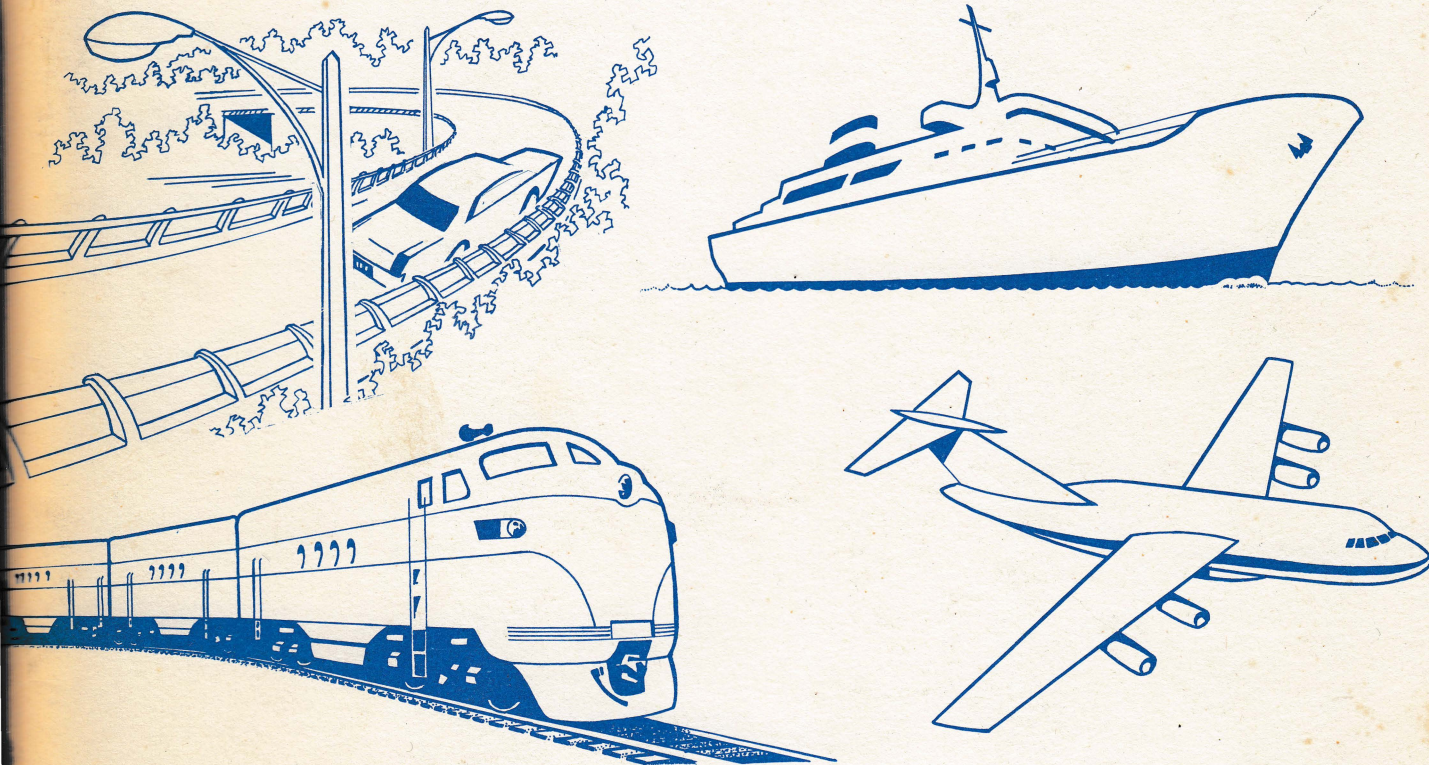


NATIONAL TRANSPORTATION STATISTICS

SUMMARY REPORT



NOVEMBER 1971



DEPARTMENT OF TRANSPORTATION

ASSISTANT SECRETARY FOR POLICY AND INTERNATIONAL AFFAIRS

OFFICE OF SYSTEMS ANALYSIS AND INFORMATION

WASHINGTON, D. C. 20590

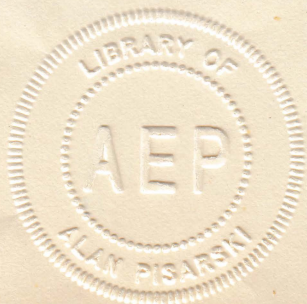
PROJECT STAFF

NATIONAL TRANSPORTATION
STATISTICS

SUMMARY REPORT

November 1, 1971

U.S. Department of Transportation
Assistant Secretary for Policy and International Affairs
Office of Systems Analysis and Information



NATIONAL TRANSPORTATION STATISTICS

PREFACE

PROJECT STAFF

The principals in producing this compilation of

National Transportation Statistics were

MISS FRANCES T. BOLGER
MISS PAMELA WERNER

MR. GILL V. HICKS

Transportation Information
Systems Project Group
Urban Systems Laboratory
Massachusetts Institute of
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NATIONAL TRANSPORTATION STATISTICS

PREFACE

This publication is a compendium of national transportation statistics. It is prepared for those wanting a brief quantitative perspective of transportation. It does not, nor is it intended to serve the needs of analysts performing detailed research. Such needs, within and without the Department of Transportation, will be met by the more-inclusive data base of the Office of Systems Analysis and Information, upon special request.

The document consists of three volumes. This volume, entitled "Summary Report," contains selected summaries of the statistics. Volumes two and three consist of time-series data on an annual basis from 1958 to 1970. ^{1/} The statistics for each mode of transportation have been assembled from a wide variety of well-established data sources. The data base contains short descriptions of the sources, as well as extensive cross indexes to guide the reader to particular time-series.

With the time-series data in this document, the user can easily identify trends and undertake regression analysis. If desired by the users, trend projections extending two to four years beyond the latest data will be developed and included in future editions. Comments are requested on this point.

^{1/} The latest year for which information is available.

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INTRODUCTION

This publication contains summaries of selected national transportation statistics. The summaries are of three types:

- (1) tree displays
- (2) modal profiles
- (3) transportation trends

The data base from which the summaries have been drawn consists of time series covering the years 1958 through 1970, and has been published in two separate volumes. Appendices A, B, and C of this report are indexes to the data base.

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 easily. 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. Revenues (for-hire modes)
- C. Taxes
- 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 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. "subway and elevated" can be considered a subset of both "local transit" and "rail."

The exact definition of a data item depends, of course, on the mode in question. For example, the number of locomotives owned by the Class I railroads would fall under the generalized category II.B. in the list on the previous page. Similarly, the number of passenger originations of the supplemental air carriers would fall under category III.C.

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 FAA Statistical Handbook of Aviation.

Tree Displays. Figure 2 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:

- a) expenditures and revenues (1970)
- b) vehicle-miles (1970)
- c) passenger miles (1970)
- d) ton-miles (1970)
- e) fatalities (1969)
- f) number of vehicles (1968)

Some precision in definition is lost with this display technique, but the footnotes on page 13 attempt to qualify the statistics requiring further explanation.

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 pages 1 and 2 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 1970 values for each measure. In some instances the 1970 value is not available, and either the 1969 or most recent value has been listed instead.

Transportation Trends. Included in these tables are historical data from 1962 to 1970 displayed at two-year intervals. Not all of the available data are presented, rather some of the more important data items were selected for comparative purposes.

