¹ Excludes income taxes.

² Includes local transit buses. See "Local Transit Profile" for more detailed information on urban bus transportation.

³ Regular-route intercity service. Excludes local, suburban, charter, and special service.

⁴ Speed of free-flowing traffic along level sections of highway.

⁵ Class I only, representing about 70% of total intercity bus passenger mileage.

TRUCK PROFILE

					1964-1974 Average Annual	1973-1974
		1964	1973	1974	% Change	% Change
I.	FINANCIAL					
	Revenues (\$ millions)					
	Local	20,289 a	57,303 ^r a	59,847 ^p aa	11.4	4.4
	ICC-regulated	9,155	21,000	22,700 ^p	9.5	8.1
	Non-ICC-regulated	14,412	25,515	26,112 ^p	6.1	2.3
	Operating Revenues of Class I Intercity Motor Carriers (\$ millions)					
	Freight, intercity, common	5,835.2	5 15,144.0 ^r	c 14,584.3 p	c 9.6	-3.7
	Freight, intercity, contract	200.6	533.7	392.3		-26.5
	Freight, local	72.3	629.8	561.0		-10.9
	Trans. for other Classes I and II carriers	43.5	154.8	302.8	21.4	95.6
	Other	47.9 6,199.5	137.8	111.4	8.8 9.9	-19.2 2.0
	Total	0,199.0	16,600.1	15,951.8	3.3	-3.9
	Operating Expenses of Class I Intercity Motor Carriers (\$ millions)	5,917.9 r	n 15,787.5	15,242.5	9.9	-3.5
II.	INVENTORY					
	Number of Truck Registrations	2 206 206 4	20 175 645 3	99 490 577 3	5 0	F 0
	Private and commercial		171,006 e		5.9 5.7	5.9 4.1
	State, county, municipal	620,141	886,221	939,766	4.2	6.0
	Total	,	23,232,872	24,598,284	5.8	5.9
	Total Number of Employees Trucking and Trucking Terminals	837,000 s	1,096,200 h	1,087,000 h	2.6	-0.8
	Number of Companies, Class I Intercity					
	Carriers of Property	1,025 b	$1,442 ^{r}c$	794 ^p _c	-2.5	-44.9
	Number of Employees, Class I Intercity Carriers of Property	364,930 m	580,220 ^r	492,376 ^p	3.0	-15.1
	PERFECUALNES					
III.	PERFORMANCE					
	Vehicle-Miles (millions)					
	Urban streets	56,562 g	113,154 g	114,339 g	7.3	1.0
	Main rural roads	68,180	119,536	129,545	6.6	8.4
	Local rural roads	25,416	34,457	22,810		-33.8
	Total travel	150,158	267,147	266,694	5.9	-0.2
	Ton-Miles (millions)					
	Intercity	347,470 n	505,000 i	495,000 ^P i	3.6	-2.0
	Average Speed, Main Rural Highways (mph) ¹					
	All trucks	55 <i>l</i>	57 j	54 j	-0.2	-5.3
	Taxes Assignable to Operations (\$ millions)					
	State highway-user taxes	2,150 f	4,570 f	4,632 f	8.0	1.4
	Federal highway-user taxes	1,385	2,533	2,518	6.2	-0.6
	Total highway-user taxes	3,534	7,104	7,150	7.3	0.6

TRUCK PROFILE (cont.)

	1964	<u>1973</u>	1974	1964-1974 Average Annual % Change	1973-1974 % Change
Average Length of Haul (miles) Class I intercity motor carriers					
Common	256 k	276 k	280 ^p t	0.9	1.4
Contract	136	198	200 ^p	3.9	1.0
Total Fatalities	n/a	3,058 w	2,417 py	n/a	-21.0
Private	n/a	709	600 ^p	n/a	-15.4
Authorized	n/a	1,938	1,698 ^p	n/a	-12.4
Exempt	n/a	99	88 ^p	n/a	-11.1
Others	n/a	312	31 ^p	n/a	-90.1
Total Accidents	n/a	30,911 x	25,264 p	n/a	-18.3
Private	n/a	5,233	4,421 p	n/a	-15.5
Authorized	n/a	22,825	20,156 p	n/a	-11.7
Exempt	n/a	618	404 P	n/a	-34.6
Others	n/a	2,235	283 ^p	n/a	-87.3

p = preliminaryr = revisedn/a = not available

Sources: Federal Highway Administration, Highway Statistics, 1964, 1973, 1974, d-MV-1, e-MV-7, g-VM-1, j-Table VS-1, l-81.

American Trucking Associations, *The Truck Beat*, Dec. 1975, f-7. Interstate Commerce Commission, 89th Annual Report to Congress, 1975, c-125, i-121,

Interstate Commerce Commission, 84th Annual Report to Congress, 1970, b-141, m-142.

Interstate Commerce Commission, 84th Annual Report to Congress, 1970, b-141, m-142.

Interstate Commerce Commission, 79th Annual Report to Congress, 1965, n-59.

Transportation Association of America, Transportation Facts and Trends, July 1975, Quarterly Supplement, Dec. 1974, a-4.

Transportation Association of America, Transportation Facts and Trends, 1976, aa-4, preliminary estimate.

Interstate Commerce Commission, Transport Economics, Vol. 11, No. 2, 1975, b-15.

Interstate Commerce Commission, Transport Economics, Vol. II, No. 2, 1975, k-15.

Interstate Commerce Commission, t-Personal Communication. U.S. Department of Labor, h-Personal Communication, s-Bulletin 1312-9, p. 530.

U.S. Department of Transportation, FHWA, Bureau of Motor Carrier Safety, 1973 Accidents of Motor Carriers of Property; w-2, x-1.

U.S. Department of Transportation, FHWA, Bureau of Motor Carrier Safety, y-Personal Communication.

¹Speed of free-flowing traffic along level sections of highway.

LOCAL TRANSIT PROFILE

			11	1964-1974	
				Average	
				Annual	1973-1974
	1964	1973	1974	% Change	% Change
	1001				
I. FINANCIAL					
Passenger Revenue (\$ millions)	950.4 a	1.183.8 a	1,269.6 a	2.9	7.2
Motorbus	282.3	437.6	486.7	5.6	11.2
Subway and elevated - heavy rail	48.3	38.7	31.7	-4.1	-18.1
Surface rail - light rail	45.0	23.6	17.2	-9.2	-27.1
Trolley coach	1,326.0	1,683.7	1,805.2	3.1	7.2
Total	1,320.0	1,000.7	1,000.2		
Operating Revenue (\$ millions)	1.010.3 b	1,262.9 b	1,377.3 b	3.1	9.1
Motorbus	295.8	461.0	505.8	5.5	9.7
Subway and elevated - heavy rail	55.6	48.5	36.5	-4.1	-24.7
Surface rail - light rail	46.4	25.2	20.1	-8.0	-20.2
Trolley coach		1.797.6	1,939.7	3.3	7.9
Total	1,408.1	1,151.0	1,500.1	0.0	
II. INVENTORY					
Number of Companies	14 k	15 h	14 g	0.0	-6.7
Electric railways ¹	1.149	1.006	930	-2.1	-7.6
Motorbus	9	2	2	-14.0	0.0
Trolley coach and motorbus	5	2	_		
Number of Vehicles	49,200 c	48,286 c	48,700 c	-0.1	0.9
Motorbus	9,061	9,387	9,403	0.4	0.2
Subway and elevated - heavy rail	1,553	1.123	1,068	-3.7	-4.9
Surface rail - light rail	1,865	794	718	-9.1	-9.6
Trolley coach	61,679	59,590	59,889	-0.3	0.5
Total	01,075	00,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Number of Employees					
Motorbus, surface rail, trolley coach,	144,800 d	140,700 d	153,100 d	0.6	8.8
subway and elevated	144,000 a	110,100			
III. PERFORMANCE					
Revenue Vehicle-Miles (millions)	1,527,9 e	1,370.4 e	1,431.0 e	-0.7	4.4
Motorbus	395.8	407.3	431.9	0.9	6.0
Subway and elevated - heavy rail	42.9	31.2	26.9	-4.6	-13.8
Surface rail - light rail	49.2	25.7	17.6	-9.8	-31.5
Trolley coach	2.015.8	1,834.6	1.907.4	-0.6	4.0
Total	2,010.0	1,001.0			
- Gaminal (millions)					
Revenue Passengers Carried (millions)	4,729.0 f	3,652.8 f	3,997.6	-1.7	9.4
Motorbus	1,698.0	1,423.7	1,435.1	-1.7	0.8
Subway and elevated - heavy rail	213.0	143.5	113.7	-6.1	-20.8
Surface rail - light rail	214.0	73.6	59.5	-12.0	-19.2
Trolley coach	6,854.0	5,293.9	5,605.9	-2.0	5.9
Total	0,001.0	-,			
Number of Fatalities in Local Transit ²					
Total	n/a	12 m	9	m n/a	
Motorbus	n/a	1	2	n/a	
Motorous		3	2	n/a	
Trolley coach		2	1	n/a	
Light rail		6	4	n/a	-33.3
Heavy rail		_			

r=revisedIncludes surface rail and subway and elevated.
Reported number of passenger fatalities collected by APTA resulting from vehicle accidents; they are not necessarily the national total.

Sources: American Public Transit Association, Transit Fact Book, 1975-1976, a Table 9, b Table 8, c Table 12, d Table 11, e Table 10, f Table 7.

American Public Transit Association, Transit Fact Book, 1974-1975, g-9.

American Public Transit Association, Transit Fact Book, 1973-1974, h-pg. 3.

American Public Transit Association, Transit Fact Book, 1965, k-pg. 1

American Public Transit Association, m-Personal Communication, Statistical Department.

WATER TRANSPORT PROFILE

. FINANCIAL	1964	1973	1974	1964-1974 Average Annual % Change	1973-1974 % Change
Revenues (\$ millions)					
Domestic freight	1 001 -	La monda e	Line or mention as		
Coastal waterways	1,601 a 711	2,267 ^r a	2,768 wi	-10	22.1
Inland waterways	353	890 ^r	1,004 P	3.5	12.8
Great Lakes	204	655 ^r	899 P	9.8	37.3
Locks, channels, etc.	333	286	340 p	5.2	18.9
International freight	1,838	436 ^r	525 P	4.7	20.4
Domestic passengers, intercity	13	4,329 r 19	5,070 ^p	10.7	17.1
International passenger ¹	389	284	$^{16.0}_{259}$	$\frac{2.1}{-4.0}$	-15.8 -8.8
Revenue of Class A & B Carriers by Inland and					0,0
Coastal Waterways (\$ millions)					
Line service operating revenues					
Freight	185.6 b	358.9 ^r c	510.6 ^p c	10.0	
Passenger	7.7	18.4 ^r	10.6 P	20.0	42.3
Other	17.8	16.0 ^r	24.5 ^p	3.2	-42.4
Other operating revenue	3.0	4.2 ^r	3.2^{p}	3.2	53.1
Revenue from terminal operations	21.5	47.2 r	36.0 ^p	0.6	-23.8
Rent and motor carrier revenue	22.2	29.0 r	37.0 ^p	5.3	-23.7
Total waterline operating revenues	257.8	473.7 ^r	621.9 ^p	5.2 9.2	27.6
Revenues of U.S. Commercial Fishing Fleet			021.0	3.2	31.3
U.S. Commercial Landings (\$ millions)					
O.S. Commercial Landings (\$ millions)	389 aa	907 aa	898 aa	8.7	-1.0
Revenues of Maritime Carriers (\$ millions)					
Coastwise and intercoastal service	1.00		n .		
Charter	106 e	152 d	252 ^p d	9.0	65.8
Total vessel operating revenues	18	57	63 ^p	13.3	10.5
Total waterline operating revenues	595	1,008	1,386 p	8.8	37.5
	705	1,087	1,477 ^P	7.7	35.9
Operating Expenses of Classes A and B Carriers by					
Inland and Intracoastal Waterways (\$ millions)	222.8 f	$423.5^{r}c$	500 4 D		
	222.0	423.5°C	529.4 ^p _c	9.0	25.0
Operating Expenses of Maritime Carriers (\$ millions).	667.2 e	1,084.0 d	1,318.5 ^p d	7.0	01.0
	001.26	1,004.0 α	1,010.0 - 4	7.0	21.6
Government Expenditures (\$ millions)					
Federal expenditures					
Coast Guard	350 h	783 h	851 h	9.3	8.7
Merchant Marine	307 i	457 i	503 i	5.1	10.1
Total waterways	333 j	482 i	516 i	4.5	7.1
Inland and intracoastal waterways ²	178 k	258 k	276 k	4.5	7.1
State and local expenditures		- 1-11		7.0	1.0
Coast Guard	0 h	0 <i>h</i>	0 h	0.0	0.0
Merchant Marine	0 i	0 i	0 i	0.0	0.0
Total waterways	291 j	$601 r_{i}$	625 j	7.9	4.0
		,	,	1.0	7.0

WATER TRANSPORT PROFILE (cont.)

II. INVENTORY	1964	1973	1974	1964-1974 Average Annual % Change	1973-1974 % Change
II. INVENTORI					
Number of Companies, Class A and B Carriers by Inland and Coastal Waterways	89 b	81 ^r c	70 ^p c	-2.4	-13.6
Number of Companies, Maritime Carriers	21 e	16 d	8 ^p d	-9.2	-50.0
Number of Employees Ships, boat building, and repairs	145,100 n 230,000 q		200,900 n 203,600 q	$^{3.3}_{-1.2}$	1.8 1.2
Number of Employees Maritime carriers	15,561 g	8,835 d	10,162 ^p d	-4.2	15.0
Class A and B carriers by inland and coastal waterways	10,222 f	9,270 ^{r}c	8,075 ^p c	-2.3	-12.9
Mileage of Commercially Navigable Inland and Coastal Channels	25,380 s	25,543 s	25,543 s	0.1	0.0
Number of Vessels Total non-self-propelled Dry cargo barges and scows Tank barges Self-propelled towboats and tugs U.S. Commercial Fishing Fleet U.S. Passenger Liners ⁴	17,081 t 14,432 2,649 3,994 11,808 bb 12 cc	23,147 ^r t 19,772 ^r 3,375 ^r 4,035 ^r 15,396 bb 5 cc	25,410 t 21,876 3,534 4,100 n/a 2 cc	4.1 4.2 2.9 0.3 n/a -16.4	9.8 10.6 4.7 1.6 n/a -60.0
U.S. Merchant Marine (over 1,000 gross tons) Total U.S. Flag Privately Owned Government Owned	2,505 <i>dd</i> 963 1,542	1,016 dd 596 420	922 <i>dd</i> 583 339	-9.5 -4.9 -14.1	-9.3 -2.2 -19.3
Number of Recreational Boats (millions)	6.2 gg	8.3 gg	8.5 gg	g 3.2	2.4
Number of recreational Boats (
III. PERFORMANCE					
Passenger-Miles, Intercity (millions)	. 2,800 u	4,000 u	4,000 u	3.6	0.0
Ton-Miles (millions) Domestic waterfreight					
Coastwise Internal Lakewise Local Total	. 101,924 . 73,237 . 1,794	327,649 <i>v</i> 171,891 83,765 1,386 584,691	322,802 v 183,202 78,880 1,460 586,345	0.3 6.0 0.7 -2.0 1.8	-1.5 6.6 -5.8 5.3 0.3
Ton-Miles, Domestic Deep Sea (billions)	. 237 w	226 w	230 ww	-0.3	1.8
Tons of Freight Hauled (millions) Domestic water Coastwise		237 v	233 v	1.2 3.6	-1.7 1.6
Internal Lakewise Local Total	. 151 . 100	503 157 93 990	511 146 88 979	-0.3 -1.3 1.9	-7.0 -5.4 -1.1
Exports Great Lakes ports Coastal ports Total	. 143	38 <i>x</i> 239 277	28 <i>x</i> 239 267	-0.7 5.3 4.4	-26.3 0.0 -3.6
Imports Great Lakes	224	28 462 490	23 474 497	-0.4 7.8 7.2	-17.9 2.6 1.4
Tons of Freight, Intraterritorial (millions)	1.6 r	n 4.3 m	4.0 r	n 9.6	-7.0

WATER TRANSPORT PROFILE (cont.)

					1964-1974 Average Annual	1973-1974
		1964	1973	1974	% Change	% Change
Average Ha	ul, Domestic System (miles-per-ton)					
Coastwise			1,383.7 v	1,383.3 v	-0.9	0.0
Internal		284.8	341.6	358.5	2.3	4.9
Lakewise		483.7	534.8	540.0	1.1	1.0
Local .		18.0	14.9	16.6	-0.8	11.4
			590.7	599.1	0.0	1.4
4.6	136					
	city (net tons)	14 00008			- 0	44.4
	n-self-propelled vessels		30,270,574 t	33,727,557 t	5.8	11.4
	barges and scows		22,647,076	25,525,996	6.2	12.7
Tank bar	ges	5,163,306	7,623,498	8,201,561	4.7	7.6
Total Numb	per of Fatalities in Water-					
borne Trai	nsport ³	191 hh	199 z	190 z	-0.1	-4.5
	l, total		56	8	n/a	-85.7
	& ferry, large & small		2	ĭ	n/a	-50.0
			16	2	n/a	-87.5
	arge		0	1	n/a	100.0
	os & tank barges		5	3	n/a	-40.0
			2	o o	n/a	-100.0
			31	1	n/a	-96.8
	eted, total	and the same of th	143	182	n/a	27.3
	cial fishing		74	70	n/a	-5.4
			24	14	n/a	-41.7
			17	53	n/a	211.8
_			28	45	n/a	60.7
					on the law of the	
Number of	Fatalities in Recreational Boating					
Inboard .		138 ee	113 ee	124 ff	-1.1	9.7
	1		795	691	-0.5	-13.1
Inboard/	Outboard ⁵	n/a	37	52	n/a	40.5
			371	272	-0.9	-26.7
Propulsio	n Unknown	28	438	307	27.1	-29.9
Total		1,192	1,754	1,446	2.0	-17.6

¹ Revenues paid by American travelers to U.S. and foreign flag carriers.

Sources: American Waterways Operators, Inland Waterborne Commerce Statistics, 1969, 1974, s-1, t-2 & 3.

U.S. Army Corps of Engineers, Waterborne Commerce of U.S., 1973, 1974, v-Sec. 3, Table 1, x-Sec. 1, Table 1a, m-Sec. 1, Table 1b.

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Interstate Commerce Commission, 89th Annual Report to Congress, 1975, c-127, d-128.

Transportation Association of America, Transportation Facts & Trends, April 1975, and July 1975, Quarterly Supplement, Dec. 1974, a-4 & 5, u-18, w-8, ww-Personal Communication.

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U.S. Department of Commerce, National Marine Fisheries Service, Fishery Statistics of the United States, 1964, 1973, bb General Review Section.

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U.S. Department of Commerce, Maritime Administration, cc-Personal Communication.

U.S. Coast Guard, Proceedings in Marine Safety Council, Report, Jan. 1965, Jan. 1975, Jan. 1976, hh-20, z-10.

U.S. Coast Guard, Boating Statistics (CG-357), 1964, 1973, 1974, ee-23, ff-17, gg-7.

² Does not include Great Lakes and coastal harbors.
³ Fatalities on a fiscal year basis due to vessel casualties.

⁴ Passenger capacity greater than 125.

⁵The 1963 figure is included under inboard fatalities.

p = preliminary

r = revised

n/a = not available.

RAIL PROFILE A. CLASS I RAILROADS

					1964	1973	1974	1964-1974 Average Annual % Change	1973-1974 % Change
	ESTAT A BIOT	AT							
I,	FINANCI	AL							
	Revenues	Class I Line-H	aul Railroads (\$ milli	ons)					
					577.9 a	258.5 †a	289.1	°a −6.7*	11.8
	_	1000			134.2	174.2 †	194.2	3.8	11.5
	Othe	r than commu	tation		349.0	84.4 †	96.0	−12.1 *	13.7
	Freight				8,455.5 b	13,770.7 ^r b	15,766.7 t		14.5
					329.2	81.8	91.9	-12.0*	
					80.2	3.6	4.4	-25.2*	
					413.8	655.3	769.7	6.4	17.5
	Total o	perating reven	ues		9,856.5	14,770.1	16,922.8	5.6	14.6
		Expenses, Cla			7 7 2 7 0	11,558.6 ^r	13,107.9	5.4	13,4
	Railroa	ias (\$ millions)			7,737.8	11,556.6	13,107.9	0.4	10.4
TT	INVENTO	nd v							
11.									
	Number o	of Vehicles, Cla	ss I Railroads	- 40	20.005.6	1 050 044 6	1 220 202 6	-1.1	-1.3
					38,385 <i>f</i>	1,356,944 f $5,360 \dagger_{g}$	1,339,223 f 5,704 †e		
		,			23,057 g 28,300 h	27,382 ^r h	27,627 h	-0.2	0.9
	Locom	ouves			20,000 11	21,002 11	21,021 11	0.12	
	Number o	of Companies,	Class I Railroads	• • •	98 i	68 i	72 i	-3.0	5.9
	Number o	of Employees,	Class I Railroads	66	35,034 j	516,171 \dagger_{j}	516,460 † <i>j</i>	-2.5	1.0
	Line Mile	age, All Line-H	Iaul Railroads	2	12,603 k	201,585 ^r k	200,000 PA	-0.6	-0.8
Ш	PERFOR	MANCE							
	Car Milea	ge, Class I Rail	roads (millions)						
	Freight	t			29,334 <i>l</i>	31,716 <i>l</i>	31,187 <i>l</i>	0.6	
		0			1,806	103	100	-25.1	
	Total			• • •	31,232	31,911	31,387	0.0	-1.6
	Train Mil	eage, Class I Ra	ailroads (millions)						
	Freigh				414.5	469.0 ^r	469.3	1.2	0.1
	Passen	ger			183.6	32.9	34.4	-15.4*	
	Total				598.0	508.8 ^r	503.6	-1.7	-1.0
	Locomot	ive Mileage, Cl	ass I Railroads (millio	ns)					
	Freigh				1,324.3	1,371.9	1,374.4	0.4	0.2
					378.8	19.3	20.2	-25.4*	
	Total				1,703.1	1,391.2	1,394.6	-2.0	0.2
		Passengers Car	ried, Class I	dig.					
		ads (millions)			olin II	183 [†] a	1M = -	0.0	0.0
					198 a		194 †	-0.2 -6.0°	6.0
	Otner	passenger			115	53	62	-6.0	17.0

RAIL PROFILE A. CLASS I RAILROADS (cont.)

FERRORL SHOWS	1004	1070		1964-1974 Average Annual	1973-1974
SM(2) 25 - 1854/3/31	1964	1973	<u>1974</u>	% Change	% Change
Revenue Passenger Miles, Class I Railroads (millions)					
Commutation	4,199 a	$4,377 \dagger_a$	$4,064 \dagger_a$	0.4	7.7
Other passenger	14,048	1,238	1,423	-20.5*	14.9
Average Passenger Trip Length, Class I Railroads (miles)					
Commutation	21	23 †	23 †	0.5	0.0
Other passenger ³	122	74	76	-4.6	2.7
Revenue Ton-Miles, Class I Railroads (millions)					
Freight	658,639 s	851,809 ^r s	850,961 s	2.6	-0.1
Average Haul, Class I Railroads (miles)					
Freight	263.2	315.3 r	313.5	1.8	-0.6
Number of Fatalities, All Railroads ²					
Passengers on trains	8 y	6 w	7 w	-1.3	16.7
Employees on duty	136	158	140	0.3	-11.4
Employees not on duty	4	3	4	0.0	33.3
Other non-trespassers	1,598	1,171	1,192	-2.9	1.8
Trespassers	598	578	565	-0.6	-2.2
Total	2,344	1,916	1,908	-2.0	-0.4
Rail/Highway Grade Crossing Fatalities	1,543	1,885 x	1,220 x	-2.3	-35.3

^{†=} AMTRAK figures (p. 16) subtracted from data given in source reference.

Sources:

Association of American Railroads, Yearbook of Railroad Facts, 1975, k-48.

Association of American Railroads, Statistics of Railroads of Class I, Years 1964 to 1974, July 1975, a-7, 16, b-1, Association of American Nationals, Statistics of Additional of Class 1, Teals 1901 to 1911, only 1911 f-9, g-10, 16, h-8, j-4, 16, l-11, 16, s-5, i-Table of Contents.

Federal Railroad Administration, Summary & Analysis of Accidents on Railroads in U.S. No. 143, Table 6, 1974, w-5.

Federal Railroad Administration, Rail-Highway Grade Crossing Accidents, Table B, Dec. 31, 1974, x-1.

Federal Railroad Administration, y-Personal Communication.

Interstate Commerce Commission, Transport Statistics in U.S., 1964, 1973, I-Table 1.

p = preliminary r = revised

^{*}NOTE: % decrease largely due to separation of AMTRAK operations data, May 1971.

Includes loaded and empty freight cars, not cabooses.

² Includes AMTRAK operations and fatalities at rail-highway grade crossings.

³Includes AMTRAK and Auto-Train.

RAIL PROFILE B. AMTRAK

		1964*	1973	1974	1964-1974* Average Annual % Change	1973-1974 % Change
]	I. FINANCIAL				200	
	Revenues (\$ thousands)					
	Passenger		167,314 a	222,593 a		33.0
	Commutation		6,285	5,500		-12.5
	Other than commutation		161,209	217,093		34.7
	Mail		5,047	6,086		20.6
	Express		59	679		1,050.8
	Other		29,673	27,552		-7.1
	Total operating revenues		202,093	256,910		27.1
	Operating Expenses		327,091	462,932		41.5
			900	· ·		- Principle
II	. INVENTORY					
	Number of Vehicles					
	Passenger train cars		1,777	1,848		4.0
	Locomotives		352	457		29.8
	Number of Companies		1	1		0.0
	Number of Employees		3,501 a	8,089 a		131.0
	Line Mileage		22,319 d	23,941 d		7.3
			22,010 a	20,341 a		7.0
III	. PERFORMANCE					
	Car Mileage (millions)		226.0 a	045.0 -		0.0
	Passenger		226.0 a	245.9 a		8.8
	Train Mileage (millions)					
	Passenger		27.2	29.5		8.5
				20.0		171 = 11
	Locomotive Mileage (millions)					
	Passenger		54.2	50.8		-6.3
	Revenue Passengers Carried (millions)					
	Commutation		3.2	3.3		3.1
	Other passenger		13.7	14.9		8.8
			20	17.0		0.0
	Revenue Passenger Miles (millions)					
	Commutation		181.6	156.4		-13.9
	Other passenger		3,624.9	4,102.4		13.2

RAIL PROFILE B. AMTRAK (cont.)

				1964-1974* Average	
mendan mendan tidi mer	1964*	1973	1974	Annual % Change	1973-1974 % Change
Average Passenger Trip Length (miles) Commutation		56 264	47 275		-16.1 4.2

Sources: Association of American Railroads, Statistics of Railroads of Class I, July 1975, a-16.
Interstate Commerce Commission, Class I Railroads, Financial and Operating Statistics, Statement #100, Dec. 31, 1973, 1974, d-17.

^{*}AMTRAK came into operation in May 1971, thus no 1964 figures are available.

OIL PIPELINE PROFILE

		1964	<u>1973</u>		1964-1974 Average Annual % Change	1973-1974 % Change	
I.	FINANCIAL						
	C (- B (millions)						
	Operating Revenues (\$ millions) ICC-regulated	865 a	1,446 a	$1,582 p_s$	6.2	9.4	
	Non-regulated	148	265 ^r	279 p	6.5	5.3	
	Total	1,013	1,701	1,861 ^p	6.3	9.4	
	Operating Expenses (\$ millions)					11.8	
	ICC-regulated	485.4 b	843.8 c	944.2 Pc	6.9	11.6	
	Taxes, ICC-regulated Companies (\$ millions)						
	Federal	115.4	141.2^{r}	147.6 ^p c	2.5	4.5	
	Other	46.1	99.7 x	90.9	7.0	-8.8	
II.	INVENTORY						
	Number of ICC-regulated Companies	85	100 c	$104 ^pc$	2.0	4.0	
	Number of Employees, ICC-regulated						
	Companies	17,676	14,745	15,222 ^p	-1.5	3.2	
	Mileage ¹	210,867 e	222,355 e	223,353 s	0.6	0.4	
Ш	PERFORMANCE						
	Intercity Ton-Miles (millions)					0.0	
	ICC-regulated	229,500 f	428,400 g	427,100 h	6.4	-0.3 0.4	
	Non-regulated	39,200	78,600	78,900	7.2 6.5	-0.2	
	Total	268,700	507,000	506,000 d	0.0	0.2	
	Tons Transported (millions)				0.5	1.0	
	Crude petroleum	362 i	492 m	484 m	2.9	-1.6 0.0	
	Petroleum products	776 k	420 n	420 n	-6.0 4.9	-0.9	
	Total	559 <i>l</i>	912	904	4.9	—∪.ჟ	

¹ Regulated plus unregulated mileage of crude oil trunk and gathering lines, plus refined oil trunk lines.

Association of Oil Pipelines, Shifts in Petroleum Transportation, April 30, 1973, June 2, 1975, i-Table 2, k-Table 3, l-Table 1. Interstate Commerce Commission, 89th Annual Report to Congress, 1975, c-130, g-122, d-121. Interstate Commerce Commission, 88th Annual Report to Congress, 1974, x-120. Interstate Commerce Commission, 84th Annual Report to Congress, 1970, b-153. Interstate Commerce Commission, 80th Annual Report to Congress, 1965, f-54. Interstate Commerce Commission, h-Personal Communication. Transportation Association of America, Transportation Facts and Trends, Dec. 1974, a-4, e-31, s-Personal Communication. U.S. Department of Interior, Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Monthly, m-January 1974, Table 24, January 1975, Table 25; n-December 1974. Table 11. and p. 558. American Petroleum Institute. Facts and Table 24, January 1975, Table 25; n-December 1974, Table 11, and p. 558, American Petroleum Institute, Facts and Figures, 1971 Edition.

p = preliminary

r = revised

NATURAL GAS PIPELINE PROFILE

		1964	1973	1974	1964-1974 Average Annual % Change	1973-1974 % Change
I.	FINANCIAL ¹			-8-		
	Operating Revenues (\$ millions)					
	Total Operating Revenues	4,060 a	7,712 b	9,085 b	8.4	17.8
	Operating Expenses (\$ millions)					
	Operating Expenses	2,735	5,147	6,078	8.3	18.1
	Maintenance Expenses	76	141	164	8.0	16.3
	Total Operating and Maintenance Expenses	2,811	5,288	6,242	8.3	18.0
	Taxes					
	Federal Taxes	284	460	579	7.4	25.9
	State and Local Taxes	117	214	234	7.2	9.3
	Total Taxes	365	673	813	8.3	20.8
11.	INVENTORY					
	Number of Interstate Natural Gas Pipeline					
	Companies	116 x	121 y	120 z	0.3	-0.8
	Number of Employees'	29,900 d	36,200 e	36,200 e	1.9	0.0
	Mileage	736,200 f	964,400 f	976,700 f	2.9	1.3
111.	PERFORMANCE					
	Natural Gas Liquids Turned Into Lines		2.7			
	(million gal.)	5,557 h	18,396 g	19,626 g	13.4	6.7
	Total Fatalities	n/a	42 j	34 /	n/a	-19.0
	Gas Distribution	n/a	33	20	n/a	-39.4
	Gas Transmission	n/a	2	4	n/a	100.0
	Liquid Transmission	n/a	7	10	n/a	42.9

¹ Data for years following 1970 not directly comparable to previous years due to reclassification of several companies.

Sources: American Gas Association, Gas Facts, 1965, a-Table 172, d-Table 195.

American Gas Association, Gas Facts, 1974, b-Table 129, e-Table 157, f-Table 42.

Federal Power Commission, News Release, x-No. 13736, Mar. 30, 1965, y-No. 20000, Jan. 24, 1974, z-No. 20508, July 1974.

Department of Interior, Bureau of Mines, Petroleum Statement Monthly, Dec. 1974, g-Table 11.

Department of Interior, Bureau of Mines, Minerals Yearbook, 1964, h-Table 42, p. 450.

Department of Transportation, Materials Transportation Bureau, Office of Pipeline Safety Operations (MTP-40), j-Personal Communication.

ALTERNATION OF TAXABLE

	11.		

AIR CARRIER	<u>1964</u>	<u>1973</u>	1974
Revenue passenger-miles per capita			
Domestic operations			200.0
Certificated, all services	235.7	621.7	632.3
Scheduled service	230.9	602.0	613.7
Non-scheduled service	4.7	19.7	18.6
International operations	07.0	000.0	101.0
Certificated, all services	87.6	209.2	191.0
Scheduled service	75.1	169.8	157.0
Non-scheduled service	12.6	39.4	34.0
Revenue passenger-miles per aircraft (millions)			
Domestic and international operations,	20.0	70.7	70.0
certificated route air carriers, all services	32.6	70.7	72.2
Available seat-miles per capita			
Domestic operations			
Certificated, all services	427.3	1,191.5	1,130.7
Scheduled service	421.3	1,166.1	1,106.4
Non-scheduled service	6.0	25.4	24.3
International operations			
Certificated, all services	148.5	353.4	336.4
Scheduled service	134.9	314.0	298.6
Non-scheduled service	13.6	39.4	37.8
Revenue ton-miles of freight ¹ per capita			
Domestic operations			
Certificated, all services	5.4	13.7	13.5
Scheduled service	4.3	13.4	13.3
Non-scheduled service	1.1	0.3	0.3
International operations	1.1.	0.0	0.0
Certificated, all services	2.8	11.0	11.3
Scheduled service	2.5	9.1	9.8
Non-scheduled service	0.2	1.9	1.5
17011 Bolloution Bol vice	0.2	1.0	0

¹ Excludes ton-miles of mail, express, excess baggage and passengers.

Note: Per capita figures are based on 1964, 1973 and 1974 total resident populations of 191,141,000, 209,844,000 and 211,389,000 respectively. (Excludes armed forces abroad.) Source: Statistical Abstract of the U.S., 1975, p.5.

GENERAL AVIATION	1964	1973	1974
Average number of persons per one eligible aircraft	2,154	1,367	1,309
Total number of miles flown per capita	11.4	17.8	19.1
Total number of miles flown per aircraft	24,575	24,284	25,032
Total flight time per capita (minutes)	4.9	8.6	9.2
Total number of hours flown per aircraft	176.9	195.4	201.2
HIGHWAY			
Average number of persons per one mile of rural highw	•		
Under state control	280.5	295.4	299.3
Under local control	81.5	93.3	94.0
Under Federal control	1,504.1	972.6	943.1
Total rural roads	60.6	65.1	66.5
Average number of persons per one mile of municipal highway			
Under state control	3,076.7	2,568.7	2,513.8
Under local control	445.2	381.8	381.9
Total municipal mileage	388.9	332.4	331.5
Average number of persons per one mile of rural			
and municipal highway	52.5	55.1	55.4
Average number of autos per one mile of rural highway			
Under state control	105.2	142.4	147.6
Under local control	30.6	45.0	46.4
Under Federal control	564.0	469.0	465.2
Total rural roads	22.7	31.9	32.8
Average number of autos per one mile of municipal highway			
Under state control	1,153.6	1,238.7	1,240.0
Under local control	166.9	184.1	188.4
Total municipal mileage	145.8	160.3	163.5
Average number of autos per one mile of rural and			
municipal highway	19.7	26.6	27.3

AUTOMOBILE	1964	1973	1974
Average number of persons per registered vehicle			
Passenger cars and taxis	2.7	2.1	2.0
Motorcycles	196.9	48.4	42.8
Vehicle-miles of travel per capita, passenger cars,			
taxis, motorcycles			
Urban streets	1,807.2	2,822.1	2,789.9
Main rural roads	1,291.5	1,628.0	1,489.1
Local rural roads	496.2	489.1	536.2
Total travel	3,594.9	4,939.2	
10tal travel	5,594.9	4,939.2	4,815.2
Passenger-miles per capita, passenger cars	Lini	e Hodge	elijest "
and taxis, total travel	7,877.2	10,660.7	10,361.0
Vehicle-miles of travel per vehicle, passenger			a de la companya de l
cars and taxis			
Urban streets	4,819.8	5,852.3	5,656.1
Main rural roads	3,444.3	3,376.2	3,018.9
Local rural roads	1,323.5	1,014.3	1,087.1
Total travel	9,587.6	10,242.8	9,762.1
			T30130
Passenger-miles per vehicle, passenger			
cars and taxis	21,008.1	22,108.1	21,005.1
		4 55-1	-1
BUS			
	day yayan		
Average number of persons per intercity bus	9,323	10,089	10,262
Vehicle-miles per capita			
Commercial buses	15.1	12.1	12.3
School and non-revenue buses	9.0	11.5	11.6
All buses	24.1	23.6	
ZIII DUBUS	24.1	23.0	23.9
Vehicle-miles per capita, all buses			
Urban streets	11.0	9.7	9.8
Main rural roads	8.3	8.6	8.9
Local rural roads	4.8	5.3	5.2
Total travel	24.1	23.6	23.9
	24.1	20.0	20.9
Revenue passenger-miles per capita			
Total intercity bus	121.9	125.8	130.6
Revenue passenger-miles per vehicle			
Total intercity bus (millions)	1.1	1.3	1.3
•/	1.1	1.0	1.0

TRUCK	1964	1973	1974
Average number of persons per registered truck			
Private and commercial	14.4	9.5	9.0
Federal	1,868.4	1,227.2	1,188.0
State, county, municipal	308.2	236.8	224.9
Total	13.6	9.0	8.6
Vehicle-miles per capita, all trucks			
Urban streets	295.9	539.2	540.9
Main rural roads	356.7	569.6	612.8
Local rural roads	133.0	164.2	107.9
Total travel	785.6	1,273.1	1,261.6
Vehicle-miles per truck registration	,		
Urban streets	4,034.6	4,870.4	1 6 1 0 0
Main rural roads	4,863.4	5,145.1	4,648.3
Local rural roads	1,812.9		5,266.4
Total travel	10,710.9	1,483.1	927.3
	10,710.9	11,498.7	10,842.0
Intercity ton-miles per capita	1,817.9	2,406.5	2,341.7
LOCAL TRANSIT			
Revenue vehicle-miles per vehicle			
Motor bus	31,055	28,381	29,384
Subway and elevated	43,682	43,390	45,932
Surface rail	27,624	27,780	25,187
Trolley coach	26,381	32,368	
Total transit	32,682	30,787	24,513 31,849
Revenue vehicle-miles per capita			
Motor bus	8.0	6.5	6.8
Subway and elevated	2.1	1.9	2.0
Surface rail	0.2	0.1	0.1
Trolley coach	0.3	0.1	
Total transit	10.6	8.7	0.1 9.0
Average number of persons per vehicle			
Motor bus	3,885	4,345.9	4,340.6
Subway and elevated	21,095	22,354.7	22,481.0
Surface rail	123,079	186,860.2	197,930.0
Trolley coach	102,489	264,287.2	294,413.6
Total transit	3,099	3,521.5	3,529.7
	-,	-,	0,020.1

1	WATER TRANSPORT	1964	1973	<u>1974</u>
	Ton-miles per capita, domestic water		4 204 4	1 507 1
	Coastwise	1,631.6	1,561.4	1,527.1
	Internal	533.2	819.1	866.7
	Lakewise	383.2	399.2	373.2
	Local	9.4	6.6	6.9
	Total	2,557.4	2,786.3	2,773.8
	Domestic deep sea ton-miles per capita	1,240.0	1,077.0	1,088.0
	Tons of freight hauled per capita, domestic water	ri II	e Nove	
	Coastwise	1.1	1.1	1.1
	Internal	1.9	2.4	2.4
	Lakewise	0.8	0.7	0.7
	Local	0.5	0.4	0.4
	Total	4.3	4.7	4.6
	CLASS I RAILROADS			
	D. de management miles non conito			
	Revenue passenger-miles per capita	22.0	19.4	20.7
	Commutation	73.5	5.9	6.7
	Other	95.5	25.3	27.4
	Total	30. 0	20.0	
	Revenue passenger-miles per passenger car (millions)	0.8	1.0	1.0
	Revenue ton-miles per capita	3,445.8	4,058.4	4,025.6
	Revenue ton-miles per freight car (millions)	0.4	0.6	0.6
	4.00	- 2		
	Average number of persons per vehicle		LTDE	
	Freight cars	128.4	150.4	157.8
	Passenger cars	8,289.9	39,150.0	37,060.0
	Locomotives	6,754.1	7,663.6	7,651.5
	Total	124.1	151.0	266.2
	OIL PIPELINE			
	Intercity ton-miles per capita, regulated			
	plus non-regulated pipelines	1,405.8	2,416.1	2,393.7
	plus non-regulated pipermes	_,,		
	Intercity ton-miles per mile of line, regulated			- 10
	plus non-regulated lines (millions)	1.3	2.3	2.3
				2.0
	Tons of petroleum transported per capita	2.9	4.3	4.3
	Tons of petroleum transported per mile of line	2,651.0	4,101.5	4,050.0

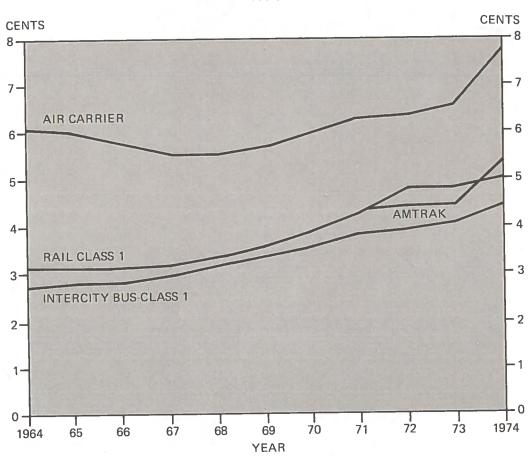
TRANSPORTATION TRENDS

Table 1. Average Passenger Revenue Per Passenger-Mile, 1964-1974 (Cents)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Certificated air carrier domestic operations ¹ Total First class Coach plus economy	6.12 7.26 5.58	6.06 7.33 5.52	5.83 7.24 5.28	5.64 7.24 5.13	5.61 7.33 5.11	5.79 7.78 5.27	6.00 8.30 5.45	6.32 8.58 5.82	6.40 8.70 5.88	6.63 8.93 6.11	7.52 9.89 6.94
Class I rail ² Total Commutation Other than commutation	3.17 3.20 3.16	3.18 3.30 3.14	3.18 3.33 3.13	3.20 3.36 3.13	3.39 3.49 3.33	3.61 3.55 3.63	3.91 3.75 4.02	4.24 3.92 4.85	4.79 4.22 6.66	4.88 4.29 6.81	4.98 4.44 6.75
AMTRAK* Total Commutation Other than commutation			-	_ _ _	=	=	136	4.32 2.89 4.38	4.37 2.97 4.42	4.40 3.46 4.44	5.23 3.52 5.29
Class I intercity bus ³	2.80	2.88	2.89	2.98	3.18	3.39	3.60	3.83	3.98	4.05	4.41 ^p

Sources: See page 88.

Average Passenger Revenue Per Passenger-mile 1964 - 1974



Ppreliminary.
 Scheduled service.
 Excludes AMTRAK service; 1974 figures calculated at DOT/TSC.
 Regular route intercity service.
 AMTRAK established May 1, 1971.

Table 2. Average Freight Revenue Per Ton-Mile, 1964-1974 (Cents)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Air carrier certificated, domestic operations, scheduled service	20.97	20.46	20.21	19.90	19.97	21.03	21.91	22.61	22.75	23.30	25.92
Class I rail	1.28	1.27	1.26	1.27	1.31	1.35	1.43	1.59	1.62	1.62	1.85
Class I intercity motor carriers of property ¹ Common Contract	6.66 7.85	6.46 7.66	6.34 7.31	6.65 7.36	6.93 7.23	7.21 7.35	7.46 6.85	7.85 7.20	8.00 7.02	8.34 6.68	9.00 ^p 7.00 ^p
Oil pipelines	0.30	0.28	0.27	0.26	0.26	0.27	0.27	0.29	0.29	0.29	0.32
Class A and B water carriers	0.45	0.44	0.43	0.38	0.40	0.41	0.43	0.47	0.47	0.55	0.67

 $^{\mathbf{p}}$ Preliminary

¹ Intercity service.

Sources: See page 88.