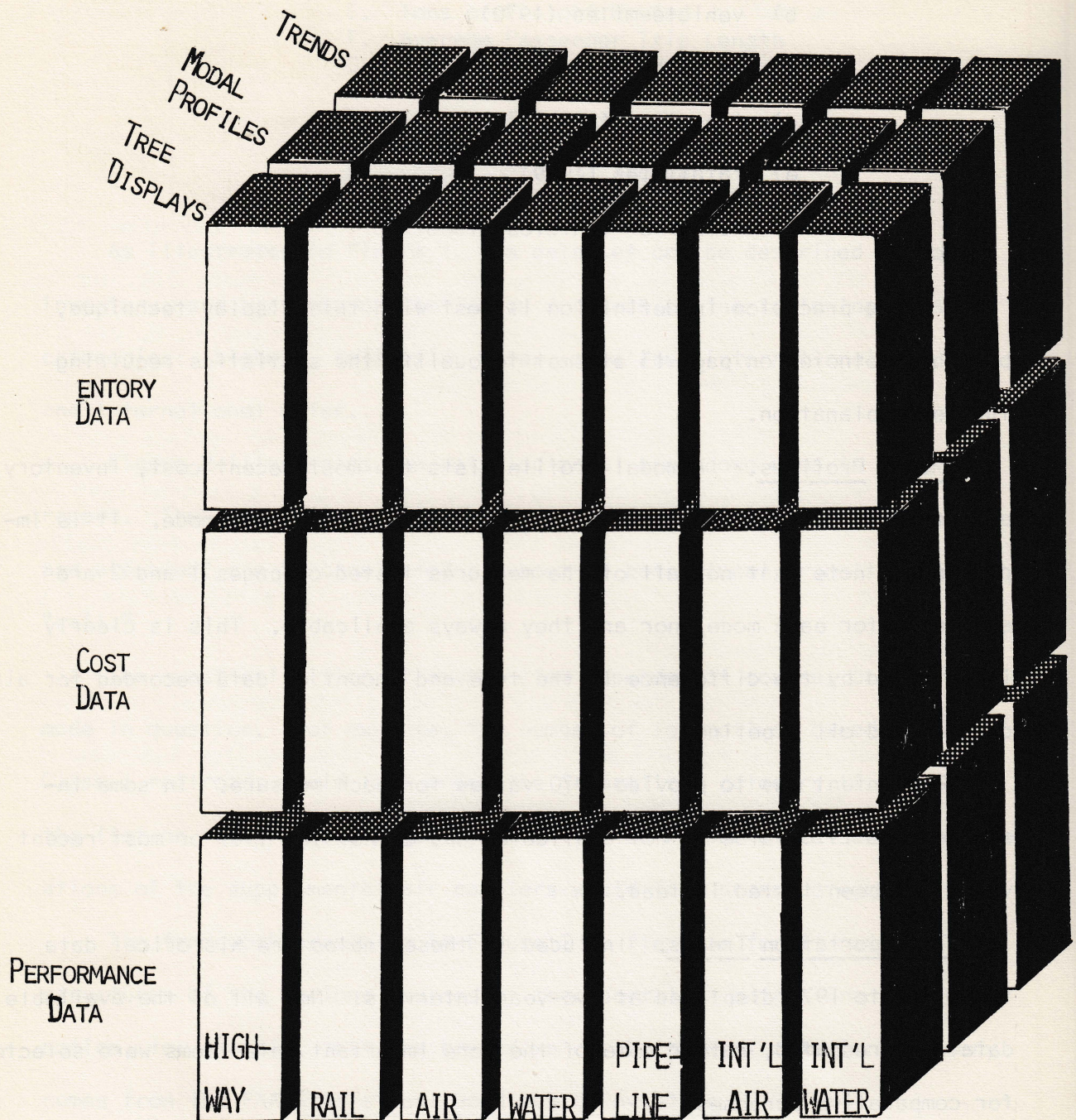
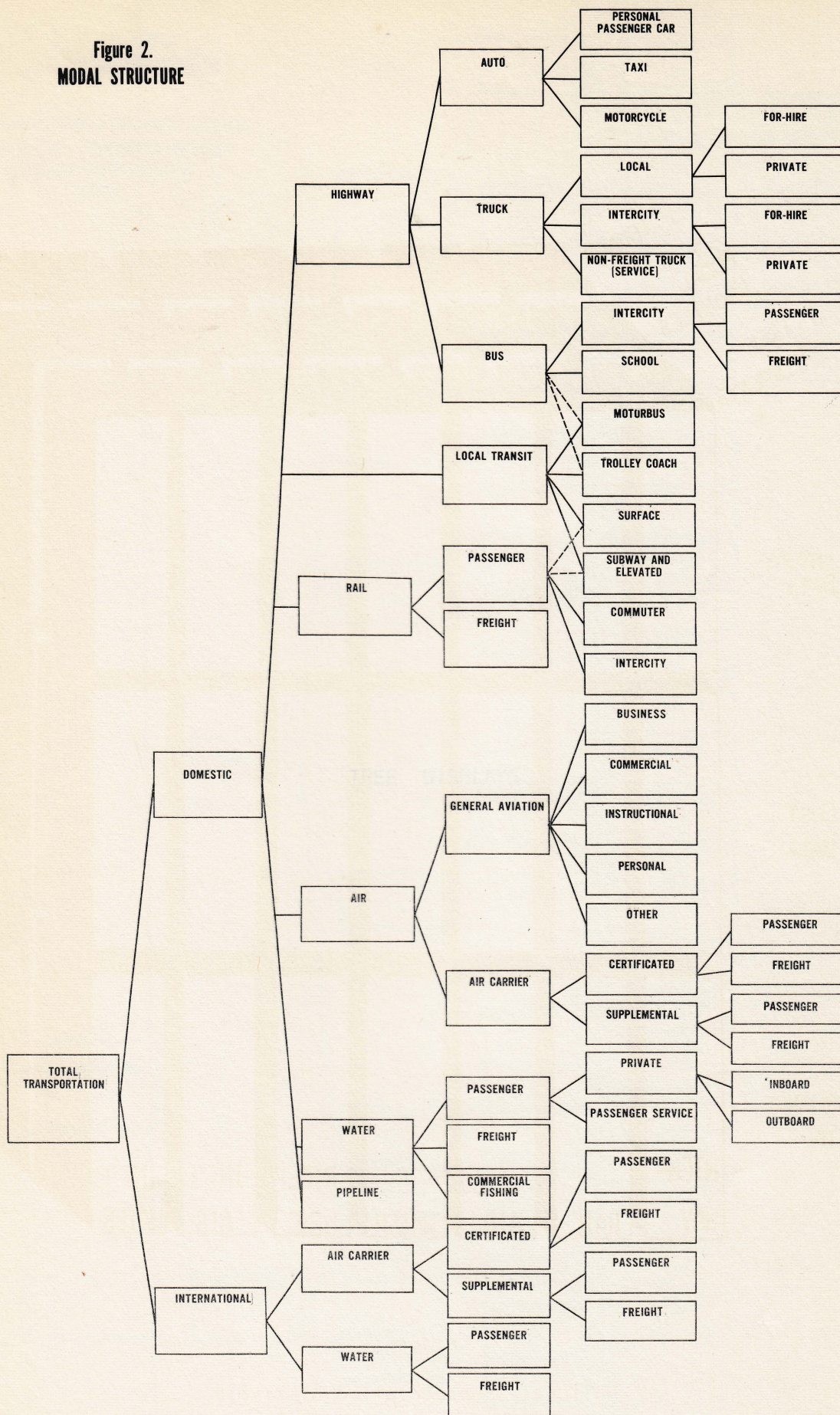


Figure 1

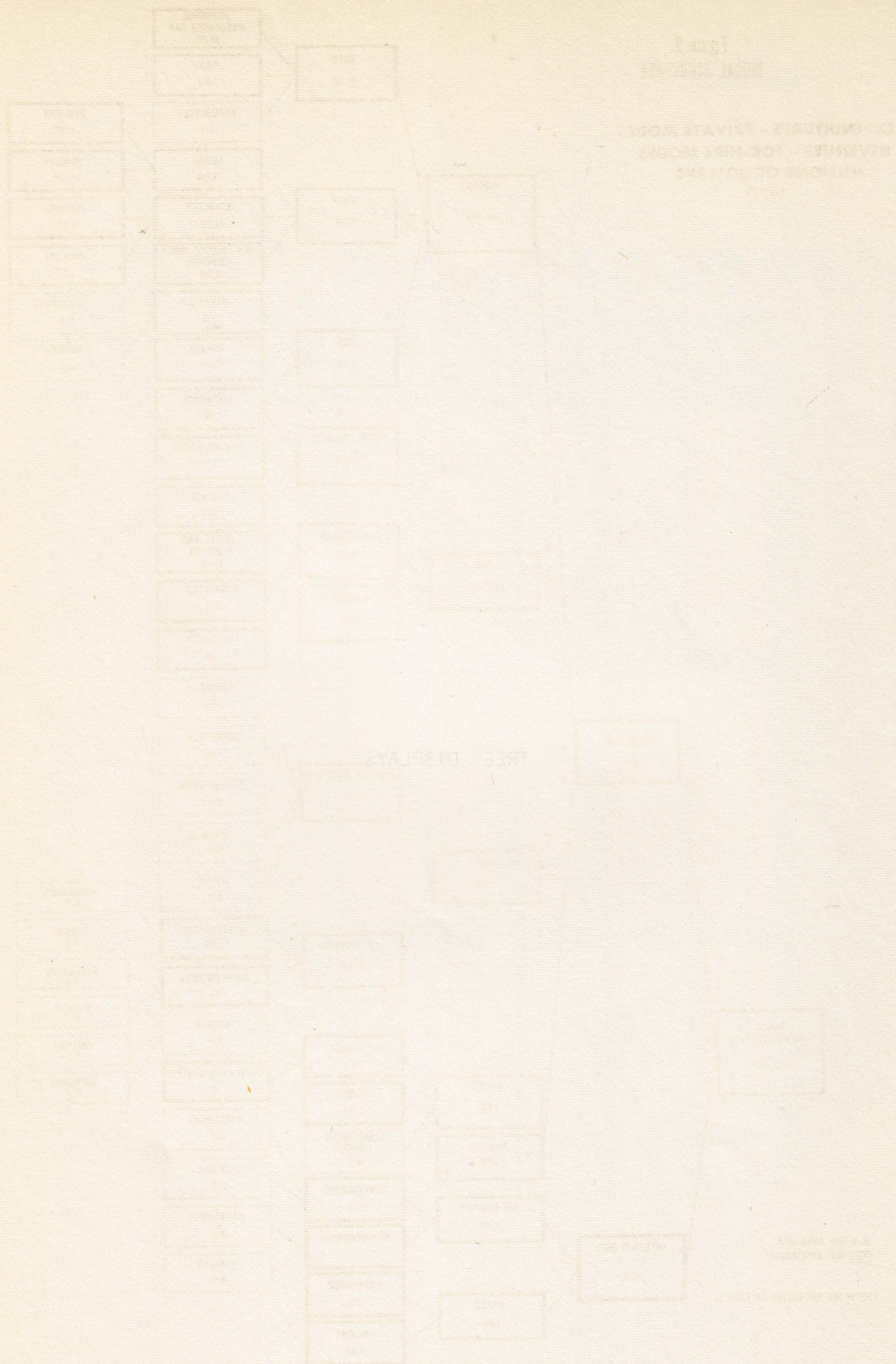
National Transportation Statistics
Organization of the Data