Average Freight Revenue Per Ton-Mile 1964 - 1974

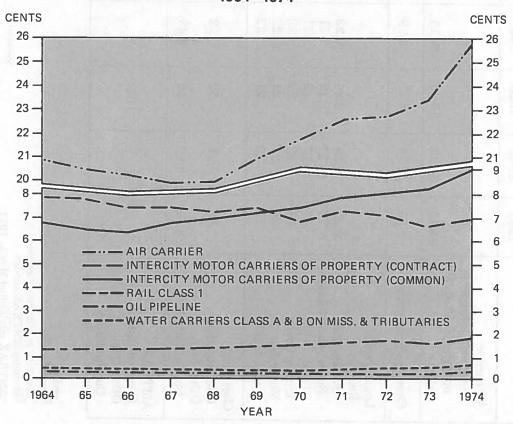


Table 3. Average Passenger Fare, 1964 - 1974 (Dollars)

1970 1971 1972 1973 18 40.71 43.08 43.87 45.72 51 3.81 4.19 4.25 ^T 4.73 ^T 5. 3.81 4.19 4.25 ^T 4.73 ^T 5. 2.23 2.24 2.25 2.26 2.26 2.4 2.28 3.2 3.2 2.9 3.2 3.4 3.4 2.9 3.0 3.1 3.32 3.19 1.92 ^T 1.47 ^T 1.54 ^T 1.14 1.11 1.172 1 1 9.58 9.31 11.72 1												1
1 domestic secheduled 34.12 33.40 33.15 33.70 37.52 40.71 43.08 43.87 45.72 51 1		1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
scheduled 34.13 34.12 33.40 33.15 33.70 37.52 40.71 43.08 43.87 45.72 51 ntercity. 2.55 2.73 2.71 2.79 2.91 3.55 3.81 4.19 4.26 4.73 5. follows a contact of the levated 1.7 1.7 1.9 2.1 2.2 2.3 2.4 2.4 2.8 2.8 2.8 1.32 1.7 1.7 1.9 2.1 2.2 2.3 2.4 2.4 2.8 2.8 3.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	Air carrier Certificated domestic	H			1. == ==						1201	
ntercity¹ 2.55 2.73 2.71 2.79 2.91 3.55 3.81 4.19 4.25 ⁷ 4.73 ⁷ 5. 1	operations scheduled service	34.13	34.12	33.40	33.15	33.70	37.52	40.71	43.08	43.87	45.72	51.43
iii 0.23 0.24 0.24 0.23 0.24 0.25 0.27 0.26 0.27 0.27 3.6 3.9 iii 0.23 0.24 0.24 0.23 0.24 0.25 0.27 0.26 0.27 0.27 3.6 3.9 iii 0.23 0.24 0.24 0.23 0.24 0.25 0.27 0.26 0.27 0.27 3.6 3.9 ich 1.7 1.7 1.9 21 21 22 23 24 24 28 3.2 ich 2.0 21 21 22 22 23 28 3.8 3.48 3.16 3.15 3.19 1.92 1.47 1.54 ioh 3.86 3.92 3.83 3.48 3.16 3.15 3.19 1.92 1.47 1.18 1.94 ioh 0.0 3.8 3.9 3.48 3.16 3.15 3.19 1.14 1.18 1.17 1.17 1.17 1.17 1.17 1.17 1.17	Class I bus, intercity ¹	2.55	2.73	2.71	2.79	2.91	3.55	3.81	4.19	4.25 ^r		5.32 ^p
in clevated 0.23 0.24 0.24 0.23 0.24 0.25 0.27 0.26 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	Local transit			R								
nd elevated 1.17 1.19 2.1 2.2 2.3 2.4 2.5 2.6 2.6 1.26 1.27 1.0	Railway	0.93	0 9.4	0.24	0.23	0.24	0.25	0.27	0.26	0.27	0.27	.28
ch 17 19 21 22 24 24 25 26 28 28 28 28 28 28 28 28 28 28 28 28 28 39 31 32 31 32 31 32 34 34 34 34 34 34 34 34 34 34 34 34 34 32 36 30 31 32 31	Sulface rain	17	17	.19	.21	.21	.22	.23	.24	.25	.26	.34
ch 21 22 22 23 24 28 28 32 32 34 32 36 30 31 32 32 36 30 31 32 30 31 32	Total	17	17	19	.21	.21	.22	.24	.24	.25	.26	.34
on	Theller	51	66	22	.22	.23	.23	.24	.28	.28	.32	.29
1 . 19 . 20 . 21 . 22 . 23 . 25 . 28 . 30 . 31 . 32	Motor bus	200	21	21	.22	.23	.26	.29	.32	.34	.34	.32
on .68 .71 .72 .75 .78 .84 .87 ² .95 ² .95 ² .95 ² .ion 3.86 3.92 3.83 3.48 3.16 3.15 3.19 1.92 ² 1.47 ² 1.54 ² on .10	Grand total	19	.20	.21	.22	.23	.25	.28	.30	.31	.32	.32
on .68 .71 .72 .75 .78 .84 .87 ² .93 ² .95 ² .95 ² sion 3.83 3.48 3.16 3.15 3.19 1.92 ² 1.47 ² 1.54 ² on .154 ² on .154 ² sion 9.58 9.31 11.72 1						T on						e fi
sion 3.86 3.92 3.83 3.48 3.16 3.15 3.19 1.92² 1.47² 1.54² on sion	Commutation	.68	.71	.72	.72	.75	.78	.84	.872	.932	.952	1.002
on 1.14 1.18 1.94	Other than Commutation	3.86	3.92	3.83	3.48	3.16	3.15	3.19	1.92^{2}	1.472	1.542	1.56^{2}
on 1.14 1.18 1.94 1.94 1.10 1.72	*		A King		7					1	57	
tion 9.58 9.31 11.72	AMTRAK								1.14	1.18	1.94	1.65
	Other than Commutation								9.58	9.31	11.72	14.54

revised
Ppreliminary
Intercity regular route service
2 excludes AMTRAK service
*AMTRAK established May 1, 1971.

Sources: See page 89.

Average Passenger Fare, 1964 - 1974

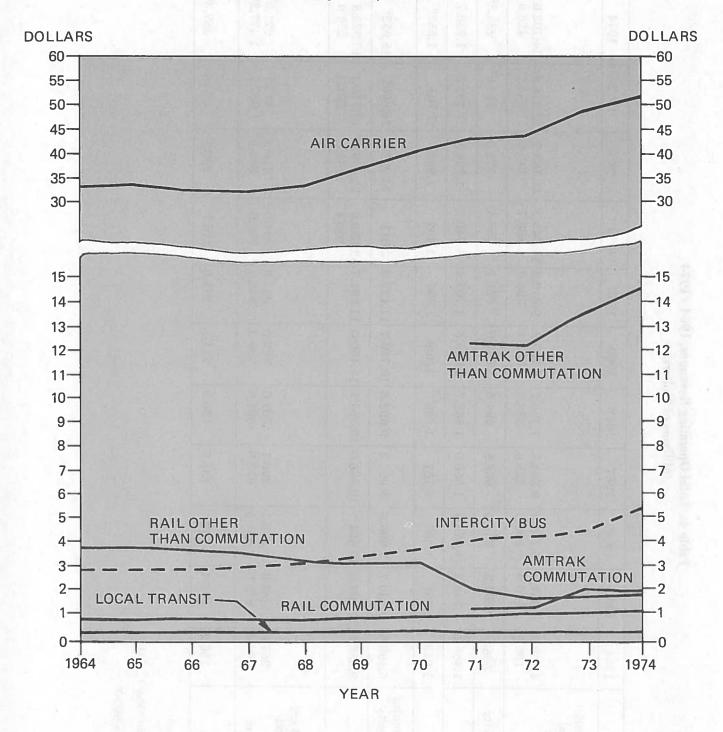


Table 4. Total Operating Revenues, 1964 - 1974 (Millions of Dollars)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Air carrier, domestic and international Certificated, all services Supplemental	4,250.9	4,957.9	5,745.0 209.2	6,864.7	7,753.2	8,790.9 361.4	9,240.2 336.9	10,045.7	11,163.3 331.1	12,418.8 374.2	14,702.6 428.9
Class I bus, intercity	595.4 ^r	607.3	644.3	9.699	694.6	677.0	721.7	758.4	775.3	814.6 ^r	925.3P
Local transit	1,480.1	1,143.8	1,478.5	1,556.0	1,562.7	1,625.6	1,707.4	1,740.7	1,728.5	1,797.6	1,939.7
Oil pipeline	1,013	1,051	1,096	1,157	1,205	1,309	1,396	1,492	1,593	1,701	1,582 ^p
Class I intercity motor carriers of property	6,199.5	7,130.7	7,896.6	8,091.3	9,592.8	9,592.8 10,769.7 11,137.0 13,011	11,137.0	13,011	14,994	16,600 ^r	15,952 ^p
Class I rail AMTRAK*	9,856.5 10,207	00	10,654.7	10,654.7 10,366.0	10,854.7	11,450.3	11,991.7	12,689.0 100.1	13,409.8 ^r 162.6	14,770.1 ^r 202.1	16,922.8
Water transport Classes A and B carriers, inland and coastal Maritime carriers	257.9 704.8	282.6 678.9	298.1 654.5	296.1 673.9	307.6	327.5 739.3	371.8 832.7	394.0 749.0	416.5 884.9	473.7° 1,087.2	621.9 ^p 1,477.2 ^p
Class A freight forwarders	156.2	155.4	180.0	185.7	196.9	211.1	211.0	216.1	252.7	326.4 ^r	357.3 ^p

ppreliminary estimate

revised *AMTRAK established May 1, 1971

Sources: See pages 89-90.

Total Operating Revenues, 1964 - 1974

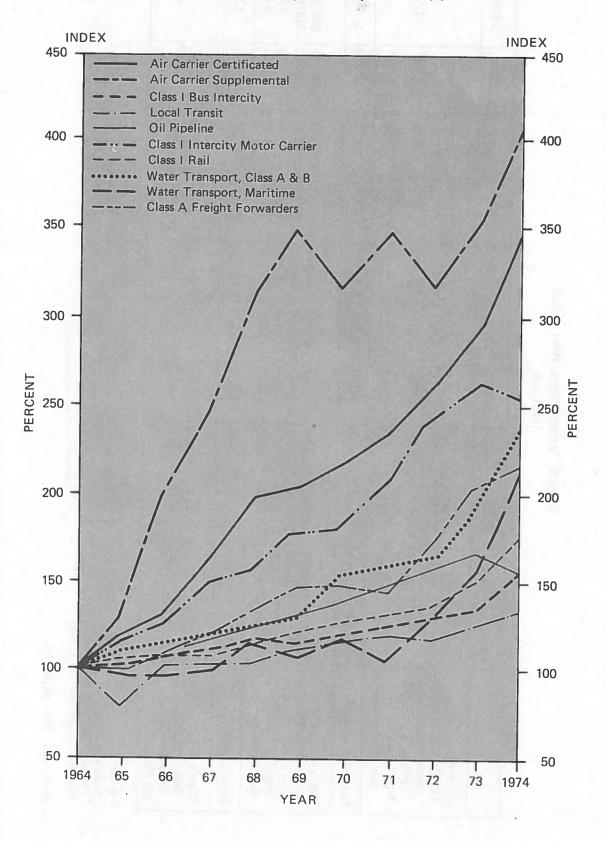


Table 5. Vehicle-Miles, 1964 - 1974 (Millions)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Air carrier											
operations, all	866	1,134	1,237	1,538	1,779	2,080	2,065	2,045	2,042	2,097	1,938
Supplemental	n/a	n/a	n/a	42	20	43	34	36	33	35	31
General aviation	2,181	2,562	3,336	3,440	3,700	3,926	3,207	3,143	3,571	3,729	4,043
Highway Passenger car and taxi 677,613 ¹ 706,386 Truck Intercity bus 1,183 1,157 1,724 1,763	677,613 ¹ 164,271 1,183	706,386 171,436 1,157 1,763	744,844 173,905 1,200 1,884	766,466 182,456 1,205 1,870	805,693 196,651 1,190 1,937	849,633 206,680 1,195 2,030	890,844 214,670 1,209 2,100	939,102 227,037 1,202 2,212	986,407 259,735 1,182 2,359	1,016,861 267,147 1,178 ^r 2,412	995,544 266,694 1,188 2,450
Local transit	2,016	2,008	1,984	1,997	1,989	1,967	1,883	1,846	1,756	1,835	1,907
Class I rail Passenger train Freight train AMTRAK*	184	172	164	150	123	107	93	53 ² 430 ² 16	33² 451² 26	33² 469²r 27	34 ² 469 ² 30

revised
Includes motorcycles.
² Excludes AMTRAK operations.
*AMTRAK established May 1, 1971.

Sources: See page 90.



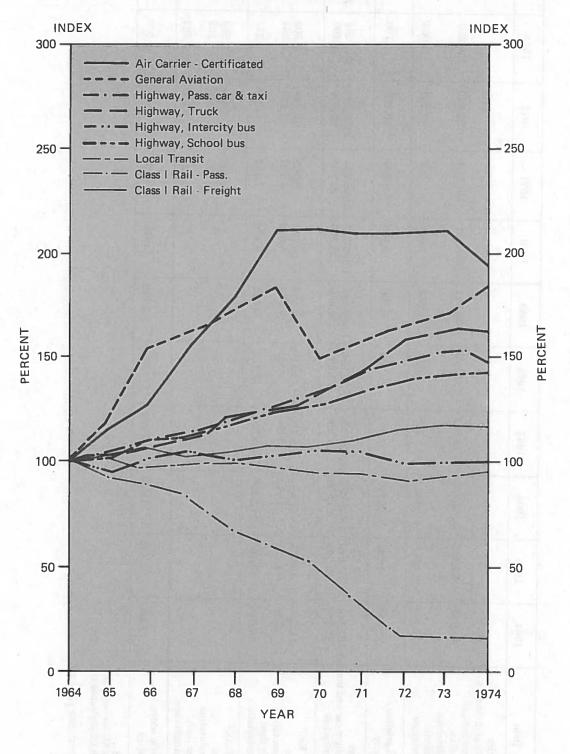


Table 6. Passenger-Miles, 1964 · 1974 (Millions)

Item	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Air carrier Certificated domestic				Į.							
operations, all services	45,046	53,226	63,085	79,522	92,112	109,541	108,451	109,804	121,820	130,450	133,666
Supplemental domestic operations	n/a	n/a	n/a	402	1,620	1,560	1,057	914	1,281	2,006	1,802
General aviation, intercity	3,700	4,400	5,700	7,000	8,200	8,800	9,100	9,300	10,000	10,700	11,000
Highway Passenger car and taxi In 1,490,749 Intercity bus	1,490,749	1,554,049	1,638,657	1,686,225	1,772,525	1,869,193	1,959,857	2,066,024 25,500	2,170,095	2,237,094	2,190,197
Class I Rail¹ Total Commutation	18,244	17,378	17,085	15,192 4,281	13,110 4,383	12,159 4,546	10,739	6,908	5,354	5,302	5,800
Other than commutation	14,048	13,260	12,903	10,920	8,737	7,623	6,179	2,481	1,249 ^r	1,238	1,423
AMTRAK* Total Commutation								1,993	3,039	3,806	4,258
Other than Commutation								1,922	2,930	3,624	4,102
Domestic water, intercity	2,800	3,100	3,400	3,400	3,500	3,800	4,000	4,100	4,000	4,000	4,100

revised
AMTRAK not included.
*AMTRAK established May 1, 1971.

Sources: See page 91.

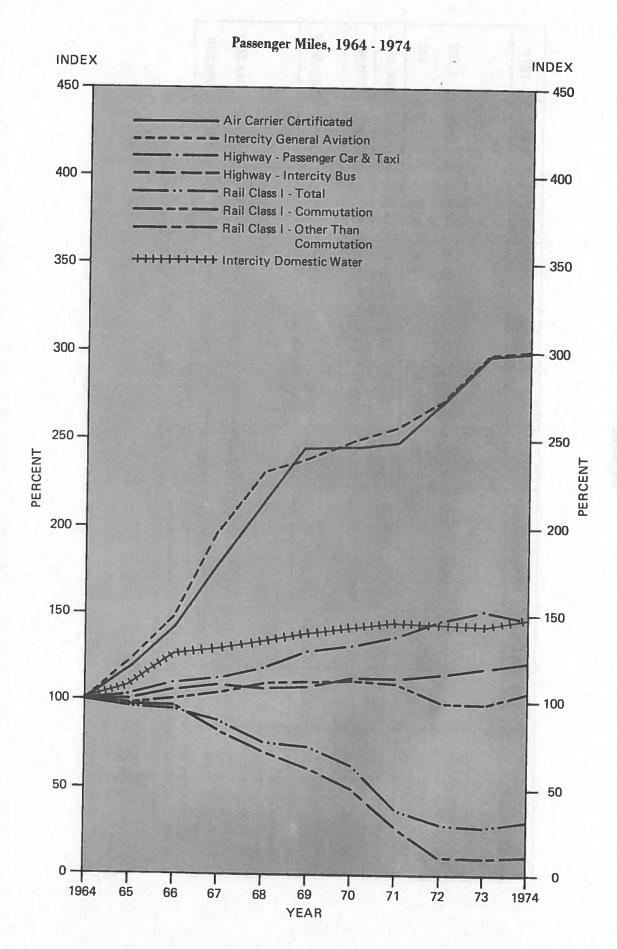


Table 7. Cargo-Ton-Miles, 1964-1974 (Millions)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Air carrier					4	9,					
operations, all	1,294	1,670	1,985	2,310	2,590	3,295	3,010	3,151	3,403	3,662	3,632
Supplemental domestic operations ²	185	220	254	264	298	279	285	306	259	292	281
Oil pipeline	268,655	306,393	332,916	361,041	391,300	391,300 411,000	431,000 444,000	444,000	475,800	507,000	506,000P
Class I rail	658,639	697,878	738,395	719,498	744,023	767,841	764,809 739,743	739,743	776,746	851,809	850,961
Motor vehicles, intercity	356,000	359,000	380,917	388,500	396,300	404,000	412,000	445,000	470,000	505,000	495,000P
Water transport								ab. I			ngirma m
including Great	250,165	262,421	280,527	281,400	291,409	302,901	318,560 315,030	315,030	338,693	358,222r	348,200 ^p
Total domestic system	488,829	489,803	507,084	515,387	520,633	528,897	596,195	593,164	603,542	584,691	586,345

¹ Includes revenue ton-miles of freight, U.S. and foreign mail, and express
² Includes revenue ton-miles of freight and express. Supplemental carriers are not ordinarily authorized to carry mail. Alaska air routes included since 1969.

p_{preliminary}

revised

Sources: See pages 91-92.

Cargo Ton-Miles 1964 - 1974

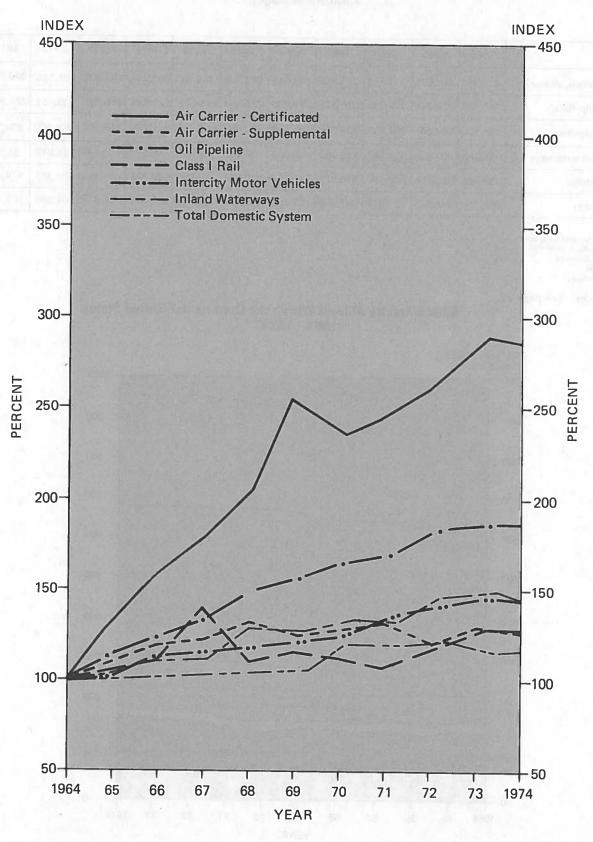


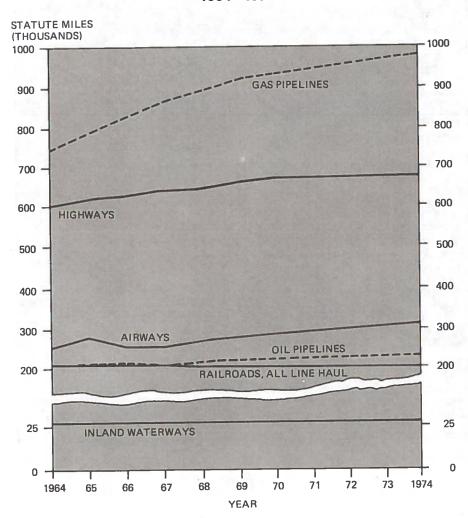
Table 8. Basic Intercity Mileage Within the Continental United States, 1964 - 1974 (Statute Mileage)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Railroads, all line haul	212,603	211,925	211,107	209,826	208,648	207,526	206,265	205,220	203,299	201,585 ^r	200,000 ¹
Oil pipelines ¹	210,807	213,764	216,745	209,478	213,555	216,453	218,617	219,899	221,127	222,355	223,353*
Gas pipelines ²	736,200	767,500	799,600	828,300	861,600	891,600	914,800	932,000	950,200	964,400	976,700
Inland waterways	25,380	25,380	25,380	25,380	25,380	25,543	25,543	25,543	25,543	25,543	25,543
Highways	606,154	617,114	628,600	640,313	648,768	657,601	665,903	672,838	678,485	679,387	679,934
Airways	263,348	288,275	259,083	264,165	277,554	283,861	291,231	295,301	300,126	304,260	307,783

¹ Includes gathering lines. ² Excludes service pipe *TAA Estimate

Sources: See page 92.

Basic Intercity Mileage Within the Continental United States 1964 - 1974



r revised

 $[\]mathbf{p}_{preliminary}$

Table 9. Number of Vehicles, 1964 - 1974

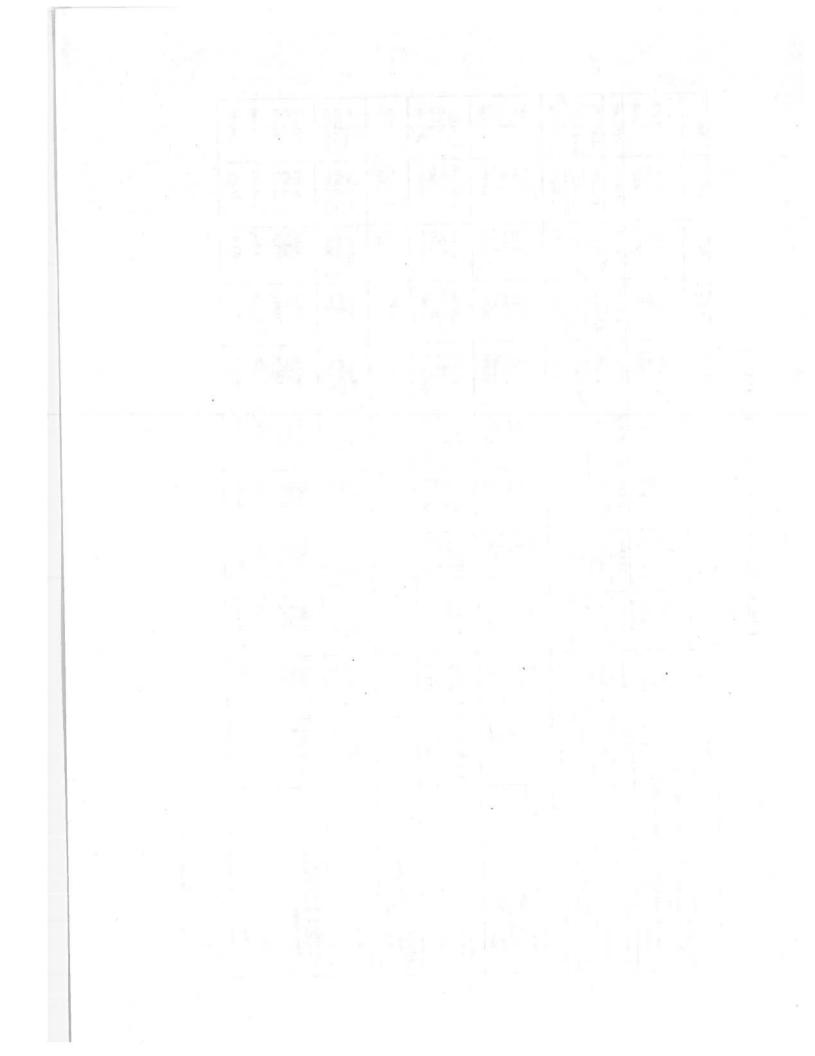
	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	-
Air Carrier Domestic and International certificated all services Domestic and International supplemental Total	1,894	n/a n/a n/a	2,082 237 2,319	n/a n/a	2,406 232 2,638	n/a n/a n/a	2,569 195 2,690	2,536 184 2,720	2,518 156 2,674	2,467	1
General Aviation	88,742	95,442	104,706	114,186	124,237	130,806	131,743	131,148	145,010	153,540	161.502
Motorcycle	984,763	1,381,956	1,752,801	1,953,022	2,100,547	2,315,916	2,814,730	3,345,179	3,774,996	4,332,580	4.936.805
Passenger Car & Taxi	71,982,740	75,251,386	78,122,965	80,414,180	83,692,699	86,861,334	89,279,864	92,799,052	96,859,746	101,762,477	104.898.256
Intercity Bus ^r	20,500	19,800	20,400	20,800	21,000	21,600	22,000	21,900	21,400	20,800	20,600P
Local Transit Motorbus Subway & Elevated Surface Rail Trolley Coach Total	49,200 9,061 1,553 1,865 61,679	49,600 9,115 1,549 1,453 61,717	50,130 9,273 1,407 1,326 62,136	50,180 9,257 1,388 1,244 62,069	50,000 9,390 1,355 1,185 61,930	49,600 9,343 1,322 1,082 61,347	49,700 9,338 1,262 1,050 61,350	49,150 9,325 1,225 1,037 60,737	49,075 9,423 1,176 1,030 60,074	48,286 9,387 ¹ 1,123 ⁷ 794 ⁸	1
Class I Rail Freight Cars Locomotives Passenger Cars & Pullman Total	1,488,385 28,300 23,057 1,539,742	1,478,005 27,816 21,327 1,527,148	1,488,115 27,886 20,016 1,536,017	1,477,166 27,687 18,610 1,523,463	1,453,883 27,376 15,384 1,496,643	1,434,824 27,033 12,426 1,474,283	1,423,921 27,086 11,177 1,462,184	1,410,160 27,189 ^r 7,548 1,444,897	1,381,038 27,073 5,974 1,414,085	1,356,944° 27,382° 5,360° 1,389,686°	1,339,223 27,627 5,704 1,372,554
Amtrak* Passenger Cars & Pullman Locomotives	11	11	- 1 1	11	11	1.1	11	1,165	1,571	1,777	1,848
Truck Combinations Single Unit Total	738,000 13,275,000 14,013,000	787,000 14,008,000 14,795,000	823,000 14,694,000 15,517,000	830,000 15,363,000 16,193,000	871,000 16,124,000 16,995,000	929,000 16,942,000 17,871,000	960,000 17,778,000 18,748,000	974,000 18,828,000 19,802,000	990,000 20,249,000 21,239,000	1,028,000 22,205,000 23,233,000	1,065,000
Non-self-propelled vessels" Dry Cargo Barges & Scows Tank Barges Total	14,241 2,548 16,789	14,241 2,548 16,789	15,830 2,781 18,611	15,379 3,001 18,380	15,379 3,001 18,380	15,890 3,281 19,171	16,439 3,185 19,624	17,527 3,420 20,947	18,804 3,313 22,117	19,772 3,375 23,147	21,876 3,534 25,410
Towboats & Tug ^{r;}	4,054	4,054	4,395	4,284	4,284	4,248	4,230	4,278	4.064	4.035	4 100
Total Vessels ^{r1}	20,843	20,843	23,006	22,664	22,664	23,419	23,854	25,225	26.181	97 189	2,4,6

revised

As of December 31 of year indicated

*AMTRAK established May 1, 1971

Sources: See pages 92-93.



SUPPLEMENTARY DATA Part 1: Transportation and the Economy

Table 10. Personal Consumption Expenditures by Transportation Sector, 1964 - 1974 (Millions of Dollars)

		_			
1974	115,330		107,967 41,030 6,942 17,735 36,447 748 5,065	2,812 1,720 892 200	4,551 259 616 3,484 192
1973	110,503		103,959 47,958 6,424 15,380 28,295 786 5,116	2,632 1,617 835 180	3,912 204 545 2,988 175
1972	101,438		95,345 44,860 5,691 13,922 24,879 745 5,248	2,604 1,585 842 177	3,489 176 523 2,637 153
1971	2		85,116 38,631 5,119 12,532 23,396 689 4,749	2,600 1,596 828 176	3,199 155 525 2,347 172
1970	78,032		72,503 30,343 4,587 11,248 21,997 643 3,685	2,521 1,573 776 172	3,008 185 496 2,166 161
1060	76,942		71,628 33,403 4,304 9,945 20,371 603 3,002	2,407 1,493 752 162	2,907 206 470 2,086 145
1060	71.627		66,671 31,861 3,944 8,864 18,422 18,422 3,017	2,293 1,411 729 153	2,663 227 475 1,838 123
2007	1901	22,52	58,259 26,128 3,568 8,004 17,014 517 3,028	2,236 1,399 692 145	2,425 270 466 1,582 107
000	1966	000,10	56,759 26,636 3,434 7,393 15,962 495 2,839	2,121 1,343 638 140	2,128 297 429 1,329
	1965	00,00	54,240 26,578 3,223 6,901 14,696 463 2,379	2,061 1,313 612 136	1,904 284 375 1,191
	1964	607,20	48,510 22,833 3,118 6,492 13,530 421 2,116	2,042 1,313 595 134	1,707 280 335 1,044 48
	Item	Transportation Total	User-Operated Transportation Total New Cars and Net Purchases of Used Cars Tires, Tubes, Accessories and Parts Maintenance Gasoline & Oil Tolls Insurance	Purchased Local Transportation Total Street, Electric, Railway and Local Bus Taxicab Railway (commutation)	Purchased Intercity Transportation Total Railway (non-commutation) Intercity Bus Airline Other

revised by U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark Revision.

Sources: See page 93.



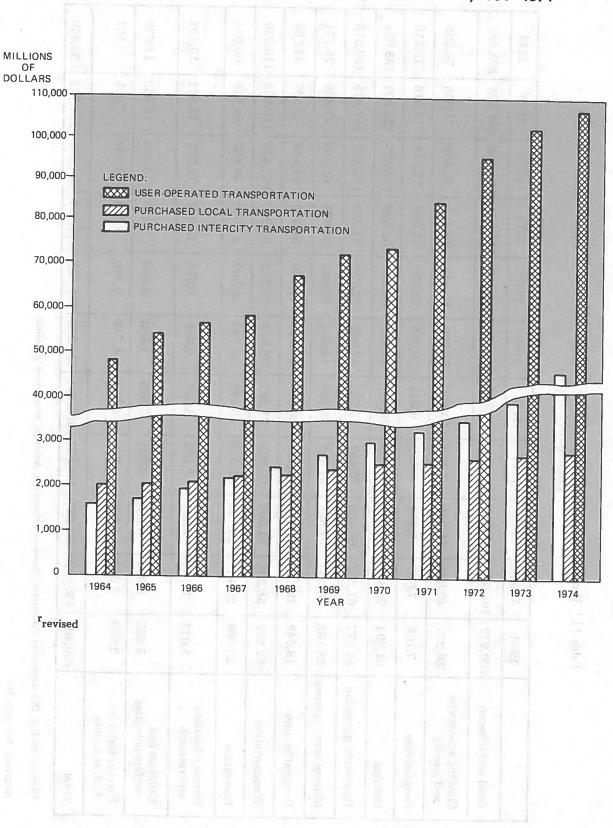


Table 11. Personal Consumption Expenditures by Type of Product, 1964 - 1974 (Millions of Dollars)

	1964	1965	1966	1961	1968	1969	1970	1971	1972	1973	1974
Food and tobacco	100,272	106,966	115,108	118,530	127,704	135,813	147,140	151,933	162,620	181,104	203,131
Clothing accessories and jewelry	38,277	40,304	44,091	46,149	50,276	54,009	55,619	59,618	64,809	71,955	76,365
Personal care	7,106	7,617	8,455	9,082	9,545	10,265	10,920	11,096	11,749	12,616	13,418
Housing	61,394	65,469	69,522	74,144	79,927	86,816	93,986	102,690	112,277	123,097	135,955
Household operation	57,677	61,322	66,468	70,683	76,736	82,842	87,793	94,437	105,155	117,815	130,518
Medical care expenses	28,183	30,053	32,554	35,091	38,766	44,596	49,853	54,671	61,188	67,468	75,771
Personal business	18,049	19,714	21,870	23,999	26,835	29,318	31,336	34,309	37,419	40,595	44,509
Transportation	52,259	58,205	61,008	62,920	71,627	76,942	78,032	90,915	101,438	110,503	115,330
Recreation	23,698	25,907	29,794	31,942	35,159	38,130	40,999	43,664	49,100	54,945	60,544
Private education and research	5,073	5,684	6,447	7,109	8,097	8,988	9,874	10,632	11,587	12,572	13,494
Religious and welfare activities	5,825	6,055	6,344	6,921	7,520	7,832	8,539	9,136	10,105	10,652	11,678
Foreign travel by U.S. residents	2,988	3,346	3,606	4,249	4,214	4,749	5,469	5,586	6,954	7,455	8,127
Total	400,801	430,642	465,267	490,821	536,404	580,298	619,560	668,987	734,401	810,777	888,840

rRevised by U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark Revision.

Sources: See page 93.

200 500 190 -60 180 170 180 170 160 160 Personal Consumption Expenditures by Type of Product', 1964 - 1974 150 100 110 120 130 140 150 140 9-100 110 120 BILLIONS OF DOLLARS. 1964 1974 06-8 8-80 0-2 9-.09 යු. න-40 -6 30 -8 20 -2 10 Excluding foreign travel. FOOD & TOBACCO HOUSING HOUSEHOLD OPERATION CLOTHING ACCESSORIES
AND JEWELRY MEDICAL CARE EXPENSES PERSONAL BUSINESS PERSONAL CARE FOREIGN TRAVEL BY U.S. RESIDENTS RECREATION PRIVATE EDUCATION AND RESEARCH MELFARE ACTIVITIES TRANSPORTATION 1

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Table 12. National Income by Transportation Sector, 1964 - 1974 (Millions of Dollars)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Total	21,131	23,069	24,800	25,203	27,005	28,797	30,308	32,964	36,453	41,565	45,140
Railway	6,690	7,016	7,275	6,775	6,953	7,291	7,612	7,981	8,355	9,453	9,913
Local, suburban, and highway passenger	1,750	1,897	1,957	2,040	2,216	2,153	2,308	2,476	2,464	2,582	2,818
Motor freight and warehousing	7,477	8,396	9,068	9,265	10,461	11,363	11,830	13,467	15,492	17,609	18,936
Water	1,953	1,982	2,265	2,314	2,499	2,405	2,503	2,358	2,480	2,900	3,224
Air	2,202	2,636	2,970	3,398	3,509	4,085	4,358	4,916	5,665	6,646	7,410
Pipeline	381	390	402	417	410	457	528	544	653	808	1,027
Transportation services	678	752	863	994	957	1,041	1,169	1,222	1,344	1,567	1,812

revised by U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark Revision.

Sources: See page 93.

National Income by Transportation Sector 1964 - 1974

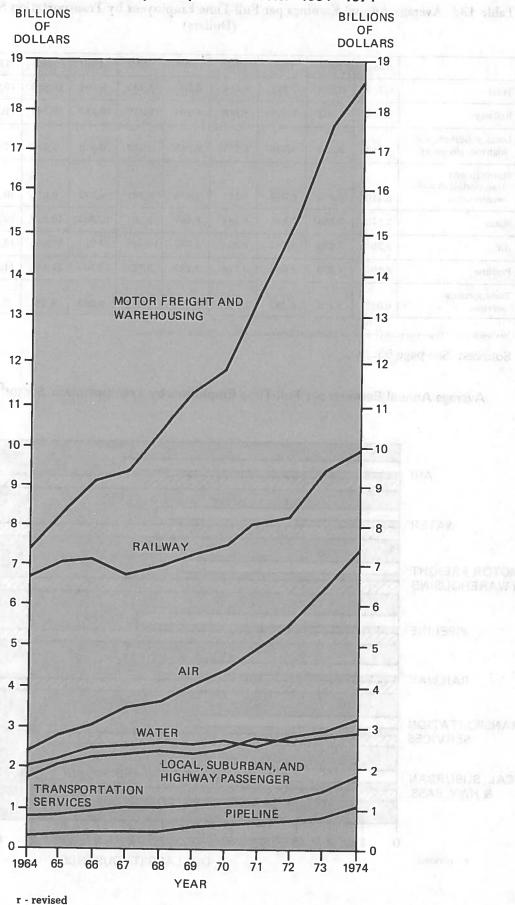


Table 13. Average Annual Earnings per Full-Time Employees by Transportation Sector, 1964 - 1974 (Dollars)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Total	6,745	6,994	7,272	7,610	8,107	8,743	9,391	10,232	10,953	11,967	12,616
Railway	7,106	7,462	7,708	8,118	8,665	9,319	10,112	11,360	11,992	13,774	14,244
Local, suburban, and highway passenger	5,412	5,550	5,745	5,921	6,218	6,537	6,875	7,196	7,451	7,880	8,552
Motor freight transportation and warehousing	6,410	6,625	6,899	7,171	7,670	8,207	8,672	9,614	10,489	11,343	11,944
Water	7,172	7,388	7,895	8,188	8,667	9,597	10,283	10,522	10,995	12,006	12,865
Air	8,263	8,496	8,742	9,253	9,782	10,817	12,027	12,948	13,946	14,738	15,660
Pipeline	8,106	8,053	8,667	8,778	9,223	9,723	10,765	11,412	11,883	13,125	14,563
Transportation services	6,012	6,276	6,453	6,723	7,187	7,667	8,262	8,634	9,141	9,730	10,465

revised by U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark Revision.

Sources: See page 93.

Average Annual Earnings per Full-Time Employees by Transportation Sector^r, 1964 - 1974

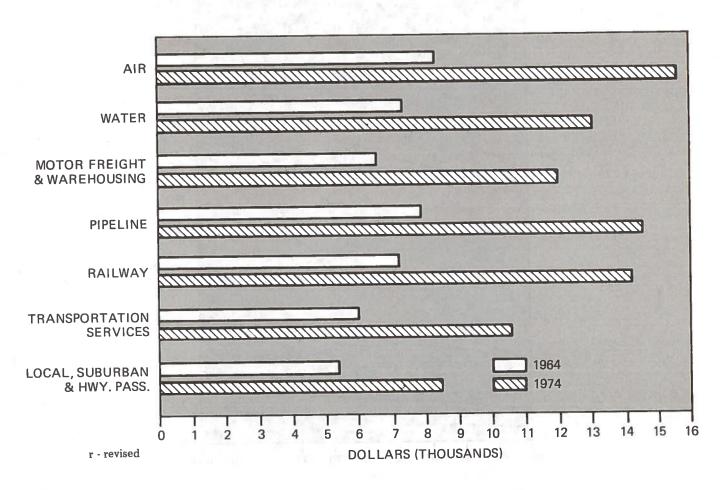


Table 14. Average Number of Full-Time and Part-Time Employees by Transportation Sector, 1964 - 1974
(Thousands)

- 1791 6081 1	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Total	2,492	2,530	2,617	2,661	2,700	2,731	2,696	2,645	2,658	2,750	2,782
Railway	756	735	724	696	667	643	626	597	575	572	577
Local and interurban passenger transit	268	270	275	283	285	284	285	283	274	271	275
Trucking and ware- housing	919	962	1,007	1,020	1,054	1,094	1,080	1,090	1,126	1,194	1,204
Water	229	225	239	241	240	225	218	199	201	202	204
Air	212	228	255	298	330	354	353	342	346	367	369
Pipeline	19	19	18	18	18	18	17	17	17	16	16
Transportation Services	89	91	99	105	106	113	117	117	119	128	137

rrevised by U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark Revision.

Sources: See page 94.

Average Number of Full-Time and Part-Time Employees by Transportation Sector^r, 1964 - 1974

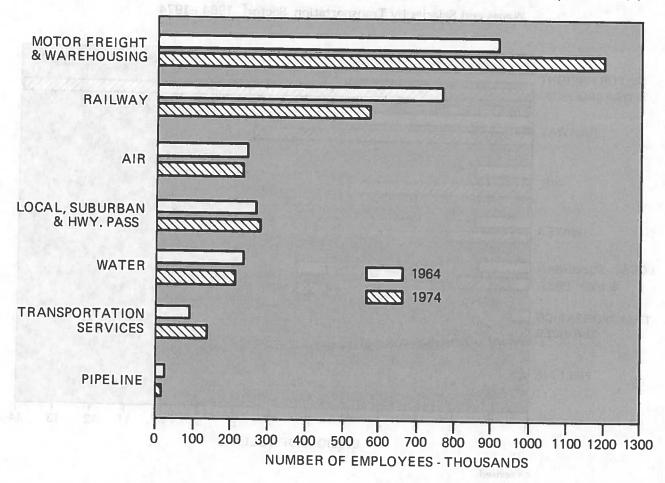


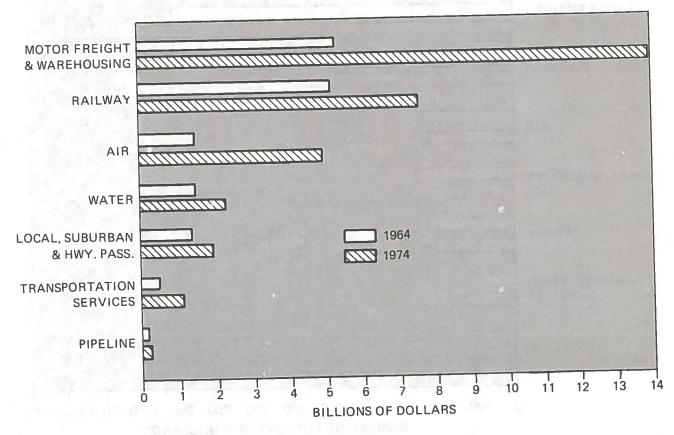
Table 15. Wages and Salaries by Transportation Sector, 1964 - 1974
(Millions of Dollars)

											7 10
107	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Total	16,235	17,190	18,485	19,617	21,214	23,029	24,350	26,049	28,027	31,568	33,695
Railway	5,301	5,447	5,542	5,593	5,727	5,936	6,269	6,691	6,799	7,782	8,147
Local and interurban passenger transit	1,353	1,404	1,482	1,569	1,660	1,719	1,808	1,878	1,885	1,962	2,138
Trucking and ware-	5,698	6,207	6,767	7,106	7,861	8,682	9,036	10,133	11,422	13,032	13,866
Water	1,549	1,581	1,792	1,875	1,976	2,044	2,108	1,978	2,089	2,281	2,470
Air	1,669	1,852	2,133	2,637	3,091	3,645	4,029	4,208	4,588	5,114	5,481
Pipe	154	153	156	158	166	175	183	194	202	210	233
Transportation services	511	546	613	679	733	828	917	967	1,042	1,187	1,360

revised by U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark Revision.

Sources: See page 94.