Figure 2.
MODAL STRUCTURE



EXPERIMENTAL - PRIVATE RECORD
RESEARCH - FOR THE RECORD
RESEARCH - FOR THE RECORD
RESEARCH - FOR THE RECORD

TREE DISPLAYS



**EXPENDITURES - PRIVATE MODES
REVENUES - FOR-HIRE MODES
MILLIONS OF DOLLARS
1970**

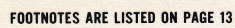


Figure 2.
MODAL STRUCTURE

VEHICLE-MILES
MILLIONS
1970

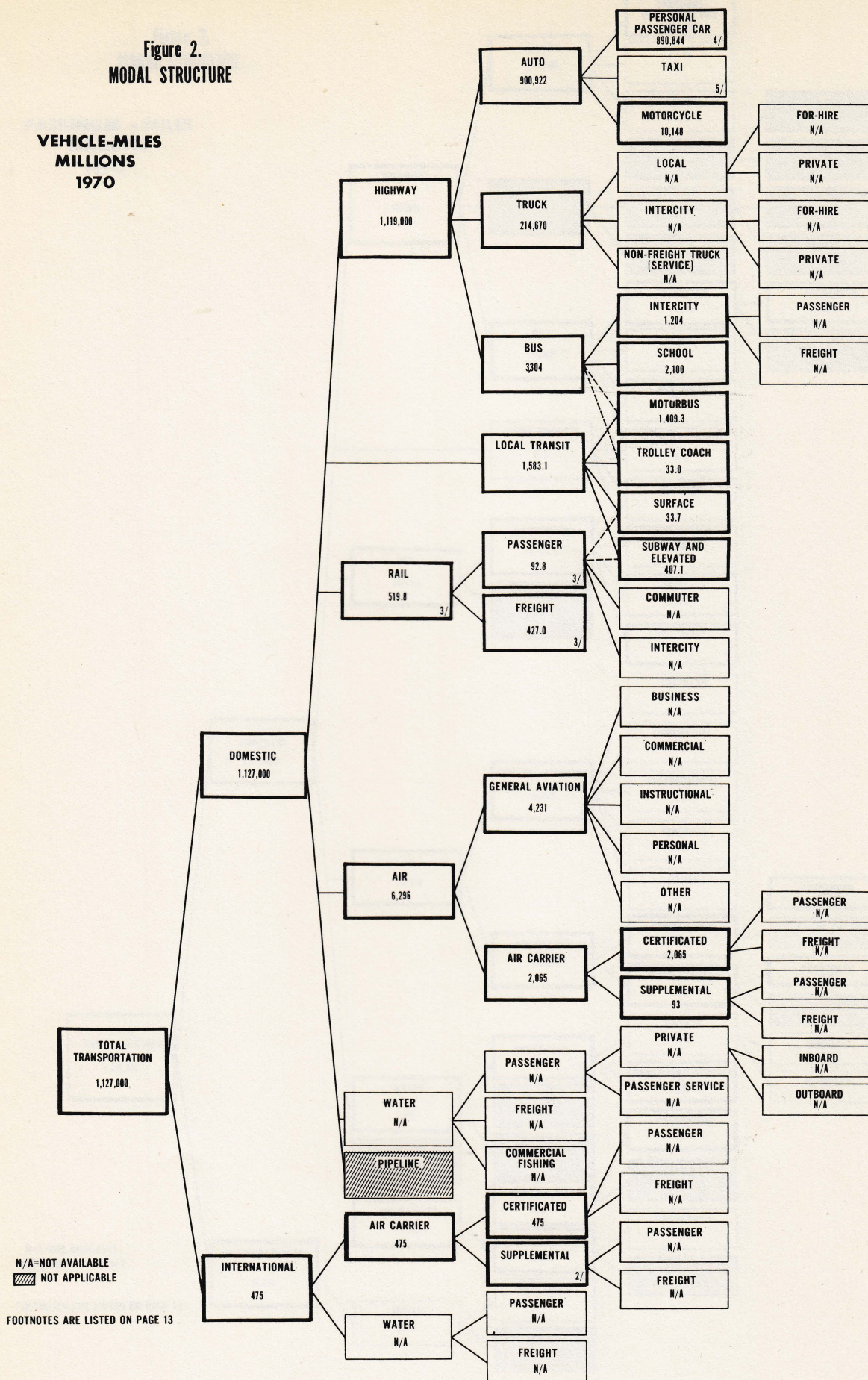
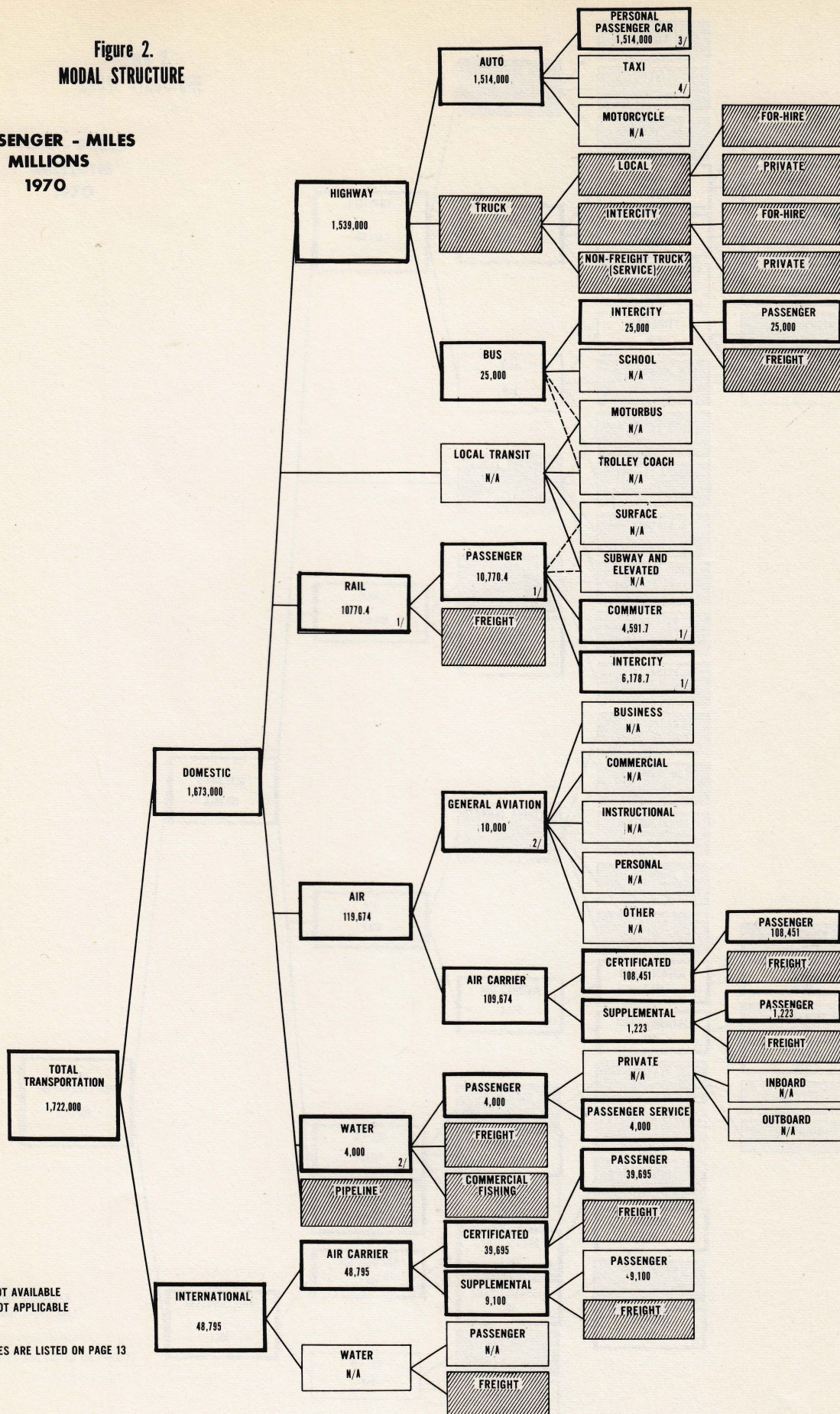