Wages and Salaries by Transportation Sector^r, 1964 - 1974



r - revised

Table 16, Fuel Consumation by Mode of Transport, 1964-1974

SUPPLEMENTARY DATA Part 2: Transportation, Energy and the Environment

Table 16. Fuel Consumption by Mode of Transport, 1964-1974

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Class I Railroads Locomotives Diesel Oil, gals × 10 ⁶ Fuel Oil, gals × 10 ⁶ Electricity, KWH × 10 ⁶ Coal, tons Motor Cars	3,624 85 931 6,831	3,736 77 933 3,695	3,920 65 922 3,235	3,883 47 832 2,310	3,917 42 750 1,669	3,919 33 610 1,137	3,804 578 1,238	3,819 534 1,191	3,999 	4,141 	4,112 - 467 1,160
Diesel Oil, gals × 10 ⁶ Electricity, KWH × 10 ⁶ Gasoline, gals	583 4,585	576	576	580	567	538	763	756 —	715	901	847
	85.78	4333	E N. W.	6 JL 0 L	J.C.E.	0.731	77	i			
Air Certificated Carriers Aviation Gasoline, gals × 10 ⁶ Jet Fuel, gals × 10 ⁶	589 3,830	519 4,650	398 5,670	268 7,523	128 8,891	33 10,113	15 10,085	12 10,140	13 10,302	11 10,671	n/a 9,554**
General Aviation Aviation Gasoline, gals × 10° Jet Fuel, gals × 10°	262 41	292 81	375 106	396 138	495 n/a	522 168	551 208	508 226	584 245	n/a n/a	n/a n/a
Highway Gasoline, gals × 10 ⁶ Pass. Cars + Taxis Motorcycles	47,567*	50,206 69	53,220 92	55,007 103	58,413 111	62,325 123	65,649 135	69,213 301	73,121 342	77,619 392	73,797 447
Diesel + Gasoline, gals × 10 ⁶ Commercial Buses School Buses Single unit Trucks Combination Trucks	622 242 13,199 6,271	645 249 13,504 6,431	637 259 13,636 6,779	646 264 14,470 7,203	655 277 15,674 7,808	657 290 16,528 8,199	644 300 17,237 8,363	631 316 18,221 8,865	561 320 22,118 8,600	520 327 22,755 8,860	525 333 21,116 10,083
Water Vessels² Residual Fuel Oil, gals × 106 Distillate Fuel Oil, gals × 106 Gasoline, gals × 106	3,487 672 n/a	3,093 652 n/a	3,093 699 485	3,389 734 501	3,678 766 533	3,506 793 569	3,774 819 598	3,307 880 645	3,273 929 687	3,881 ^r 1,125 717	3,827 1,019 697
Transit Electricity, KWH × 10 ⁶ Rapid Transit Surface Rail Trolley	2,171 222 204	2,185 218 181	2,075 226 166	2,194 180 157	2,250 179 157	2,291 173 154	2,261 157 143	2,262 153 141	2,149 146 133	2,098 140 93	n/a n/a n/a
Gallons of Motor Fuel, gals. X 10 ⁶ Gasoline Diesel Oil Propane	96 242 33	92 248 33	76 256 34	58 270 33	46 274 32	40 274 32	37 271 31	29 257 27	20 ^r 253 ^r 24	12 ^r 283 ^r 15	7 316 3
Pipelines (Gas & Oil) Natural Gas Cu. Ft. × 10 ⁶ 6	433,204	500,024	535,353	575,752	590,965	630,962	722,166	742,592	766,156	728,177	668,792

Sources: See page 94.

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n/a = not available

*Includes motorcycles

**Includes Aviation Gasoline.

1 Includes non-freight truck movements.

2 Vessel bunkering (including tankers). Includes purchases of fuel by all commercial vessels in U.S. ports.

3 Includes Intercity and Urban buses.

Table 17. National Emissions Data

NATIONWIDE EMISSIONS REPORT UNITED STATES

EMISSIONS AS OF: MARCH 28, 1976

Transportation (Area)	Particulates	SO _X	NO _x	HC	CO
	Tons/Yr	Tons/Yr	Tons/Yr	Tons/Yr	Tons/Yr
Land Vehicles Gasoline Light Vehicles Heavy Vehicles Off Highway Total (Gasoline) Diesel	662,555	171,774	5,637,465	8,787,467	52,517,587
	67,870	25,719	730,528	1,896,629	10,648,591
	20,020	10,478	228,262	643,624	7,296,900
	750,445	207,970	6,596,255	1,327,719	70,463,078
Heavy Vehicles Off Highway Rail Total (Diesel)	83,745	117,243	1,061,808	133,005	601,746
	49,899	44,654	552,935	60,538	155,841
	57,163	130,332	846,016	214,934	297,249
	190,807	292,229	2,460,759	408,477	1,054,836
Aircraft Military Civil Commercial Total (Aircraft)	145,872	27,855	70,077	339,391	364,313
	10,507	2,087	9,492	46,535	265,913
	5,416	7,823	75,821	99,590	205,499
	161,795	37,764	155,390	485,516	835,726
Vessels Bituminous Coal Diesel Fuel Residual Oil Gasoline Total (Vessels)	1,273	3,183	191	1,273	5,729
	18,573	23,217	173,352	45,505	60,673
	40,947	73,313	10,715	743	359
	0	2,165	9,416	319,934	1,017,192
	24,794	101,878	193,674	367,456	1,083,953
Gas Handling, Evap. Loss	0	0	0	1,193,872	0
Total (Transportation)	1,127,841	639,842	9,406,079	13,783,040	73,437,594

Source: Environmental Protection Agency, National Air Quality Branch

Table 18. Air Pollutant Emissions: 1970 and 1974 (Quantity in millions of tons per year, Estimates)

			-	CONT	CONTROLLABLE	EĮ L		Miscella-
	TE .	Transportation	rtation	Fuel co	Fuel combustion ¹	Industrial	Solid	neous,
	Total quantity	Total	Road	Total	Electric	processes	waste	trollable
1307	11		5	80	00	α	rc	9.9
:	107.3	82.3	0.1.0	27.0	20.0	6.4	T (Š)	Τ.
:	34.3	147	19.0	9 9	0.1	2.9	1.4	11.5
:	32.1 97.5	14.7	0.8	00	4.7	15.7	1.1	1.2
: :	20.4	9.3	6.9	10.1	5.5	ø.	က္	H.
	1000	767	87.0	1.0	18.2	11.0	5.1	6.2
:	100.0	2.0	42.9	78.7	74.1	18.7	0.3	0.3
	100.0	45.8	87.8	2.0	6.3	9.0	4.4	35.8
	100.0	4.4	66.7	30.2	56.6	57.1	4.0	4.4
	100.0	45.6	74.2	49.5	54.5	2.3	C.1	c.
							H	
	0.40	73.5	63.6	6.	0.3	12.7	2.4	5.1
	31.4	0 00	0.4	24.3	18.7	6.2	1	-1.5
. 1.	30.4	12.8	11.0	1.7	0.1	3.1	6 1	12.2
	10.5	1.3	6.0	5.9	က္	11.0	ů.	ó -
	22.5	10.7	8.1	11.0	7.0	0.	1.0	-!
	0	7777	α α	1.0	33	13.4	2.5	5.4
- 1	100.0	- C	50.0	77.4	77.0	19.7		0.3
:	100.0	42.1	85.9	5.6	5.9	10.2	2.0	40.1
	100.0	6.7	69.2	30.3	55.9	56.4	2.6	4.1
:	1000	47.6	75.7	48.9	63.6	2.7	0.4	0.4

Source: U.S. Department of Commerce, Bureau of Census, Statistical Abstract of the United States, 1975, 96th Annual Edition, Table 316. -Represents zero.

Stationary.

Data not comparable with prior years due to changes in calculating procedures.

Table 19. Polluting Spills Reported in U.S. Waters, 1971-1974

Spills, by Category		Number	of Inciden	ts		Total Volu	mes in Gallons	
opins, by Category	1971	1972	1973	1974	1971	1972	1973	1974
Type of location					-	1		
Inland waters	631	682	1 700	0.015	1 100 000			
Coastal waters	7,201	7,442	1,722	2,815	1,409,867	2,270,771	7,117,239	9,585,43
Open waters (Great Lakes or territorial	1,201	7,442	9,871	9,503	6,720,259	14,277,675	15,490,447	8,361,93
seas)	015	400						
Contiguous zone (from 3 to 12 miles from	315	423	571	251	37,736	24,681	419,428	108,21
coastline)	000	004						
High seas	396	801	483	164	651,177	34,793	1,218,860	24,70
riigii seas	193	583	681	1,233	20,484	2,197,812	68,944	52,34
Type of pollutant		1			1111			
Light oil ²	4.320	4.290	4.104	2,657	0.000.400	0.550.050		
Heavy oil ³	1,603	2,049	,	,	2,822,463	6,578,653	6,415,242	3,181,56
Solvent	(4)	(4)	2,851	5,084	2,934,181	1,761,301	4,538,127	12,754,81
Waste oil	930	' '	49	44	(4)	(4)	32,469	13,11
Other oil		890	1,003	1,094	164,352	8,067,043	1,211,131	111.90
Other materials (including sewage, refuse,	669	1,151	2,996	2,774	2,714,399	357,724	2,650,169	820,69
other materials (including sewage, refuse,					1.0	1		,
etc.)	269	428	774	470	115,042	2,025,897	8,339,714	1,193,73
Unknown	945	1,123	1,551	1,843	89,085	15,114	1,128,066	56,816
Source								
Vessels								
Dry cargo vessels	271	402	353	055				
Tank ships	386	453		377	418,206	42,771	650,409	90,987
Tank barges	828		825	973	1,665,264	2,583,952	4,494,524	1,434,168
Combatant vessels		830	718	833	1,197,819	3,739,144	1,572,059	2,468,724
Other vessels	261	294	246	278	440,849	40,923	17,963	39,552
Land unhigher	388	494	1,408	1,265	180,127	96,508	1,184,754	253,007
Land vehicles	77	145	305	373	101,225	172,519	741,588	785,548
Nontransportation-related facilities,							, , , , , , , , , , , , , , , , , , , ,	,
refineries	188	185	214	155	2,206,781	42.027	166,403	772,634
Pipelines	(5)	216	559	557	(5)	1,237,227	1,847,498	6,205,372
Other land transportation facilities	22	68	162	3,489	159,961	13,331	151,285	2,695,472
All other onshore and offshore facilities6	3,723	3,804	3,904	799	2,158,718	10,483,247	6,479,453	
Miscellaneous and unknown	2,592	3,040	4,634	4,867	310,573	354,083	7,009,2527	1,567,551 1,819,623
Cause	0						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,010,020
Casualty (includes collision, grounding,								
and blowouts)	214	200						
Rupture, leak, or structural failure		360	2,7938	952	3,045,719	4,082,094	16,068,447*	4,861,431
Equipment failure (valves, pumps)	2,757	2,201	1	2,352	3,715,067	4,823,322	10,000,447"	7,234,937
Personnel failure	947	1,542	1,872	2,103	274,049	293,755	800,540	1,100,005
	829	1,287	2,204	2,707	1,035,950	940,316	1,127,851	3,544,576
Deliberate discharges	359	457	599	316	50,652	68,515	2,176,509	292,193
Natural phenomenon	94	257	354	380	5,805	8,045,972	2,051,364	241,410
Unknown	3,536	3,827	5,506	5,156	712,281	551,758	2,090,207	858,086
Total spills reported	8,736	9,931	13,328	13,966	8,839,523	18,805,732	24,314,918	18,132,638

The U.S. Coast Guard has no reason to believe that the number of discharges in 1973 was any greater than in 1971 or 1972. The increase in the number reported probably reflected public awareness of the legal requirement to report discharges.

Data for 1971 and 1972 include gasoline, light fuel oil, kerosene, and light crude; 1973 data include crude oil, gasoline, and other distillate fuel oil.

Data for 1971 and 1972 include diesel oil, heating oil, heavy fuel oil, heavy crude, and asphalt; 1973 data include diesel oil, asphalt, and residual fuel oil.

Data for 1971 and 1972 are included under other categories.

Pipeline data for 1971 are included under other categories.

Changes in 1973 "sources" categories make it necessary to combine some onshore and offshore production, storage, and transfer facilities in order to compare data to those for 1971 and 1972.

Includes one 6-million-gallon sewage spill.

Changes in 1973 "cause" categories make it necessary to combine the categories of "casualty" and "rupture, leak, or structural failure."

Source: U.S. Department of Transportation, U.S. Coast Guard, "Polluting Incidents in and Around U.S. Waters," appeal (Washington, 1971, 1972, 1972), U.S. Coast Guard, "Polluting Incidents in and Around U.S. Waters," appeal (Washington, 1971, 1972, 1972), U.S. Coast Guard, "Polluting Incidents in and Around U.S. Waters," appeal (Washington, 1971, 1972, 1972), U.S. Coast Guard, "Polluting Incidents in and Around U.S. Waters," appeal (Washington, 1971, 1972, 1972), U.S. Coast Guard, "Polluting Incidents in and Around U.S. Waters," appeal (Washington, 1971, 1972, 1972), U.S. Coast Guard, "Polluting Incidents in and Around U.S. Waters," appeal (Washington, 1971, 1972, 1972), U.S. Coast Guard, "Polluting Incidents in and Around U.S. Waters," appeal (Washington, 1971, 1972, 1972), U.S. Coast Guard, "Polluting Incidents in and Around U.S. Waters," appeal (Washington, 1971, 1972, 1972), U.S. Coast Guard, "Polluting Incidents in and Around U.S. Waters," appeal (Washington, 1971, 1972, 19

Source: U.S. Department of Transportation, U.S. Coast Guard, "Polluting Incidents in and Around U.S. Waters," annual (Washington, 1971, 1972, 1973), U.S. Coast Guard, unpublished data.

Parme 3. Expenditures and Revenues, 13.4

- (1) Total Transportation: Sum of Connectic and International.
- (2) Domestics Sum of Highway, Local Jawoot, Bail, Air, Winer, and Pipeline.
 - (2) Insurational: Sun of Air Corrier and Water.
 - the Harry Sum of Auto, Truck, and Bus.
 - (5) Auto Sam of Personal Paranger Car and Taxt.
- (6) Personal Presence Car. Dor BYA, Senctional Reguler of National Income stid Product Accounts, Table 2.5, line 54.

APPENDIX A

- (7) Taxa Rud, line 15.
- Source Information
- (10) Local Trudy TAA, Transportation Lacts and Transa, 1876, p. L. prefirming estimate.
 - Hall Interesty Truck Sam of CC Regular of Trucksind Monnegulated Truck.
- (12) Its Resulated Trucks TAA, Transportation Facts and Transp. 1976, p. 4, prefigurancy estimates Resulted to the Class I, II, 40 motoric couries of property Estimates include local customs under the manufact that the majority of such levented porsults pickup and delivery of interally freight.
 - (13) Monrogulated Totals 1668
 - (14) For Sum of interests England School Bur.
- (13) Interesty flux: NAMBO, firs facts, 1978, statistical supplement, p. 1. Operation revenues of Class I, B, 43 continue exporting to the ICC plus intractal corriers includes packet getter visit.
- (16) Passengers Intensity-Part Work, p. S. Total passenger nevenues of Class I and it makes 25 percent of this amount as estimated putaenger myonass for One II and III and III and Intensitale partiers.
- (17) Sumo, Inter, ity Bue. 191d. Total package express and maid revenues of Class I conview place 25 percent of this amount as estimated curgo revenues for Class I and I and introdute correct.
 - (18) school Bus, TAA, Tunamerinken Feets and Frinds, 1976, p.5, prelims are estimate.
- (19) Local Thursd. APTA, Toposii Face fines, 1975-75, Table S Tens operating recember of Light and Itsavy itell, Trolley Coach, and Motoritan
 - (20) Motorough But. Counting resonant.

Figure 3. Expenditures and Revenues, 1974

- (1) Total Transportation: Sum of Domestic and International.
- (2) Domestic: Sum of Highway, Local Transit, Rail, Air, Water, and Pipeline.
- (3) International: Sum of Air Carrier and Water.
- (4) Highway: Sum of Auto, Truck, and Bus.
- (5) Auto: Sum of Personal Passenger Car and Taxi.
- (6) Personal Passenger Car: DOC-BEA, Benchmark Revision of National Income and Product Accounts, Table 2.6, line 64.
- (7) Taxi: *Ibid.*, line 15.
- (9) Truck: Sum of Local Truck and Intercity Truck.
- (10) Local Truck: TAA, Transportation Facts and Trends, 1976, p.4, preliminary estimate.
- (11) Intercity Truck: Sum of ICC-Regulated Truck and Nonregulated Truck.
- (12) ICC-Regulated Truck: TAA, Transportation Facts and Trends, 1976, p.4, preliminary estimate. Revenues of the Class I, II, III motor carriers of property. Revenues include local cartage under the assumption that the majority of such revenues constitute pickup and delivery of intercity freight.
- (13) Nonregulated Truck: Ibid.
- (14) Bus: Sum of Intercity Bus and School Bus.
- (15) Intercity Bus: NAMBO, Bus Facts, 1974, Statistical Supplement, p. 1. Operating revenues of Class I, II, III carriers reporting to the ICC, plus intrastate carriers. Includes passenger, express, mail, station, and other revenues.
- (16) Passenger, Intercity Bus: *Ibid.*, p. 2. Total passenger revenues of Class I carriers plus 25 percent of this amount as estimated passenger revenues for Class II and III and intrastate carriers.
- (17) Cargo, Intercity Bus: *Ibid*. Total package express and mail revenues of Class I carriers plus 25 percent of this amount as estimated cargo revenues for Class II and III and intrastate carriers.
- (18) School Bus: TAA, Transportation Facts and Trends, 1976, p.5, preliminary estimate.
- (19) Local Transit: APTA, Transit Fact Book, 1975-76, Table 8. Total operating revenues of Light Rail, Heavy Rail, Trolley Coach, and Motorbus.
- (20) Motorbus: Ibid. Operating revenues.

Figure 3. Expenditures and Revenues, 1974 (cont.)

- (21) Trolley Coach: Ibid. Operating revenues.
- (22) Light Rail: Ibid. Operating revenues.
- (23) Heavy Rail: Ibid. Operating revenues.
- (24) Rail: A.A.R., Statistics of Railroads of Class I, July 1975, pp. 3, 16. Sum of the total operating revenues of Class I railroads and AMTRAK.
- (25) Rail, Passenger: Sum of Commuter and Intercity.
- (26) Rail, Commuter: I.C.C., Class I Railroads, Financial and Operating Statistics, Dec. 31, 1974, p. 19. Commutation passenger revenues of the Class I railroads and AMTRAK.
- (27) Rail, Intercity: *Ibid.* p. 19. Sum of Class I and AMTRAK passenger revenues from parlor and sleeping cars and other coaches.
- (28) Rail, Cargo: A.A.R., Statistics of Railroads of Class I, 1975, p. 3. Sum of Class I freight revenues and express and mail revenues.
- (29) Air: Sum of General Aviation and Air Carrier.
- (30) General Aviation: TAA, Transportation Facts and Trends, 1976, p.5, preliminary estimate. Figure represents the sum of operating costs and total retail value of new general aviation aircraft.
- (36) Air Carrier: Sum of Certificated and Supplemental.
- (37) Certificated: CAB, Air Carrier Financial Statistics, Dec. 1974, p. 2, column 7, line 17. Total operating revenues, domestic operations.
- (38) Passenger, Certificated: *Ibid.*, column 7, sum of lines 3 and 10. Total passenger revenues in scheduled and charger service.
- (39) Cargo, Certificated: *Ibid.*, column 7, sum of lines 4, 5, 6, 7, 8, 9, and 11. Includes revenues from scheduled domestic service of freight, express, priority U.S. mail, nonpriority U.S. mail, foreign mail, excess baggage, and charter freight.
- (40) Supplemental: *Ibid.*, p. 99. Overall operating revenues of supplemental air carriers, total domestic and international operations. No separation of international and domestic revenues is available.
- (41) Passenger, Supplemental: *Ibid.* Sum of civilian (line 1) and military (line 2) passenger revenues. Total domestic and international operations.
- (42) Cargo, Supplemental: Ibid. Sum of civilian (line 3) and military (line 4) property revenues.
- (43) Water: Sum of Passenger, Cargo, and Commercial Fishing.

Figure 3. Expenditures and Revenues, 1974 (cont.)

- (44) Passenger, Water: ICC Transport Statistics, Part 5, p. 1, Quarterly Supplement, Dec. 1974, p. 5. Figure represents revenues of ICC-regulated carriers. Expenditures for private boating not available.
- (49) Cargo, Water: TAA, Transportation Facts and Trends, 1976, p.4, preliminary estimate.
- (50) Commercial Fishing: U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, *Fisheries of the U.S.*, 1974, March 1975, p. 19. This figure is the total dollar value of the U.S. Commercial Fisheries landings.
- (51) Pipeline: TAA, Transportation Facts and Trends, 1976, p.4, preliminary estimate. Includes revenues of regulated and unregulated oil pipelines.
- (52) Air Carrier: Figure represents overall operating revenues of the certificated carriers, total international operations. Revenues of the supplemental carriers international operations are included in the domestic statistic.
- (53) Certificated: CAB, Air Carrier Financial Statistics, Dec. 1974, p. 7, column 3, line 17. Total international operations.
- (54) Passenger, Certificated: *Ibid.*, Dec. 1974, p. 7, column 3. Sum of total passenger revenues in scheduled service (line 3) and charter passenger revenues (line 10), total international operations.
- (55) Cargo, Certificated: *Ibid.*, Dec. 1974, p. 7, column 3. Sum of lines 4, 5, 6, 7, 8, 9, and 11. Includes revenues from scheduled service of freight, express, priority U.S. mail, non-priority U.S. mail, foreign mail, excess baggage, and charter freight. Total international operations.
- (59) Water: Sum of Passenger and Cargo.
- (60) Passenger, Water: TAA, Transportation Facts and Trends, 1976, p.5, preliminary estimate.
- (61) Cargo, Water: Ibid.

Figure 4. Vehicle-Miles, 1974

- (1) Total Transportation: Sum of Domestic and International.
- (2) Domestic: Sum of Highway, Local Transit, Rail, Air, and Water.
- (3) International: Sum of Air Carrier and Water.
- (4) Highway: Sum of Auto, Truck, and Bus.

Figure 4. Vehicle-Miles, 1974 (cont.)

- (5) Auto: Sum of Personal Passenger Car, Motorcycle, and Taxi.
- (6) Personal Passenger Car: Federal Highway Administration, *Highway Statistics*, 1974, table VM-1. Includes vehicle travel on main rural roads, local rural roads, and urban streets.
- (7) Taxi: Data for taxi are included in the Personal Passenger Car category.
- (8) Motorcycle: Federal Highway Administration, *Highway Statistics* 1974, table VM-1. Includes vehicle travel on main rural roads, local rural roads, and urban streets.
- (9) Truck: Ibid. Includes vehicle travel on main rural roads, local rural roads, and urban streets.
- (14) Bus: Sum of Intercity Bus and School Bus.
- (15) Intercity Bus: NAMBO, Bus Facts, 1974 Statistical Supplement, p. 1. Includes operations of Class I, II, and III carriers reporting to the ICC and interstate carriers.
- (18) School Bus: Federal Highway Administration, *Highway Statistics*, 1974, table VM-1. Includes vehicle travel on main rural roads, local rural roads, and urban streets.
- (19) Local Transit: Sum of Motorbus, Trolley Coach, Light Rail, and Heavy Rail.
- (20) Motorbus: APTA, Transit Fact Book, 1975-76, Table 10.
- (21) Trolley Coach: Ibid.
- (22) Light Rail: Ibid.
- (23) Heavy Rail: Ibid.
- (24) Rail: Sum of Passenger and Cargo.
- (25) Passenger Rail: AAR, Statistics of Class I Railroads, July 1975. This figure is the sum of the passenger train-miles of Class I railroads (p.11, line 15) and AMTRAK and Auto-Train (p.16).
- (28) Rail, Cargo: Ibid., p.11, line 12. This figure is freight train-miles of the Class I railroads.
- (29) Air: Sum of General Aviation and Air Carrier.
- (30) General Aviation: FAA, Statistical Handbook, 1973, Table 8.5. Includes business, commercial instructional, personal, and other flying.
- (31) Business: Ibid.
- (32) Commercial: *Ibid*.
- (33) Instructional: Ibid.
- (34) Personal: Ibid.