Figure 2.
MODAL STRUCTURE

PASSENGER - MILES
MILLIONS
1970

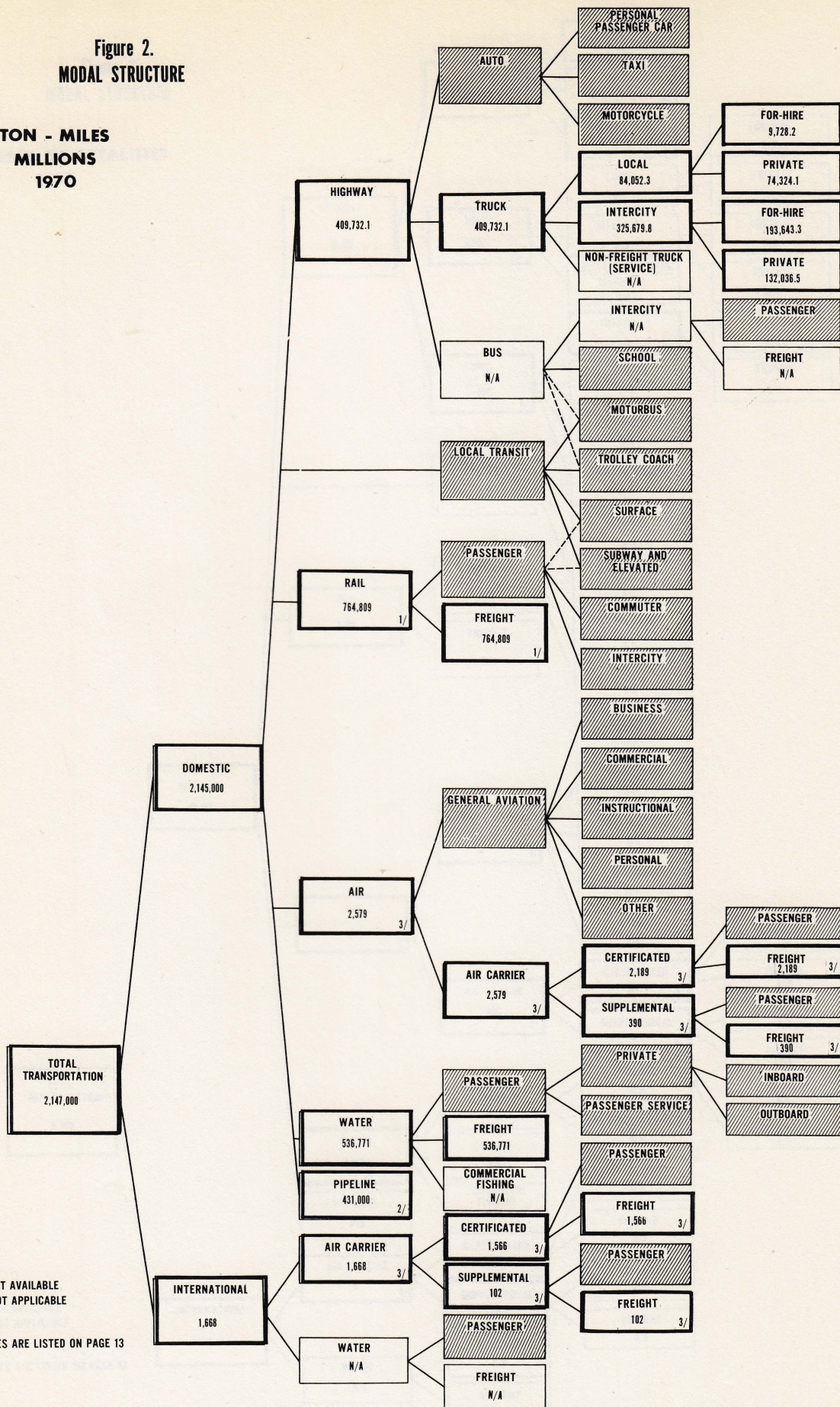


N/A=NOT AVAILABLE
[Hatched Box] NOT APPLICABLE

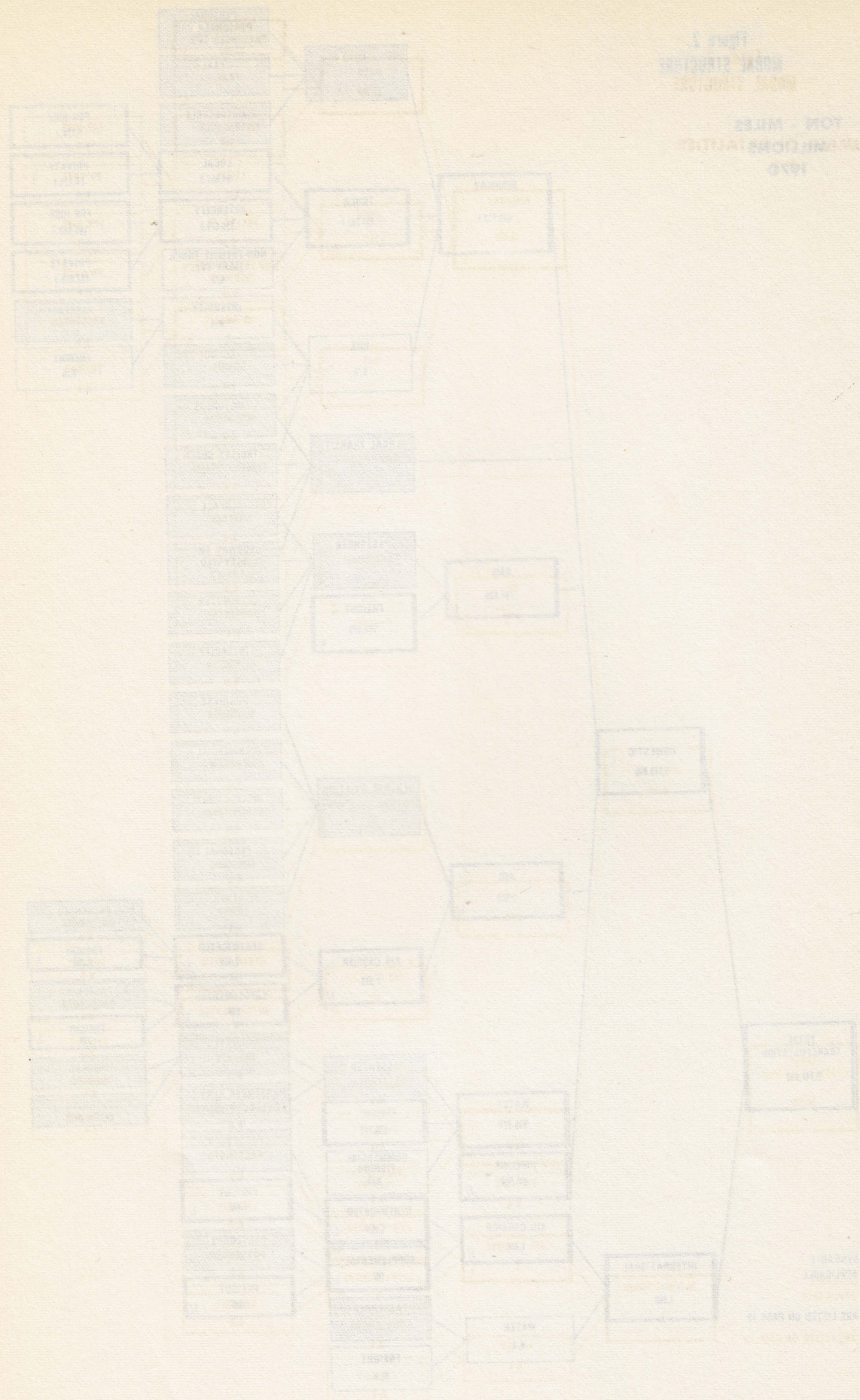
FOOTNOTES ARE LISTED ON PAGE 13

Figure 2.
MODAL STRUCTURE

TON - MILES
MILLIONS
1970



1930
 NUMBER OF STATIONS
 TON - MILES
 ROAD STRUCTURE
 Figure 1



1930
 1920
 1910
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Figure 2.
MODAL STRUCTURE

NUMBER OF FATALITIES
1969

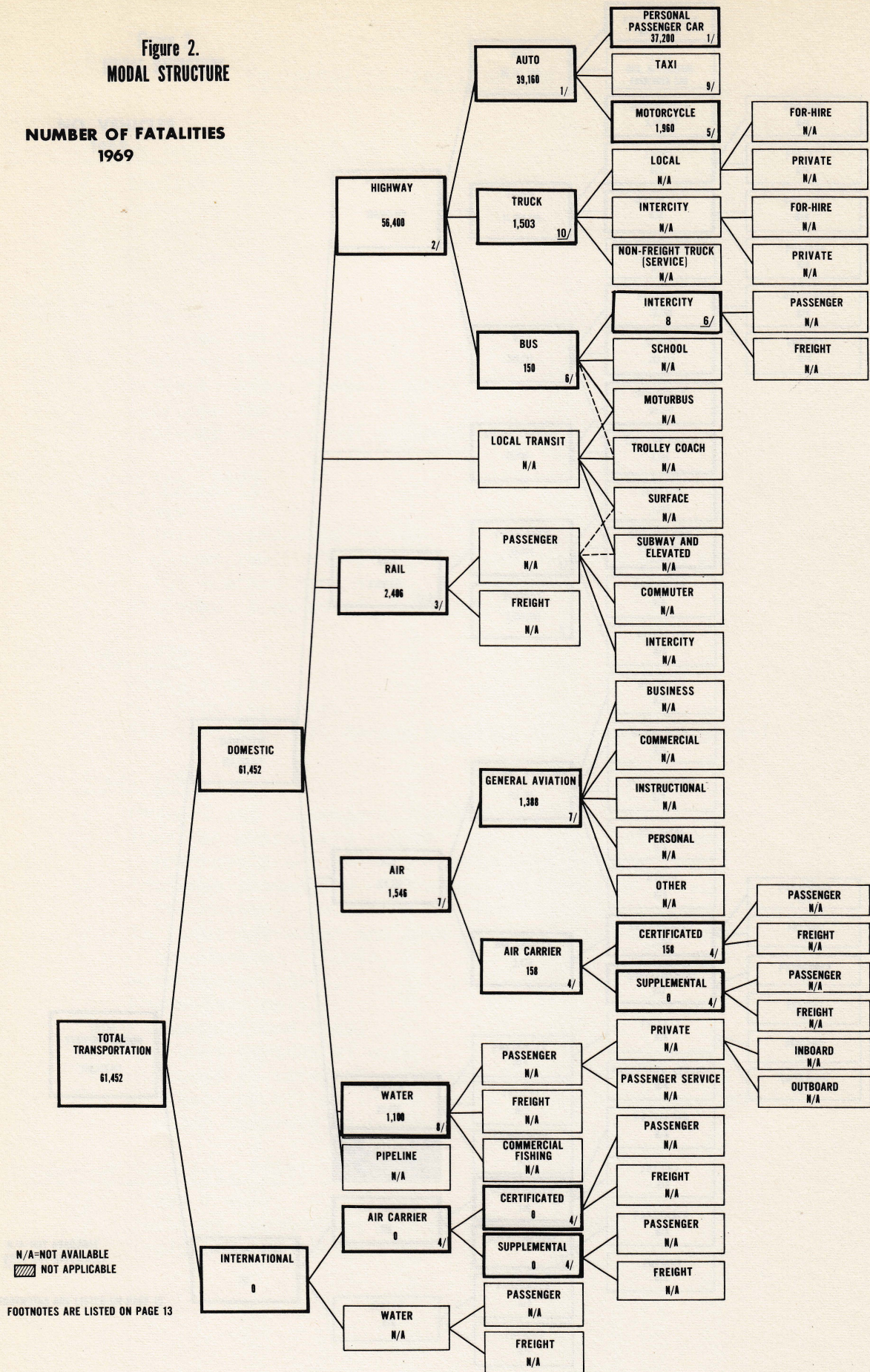
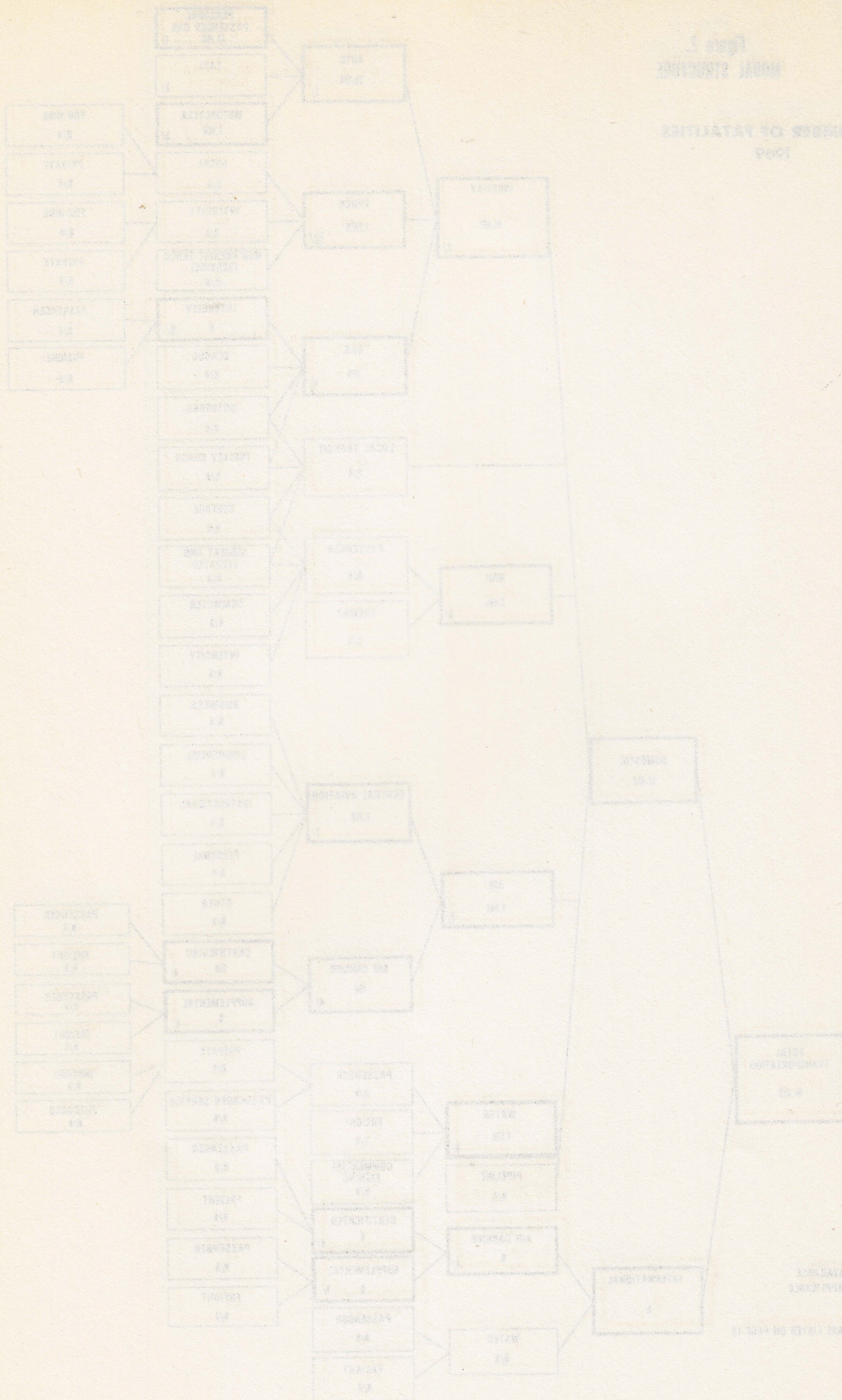


Figure 5
HUMAN STRUCTURE

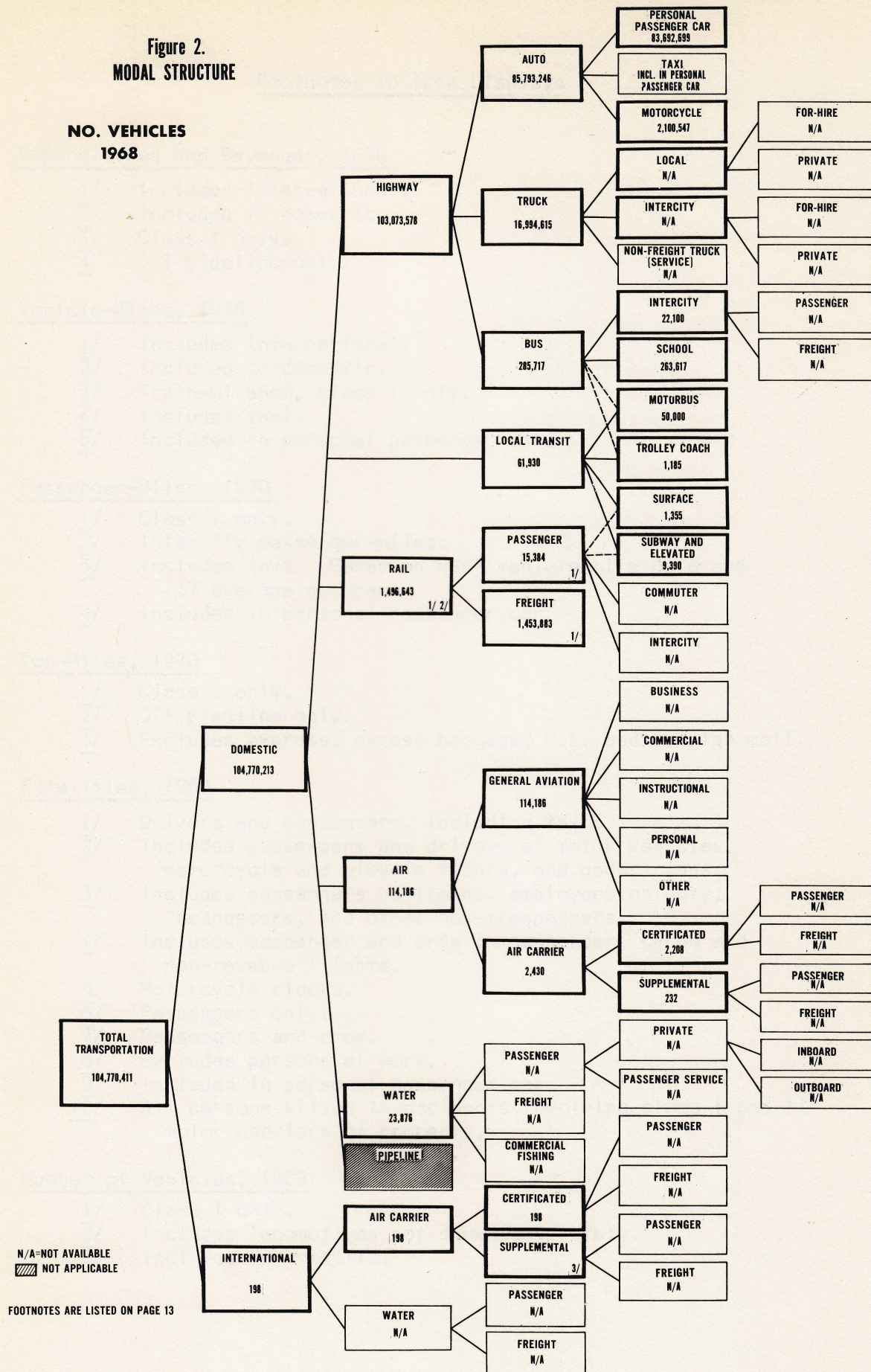
NUMBER OF PATIENTS
1000



ALL DATA FOR 1000
PATIENTS ARE LISTED ON PAGE 10

Figure 2.
MODAL STRUCTURE

NO. VEHICLES
1968



Footnotes To Tree Displays

Expenditures and Revenues, 1970

- 1/ Includes international.
- 2/ Included in domestic.
- 3/ Class I only.
- 4/ Oil pipeline only.

Vehicle-Miles, 1970

- 1/ Includes international.
- 2/ Included in domestic.
- 3/ Train-mileage, class I only.
- 4/ Includes taxi.
- 5/ Included in personal passenger car.

Passenger-Miles, 1970

- 1/ Class I only.
- 2/ Intercity passenger-miles.
- 3/ Includes taxi. Based on FHWA vehicle-mile data and 1.7 average occupancy.
- 4/ Included in personal passenger car.

Ton-Miles, 1970

- 1/ Class I only.
- 2/ Oil pipeline only.
- 3/ Excludes express, excess baggage, U.S. and foreign mail.

Fatalities, 1969

- 1/ Drivers and passengers, including taxi.
- 2/ Includes passengers and drivers of motor vehicles, motorcycle and bicycle riders, and pedestrians.
- 3/ Includes passengers on trains, employees on duty, trespassers, and other non-trespassers.
- 4/ Includes passenger and crew in passenger, cargo and non-revenue flights.
- 5/ Motorcycle riders.
- 6/ Passengers only.
- 7/ Passengers and crew.
- 8/ Excludes persons at work.
- 9/ Included in personal passenger car.
- 10/ All persons killed in accidents involving class I and II motor carriers of property.

Number of Vehicles, 1968

- 1/ Class I only.
- 2/ Includes locomotives not shown separately.
- 3/ Included in domestic.

MODAL PROFILES

Section 1 - 1/2 miles west of Fort Worth, Texas

1. The profile is a cross-section of the earth's crust, showing the various layers of rock and the faults that have formed in the past. The profile is a cross-section of the earth's crust, showing the various layers of rock and the faults that have formed in the past.

Section 2 - 1/2 miles west of Fort Worth, Texas

2. The profile is a cross-section of the earth's crust, showing the various layers of rock and the faults that have formed in the past. The profile is a cross-section of the earth's crust, showing the various layers of rock and the faults that have formed in the past.

Section 3 - 1/2 miles west of Fort Worth, Texas

3. The profile is a cross-section of the earth's crust, showing the various layers of rock and the faults that have formed in the past. The profile is a cross-section of the earth's crust, showing the various layers of rock and the faults that have formed in the past.

Section 4 - 1/2 miles west of Fort Worth, Texas

4. The profile is a cross-section of the earth's crust, showing the various layers of rock and the faults that have formed in the past. The profile is a cross-section of the earth's crust, showing the various layers of rock and the faults that have formed in the past.

AIR CARRIER PROFILE

I. COST

Overall Operating Transport Revenues (\$Millions), 1970

Domestic	
Certificated, all services	7,066.1
scheduled.	6,935.9
non-scheduled.	130.2
Supplemental <u>1/</u>	333.5
International	
Certificated, all services	2,079.4
scheduled.	1,795.7
non-scheduled.	283.7

Operating Costs (\$Millions), 1970

Domestic	
Certificated, all services	7,180.9
International	
Certificated, all services	2,065.6

II. INVENTORY

Number of Carriers, 1970

Domestic and international	
Certificated	39
Supplemental	14

Number of Aircraft Available for Service, 1968

Domestic and international	
Certificated, all services	2,406
Supplemental	232

Number of Employees, 1968

Domestic	
Certificated, all services	244,903
Supplemental <u>1/</u>	5,690
International	
Certificated, all services	49,224
Total.	299,817

1/ Includes international supplemental.

III. PERFORMANCE

Aircraft Revenue Miles (Millions), 1970

Domestic	
Certificated, all services	2,064.7
scheduled.	2,024.7
non-scheduled.	40.0
Supplemental ^{1/}	93.0
International	
Certificated, all services	474.7
scheduled.	390.6
non-scheduled.	84.0
Total.	2,415.3

Revenue Passenger-Miles (Millions), 1970

Domestic	
Certificated, all services	136,014.6
scheduled.	131,719.2
non-scheduled.	4,295.4
Supplemental	1,223.2
International	
Certificated, all services	39,695.4
scheduled.	27,563.0
non-scheduled.	12,132.2
Supplemental	9,100.0
Total.	175,710.0

Number Revenue Passenger Originations (Millions), 1968

Domestic	
Certificated, all services	135.9
scheduled.	134.5
non-scheduled.	1.4
Supplemental7
International	
Certificated, all services	18.4
scheduled.	15.8
non-scheduled.	2.6
Supplemental	2.0
Total.	156.9

Revenue Passenger Load Factor (%), 1970

Domestic and International	
Certificated	
scheduled.	49.7
Domestic	
Certificated	
scheduled.	48.9

^{1/} Includes international supplemental.

AIR CARRIER PROFILE (cont.)

Average Overall Airborne Speed (mph), 1968

Domestic	
Certificated	
scheduled.	369
International	
Certificated	
scheduled.	474

Total Number of Accidents, 1968

Domestic	
Certificated	
scheduled.	44
Domestic and International	
Certificated, all services	63
Supplemental	9

SOURCES :

Civil Aeronautics Board, Handbook of Airline Statistics, 1969.

_____, Air Carrier Traffic Statistics,
December, 1970.

_____, Air Carrier Financial Statistics,
December, 1970.

_____, Air Carrier Analytical Charts and
Supplemental Carrier Statistics, December, 1969.

GENERAL AVIATION PROFILE

I. COST

Expenditures (\$Millions), 1970

Total	2,182
-----------------	-------

II. INVENTORY

Number of Eligible Aircraft, 1970

Total	130,806
-----------------	---------

III. PERFORMANCE

Number of Miles Flown (Millions), 1968

Business	1,406.3
Commercial	666.1
Instructional	814.2
Personal	777.2
Other	37.0
Total	3,700.8

Number of Hours Flown (Millions), 1970

Business	7.1
Commercial	5.0
Instructional	7.0
Personal	6.1
Other3
Total	25.5

Number of Fatalities, 1969

Total	1,388
-----------------	-------

SOURCES:

Federal Aviation Administration, Statistical Handbook of Aviation, 1969.

Transportation Association of America, Transportation Facts and Trends, 1971.

National Safety Council, Accident Facts, 1970.

AUTOMOBILE PROFILE

I. COST

Expenditures (\$Millions), 1970

New and used cars	32,903
Tires, tubes, accessories	6,566
Gasoline and oil	26,896
Tolls	632
Insurance	3,726
Interest on debt	5,668
Auto registration fees	1,669
Operator's permit fees	221
Retail, greasing, washing, parking, storage, rental	10,202
Total	88,483

Revenues (\$Millions), 1970

Taxi	1,435
----------------	-------

II. INVENTORY

Number of Vehicle Registrations, 1970

Passenger cars and taxis	89,280,000
Motorcycle	2,815,000

Number of Employees, 1970

Taxi	111,300
----------------	---------

III. PERFORMANCE

Vehicle-Miles (Millions), 1970

Urban streets	494,543
Main rural roads	307,047
Local rural roads	99,402
Total travel	900,992

Vehicle-Miles (Millions), 1970

Motorcycle	10,148
Passenger car and taxi	890,844
Total	900,992

AUTOMOBILE PROFILE (cont.)