Figure 4. Vehicle-Miles, 1974 (cont.)

- (35) Other: Ibid.
- (36) Domestic Air Carrier: Sum of Certificated and Supplemental.
- (37) Certificated: CAB, Air Carrier Traffic Statistics, Dec. 1974, p. 4. Sum of overall aircraft revenue-miles in scheduled service (line 31) and nonscheduled service (line 50), col. 4, total domestic operations.
- (38) Passenger, Certificated Scheduled: *Ibid.*, Sum of first class, coach and economy and mixed class services (lines 27, 28, 29) col. 4.
- (39) Cargo, Certificated Scheduled: Ibid., line 30, col. 4.
- (40) Supplemental: CAB, Air Carrier Traffic Statistics, Dec. 1974, p. 93, line 21, col. 1.
- (52) International Air Carrier: Sum of Certificated and Supplemental.
- (53) Certificated: CAB, Air Carrier Traffic Statistics, 1974, p. 13, col. 4. Sum of overall aircraft revenue-miles in scheduled service (line 31) and nonscheduled service (line 50), total international and territorial operations.
- (54) Passenger, Certificated, Scheduled: *Ibid*. Sum of coach and economy and mixed class services (lines 28, 29), col. 4.
- (55) Cargo, Certificated Scheduled: Ibid., (line 30), col. 4.
- (56) Supplemental: CAB, Air Carrier Traffic Statistics, 1974, p. 93, line 21, col. 5.
- (65) Non-Scheduled: Ibid., p. 4 (line 50) col. 4.
- (66) Non-Scheduled, International: Ibid., p. 13 (line 50) col. 4.

Figure 5. Passenger-Miles, 1974

- (1) Total Transportation: Sum of Domestic and International.
- (2) Domestic: Sum of Highway, Local Transit, Rail, Air, and Water.
- (3) International: Air Carrier only. Passenger-miles in international water transport are not available.
- (4) Highway: Sum of Auto and Bus.
- (5) Auto: Sum of Personal Passenger Car, Taxi, and Motorcycle.
- (6) Personal Passenger Car: Passenger-miles of Personal Passenger Car and Taxi. Figure represents vehicle-miles of travel from FHWA, *Highway Statistics*, 1974, table VM-1, multiplied by an average occupancy of 2.2

Figure 5. Passenger-Miles, 1974 (cont.)

- (7) Taxi: Included in Personal Passenger Car category.
- (8) Motorcycle: Passenger-miles derived by multiplying vehicle-miles of travel from FHWA, Highway Statistics, 1974, Table VM-1, by an average occupancy of 1.1.
- (14) Bus: Sum of Intercity Bus and School Bus passenger-miles.
- Intercity Bus: NAMBO, Bus Facts, 1974 Statistical Supplement, p. 1. Includes Classes I, II, III (15)
- carriers reporting to ICC plus intrastate carriers.
- School Bus: Best Estimate by the Driver Education and Licensing Division NHTSA.
- Rail: Same as passenger (25) in same ref.
- Passenger Rail: Sum of Commuter and Intercity.
- (26) Commuter Rail: A.A.R., Statistics of Railroads of Class I, July 1975 (p.7, line 13). Sum of the commutation passenger miles of the Class I Railroads and AMTRAK.
- Intercity Rail: Ibid., line 14. Sum of Class I Railroads, AMTRAK and Auto-Train passenger miles.
- Air: Sum of General Aviation and Air Carrier.
- (30) General Aviation: TAA, Transportation Facts and Trends, p. 18. Intercity passenger-miles.
- Air Carrier: Sum of Certificated and Supplemental. (36)
- Certificated: CAB, Air Carrier Traffic Statistics, Dec. 1974, p. 4, col. 5. Sum of revenue (37)passenger-miles in scheduled service (line 9) and nonscheduled service (line 43), total domestic (38)operations.
- Supplemental: Ibid., p. 93, line 4, col. 1. Total revenue passenger-miles in domestic operations. (40)(41)
- Water: TAA, Transportation Facts and Trends, Oct., 1973, p. 18. Intercity passenger-miles. (43)(44)
- Air Carrier: Sum of Certificated and Supplemental.
- Certificated: CAB, Air Carrier Traffic Statistics, Dec. 1974, p. 13, col. 4. Sum of revenue (53)passenger-miles in scheduled service (line 9, col. 4) and nonscheduled service (line 43). Total (54)international operations.
- (56) Supplemental: Ibid., p. 93, line 4, col. 2. Total revenue passenger-miles in international (57) operations.

Figure 6. Cargo Ton-Miles, 1974

- (1) Total Transportation: Sum of Domestic and International.
- (2) Domestic: Sum of Highway, Rail, Air, Water, and Pipeline.
- (3) International: Sum of Air Carrier and Water.
- (4) Highway: Figure represents total ton-miles of intercity truck transport plus ton-miles of intercity bus. Local truck ton-miles are not available.
- (9) Truck: Includes intercity truck only.
- (11) Intercity Truck: ICC, 89th Annual Report, 1975, p. 121, Table 3. Figure includes the intercity common and contract motor carriers of property operating under ICC authority, plus the intercity ton-miles of all private trucks and for-hire trucks not subject to economic regulation by the ICC, plus intercity ton-miles of local ICC carriers.
- ICC-Regulated Intercity Truck: ICC, 89th Annual Report, 1975, p. 122. The 1974 federally regulated percentage of total intercity ton-miles assumed equal to the 1973 percentage (43.8 (12)percent).
- (13) Nonregulated Intercity Truck: Ibid. 1974 nonregulated percentage of total intercity ton-miles assumed equal to the 1973 percentage (56.2 percent).
- Rail: ICC, Ibid., p. 121, Table 3. Intercity ton-miles of all railroads and electric railways,
- excluding express and mail.
- (29) Air: Air Carrier only.
- (36) Air Carrier: Sum of Certificated and Supplemental.
- Certificated: CAB, Air Carrier Traffic Statistics, Dec. 1974, p. 4, lines 2,3,4, col. 4. Revenue
- (39) ton-miles of freight, express, U.S. and foreign mail in domestic operations, all services.
- Supplemental: Ibid., p. 93, line 13, col. 1. Revenue ton-miles of freight and express in total (40)
- domestic operations of the supplemental carriers. Supplemental carriers are ordinarily not (42)authorized to carry mail.
- Water: Department of the Army, Corps of Engineers, Waterborne Commerce of the United
- (49) States, 1974, Part 5, p. 91. Total domestic ton-miles.
- (51) Pipeline: ICC, 89th Annual Report, 1975, p. 121. Intercity ton-miles of oil pipelines.
- Air Carrier: Sum of Supplemental and Certificated. (52)
- Certificated: CAB, Air Carrier Traffic Statistics, Dec. 1974, p. 13, lines 2, 3, 4, col. 4. Revenue (53)
- ton-miles of freight, express, U.S. and foreign mail in total international and territorial opera-(55)tions, all services of the certificated carriers.
- (56) Supplemental: Ibid., p. 93, line 13, col. 2. Revenue ton-miles of freight and express in total
- (58) international operations. Supplemental carriers are ordinarily not authorized to carry mail.

Figure 7. Number of Vehicles, 1974

- (1) Total Transportation: Sum of Domestic and International.
- (2) Domestic: Sum of Highway, Local Transit, Rail, Air, Water, and Pipeline.
- (3) International: Sum of Air Carrier and Water.
- (4) Highway: Sum of Auto, Truck, and Bus.
- (5) Auto: Sum of Personal Passenger Car and Motorcycle.
- (6) Personal Passenger Car: FHWA, *Highway Statistics*, 1974, table MV-1. This figure includes private and commercial vehicles (including taxicabs) as well as publicly owned vehicles for the 50 States and the District of Columbia.
- (7) Taxi: Data for Taxi are included in the Personal Passenger Car category.
- (8) Motorcycle: FHWA, Highway Statistics, 1974, table MV-1. This figure is the sum of the private and commercial vehicles plus the publicly owned vehicles.
- (9) Truck: Ibid.
- (14) Bus: Sum of Intercity Bus and School Bus.
- (15) Intercity Bus: NAMBO, Bus Facts, 1974 Statistical Supplement, p. 1. This figure includes operations of Class I, II, and III carriers reporting to the ICC and intrastate carriers.
- (18) School: FHWA, Highway Statistics, 1974, table MV-10. For some States, church, industrial, and other private buses are included; in other States, privately owned school buses could not be segregated from commercial buses and are included with the latter.
- (19) Local Transit: Sum of Motorbus, Trolley Coach, Light Rail, and Heavy Rail.
- (20) Motorbus: APTA, Transit Fact Book, 1975-76, Table 12. This figure does not include sight-seeing buses or school buses.
- (21) Trolley Coach: Ibid.
- (22) Light Rail: Ibid. This figure does not include commuter or suburban railroads.
- (23) Heavy Rail: Ibid.
- (24) Rail: A.A.R., Statistics of Railroads of Class I, July 1975. This figure is the sum of Class I passenger train cars (p. 10, line 13) freight cars (p. 9, line 14) locomotives (p. 8, line 6) and similar AMTRAK and Auto-Train vehicles (p. 16).
- (25) Rail, Passenger: *Ibid.*, Sum of passenger train cars owned by the Class I railroads (p. 10, line 13) and AMTRAK and Auto-Train passenger cars (p. 16).
- (28) Rail, Cargo: *Ibid.*, Freight cars, Class I railroads (p. 9, line 14) plus AMTRAK and Auto-Train freight cars (p. 16).

Figure 7. Number of Vehicles, 1974 (cont.)

- (29) Air: Sum of General Aviation and Air Carrier.
- (30) General Aviation: FAA, Statistical Handbook of Aviation, 1975, Table 8.1.
- (31) Business: Ibid. This category includes business (34,399) and executive transportation (8,653).
- (32) Commercial: *Ibid*. This category includes air taxi (6,227), aerial application (6,496), and rental (7,584).
- (33) Instructional: Ibid.
- (34) Personal: Ibid.
- (35) Other: Ibid. This category includes other (3,992) and industrial/special (2,250).
- (36) Air Carrier: Sum of Certificated and Supplemental.
- (37) Certificated: CAB, 1973-1974 Supplement to Handbook of Airline Statistics.
- (40) Supplemental: Ibid.
- (43) Water: American Waterways Operators, *Inland Waterborne Commerce Statistics*, 1974, p. 2. This figure represents the sum of self-propelled and non-self-propelled towing vessels and barges, plus cargo vessels (49) and passenger liners (44), in the U.S.
- (44) Passenger: Personal Communication, Maritime Administration. This figure is the number of U.S. passenger liners.
- (49) Cargo: U.S. Department of Commerce, Maritime Administration, Merchant Fleets of the World. This figure represents the sum of U.S. oceangoing steam and motor ships of 1,000 gross tons and over as of December 31, 1974.
- (52) International Air Carrier: This figure is included in the respective categories of the domestic operations.
- (59) International Water: This figure is included in the respective categories of the domestic operations.

Figure 8. Number of Fatalities, 1974

- (1) Total Transportation: Sum of Domestic and International.
- (2) Domestic: Sum of Highway, Local Transit, Rail, Air, Water, and Pipeline.
- (3) International: U.S. Air Carriers only. Fatalities in international water transport not available.

Figure 8. Number of Fatalities, 1974 (cont.)

- (4) Highway: National Highway Traffic Safety Administration-Office of Statistics & Analysis (N43-30), Personal Communication. This figure is the total highway traffic fatalities for 50 states and the District of Columbia.
- (5) Auto: Sum of Personal Passenger Car, Taxi, and Motorcycle.
- (6) Personal Passenger Car: National Safety Council, Accident Facts 1975, p. 56. Number of occupant fatalities.
- (7) Taxi: Ibid. Number of occupant fatalities.
- (8) Motorcycle: Ibid. Fatalities of motorcycles, motor scooters, and motor bikes.
- (9) Truck: U.S. Department of Transportation, FHWA, Bureau of Motor Carrier Safety, Personal Communication. Sum of for hire, private plus others.
- (10) Private: Ibid.
- (11) For Hire: Ibid. Sum of ICC Regulated and Non-Regulated.
- (12) ICC Regulated: Ibid. This category is called authorized by the source.
- (13) Non-Regulated: Ibid. This category is called exempt by the source.
- (14) Bus: Ibid. Sum of intercity and school bus fatalities.
- (15) Intercity Bus: Ibid., p. 75. Passenger fatalities on Class I buses.
- (16) Bicycle: National Safety Council, Accident Facts, 1975, p.47, number of bicycle deaths.
- (17) Pedestrian: Ibid., p.58, total number of pedestrian deaths.
- (18) School Bus: Ibid., p. 92. Includes pupils, bus drivers, and others.
- (19) Local Transit: Personal Communication, American Public Transit Association (APTA), Statistical Dept. This figure includes passengers killed on heavy rail and light rail (operating exclusively as rapid transit), trolley coach, and motorbus. These are reported fatalities collected by APTA resulting from vehicle accidents; they are not necessarily the national total.
- (20) Motorbus: Ibid. Reported passenger fatalities in vehicle accidents.
- (21) Trolley Coach: Ibid. Reported passenger fatalities in vehicle accidents.
- (22) Light Rail: Ibid. Reported passenger fatalities in vehicle accidents.
- (23) Heavy Rail: Ibid. Reported passenger fatalities in vehicle accidents.
- (24) Rail: U.S. DOT/Federal Railroad Administration, Office of Safety, Summary and Analysis of Accidents in U.S., Report No. 143, 1974, p. 5, Table 6. This figure is computed by taking the total killed and subtracting the number of rail-highway grade crossing fatalities in 1974 (1,220).

Figure 8. Number of Fatalities, 1974 (cont.)

- (25) Passenger: *Ibid*. This figure includes passengers on or getting on or off Class I railroads and AMTRAK passenger-carrying trains, and those passengers killed in rail-highway grade-crossing accidents.
- (26) Other: *Ibid.* Includes employees on and not on duty, and trespassers and non-trespassers killed in rail and rail-highway grade-crossing accidents.
- (29) Air: Sum of General Aviation and Air Carrier. Includes fatalities of passengers, crew, and others.
- (30) General Aviation: Sum of Business, Air Taxi, Other, Aerial Application, Instructional, Personal, and Executive.
- (31) Business: Personal Communication, National Transportation Board, Bureau of Aviation Safety (BAS-22).
- (32) Air Taxi: Ibid.
- (33) Instructional: Ibid.
- (34) Personal: Ibid.
- (35) Other: *Ibid.* Sum of NTSB categories Commercial Other, Non-Commercial Other, and Miscellaneous.
- (36) Air Carrier: Sum of Certificated and Supplemental. Includes passengers, crew, and others on U.S. air carriers in domestic operations.
- (37) Certificated: Personal Communication, National Transportation Safety Board, Bureau of Aviation Safety (BAS-22). This figure pertains to scheduled and nonscheduled passenger and cargo domestic operations.
- (38) Passenger: *Ibid*. Scheduled and nonscheduled certificated air carrier domestic passenger service.
- (39) Cargo: Ibid. Scheduled and nonscheduled certificated air carrier domestic cargo service.
- (40) Supplemental: Ibid. Domestic passenger and cargo service.
- (41) Passenger: Ibid. Domestic passenger service.
- (42) Cargo: Ibid. Domestic cargo service.
- (43) Water: U.S. Coast Guard, *Proceedings in Marine Safety Council Report*, Jan. 1976, p. 10. This figure is the sum of passenger, cargo, and commercial fishing fatalities due to vessel casualties in fiscal year 1975.
- (44) Passenger: Sum of Private and Passenger Service.

Figure 8. Number of Fatalities, 1974 (cont.)

- (45) Private: U.S. Coast Guard, Boating Statistics (CG-357), 1974, p. 17. This figure represents total fatalities in recreational boating.
- (46) Inboard: Ibid.
- (47) Outboard: Ibid.
- (48) Passenger Service: U.S. Coast Guard, *Proceedings in Marine Safety Council Report*, Jan. 1976, p. 10. This figure includes vessel casualties on both large and small passenger vessels and ferries for fiscal year 1975.
- (49) Cargo: *Ibid*. This figure includes vessel casualties on cargo barges, freight, tank ships, and tank barges for fiscal year 1975.
- (50) Commercial Fishing: *Ibid*. This figure includes vessel casualties on commercial fishing vessels for fiscal year 1975.
- (51) Pipeline: Personal Communication, U.S. Department of Transportation, Materials Transportation Bureau, Office of Pipeline Safety Operations (MTP-40). This figure includes gas distribution and transmission lines (including gathering lines), and liquid transmission lines.
- (52) Air-Carrier: Sum of Certificated and Supplemental. Includes passengers, crew, and others on U.S. Air Carrier International operations.
- (53) Certificated: Personal Communication, National Transportation Safety Board, Bureau of Aviation Safety (BAS-22). This figure pertains to U.S. Certificated Route Air Carriers, scheduled and nonscheduled International passenger and cargo service.
- (54) Passenger: Ibid. Scheduled and nonscheduled Certificated Air Carrier International service.
- (55) Cargo: Ibid. Scheduled and nonscheduled Certificated Air Carrier International service.
- (56) Supplemental: Ibid. Scheduled and nonscheduled International passenger and cargo service.
- (57) Passenger: Ibid. Scheduled and nonscheduled International Passenger service.
- (58) Cargo: Ibid. Scheduled and nonscheduled International cargo service.
- (62) Executive: Personal Communication, National Transportation Board, Bureau of Aviation Safety (BAS-22).
- (63) Aerial Application: Ibid.
- (64) Inboard/Outboard: U.S. Coast Guard, Boating Statistics (CG-357), 1974, p. 17.

Table 1. Average Passenger Revenue Per Passenger-Mile, 1964-1974

Certificated Air Carrier, Domestic Operations, Scheduled Service:

CAB, Air Carrier Traffic Statistics, Dec. 1974, p. 4, and previous years; Air Carrier Financial Statistics, Dec. 1974, p. 2 and previous years; passenger revenues (lines 1-3) divided by revenue passenger-miles (lines 7-9).

Class I Rail: 1964-1973: AAR, Statistics of Railroads of Class I, Aug. 1974, p. 7, lines 18, 19, 20.

1974: AAR, Statistics of Railroads of Class I, July, 1975. Data for Class I, p. 7—passenger revenues and passenger-miles are then adjusted to exclude AMTRAK. In all cases, average passenger revenue per passenger-mile equals the corresponding revenue figure divided by the corresponding passenger-miles.

AMTRAK: 1971-1974: AAR, Statistics of Railroads of Class I, 1972, 1973, 1974, 1975, p. 16.

Class I Intercity Bus: ICC, Transport Economics, Vol. II, No. 4, 1975, p. 8.

Table 2. Average Freight Revenue Per Ton-Mile, 1964-1974

Certificated Air Carrier Domestic Operations, Scheduled Service:
1964-72: CAB, Handbook of Airline Statistics, 1973, p. 93.
1973-74: CAB, Air Carrier Financial Statistics, Dec. 1974, p. 2; Air Carrier Traffic Statistics, Dec. 1974, p. 4. Freight revenues (line 4) divided by revenue ton-miles of freight (line 19).

Class I Rail: AAR, Statistics of Railroads of Class I, July, 1975, p. 5, line 55.

Class I Intercity Motor Carriers of Property, Common and Contract: 1964-1973: ICC, *Transport Economics*, Vol. II, No. 2, 1975, p. 3. 1974: Personal Communication, I.C.C.

Oil Pipelines: 1964-1973: ICC, *Transport Economics*, Vol. II, No. 2, 1975, p. 13. 1974: Personal Communication, I.C.C.

Classes A and B Water Carriers, Barge Lines Operating on Mississippi River and Tributaries: 1964-1973: ICC, *Transport Economics*, Vol. II, No. 2, 1975, p. 13. 1974: Personal Communication, I.C.C.

Table 3. Average Passenger Fare, 1964-1974

Certificated Air Carrier Domestic Operations, Scheduled Service:

1964-72: CAB, *Handbook of Airline Statistics*, 1973. Total passenger revenues (p. 216, line 3) divided by revenue passenger enplanements (p. 106, line 20).

1973-74: Total passenger revenues (CAB, Air Carrier Financial Statistics, Dec. 1974, p. 2, line 3) divided by revenue passenger enplanements (CAB, Air Carrier Traffic Statistics, Dec. 1974, p. 4, line 17).

Class I Bus, Intercity:

NAMBO, Bus Facts, 1974 Statistical Supplement, June 1975, p. 4.

Local Transit:

APTA, Transit Fact Book, 1975-76, Table 13.

Class I Rail:

1964-1973: AAR, Statistics of Railroads of Class I, Aug. 1974, p. 7. Commutation, line 19; other than commutation, line 20.

1974: AAR, Statistics of Railroads of Class I, July 1975, p. 7 (passenger revenues and revenue passengers carried are adjusted to exclude AMTRAK figures on p. 16). In all cases Average Passenger Fare equals the corresponding revenue figure divided by the corresponding number of passengers carried.

AMTRAK:

1971-1974: AAR, Statistics of Railroads of Class I, 1972, 1973, 1974, 1975, p. 16.

Table 4. Total Operating Revenues, 1964-1974

Certificated Air Carriers:

1964-72: CAB, Handbook of Airline Statistics, 1973. Sum of overall operating revenues in total domestic operations (p. 216) and total international and territorial operations (p. 227). 1973-74: CAB, Air Carrier Financial Statistics, Dec. 1974, p. 1, line 17.

Supplemental Air Carriers:

1964-72: CAB, Handbook of Airline Statistics, 1973, p. 69.

1973-74: CAB, Air Carrier Financial Statistics, Dec. 1974, p. 99, line 9.

Intercity Bus, Class I:

1960-68: ICC, 84th ICC Annual Report, 1970, p. 143. 1969-70: ICC, 85th ICC Annual Report, 1971, p. 127.

1971, 1972, 1973: NAMBO, Bus Facts, 1974 Statistical Supplement, June 1975, p. 2.