Passenger-Miles (Millions), 1970

Total travel	1/
passenger cars and taxi.	1,514,000

Average Speed (mph), Main Rural Roads, 1970 2/

Passenger cars.	61.0
-----------------	------

Number of Vehicles in All Accidents, 1969

Motorcycles	225,000
Passenger car	22,800,000
Taxi.	190,000

Number of Vehicles in Fatal Accidents, 1969

Motorcycle.	1,780
Passenger cars.	54,500
Taxi.	220

SOURCES:

Federal Highway Administration, Highway Statistics, 1970.

Transportation Association of America, Transportation Facts and Trends, 1971.

National Safety Council, Accident Facts, 1970.

1/ Based on vehicle-mile data from the Federal Highway Administration, Department of Transportation, and an average occupancy of 1.7.

2/ Speed of free-flowing traffic along level sections of highway.

BUS PROFILE

I. COST

Expenditures (\$Millions), 1970

School bus.	1,170
---------------------	-------

Operating Revenues (\$Millions), 1970

Intercity bus	902.4
-------------------------	-------

Operating Expenses (\$Millions), 1970

Intercity bus	814.1
-------------------------	-------

Taxes Assignable to Operations (\$Millions), 1970^{1/}

Intercity bus	74.0
-------------------------	------

II. INVENTORY

Number of Vehicles, 1970

Intercity bus	23,000
-------------------------	--------

Number of Employees of Operating Companies, 1970

Intercity bus	48,900
-------------------------	--------

Miles of Highway Served, 1970

Intercity	268,000
---------------------	---------

III. PERFORMANCE

Vehicle Miles (Millions), 1970

Commercial bus ^{2/}

urban streets.	1,810
main rural roads	939
local rural roads.	194
total travel	2,943

School and non-revenue bus

urban streets.	414
main rural roads	784
local rural roads.	902
total travel	2,100

^{1/} Excludes income taxes.

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

BUS PROFILE (cont.)

All buses

urban streets	2,224
main rural roads	1,723
local rural roads	1,096
total travel	5,043

Revenue Passenger Miles (Millions), 1970

Intercity bus	25,000
-------------------------	--------

Number of Revenue Passengers (Millions), 1970

Intercity bus	395
-------------------------	-----

Average Speed (mph), 1970

Commercial bus	
main rural roads ^{1/}	58.8

Number of Accidents, 1969

Intercity bus	1,521
-------------------------	-------

Number Passenger Fatalities, 1970

Intercity bus, class 1	4
----------------------------------	---

SOURCES:

National Association of Motorbus Owners, Bus Facts, 1970.

Federal Highway Administration, Highway Statistics, 1970.

Transportation Association of America, Transportation Facts and Trends, 1971.

^{1/}Speed of free-flowing traffic along level sections of highway.

TRUCK PROFILE

I. COST

Expenditures (\$Millions), 1970

Intercity private truck	7,468.9
Local private truck	13,545.0
Non-freight private truck	31,800.0

Revenues (\$Millions), 1970

Local for-hire.	5,793.5
Intercity for-hire.	12,360.1

II. INVENTORY

Total Number of Trucks, 1970 18,748,000

Number of Employees, 1968

Truck drivers and deliverymen	1,648,000
Service, trucking and warehousing	1,046,000

III. PERFORMANCE

Vehicle-Miles (Millions), 1970

Urban streets	80,606
Main rural roads.	103,823
Local rural roads	30,241
Total travel.	214,670

Ton-Miles (Millions), 1970

Local	
for-hire	9,728.1
private.	74,324.1
Intercity	
for-hire	193,643.3
private.	132,036.5

Average Length of Haul (Statute Mileage), 1969

Intercity	261
---------------------	-----

Average Speed (mph), Main Rural Roads, 1970^{1/}

All trucks.	55.0
---------------------	------

^{1/}Speed of free-flowing traffic along level sections of highway.

TRUCK PROFILE (cont.)

Number of Accidents, 1968

Government.	180,029
Intercity	
for-hire	45,977
private.	9,829
Local	
for-hire	562,387
private.	24,397

SOURCES:

Jack Faucett Associates, Transportation Projections: 1970 and 1980, 1971.

Federal Highway Administration, Highway Statistics, 1970.

Transportation Association of America, Transportation Facts and Trends, 1971.

HIGHWAY PROFILE

I. COST

Government Expenditures (\$Millions), 1970

Federal	5,197
State and Local	14,579

II. INVENTORY

Rural Mileage, 1970

Under State Control	
State Primary System	408,262
State Secondary Roads	272,700
Other State Roads	26,040
Total	707,002
Under Local Control	
County Roads	1,732,981
Town and Township Roads	510,174
Other Local Roads	31,559
Total	2,274,714
Under Federal Control	187,696
Total Rural Roads	3,169,412

Municipal Mileage, 1970

Under State Control	
Extensions of State Primary System	57,262
Extensions of State Secondary Roads	16,841
Total	74,103
Under Local Control	
Local City Streets	486,567
Total Municipal Mileage	560,670

Total Rural and Municipal Mileage, 1970..... 3,730,082

SOURCES:

Federal Highway Administration, Highway Statistics, 1970.

LOCAL TRANSIT PROFILE

I. COST

Passenger Revenue (\$Million), 1970

Motorbus.	1,193.6
Subway and elevated	368.5
Surface rail.	46.6
Trolley coach	30.4
Total	1,639.1

Operating Revenue (\$Million), 1970

Motorbus.	1,236.3
Subway and elevated	384.4
Surface rail.	55.2
Trolley coach	31.5
Total	1,707.4

Taxes (\$Million), 1970

Total	103.9
-----------------	-------

II. INVENTORY

Number of Companies, 1970

Electric railways ^{1/}	15
Motorbus.	1,075
Trolley coach	6

Number of Vehicles, 1970

Motorbus.	49,700
Subway and elevated	9,338
Surface rail.	1,262
Trolley coach	1,050
Total	61,350

Number of Employees, 1970

Motorbus and surface and trolley coach.	101,598
Subway and elevated	36,442

Line Mileage, 1970

Motorbus.	52,176
Subway and elevated	419
Surface rail.	366
Trolley coach	287
Total	53,248

^{1/} Includes surface rail and subway and elevated.

LOCAL TRANSIT PROFILE (cont.)

III. PERFORMANCE

Revenue Vehicle Miles (Million), 1970

Motorbus	1,409.3
Subway and elevated	407.1
Surface rail	33.7
Trolley coach	33.0
Total	1,883.1

Revenue Passengers Carried (Million)

Motorbus	4,158.3
Subway and elevated	1,573.5
Surface rail	172.4
Trolley coach	127.5
Total	5,931.7

SOURCES:

American Transit Association, Transit Fact Book, 1971.

OIL PIPELINE PROFILE

I. COST

<u>Revenue (\$Million), 1970</u>	1,398
<u>Total Taxes (\$Million), 1969</u>	73.9

II. INVENTORY

<u>Number of Companies, 1969</u>	99
<u>Number of Employees, 1969</u>	15,679
<u>Statute Mileage, 1967</u>	209,478

III. PERFORMANCE

<u>Ton Miles (Millions), 1970</u>	431,000
<u>Average Length of Haul, 1969</u>	
Crude oil miles	297
Product only miles.	366

SOURCES:

Interstate Commerce Commission, Transport Statistics, 1969

Transportation Association of America, Transportation Facts and Trends, 1971.

RAIL PROFILE

I. COST

Freight Revenue (\$Million), 1970

Class I freight	10,914.2
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Passenger Revenue (\$Million), 1970

Class I commutation	172.3
Class I other passenger	248.1

II. INVENTORY

Number of Vehicles, 1970

Class I freight-carrying cars	1,423,573
Class I passenger and pullman cars	11,177
Class I locomotives	27,086

Number of Companies, 1970

Class I total	71
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Number of Employees, 1970

Class I total	566,282
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Line Mileage, 1970

All line haul railroads	206,400
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Miles of Road Operated, 1968

Class I total	210,593
Class II total	10,973

Miles of Track Operated, 1968

Switching and terminal	7,352
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III. PERFORMANCE

Car Mileage (Millions), 1970

Class I freight	30,325.9
Class I passenger	596.5

Train Mileage (Millions), 1970

Class I freight	92.8
Class I passenger	427.1

RAIL PROFILE (cont.)

Locomotive Mileage (Millions), 1970

Class I freight	1,278.2
Class I passenger	143.1
Class I total	1,421.3

Revenue Passengers Carried (Millions), 1970

Class I commutation	206.1
Class I other passenger	77.9

Revenue Passenger Miles (Millions), 1970

Class I commutation	4,591.7
Class I other passenger	6,178.7

Average Passenger Trip Length (Miles), 1970

Class I commutation	22.3
Class I other passenger	79.3

Revenue Ton Miles (Millions), 1970

Class I freight	764,809.0
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Average Haul (Miles), 1970

Class I freight	292.3
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Train Hours (Millions), 1969

Class I freight	21.6
Class I passenger	2.6
Total	24.2

Average Speed (mph), 1969

Freight	20.1
Passenger	41.0

Number of Deaths, Passenger and Crew, 1969

Total	208
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SOURCES:

Association of American Railroads, Statistics of Railroads of Class I, 1971.

Association of American Railroads, Yearbook of Railroad Facts, 1971.

WATER TRANSPORT PROFILE

I. COST

Revenues (\$Millions), 1970

Domestic freight.	1,763
coastal, intercoastal.	713
inland waterways	442
Great Lakes.	232
locks, channels, etc..	376
International freight	4,380
Domestic passenger	
intercity. ^{1/}	13
International passenger—	275

Government Expenditures (\$Millions), 1970

Federal expenditures	
Coast Guard.	588
merchant marine.	326
total waterways.	361
inland and intracoastal waterways.	193
State and local expenditures	
Coast Guard.	0
merchant marine.	0
total waterways.	480

II. INVENTORY

Number of Vessels, 1970

Total nonself-propelled	19,171
Nonself-propelled dry cargo barges and scows	15,890
Nonself-propelled tank barges	3,281
Self-propelled towboats and tugs	4,248

Number of Employees, 1968

Ship and boat building and repair	181,000
Transportation service	239,000

Mileage of Commercially Navigable Inland Channels, 1970 25,543

^{1/} Revenues paid by American travellers to U.S. and foreign flag carriers.

WATER TRANSPORT PROFILE (cont.)