Local Transit:

APTA, Transit Fact Book, 1975-76, Table 8. Includes motorbus, subway and elevated, surface rail, and trolley coach.

Oil Pipeline:

TAA, Transportation Facts and Trends, April 1975, Quarterly Supplement, Dec. 1974, p. 4. Personal Communication for 1974.

Table 4. Total Operating Revenues, 1964-1974 (cont)

Class I Rail:

AAR, Statistics of Railroads of Class I, July 1975, p. 1.

AMTRAK:

AAR, Statistics of Railroads of Class I, 1972, 1973, 1974, 1975, p. 16

Class I Intercity Motor Carriers of Property:

ICC, 89th Annual Report, 1975, p. 125.

Water:

Classes A and B carriers, inland and coastal waterways: ICC, 87th Annual Report, 1973, p. 137, and equivalent tables in earlier editions, ICC, 89th Annual Report, 1975, p. 127.

Maritime Carriers:

ICC, 89th Annual Report, 1975, p. 128, and equivalent tables in earlier editions.

Class A Freight Forwarders:

1960-67: ICC, 84th Annual Report, 1970, p. 151.

1968-1974: ICC, 87th ICC Annual Report, 1973, p. 139; 89th ICC Annual Report, 1975, p. 129.

Table 5. Vehicle-Miles, 1964-1974

Air Carriers:

Certificated Domestic Operations, All Services:

1964-1972: CAB, Handbook of Airline Statistics, 1973, p. 106. Aircraft revenue miles in scheduled service (line 35) plus nonscheduled service (line 56).

1973-1974: CAB, Air Carrier Traffic Statistics, Dec. 1974, p. 4. Aircraft revenue miles in scheduled service (line 50).

Supplemental:

1967-1972: CAB, Handbook of Airline Statistics, 1973, p. 197.

1973-1974: CAB, Air Carrier Traffic Statistics, Dec. 1974, p. 93 (line 21).

General Aviation:

FAA, Statistical Handbook of Aviation, Table 8.5, 1974 edition.

Highway:

Passenger car and taxi: FHWA, Highway Statistics, annual editions, table VM-1.

Truck: Ibid.

School bus: Ibid.

Intercity bus: NAMBO, Bus Facts, 1974 Statistical Supplement, June 1975, p. 1.

Local Transit:

APTA, Transit Fact Book, 1975-76, Table 10.

Class I Rail:

AAR, Statistics of Railroads of Class I, July 1975, p. 11, lines 15, 12.

AMTRAK:

AAR, Statistics of Railroads of Class I, 1972, 1973, 1974, 1975, p. 16.

Table 6. Passenger-Miles, 1964-1974

Air Carrier:

Certificated:

1964-72: CAB, *Handbook of Airline Statistics*, 1973, p. 106. Sum of total domestic passengermiles in scheduled service (line 11) and nonscheduled service (line 47); 1973-1974: CAB, *Air Carrier Traffic Statistics*, Dec. 1974, p. 4. Sum of lines 9 and 43.

Supplemental:

1967-72: CAB, Handbook of Airline Statistics, 1973, p. 197, (line 4); 1973-74: CAB, Air Carrier Traffic Statistics, Dec. 1974, p. 93 (line 4).

General Aviation:

1964-73: TAA, Transportation Facts and Trends, Dec. 1974, p. 18. 1974: Quarterly supplement, Oct. 1975, p. 18.

Highway:

Passenger Car and Taxi: FHWA vehicle-miles multiplied by a constant average occupancy of 2.2. Intercity Bus: NAMBO, *Bus Facts*, 1974 Statistical Supplement, June 1975, p. 1.

Class I Rail:

1964-1973: AAR, Statistics of Railroads of Class I, August 1974, p. 7. Total (line 12); Commutation (line 13) and Other than Commutation (line 14).

1974: AAR, Statistics of Railroads of Class I, July 1975, p. 7, same lines as in preceding reference, minus AMTRAK and Auto-Train figures, p. 16.

AMTRAK:

AAR, Statistics of Railroads of Class I, 1972, 1973, 1974, 1975, p. 16.

Domestic Water:

1964-73: TAA, Transportation Facts and Trends, Dec. 1974, p. 18. 1974: Oral communication from I.C.C.

Table 7. Cargo Ton-Miles, 1964-1974

Air Carrier:

Certificated:

1964-72: CAB, Handbook of Airline Statistics, 1973, p. 106. Sum of revenue ton-miles of freight, express, U.S. and foreign mail (lines 2, 3 and 4).

1973-74: CAB, Air Carrier Traffic Statistics, Dec. 1974, p. 4. Sum of lines 2, 3, and 4.

Supplemental:

1964-72: CAB, Handbook of Airline Statistics, 1973, p. 35, domestic operations. 1973-1974: CAB, Air Carrier Traffic Statistics, Dec. 1974, p. 93.

Oil Pipeline:

ICC, 89th Annual Report, 1975, p. 121, and equivalent tables in earlier editions.

Class I Rail:

AAR, Statistics of Railroads of Class I, July 1975, p. 5, line 49.

Motor Vehicles:

ICC, 89th Annual Report, 1975, p. 121, and equivalent tables in earlier editions.

Inland Waterways Including Great Lakes:

ICC, 89th Annual Report, 1975, p. 121, and equivalent tables in earlier editions.

Table 7. Cargo Ton-Miles, 1964-1974 (cont.)

Total Domestic Waterways:

U.S. Army Corps of Engineers, Waterborne Commerce of the U.S., Part 5, 1974, p. 95.

Table 8. Basic Intercity Mileage Within the Continental United States, 1964-1974

Railroads, All Line Haul:

AAR, Yearbook of Railroad Facts, 1975, p. 48. Data represent aggregate length of roadway of all line-haul railroads, excluding mileage of yard tracks or sidings. Jointly used track is counted only once.

Oil Pipelines:

TAA, Transportation Facts and Trends, Dec. 1974, p. 31.

Gas Pipelines:

AGA, Gas Facts, 1974, Table 42.

Inland Waterways:

American Waterways Operators, Inland Waterborne Commerce Statistics, 1974, p. 1, and previous years.

Highways:

FHWA, Highway Statistics, 1974, table SM-2. Total surfaced mileage of State primary and secondary roads, less col. D-E mileage, plus total toll facility mileage, with Alaska and Hawaii mileage deleted. Earlier years from earlier editions of Highway Statistics.

Airways:

FAA, Statistical Handbook of Aviation, 1974, Table 2.1. Mileage equals sum of low frequency, VHF low altitude direct, and VHF jet route mileages multiplied by 1.151 to convert from nautical miles.

Table 9. Number of Vehicles, 1964-1974

Air Carrier:

1964-1972: CAB, Handbook of Airline Statistics, 1973 Part VII, Table 7a and similar tables in earlier editions or by Special Communication from CAB.

1973: CAB, Statistical Data Division, Special Communication.

1974: CAB, 1973-1974 Supplement to Handbook of Airline Statistics, p. 126.

General Aviation:

FAA, Statistical Handbook of Aviation, 1973, 1974, Table 8.6.

Passenger Car, and Taxi:

FHWA, Highway Statistics, 1974, table MV-1, and same table in earlier editions.

Intercity Bus:

NAMBO, Bus Facts, 1974 Supplement, June 1975, p. 1.

Table 9. Number of Vehicles, 1964-1974 (cont.)

Local Transit:

APTA, Transit Fact Book, 1975-76, Table 12.

Class I Rail:

AAR, Statistics of Railroads of Class I, July 1975; freight cars, p. 9, line 14; locomotives, p. 8 line 6; passenger cars and pullman, p. 10, line 13.

AMTRAK:

AAR, Statistics of Railroads of Class I, 1972, 1973, 1974, 1975, p. 16.

Truck:

FHWA, Highway Statistics, 1974, table VM-1, and same table in earlier editions.

Water Vessels:

American Waterways Operators, Inland Waterborne Commerce Statistics, 1974, p. 2, and previous years.

Table 10. Personal Consumption Expenditures by Transportation Sector, 1964-1974

U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark Revision of National Income and Product Accounts, Advance Tables, February 1976, Table 2.6, lines 63-81.

Table 11. Personal Consumption Expenditures by Type of Product, 1964-1974

U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark Revision of National Income and Product Accounts, Advance Tables, February 1976, Table 2.6.

Table 12. National Income by Transportation Sector, 1964-1974

U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark Revision of National Income and Product Accounts, Advance Tables, February 1976, Table 6.3, lines 36-43.

Table 13. Average Annual Earnings Per Full-Time Employees by Transportation Sector, 1964-1974

U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark Revision of National Income and Product Accounts, Advance Tables, February 1976, Table 6.7.

Table 14. Average Annual Number of Full-Time and Part-Time Employees by Transportation Sector, 1964-1974

U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark Revision of National Income and Product Accounts, Advance Tables, February 1976, Table 6.8, lines 36-43.

Table 15. Wages and Salaries by Transportation Sector, 1964-1974

U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark Revision of National Income and Product Accounts, Advance Tables, February 1976, Table 6.6, lines 36-43.

Table 16. Fuel Consumption by Mode of Transport, 1964-1974

Class I Rail:

AAR, Statistics of Railroads of Class I, 1964-1974, July 1975, p. 15.

Air Carriers:

CAB, 1973-1974 Supplement to Handbook of Airline Statistics.

General Aviation:

FAA, Statistical Handbook of Aviation, 1972, table 9.12, and Personal Communication, Information and Statistics Division, FAA, for 1973 and 1974 information.

Highway:

FHWA, Highway Statistics, 1974, table VM-1, and same table in earlier editions.

Vessels:

Residual: Bureau of Mines, Sales of Fuel Oil and Kerosene, 1974, p. 2.

Distillate: Ibid.

Gasoline: FHWA, Highway Statistics, 1974, table MF-24, and same table in earlier editions.

Transit:

APTA, Transit Fact Book, 1973-74, Table 16.

Pipelines:

American Gas Association, Gas Facts, 1974, Table 53, p. 61.

APPENDIX B Glossary

Operations within and paswager the 50 States and that District of Columbia, bushedes

Air Carrier Terminology

AIRBORNE SPEED:

Often called "wheels-off wheels-on speed." The average speed of an aircraft while airborne, computed using great-circle airport-to-airport distance.

AIRCRAFT REVENUE MILES:

The miles (based on airport-to-airport distances) for each interairport hop actually completed in revenue service, whether or not performed in accordance with the scheduled pattern. For this purpose, operation to a flag stop is a hop completed even though a landing is not actually made. In cases where the interairport distances are inapplicable, aircraft miles flown are determined by multiplying the normal cruising speed for the aircraft type by the airborne hours.

CERTIFICATED CARRIER:

One of a class of air carriers holding certificates of public convenience and necessity issued by the CAB, authorizing the performance of scheduled air transportation over specified routes and a limited amount of nonscheduled operations. This general carrier grouping includes the all-purpose carriers (i.e., the so-called passenger/cargo carriers) and the all-cargo carriers, and comprises all of the airlines certificated by the Board, except the supplemental air carriers. Certificated route air carriers are often referred to as "scheduled airlines," although they also perform nonscheduled service.

DOMESTIC OPERATIONS:

Operations within and between the 50 States and the District of Columbia. Includes domestic operations of the certificated trunk carriers and Pan American and the local service, helicopter, intra-Alaska, intra-Hawaii, domestic all-cargo and other carriers; also includes transborder operations conducted on the domestic route segments of U.S. air carriers.

INTERNATIONAL OPERATIONS:

Operations outside the territory of the United States, including operations between the United States and foreign countries and between the United States and its territories and possessions. Includes both the combination passenger/cargo carriers and the all-cargo carriers engaged in international and territorial operations.

NONOPERATING INCOME AND EXPENSES:

Income and loss of commercial ventures not part of the common carrier air transport services of the accounting entity; other revenues and expenses attributable to financing or other activities that are extraneous to and not an integral part of air transportation or its incidental services.

NONREVENUE FLIGHTS:

Flights and flight stages involving training, test, technical, positioning for scheduled flights, ferry, company business, publicity and forced returns for which no remuneration is received.

NONSCHEDULED FREIGHT:

Property carried in charter operations.

NONSCHEDULED SERVICE:

Revenue flights not operated in regular scheduled service principally contract and charter operations.

OPERATING EXPENSES:

Expenses incurred in the performance of air transportation. Includes direct aircraft operating expenses and ground and indirect operating expenses.

OPERATING REVENUES:

Includes revenues from the performance of air transportation and transport related activities. See "Transport Related Revenues."

OTHER TRANSPORT REVENUES:

Miscellaneous revenues associated with the air transportation performed by the air carrier, such as airline employees, officers and directors, or other persons, except ministers of religion who travel under reduced rate transportation; reservation cancellation fees; and other items not specified in other transport revenue accounts.

OVER-ALL OPERATING EXPENSES:

See "Operating Expenses."

OVER-ALL OPERATING REVENUES:

See "Operating Revenues."

OVER-ALL REVENUE LOAD FACTOR:

The percent that total revenue ton-miles (passenger plus nonpassenger) are of available ton-miles in revenue services, representing the proportion of the over-all capacity that is actually sold and utilized.

OVER-ALL REVENUE LOAD PER AIRCRAFT:

The average over-all tonnage carried per aircraft in revenue services derived by dividing the over-all revenue ton-miles by the over-all aircraft miles flown in revenue services.

OVER-ALL TRANSPORT REVENUES:

See "Transport Revenues."

PASSENGER-MILE:

One passenger transported one mile. Passenger-miles are computed by summation of the products of the aircraft miles flown on each inter-airport flight stage multiplied by the number of passengers carried on that flight stage.

PASSENGER ENPLANEMENTS:

The total number of revenue passengers boarding aircraft, including originating and stopover or on line transfer passengers.

PASSENGER REVENUES:

Revenues from the transportation of passengers by air.

PASSENGER SERVICE EXPENSES:

Costs of activities contributing to the comfort, safety, and convenience of passengers while in flight and when flights are interrupted. Includes salaries and expenses of cabin attendants and passenger food expense.

PASSENGER REVENUE TON-MILE:

One ton of revenue passenger weight (including all baggage) transported one mile. The passenger weight standard for both "Domestic" and "International" operation is 200 pounds.

REVENUE PASSENGER LOAD FACTOR:

The percent that revenue passenger-miles are of available seat-miles in revenue passenger services, presenting the proportion of aircraft seating capacity that is actually sold and utilized.

REVENUE PASSENGER-MILE:

One revenue passenger transported 1 mile in revenue service. Revenue passenger-miles are computed by summation of the products of the revenue aircraft-miles flown on each interairport flight stage multiplied by the number of passengers carried on that flight stage.

REVENUE TON-MILE OF FREIGHT:

One short ton of freight transported 1 statute mile. Ton-miles are computed by summation of the products of the aircraft-miles flown on each interairport flight stage multiplied by the number of tons carried on that flight stage.

SCHEDULED SERVICE:

Transport service operated over an air carrier's certificated routes, based on published flight schedules, including extra sections and related nonrevenue flights.

SUPPLEMENTAL AIR CARRIER:

One of a class of air carriers now holding certificates, issued by the CAB, authorizing them to perform passenger and cargo charter services supplementing the scheduled service of the certificated route air carriers. Supplemental air carriers are often referred to as "nonskeds," i.e., non-scheduled carriers.

TRANSPORT RELATED EXPENSES:

Expenses from services related to air transportation such as in-flight sales of liquor, food and other items: ground, restaurant and food services, rental expense as lessor, interchange sales, general service sales, mutual aid, substitute service and air cargo service (other than actual air movement).

TRANSPORT RELATED REVENUES:

Revenues from services related to air transportation such as enumerated above "Transportation Related Expenses."

TRANSPORT REVENUES:

Revenues from transportation by air of all classes of traffic in scheduled and nonscheduled service, including the performance of charters.

Highway Terminology

FEDERAL EXPENDITURES:

Intergovernmental payments to the States, District of Columbia, and local governments plus direct expenditures for capital outlay, maintenance, administration, and research.

MUNICIPAL MILEAGE:

Roads inside city, municipal district, or urban boundaries: includes extensions of the state primary system, and state secondary roads within delimited incorporated and unincorporated places, and mileage under local control; e.g., local city streets, roads, and public ways not under State control within such places.

RURAL MILEAGE:

Roads outside city, municipal district, or urban boundaries.

STATE AND LOCAL EXPENDITURES:

Disbursements for capital outlay, maintenance and traffic surfaces, administration, and research, highway law enforcement and safety, and interest on debt.

STATE PRIMARY SYSTEM:

This refers to highways that have been so officially designated by States. They encompass the principal intercounty, intercity and interstate roads of all States.

STATE SECONDARY ROADS:

This mileage is reported in the tables for the States (taken from the Highway Statistics 1970 Bulletin) that have designated both a primary and a secondary system.

Automobile Terminology

LOCAL RURAL ROADS:

Streets outside urban boundaries other than principal arteries of travel.

MAIN RURAL ROADS:

Streets outside urban boundaries that are generally recognized as principal arteries of travel.

PASSENGER-MILES:

This figure represents the total distance traveled by all passengers in passenger cars and taxis. One passenger traveling 1 mile generates 1 passenger-mile.

REVENUES - TAXI:

Fares paid by passengers riding in taxis.

VEHICLE-MILES:

Automobile vehicle-miles are estimated by calculating the number of gallons of gas sold from gasoline tax receipts and multiplying by the average number of miles per gallon.

VEHICLE-MILES (BY TYPE OF STREET):

These figures represent the total number of miles traveled by passenger cars, taxis, and motorcycles on the different types of streets. One vehicle traveling 1 mile generates 1 vehicle-mile.

URBAN STREETS:

Streets within urban boundaries.

Bus Terminology

COMMERCIAL BUS:

Any bus used to carry passengers at rates specified in tariffs; charges may be computed per passenger (as in regular route service) or per vehicle (as in charter service).

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EXPENDITURES - SCHOOL BUS:

This is the total expenditure for operation, maintenance, insurance, depreciation, operating taxes, licenses, and operating rents for vehicles used as school buses.

INTERCITY BUS - CLASS I:

An interstate motor carrier of passengers with an average annual gross revenue of at least \$1,000,000 is defined by the ICC as a Class I carrier.

INTERCITY BUS — TOTAL:

This figure includes Class I, II, and III interstate carriers, all of which report to the Interstate Commerce Commission, and intrastate carriers.

REVENUE PASSENGERS:

Passengers on a commercial bus by or for whom a fare is paid.

REVENUE PASSENGER-MILES:

One revenue passenger carried 1 mile generates 1 passenger-mile. The revenue passenger miles reported thus represent the total distance traveled by all bus passengers.

SCHOOL AND NONREVENUE BUS:

Passengers using these are not directly charged for transportation, either on a "per passenger" or on a "per vehicle" basis.

TAXES ASSIGNABLE TO OPERATIONS:

Includes the amount of federal, state, county, municipal, and other taxing district taxes which relate to motor carrier operations and property use therein (except income taxes on ordinary income).

VEHICLE-MILE:

One vehicle traveling 1 mile generates 1 vehicle-mile. Total vehicle-miles, thus, gives the total mileage traveled by all vehicles.

Truck Terminology

AVERAGE LENGTH OF HAUL (MILES):

The total number of ton-miles divided by the total number of tons carried.

ICC-REGULATED CARRIER:

A motor common carrier operating in interstate commerce under a grant of authority from the Interstate Commerce Commission and subject to its economic regulation.

NON-ICC-REGULATED CARRIER:

A motor carrier not subject to the economic regulation of the ICC. The category includes intrastate carriers, private carriers hauling only the goods of their owners, and carriers of commodities, the transportation of which is exempt from ICC economic regulation.

OPERATING EXPENSES:

This includes expenditures for equipment maintenance, supervision, wages, fuel, equipment rental, terminal operations, insurance, safety, and administrative and general functions.

OPERATING REVENUES OF CLASS I INTERCITY MOTOR CARRIERS:

This term is defined by the ICC to include the five categories of revenue listed in the text.

REVENUE:

The total amounts received by carriers for transportation and other services.

TON-MILES:

The transportation of 1 short ton (2,000 lbs) of freight a distance of 1 mile generates a 1 ton-mile.

VEHICLE-MILES:

This term includes miles operated by power units upon urban streets, main rural roads, and local rural roads.

Local Transit Terminology

HEAVY RAIL:

Rail rapid transit services.

LIGHT RAIL:

Streetcar, trolley car, or light surface rail operations, including private right-of-way operations, typified by low platform stations, one-man operation at all times, capability for on-board fare collection, and actual on-board fare collection most of the time.

MOTORBUS:

Rubber tired, self-propelled transit vehicle with fuel supply carried on board the vehicle.

OPERATING EXPENSES:

These expenditures include outlays for maintenance, wages, fuel, licensing, insurance, rent, safety, operating taxes, and station operations.

OPERATING REVENUE:

Includes passenger revenue and revenue from charter and contract services.

PASSENGER REVENUE:

The total of all moneys paid by passengers to ride on scheduled trips. This includes single trip fares, and charges for transfers, weekly, monthly, and other unlimited-usage tickets.

REVENUE PASSENGERS CARRIED:

The total number of transit rides from origin to destination taken by passengers. Thus, a multi-vehicle ride would be counted only once. A ride by a nonrevenue passenger would not be counted.

REVENUE VEHICLE-MILES:

One vehicle (bus, trolley car, subway car, etc.) traveling 1 mile while revenue passengers are on board generates 1 revenue vehicle-mile. The revenue vehicle-miles reported thus represent the total mileage traveled by vehicles in scheduled or unscheduled revenue-producing services.

TROLLEY COACH:

A vehicle with the steering capability of a motor coach, running on rubber tires, but drawing power from electric overhead wires.

Water Transport Terminology

CLASS A CARRIERS BY INLAND AND COASTAL WATERWAYS:

A class A carrier by water is one with an average annual operation revenue that exceeds \$500,000.

CLASS B CARRIERS BY INLAND AND COASTAL WATERWAYS:

A class B carrier by water is one with an average annual operating revenue greater than \$100,000 but less than \$500,000.

COASTWISE TRAFFIC:

Domestic traffic is coastwise when it moves over the ocean, or the Gulf of Mexico; e.g., between New Orleans and Baltimore, New York and Puerto Rico, San Francisco and Hawaii, Puerto Rico and Hawaii. Traffic between Great Lakes ports and seacoast ports, when having a carriage over the ocean, is also deemed to be coastwise. The Chesapeake Bay and Puget Sound are considered internal bodies of water rather than arms of the ocean; traffic confined to these areas is deemed to be "internal" rather than coastwise.

DOMESTIC FREIGHT:

All waterborne commercial movements between points in the United States, Puerto Rico and the Virgin Islands, excluding traffic with the Panama Canal Zone. Cargo moved for the military in commercial vessels is reported as ordinary commercial cargo; military cargo moved in military vessels is omitted.

DOMESTIC PASSENGER:

Any person traveling on a public conveyance by water between points in the United States, Puerto Rico, and the Virgin Islands.

DRY CARGO BARGES:

Large flat-bottomed, non-self-propelled vessels used to transport dry bulk materials such as coal and ore.

EXPORTS:

Outbound international freight including re-export of foreign merchandise.

IMPORTS:

Inbound international freight.

INLAND AND COASTAL WATERWAYS INLAND AND COASTAL CHANNELS:

These terms include the Atlantic Coast Waterways, the Atlantic Intracoastal Waterway, the New York State Barge Canal System, the Gulf Coast Waterways, the Gulf Intracoastal Waterway, the Mississippi River System (including the Illinois Waterway), Pacific Coast Waterways, the Great Lakes, and all other channels (waterways) of the United States, exclusive of Alaska, that are usable for commercial navigation.

INTERNAL TRAFFIC:

Traffic is internal when the entire movement between ports or landings takes place on inland waterways. The following types of movements are also termed internal: movements involving carriage on both inland waterways and waters of the Great Lakes, inland movements that cross short stretches of open waters that link inland systems; marine products, sand and gravel taken directly from beds of the oceans, the Gulf of Mexico and important arms thereof; and movements between offshore installations and inland waterways.

INTERNATIONAL (FOREIGN) FREIGHT:

Movements between the United States and foreign countries and between Puerto Rico, the Virgin Islands and foreign countries. Trade between U.S. territories and possessions (i.e., Guam, Wake, American Samoa, etc.) and foreign countries is excluded. Traffic to or from the Panama Canal Zone is included.

INTERNATIONAL PASSENGER:

Any person traveling on a waterborne public conveyance between the United States and foreign countries and between Puerto Rico and the Virgin Islands and foreign countries.

INTRATERRITORIAL TRAFFIC:

Traffic between ports in Puerto Rico and the Virgin Islands, which are considered as a single unit.

LAKEWISE OR GREAT LAKES:

These terms apply to traffic between U.S. ports on the Great Lakes system. The Great Lakes system is treated as a separate system rather than as a part of the inland system.

LOCAL:

Movements of freight within the confines of a port, whether the port has only one or several arms or channels, except car-ferry and general ferry, are termed "local." The term is also applied to marine products, sand, and gravel taken directly from the Great Lakes.

MARITIME CARRIERS:

Maritime carriers operate on the open sea; i.e., their operations must include a foreign or international component, and may include a domestic component.

MARITIME REVENUE:

Revenue received for operations in international or foreign shipping.

NON-SELF-PROPELLED:

Vessels not containing within themselves the means for their own propulsion.

PASSENGER-MILE, INTERCITY:

Moving one passenger one mile on a trip between two cities generates one intercity passenger mile.

SELF-PROPELLED TOWROAT:

A compact, shallow-draft boat with a squared bow and towing "knees" for pushing tows of barges on inland waterways.

SCOWS:

Large, flat-bottomed non-self-propelled vessels used to transport sand, gravel, or refuse.

TANK BARGES:

Large, flat-bottomed non-self-propelled vessels used to transport fluids such as oils.

TON-MILE:

Moving one tone one mile generates one ton-mile.

TON-MILE, DOMESTIC DEEP SEA:

Moving one ton one mile by a domestic water carrier over open ocean generates one domestic deep-sea ton-mile.

TONS OF FREIGHT HAULED:

The figures for tons of freight hauled on domestic waterways include exports and imports.

TUG:

A strongly built boat used for towing and pushing, self-propelled.

Railroad Terminology

AVERAGE HAUL:

The average distance in miles that 1 ton was carried. It is computed by dividing the number of ton-miles generated by the number of tons carried to generate that number of ton-miles.

AVERAGE PASSENGER TRIP LENGTH:

Calculated by dividing the number of revenue passenger miles by the number of revenue passengers carried.

CAR MILEAGE:

Movement of a car 1 mile is a car-mile.

CLASS I RAILROAD:

A railroad with an annual operating revenue of greater than \$5,000,000. Effective January 1, 1976, the minimum annual operating revenue requirement was raised to \$10,000,000.

COMMUTATION TICKET

A ticket intended for use by a person traveling on a daily basis, i.e., to and from work; such a ticket is typically valid for an extended time period (i.e., a week or a month); the charge for such a ticket reflects a discount from the sum of the one-way fares that would be paid by the ticketholder for the period of validity in the absence of such a reduced-rate ticket.

EXPRESS REVENUE:

Revenue from transportation of express shipments and from the use of facilities on trains and at stations incidental to such transportation.

FREIGHT REVENUE:

Revenue from the transportation of freight and from the exercise of transit, stop-off, diversion, and reconsignment privileges, as provided for in tariffs.

LINE MILEAGE:

The aggregate length of roadway of all line-haul railroads. It does not include the mileage of yard tracks or sidings, nor does it reflect the fact that a mile of railroad may include two or more parallel tracks. Jointly-used track is counted only once.

Movement of a locomotive unit 1 mile is a locomotive-mile.

LOCOMOTIVES:

Self-propelled units of equipment designed solely for moving other equipment.

MAIL REVENUE:

Revenue from the transportation of mail at established rates, and for services and facilities provided in connection with the handling of U.S. mail.

OPERATING EXPENSES:

Expenses of furnishing transportation service, including maintenance and depreciation.

OTHER REVENUE:

This is a general heading that includes revenues from miscellaneous operations (i.e., dining and bar car services), income from lease of road and equipment, miscellaneous rent income, income from non-operating property, profit from separately operated properties, dividend income, interest income, income from sinking and other reserve funds, release or premium on funded debt, contributions from other companies, and other miscellaneous income.

PASSENGER REVENUE - COMMUTATION:

Revenue from the sale of commutation tickets.

PASSENGER REVENUE - OTHER THAN COMMUTATION:

Revenue from the transportation of paying passengers not holding commutation tickets; this classification includes basic one-way and round trip fares, discounted fares offered for the clergy and military, special excursion fares offered to travelers meeting the requirements for eligibility for those fares, (i.e., origin/destination, time of travel, length of stay at destination), revenue from the extra charges made for occupancy of space in parlor and sleeping cars, and revenue from the transportation of corpses.

PASSENGER TRAIN CARS:

Cars typically found in passenger trains include coaches, sleeping cars (formerly called Pullman cars), parlor cars, dining cars, lounge cars, baggage cars, crew-dormitory cars, and observation cars.

REVENUE PASSENGERS CARRIED - COMMUTATION:

Number of one-way trips made by persons holding commutation tickets.

REVENUE PASSENGERS CARRIED - OTHER THAN COMMUTATION:

Number of one-way trips by passengers paying their fares at other than commutation ticket rates; this excludes passengers lawfully traveling without paying.

REVENUE PASSENGER-MILE:

One revenue passenger traveling 1 mile generates 1 revenue passenger-mile. The revenue passenger-miles reported thus represent the total distance traveled by all railroad passengers.

REVENUE TON-MILES:

The product of weight of the contents of a freight car in tons and the distance transported in miles; i.e., n tons moving m miles generate $n \times m$ ton-miles.

TOTAL OPERATING REVENUES:

The amount of money that carriers become entitled to receive from transportation and from operations incident thereto.

Oil Pipeline Terminology

ICC-REGULATED PIPELINE:

A pipeline company operating in interstate commerce under a grant of authorization from the Interstate Commerce Commission, and subject to economic regulation by the Commission. Such a pipeline company is required to report relevant statistics to the ICC.

NON-REGULATED PIPELINE:

A pipeline company not operating as a common carrier in interstate commerce, hence neither required to secure a grant of operating authority from the Commission nor to report to it.

OPERATING EXPENSES:

Expenditures necessarily made while providing services by which operating revenue is earned.

OPERATING REVENUE:

Revenue from the transportation of oil and from services incidental to such transportation.

APPENDIX C

Bicycling: Its Role in Transportation and Traffic Safety Systems

INCREASING TRENDS IN BICYCLE USAGE

The bicycle for many years served as a form of recreation for children and adults, and, to some extent, as a means of transportation for adults. In these limited activities, bicycling posed few problems beyond the bicyclist's consumption of his own physical energy. This situation has changed dramatically in recent years, especially during the period of fuel energy shortages and the attendant heavy increases in the cost of energy. With fuel energy shortages threatening the level of motor vehicle transportation, bicycling, while retaining its recreational utility, has assumed a new and significant role as a mode of highway transportation.

The number of bicycles in use and the estimated number of users for the past fifteen years are indicated in Tables 1 and 2. The increase in bicycles entering the U.S. marketplace is also shown in these tables. Specifically, the total nearly doubled from 1960 to 1968 [3.8 million to 7.5 million (Table 1)], and by 1973 reached an output of 15.3 million bicycles. Although the trend was reversed slightly in 1974, and significantly in 1975, due mainly to inventory reductions among wholesalers and retailers, the bicycles in use and the number of users have not decreased. In fact, the bicycle manufacturing industry anticipates an increase in production to nine million bicycles in 1976, and, with a steady annual increase in production, an estimated increase to about 110 million users by 1980. All of this points to the need for consideration of the vast presence of bicycles and bicyclists as factors in the problem areas relating to transportation, highway utilization, and traffic safety.

Table 1. U.S.-Manufactured and Imported Bicycles (millions per year)

	Domestic	Imports	Total	Bikes	Est.
Year	Shipments		U.S. & Imp.	in Use*	Users*
1960 1965 1968 1969 1970 1971 1972 1973 1974	2.6 4.6 6.0 5.1 5.0 6.6 8.8 10.1 10.1 5.6	1.1 1.0 1.5 2.0 1.9 2.3 5.1 5.2 4.0 1.7	3.8 5.7 7.5 7.1 6.9 8.9 13.9 15.3 14.1 7.3	23.5 32.9 42.3 47.7 50.0 53.1 61.2 70.0+ 75.0+	35.2 49.3 63.4 71.5 75.3 79.6 91.9 100.0+ 100.0+ 100.0+

^{*}Bikes-in-use estimate is based on an estimated bike "life" multiplied by a unit sales factor. Rentals and other multiple-use situations are calculated into the Estimated Users estimates. (Results of studies on estimated bike life are not yet available.)

Source: Bicycle Manufacturers Association of America, Inc., 1101 Fifteenth Street, N.W.—Suite 304, Washington, D.C. 20005

Table 2. USA Bicycle Market — Domestic and Imports by Category

	Million Units				
Year	Lightweights	Hi-Rise	All Other	Total	
1960 1965 1970 1971 1972 1973 1974	.8 1.3 1.4 3.8 9.4 10.6 10.3 4.4	1.3 4.4 4.1 3.5 3.8 3.1 2.5	3.0 3.1 1.1 1.0 1.0 .8 .7	3.8 5.7 6.9 8.9 13.9 15.2 14.1 7.3	

Source: Bicycle Manufacturers Association of America, Inc., 1101 Fifteenth Street, N.W.—Suite 304, Washington, D.C. 20005.

RELATIONSHIP BETWEEN INCREASED USE OF BICYCLES BY ADULTS AND BICYCLIST FATALITIES

The sharp increase in bicycling has been accompanied by a shift in emphasis from recreational activity by children in their immediate neighborhoods to utility by adults, not only for recreational purposes, but also for transportation on highways and urban thoroughfares. This increased adult participation has correspondingly added to travel hazards for bicyclists, pedestrians, and motor vehicle drivers, and has been a direct influence in the increased number of fatalities to adults as compared to fatalities to very young people. Although the number of bicycle-related fatalities is far below the number related to motor vehicle accidents, there is reason for concern that, in the face of steadily increasing numbers of bicyclists, failure to regulate and standardize bicycling within the framework of highway and transportation regulations may perpetuate confusion and danger among bicyclists and motor vehicle operators.

The above facts are indicated statistically by the data of Table 3, which includes bicycles in use for a given year, total bicycle-related deaths for that year, and bicycle-related deaths by age for certain years between 1935 and 1974. In summary, the following items reflect concurrence between the general statements and the tabular data:

- The number of fatalities has more than doubled since 1935.
- The number of bicycles on the road has increased much faster than the occurrences of fatalities for the same period, so that the rate of deaths has in effect been reduced. The decreasing rate was rapid from 1935 to 1955, but then leveled off to a relatively stable rate in 1972, 1973, and 1974, coincident with the period of greatest bicycle production. Although the rate of fatalities is low with respect to the number of bicycles in use, it is quite high considering the ratio of actual deaths, say in 1972, to a previous year as close as 1970 (e.g., an increase of almost 39 percent).
- The percentage of deaths occurring to young people and adults has risen appreciably since 1960, at the same time that the rate of deaths occurring to very young people (below fifteen years of age) has notably diminished. This fact is consistent with the shift in the relative amount of bicycling carried on by the respective age groups.

Table 3. Bicycle Rates and Death by Age, 1935-1974

37	Bicycles*		Death	Percent of Deaths by Age			ge
Year	(millions)	Deaths**	Rate***	All Ages	0-14	15-24	25 & Over
1935	3.5	450	12.80	100%	57	29	14
1940	7.8	750	9.59	100%	48	39	14 13
1945	9.0	500	5.55	100%	56	22	22
1950	13.8	440	3.18	100%	82	9	
1955	23.1	410	1.78	100%	71	12	9
1960	28.2	460	1.63	100%	78	9	17
1965	38.8	680	1.75	100%	64	18	13
1970	56.5	800	1.42	100%	66	15	18
1971	n/a	820	n/a	100%	62	24	19
1972	71.4	1,110	1.55	100%	50	27	14
1973	80.0	1,017	1.27	100%	49		23
1974	90.0	987	1.10	100%	47	30 31	$\begin{array}{c} 21 \\ 22 \end{array}$

n/a — Data not available from National Safety Council

Source: National Safety Council, ACCIDENT FACTS - 1975

^{*}Bicycles in use for a given year is the ten-year total (that year and the previous nine years) of domestic production plus imports less exports.

^{**}Data on Deaths are from HEW National Center for Health Statistics.

^{***}Deaths per 100,000 bicycles in use.

LEGISLATION FOR INCREASING HIGHWAY SAFETY.

Highway Safety Act of 1966

When the Department of Transportation was established in 1966, it recognized and gave serious consideration to the upsurge in the use of bicycles, the shift in the nature and location of their use, and the relationship of bicyclists and pedestrians to the then restricted definition of highway and transportation programs. Concern for the pedestrian was first evident in legislation proposed in 1966 by the Department. The Highway Safety Act of 1966 considered means for assuring greater safety to pedestrians as part of the highway safety program.

Safety Program Initiatives in Federal Aid Highway Acts of 1973 and 1976

New legislation in 1973 provided further relevance to the need for including bicycling and walking as integral parts of the highway safety problem by designating bicycle facilities (bikeways) and sidewalks as highway projects. In addition, the legislation required investigation of bicycle and pedestrian safety, and provided funds, through the National Highway Traffic Safety Administration and the Federal Highway Administration, for construction facilities, and for research, training, education, and creation of countermeasures in safety programs for bicyclists, pedestrians, and motor vehicle operators. These projects, which fitted within the expanded definition of highway programs, made funds available to the States to institute the federally motivated laws at the State and local levels. But the response by the States was disappointingly slight, and only a small amount of the available Federal funds was actually used. Conclusive reasons for this disappointing circumstance are not available, but the Federal agencies are attempting to learn the basis for this apparent lack of enthusiasm of the States and local governments for these funds.

The inadequacy of State and local government program activities, as noted in a 1974 report to Congress, and the disappointing response to the Federal Aid Highway Act of 1973, can conceivably be related to the nature of the funding allotted in that act. According to that legislation, modified by the recent Federal Aid Highway Act of 1976, facilities for bicycling and walking can be developed in two ways: (1) as incidental costs of highway projects, and (2) as projects undertaken independently of highway construction projects. The independent projects are now limited nationwide to \$45 million, with no State receiving more than \$2.5 million for bikeways and walkways. These funds are not additional funds provided for bikeways and walkways, but are limitations on the use of funds that are authorized and apportioned to the States for highway development. The amount of the funds that are used for bikeways, walkways, highways, and other authorized purposes are determined by State and local officials. The Federal Highway Administration will monitor the funding closely each year to ensure that the limitations have not been exceeded. It is hoped that the increase provided by the Federal Aid Highway Act of 1976 will encourage the States and local officials to develop and imporve their bicycle facilities.

Modification of the Uniform Vehicle Code

The great increase in adult use of bicycles has influenced a number of agencies whose objectives coincide with the need to assure safety on the highway to moving vehicles and pedestrians. Since adults using bicycles for transportation are compelled to use the same roads and highways as the motor vehicle drivers, it has become necessary to evaluate and legislate highway programs and laws to include the bicycle and other human-powered devices included in the definition of vehicle. The National Committee on Uniform Traffic Laws and Ordinances has accordingly modified and modernized the Uniform Vehicle Code. The bicyclist benefits from the laws by attaining eligibility status on the highway, but also assumes responsibility for observing the requirements set by the laws, and faces penalties for violating them just as originally prescribed for the motor vehicle driver.

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (NHTSA) SAFETY PROGRAMS

The National Highway Traffic Safety Administration, in its continuing efforts to provide laws and guidelines for increasing safety for bicyclists and pedestrians and motor vehicle operators, has undertaken a number of safety research programs. Primary topics related to these programs are considered in the following subsections:

A. In-Depth Accident Investigations

A current project by NHTSA is attempting to accomplish certain objectives related to accidents between bicyclist and driver.

- Identify behavioral errors by bicyclist and/or driver associated with the accident.
- Study relationship between severity of the accident and the configuration of the vehicle to determine the feasibility of potential vehicle design changes.
- Identify factors which lead to bicyclist injuries.

A very significant part of the study will require data collection on the causal factors leading to accidents. The data collected will be based on in-depth investigation of at least 700 bicycle accidents, and will involve the following considerations:

- Reconstruction of the accident
- Human factors analysis based on interviews either at the scene of the accident, or in person during follow-up procedures
- Evaluation of the injury information and coordination of medical reports with hospitals.

B. Bicycle/Motor Vehicle Accident Types

A research project on bicycle/motor vehicle accidents was developed by NHTSA to fulfill the requirements in the Statement of Work for Solicitation Number NHTSA-4-A605, issued May 19, 1974. The report was intended to collect and analyze data about bicycle/motor vehicle accidents, and on the basis of information collected and data analyzed, to identify and evaluate countermeasures, and thus reduce the incidence of such accidents, or, if they occur, to minimize the consequences of the accidents. The final report will contain:

- A compilation of detailed data from a representative data base of 1100 cases. Data to be obtained by inspection of traffic accident report forms, on-site inspection, and interviews with victims and witnesses.
- Classification of accidents by combining events and factors causally related to the accident. Analysis of collected data to determine frequency and consequences of accident so classified.
- Statistical analyses to compare urban and rural accidents. This procedure will determine whether frequency, severity, and type of accidents have any relationship to the areas in which they occurred.
- Analysis of descriptive data to identify specific countermeasure targets. Targets are intended to include these possibilities:
 - 1. Homogeneous class of operators excessively involved in accidents.
 - 2. Locations where excessive numbers of accidents occur.
 - 3. Vehicle types which are too frequently involved in accidents relative to their number on the road.
 - 4. Conditions, such as operator, vehicle, roadway, and weather, under which accidents are more likely to occur.
- Use of the composite data to identify and evaluate potential accident countermeasures
- List of additional data requirements to identify accident types and specify research and development activities to develop and evaluate accident countermeasures.

C. Data Sampling (PADSAP) Program

The National Highway Traffic Safety Administration has adopted a data sampling plan which is intended to provide regular inputs to traffic records systems. The data sampling is one phase of a plan known as the Pedestrian/Bicycle Accident Data Sampling Plan (PADSAP). Within three to four year (1979-1980) PADSAP will, on a regular basis, provide a national profile of bicycle/motor vehicle crashes based on in-depth investigation reports received from 350 jurisdictions. This data sampling will conform to the emphasis on research by NHTSA to identify causal/severity factors in bicycle/motor vehicle accidents, and to develop specific countermeasures.

D. Pedalcyclist Safety Standard

The National Highway Traffic Safety Administration proposed, in early 1976, a new highway safety program standard to increase the safety of pedalcyclists. The standard is basically directed toward the pedalcyclist, whereas additional safety measures related to the bicycle itself and to bikeways, lanes, and paths are provided by the Consumer Product Safety Commission and the Federal Highway Administration. An important aspect of the NHTSA proposal is the stipulation that there be close cooperation between the Federal Government and the States in implementation of the proposed requirements, specifically:

- Each State would include human-powered devices in its definition of vehicle.
- Traffic laws which conform to the Rules of the Road and equipment requirements in the revised Uniform Vehicle Code.
- Accident reports are to be upgraded by each State to conform to the Accidents and Accident Reporting information contained in the revised Uniform Vehicle Code.
- Each State will evaluate its pedalcyclist safety program annually according to a cooperatively established methodology.

In addition, the proposed standard contains certain supplementary requirements which include:

- Designation of an agency or department as having primary responsibility for coordinating pedalcyclist safety programs.
- Assurance that bicycling offenses will be handled as part of the total traffic law enforcement function.
- Provision of information systems programs based on the highway safety program standards.
- Provision of education and training programs for in-school and community-wide pedalcyclists and those persons interacting with them.
- Adoption of laws and ordinances which will provide alternatives to monetary penalties.

URBAN TRANSPORTATION PLANNING

Urban transportation planning is carried out at the local level under joint program regulation of the Federal Highway Administration and the Urban Mass Transportation Administration. Federal funds are made available to State and local governments for mass transit and highway planning for urban areas. In the latter category, a portion of the program referred to as the Transportation Systems Management element provides consideration of action to be taken to ensure the efficient use of road space. Among these actions are those for pedestrians and bicyclists, including:

- Bicycle paths and exclusive lanes
- Pedestrian malls
- Other means of separating pedestrians and vehicular traffic
- Secure and convenient storage areas for bicycles
- Bicycle facilities other than the above.

Acceptance of the bicycle as part of the overall transportation system on the Federal Highway Administration and the Urban Mass Transportation Administration (as well as the other Department of Transportation agencies) is evidenced by continuing efforts to include it in their overall transportation legislation and funding as well as in projects individually applicable to bicyclists and

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