III. PERFORMANCE

Passenger Miles, Intercity (Millions), 1970 4,000

Ton-Miles (Millions), 1969

Domestic water freight

coastwise	300,948
internal	144,026
lakewise	82,583
local	1,340
total	528,897

Tons of Freight Hauled (Millions), 1969

Domestic water

coastwise	217
internal	461
lakewise	161
local	87
total	926

Exports

Great Lakes ports	32
coastal ports	169
total	201

Imports

Great Lakes	24
coastal ports	296
total	320

Cargo Capacity (Net Tons), 1970

Total nonself-propelled vessels	24,028,024
Dry cargo barges and scows	17,695,275
Tank barges	6,332,749

Horsepower, 1970

Towboats and tugs	3,858,563
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SOURCES:

American Waterways Operators, Inland Waterborne Commerce Statistics, 1970.

U.S. Army Corps of Engineers, Waterborne Commerce Statistics of the United States, 1970.

Transportation Association of America, Transportation Facts and Trends, 1971.

Association of American Railroads, Government Expenditures for Transport Facilities, 1971.

TRANSPORTATION TRENDS

Table 1

TRENDS: REVENUES AND EXPENDITURES
(millions of dollars)

MODE	UNIT OF MEASURE	1962	1964	1966	1968	1970
Air Carrier	transport revenues	3436	4243	5837	7961	9478
Domestic						
Certificated	transport revenues	2495	3071	4071	5593	7066
Scheduled	transport revenues	2399	2995	3925	5442	6936
Non-Scheduled	transport revenues	95	77	146	151	130
^{1/} Supplemental	transport revenues	103	105	205	314	333
International						
Certificated	transport revenues	838	1067	1561	2054	2079
Scheduled	transport revenues	770	991	1425	1689	1796
Non-Scheduled	transport revenues	68	76	236	365	283
General Aviation	expenditures	1016	1230	1737	2044	2182
Automobile	expenditures	53152	59914	67566	79173	88483
Taxi	revenues	828	835	904	1302	1435

^{1/} Includes international supplemental air carrier transport revenues.

Sources: CAB, Handbook of Airline Statistics, 1969; CAB, Air Carrier Financial Statistics, December, 1970; TAA, Transportation Facts and Trends, 1971.

Table 1 - TRENDS: REVENUES AND EXPENDITURES (contd.)
(millions of dollars)

MODE	UNIT OF MEASURE	1962	1964	1966	1968	1970
Local Transit	operating revenues	1403.5	1480.1	1478.5	1562.7	1707.4
Surface Rail	operating revenues	73.3	55.6	58.7	53.1	55.2
Subway & Elevated	operating revenues	293.0	295.5	306.5	358.2	384.4
Motorbus	operating revenues	961.2	1010.3	1074.1	1115.5	1236.3
Trolley Coach	operating revenues	76.0	46.4	39.2	35.9	31.5
Local Transit	passenger revenues	1330.2	1326.0	1385.4	1470.2	1639.1
Surface Rail	passenger revenues	66.3	48.3	51.8	44.0	46.6
Subway & Elevated	passenger revenues	280.1	282.3	297.0	341.7	368.5
Motorbus	passenger revenues	910.1	950.4	998.1	1049.7	1193.6
Trolley Coach	passenger revenues	73.7	45.0	38.5	34.8	30.4
Bus						
Intercity	operating revenues	n/a	n/a	740	798	902
School	expenditures	576	674	787	978	1170

Sources: ATA, Transit Fact Book, 1971; NAMBO, Bus Facts, 1970; TAA, Transportation Facts and Trends, 1971.

Table 1 - TRENDS: REVENUES AND EXPENDITURES (contd.)
(millions of dollars)

MODE	UNIT OF MEASURE	1962	1964	1966	1968	1970
Class I Rail	revenues	8611	9033	9824	10194	11334
Passenger	revenues	619	577	544	444	420
Commutation	revenues	127	134	140	153	172
Other Passenger	revenues	492	443	404	291	248
Freight	revenues	7992	8455	9280	9750	10914
Oil Pipeline	revenues	939	1013	1096	1205	1398
Water	revenues	3658	3867	5032	5568	6431
Domestic	revenues	1553	1614	1719	1716	1776
Passenger	revenues	16	13	11	11	13
Freight	revenues	1537	1601	1708	1759	1763
International	revenues	2105	2553	3313	3852	4655
Passenger	revenues	267	339	315	245	275
Freight	revenues	1838	2214	2998	3607	4380

Sources: AAR, Statistics of Class I Railroads, 1971; TAA, Transportation Facts and Trends, 1971.

Table 2

TRENDS: GOVERNMENT EXPENDITURES FOR TRANSPORT FACILITIES
(millions of dollars)

ITEM	1962	1964	1966	1968	1970
Airways					
Federal Expenditures	573.5	669.8	721.7	787.6	1192.4
State and Local Expenditures	0	0	0	0	0
Airports					
Federal Expenditures	57.1	82.4	85.5	77.7	65.1
Grants in Aid	46.4	71.6	74.9	85.8	50.5
Administration and Research	10.7	10.8	10.6	11.9	14.6
State and Local Expenditures	371	359	424	516	775
Domestic Air Carrier					
Federal Cash Subsidy	79.9	82.3	69.9	55.2	39.7
State and Local Cash Subsidy	0	0	0	0	0

Sources: Annual Budgets of the U.S. Governments; Bureau of the Census, Governmental Finances.

Table 2 - TRENDS: GOVERNMENT EXPENDITURES FOR TRANSPORT FACILITIES (contd.)
(millions of dollars)

ITEM	1962	1964	1966	1968	1970
Water					
Waterways					
Federal Expenditures	309.3	333.4	409.9	391.5	360.7
Inland and Intracoastal Waterways	165.5	178.3	219.9	209.5	193.0
Other Waterways	143.8	155.1	190.0	182.0	167.7
State and Local Expenditures	282	291	318	407	480
Coast Guard					
Federal Expenditures	284	350	405	545	588
State and Local Expenditures	0	0	0	0	0
Merchant Marine					
Federal Expenditures	358	307	303	314	326
State and Local Expenditures	0	0	0	0	0
Highways					
Federal Expenditures	3173	4278	4610	4822	5197
State and Local Expenditures	9129	9459	11088	13161	14579

Sources: Annual Budgets of the U.S. Government; Bureau of the Census, Governmental Finances; FHWA, Highway Statistics.

Table 3

TRENDS: VEHICLE MILES
(millions)

MODE	UNIT OF MEASURE	1962	1964	1966	1968	1970
Air Carrier	^{1/} aircraft revenue miles	n/a	n/a	n/a	2434	2633
Domestic						
Certificated	^{1/} aircraft revenue miles	877	998	1236	1778	2065
Scheduled	^{1/} aircraft revenue miles	833	968	1189	1727	2024
Non-Scheduled	^{1/} aircraft revenue miles	44	30	47	51	40
^{2/} Supplemental	^{1/} aircraft revenue miles	n/a	n/a	n/a	114	93
International						
Certificated	^{1/} aircraft revenue miles	197	241	366	542	475
Scheduled	^{1/} aircraft revenue miles	176	221	293	418	391
Non-Scheduled	^{1/} aircraft revenue miles	21	20	73	123	84
General Aviation	number of miles flown	1965	2181	3336	3700	^{3/} 4231

^{1/}Includes first class, coach, economy, mixed class and cargo services.

^{2/}Includes aircraft revenue miles of international supplemental air carriers.

^{3/}Estimated by the Office of Systems Analysis and Information, Department of Transportation.

Sources: CAB, Handbook of Airline Statistics, 1969; CAB, Air Carrier Traffic Statistics, December, 1970; FAA, Statistical Handbook of Aviation, 1969.

Table 3 - TRENDS: VEHICLE MILES (contd.)
(millions)

MODE	UNIT OF MEASURE	1962	1964	1966	1968	1970
Class I Rail	train mileage	586.5	598.0	601.7	551.8	519.8
Passenger	train mileage	193.2	183.5	164.2	122.6	92.8
Freight	train mileage	393.3	414.5	437.5	429.2	427.0
Local Transit	$\frac{1}{2}$ revenue vehicle miles	2047.4	2015.8	1983.6	1988.7	1883.1
Surface Rail	$\frac{1}{2}$ revenue vehicle miles	61.5	42.9	42.9	37.5	33.7
Subway & Elevated	$\frac{1}{2}$ revenue vehicle miles	386.7	395.8	378.9	406.8	407.1
Motorbus	$\frac{1}{2}$ revenue vehicle miles	1515.2	1527.9	1521.7	1508.2	1409.3
Trolley Coach	$\frac{1}{2}$ revenue vehicle miles	84.0	49.2	40.1	36.2	33.0

$\frac{1}{2}$ Passenger car-miles.

Sources: AAR, Statistics of Class I Railroads, 1971; ATA, Transit Fact Book, 1971.

Table 3 - TRENDS: VEHICLE MILES (contd.)
(millions)

MODE	UNIT OF MEASURE	1962	1964	1966	1968	1970
Automobile	vehicle miles	629097	677613	751740	814030	900992
Passenger & Taxi	vehicle miles	n/a	n/a	744844	805693	890844
Motorcycle	vehicle miles	n/a	n/a	6896	8337	10148
Truck	vehicle miles	133289	164271	173905	196651	214670
Bus						
Intercity	bus miles	n/a	n/a	1200	1190	1204
School & Other Private	vehicle miles	1610	1724	1844	1937	2100

Sources: FHWA, Highway Statistics; NAMBO, Bus Facts, 1970.

Table 4

TRENDS: PASSENGER MILES
(millions)

MODE	UNIT OF MEASURE	1962	1964	1966	1968	1970
Air Carrier	revenue passenger miles	n/a	n/a	n/a	138923	158466
Domestic						
Certificated	revenue passenger miles	34298	45046	63085	92112	108451
Scheduled	revenue passenger miles	33623	44141	60591	87508	104156
Non-Scheduled	revenue passenger miles	675	905	2494	4604	4295
^{1/} Supplemental	revenue passenger miles	n/a	n/a	n/a	8886	10320
International						
Certificated	revenue passenger miles	11972	16753	25057	37926	39695
Scheduled	revenue passenger miles	1018	14352	19298	26451	27563
Non-Scheduled	revenue passenger miles	1834	2400	5759	11475	12132
General Aviation	intercity passenger miles	2700	3700	5700	8200	10000

^{1/} Includes revenue passenger miles of international supplemental air carriers.

Sources: CAB, Handbook of Airline Statistics, 1969; CAB, Air Carrier Traffic Statistics, December, 1970; TAA, Transportation Facts and Trends, 1971.

Table 4 - TRENDS: PASSENGER MILES (contd.)
(millions)

MODE	UNIT OF MEASURE	1962	1964	1966	1968	1970
Automobile						
Passenger & Taxi	^{1/} passenger miles	n/a	n/a	1266000	1369000	1514000
Intercity Bus	revenue passenger miles	21800	23300	24600	24500	25000
Class I Rail	revenue passenger miles	19905.2	18247.6	17095.4	13120.0	10770.4
Commutation	revenue passenger miles	4046.3	4199.1	4192.7	4382.9	4591.7
Other Passenger	revenue passenger miles	15858.9	14048.5	12902.7	8737.1	6178.7
Domestic Water	intercity passenger miles	2700	2800	3400	3500	4000

^{1/} Based on vehicle-mile data from the Federal Highway Administration, Department of Transportation, and a constant average occupancy of 1.7.

Sources: NAMBO, Bus Facts, 1970; AAR, Statistics of Class I Railroads, 1971; TAA, Transportation Facts and Trends, 1971.

Table 5

TRENDS: TON MILES OF FREIGHT
(millions)

MODE	UNIT OF MEASURE	1962	1964	1966	1968	1970
Air Carrier	^{1/} revenue ton miles	1533	1823	3195	4263	4247
Domestic						
Certificated	^{1/} revenue ton miles	919	1025	1413	1918	2189
Scheduled	^{1/} revenue ton miles	568	816	1024	1671	2110
Non-Scheduled	^{1/} revenue ton miles	351	209	389	247	79
^{2/} Supplemental	^{1/} revenue ton miles	215	268	425	494	492
International						
Certificated	^{1/} revenue ton miles	399	530	1357	1850	1566
Scheduled	^{1/} revenue ton miles	330	485	847	1134	1298
Non-Scheduled	^{1/} revenue ton miles	69	45	510	716	268
Class I Rail	revenue ton miles	592862	658639	738395	744023	764809

^{1/} Excludes express, U.S. and foreign mail, and excess baggage.^{2/} Includes revenue ton miles of international supplemental air carriers.Sources: CAB, Handbook of Airline Statistics, 1969; CAB, Air Carrier Traffic Statistics, December, 1970; AAR, Statistics of Class I Railroads, 1971.

Table 5 - TRENDS: TON MILES OF FREIGHT (contd.)
(millions)

MODE	UNIT OF MEASURE	<u>1/</u> 1958	<u>1/</u> 1965	1966	1968	<u>1/</u> 1970
Truck						
Local	ton miles	41869	71806.8	n/a	n/a	84052.3
For-Hire	ton miles	5491	7887.2	n/a	n/a	9728.2
Private	ton miles	36378	63919.6	n/a	n/a	74324.1
Intercity	ton miles	177903	264832.6	n/a	n/a	325679.8
For-Hire	ton miles	96288	154045.5	n/a	n/a	193643.3
Private	ton miles	81615	110787.1	n/a	n/a	132036.5
Domestic Water	ton miles	n/a	489803	507084	520633	<u>2/</u> 536711
Oil Pipeline	ton miles	211000	306000	333000	391000	431000

1/ Truck ton-miles available for 1958, 1965, and 1970 only.

2/ Estimated by the Office of Systems Analysis and Information, Department of Transportation.

Sources: Jack Faucett Associates, Transportation Projections, 1970 and 1980; U.S. Army Corps of Engineers, Waterborne Commerce Statistics of the United States; TAA, Transportation Facts and Trends, 1971.

Table 6
TRENDS: AVERAGE SPEED
(miles per hour)

MODE	UNIT OF MEASURE	1962	1964	1966	1968	1970
Highway						
Trucks	¹ /average speed main rural roads	49.4	51.0	52.6	54.0	55.0
Commercial Bus	¹ /average speed main rural roads	56.0	57.8	58.8	60.5	58.8
Passenger Cars	¹ /average speed main rural roads	55.1	57.3	58.8	60.4	61.0
Air Carrier						
Domestic Air Carrier Sch. Cert.	average overall airborne speed	274	296	330	369	² / <u>395</u>
International Air Carrier Sch. Cert.	average overall airborne speed	389	435	465	474	² / <u>560</u>
Rail						
Passenger Trains	average speed	40.9	41.4	41.3	41.0	² / <u>41</u>
Freight Trains	average speed	20.0	20.2	20.3	20.4	² / <u>21</u>

¹/Speed of free-flowing traffic along level sections of highways.

²/Estimated by the Office of Systems Analysis and Information, Department of Transportation.

Sources: FHWA, Highway Statistics; CAB, Handbook of Airline Statistics, 1969; AAR, Statistics of Class I Railroads, 1971.

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APPENDIX A

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APPENDIX B

APPENDIX B

Modal Index to the Data Base

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MODAL INDEX TO DATA BASE

This section contains a modal index of each mode by subgroup rather than by data item. In other words, instead of listing air carrier by data items such as accident data, average speed, number of companies etc., it lists the data alphabetically by type of air carrier (plus general aviation) and the pages where this data may be found.

Therefore the breakdown for air carrier is:

- Domestic, Certificated, All Services
- Domestic, Certificated, Non-Scheduled
- Domestic, Certificated, Scheduled
- Domestic and International, Certificated, All Services
- Domestic and International, All Services
- Domestic and International, Supplemental
- Domestic, Supplemental
- International, Certificated, All Services
- International, Certificated, Non-Scheduled
- International, Certificated, Scheduled
- International, Supplemental
- Total

The other modes are divided in similar fashion. The purpose of this section was to enable one to efficiently locate all data for modal sub-categories.

MODAL INDEX TO DATA BASE

Air Carrier

Airlines, Domestic AC-21, AC-22

Airports AC-17, AC-18, AC-19, AC-20

Airways AC-15, AC-16

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Domestic, Certificated, Non-scheduled AC-4, AC-39, AC-48, AC-57, AC-66, AC-73, AC-91

Domestic, Certificated, Scheduled AC-3, AC-38, AC-47, AC-56, AC-65, AC-72, AC-76, AC-80, AC-87, AC-90, AC-98, AC-103

Domestic and International, Certificated, All Services AC-102

Domestic and International, Supplemental AC-5, AC-14, AC-27, AC-31, AC-35, AC-100, AC-104

Domestic, Supplemental AC-40, AC-49, AC-58, AC-67, AC-82, AC-92

International, Certificated, All Services AC-6, AC-10, AC-13, AC-26, AC-30, AC-34, AC-41, AC-50, AC-59, AC-68, AC-83, AC-93

International, Certificated, Non-scheduled AC-8, AC-43, AC-52, AC-61, AC-70, AC-75, AC-81, AC-85, AC-95

International, Certificated, Scheduled AC-7, AC-42, AC-51, AC-60, AC-69, AC-74, AC-77, AC-84, AC-88, AC-94

International, Supplemental AC-44, AC-53, AC-62, AC-71, AC-86, AC-96

Total AC-1, AC-11, AC-23, AC-24, AC-28, AC-32, AC-36, AC-45, AC-54, AC-63, AC-78, AC-97, AC-101

General Aviation

Business GA-4, GA-10

Commercial GA-5, GA-11

Instructional GA-6, GA-12

Other GA-8, GA-14

Personal GA-7, GA-13

Total GA-1, GA-2, GA-3, GA-9, GA-15, GA-16, GA-17, GA-18

Automobile

Motorcycle AU-13, AU-20, AU-27, AU-28
Passenger Cars AU-22, AU-23, AU-24
Passenger Cars and Taxi AU-14, AU-19, AU-21
Taxi AU-1, AU-12, AU-25, AU-26
Total AU-2, AU-3, AU-4, AU-5, AU-6, AU-7, AU-8, AU-9, AU-10, AU-11,
AU-15, AU-16, AU-17, AU-18

Bus

Commercial BU-13, BU-14, BU-15, BU-16, BU-24
Intercity Passenger BU-22, BU-23, BU-29
Intercity Total BU-1, BU-3, BU-4, BU-5, BU-6, BU-7, BU-8, BU-21, BU-27,
BU-28
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Total BU-9, BU-10, BU-11, BU-12

Highway

Municipal Mileage HW-3, HW-6
Rural and Municipal Mileage HW-4
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Total HW-1, HW-2

Local Transit

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Electric Railway LT-13
Motorbus LT-5, LT-10, LT-14, LT-18, LT-26, LT-31, LT-39
Subway and Elevated LT-4, LT-9, LT-19, LT-23, LT-27, LT-32, LT-38
Surface LT-8, LT-20, LT-28, LT-33, LT-37
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LT-30, LT-35

Local Transit (cont.)

Trolley Coach LT-2, LT-7, LT-15, LT-21, LT-29, LT-34, LT-36

Oil Pipeline

Oil Pipeline OP-1, OP-2, OP-3, OP-4, OP-5, OP-6, OP-7, OP-8

Rail

Class I, Commutation RA-26, RA-29, RA-34

Class I, Total RA-4, RA-5, RA-6, RA-7, RA-10, RA-11, RA-14, RA-18, RA-21, RA-24, RA-27, RA-30, RA-38

Class II RA-15

Freight RA-40

Freight, Class I RA-3, RA-9, RA-17, RA-20, RA-23, RA-31, RA-32, RA-35, RA-37

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Passenger, Class I RA-1, RA-2, RA-8, RA-16, RA-19, RA-22, RA-36

Total RA-12, RA-13, RA-41, RA-42, RA-43, RA-44

Truck

Combinations TR-12, TR-19, TR-20, TR-21, TR-22

Government TR-37

Intercity TR-31

Intercity For-Hire TR-3, TR-4, TR-28, TR-30, TR-35

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Local For-Hire TR-1, TR-2, TR-33

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Water Transport

Coast Guard WA-11, WA-12

Domestic Water Freight WA-4, WA-5, WA-6, WA-7, WA-8, WA-35, WA-36, WA-37, WA-38, WA-39, WA-40, WA-41, WA-42, WA-43, WA-44, WA-54

Domestic Water Passenger Service WA-3, WA-33

Freight International WA-1

Inland and Intra Coastal WA-13

International Exports WA-45, WA-46, WA-47

International Exports and Imports WA-48, WA-49, WA-50

International Imports WA-51, WA-52, WA-53

Merchant Marine WA-9, WA-10

NonselF-Propelled WA-18, WA-22, WA-23, WA-55, WA-58, WA-60

NonselF-Propelled Dry Cargo Barges and Scows WA-19, WA-20, WA-21, WA-61, WA-62, WA-63

NonselF-Propelled Tank Barges WA-24, WA-25, WA-26, WA-56, WA-57, WA-59

Passenger International WA-2, WA-34

Total WA-14, WA-15, WA-16, WA-17, WA-30, WA-31, WA-32

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DATA BASE CROSS INDEX

This section is a three-level cross index of the data base. The first level is a list of the data base, divided into three categories: scheduled, unscheduled, and other. The second level is a list of the data base, divided into three categories: scheduled, unscheduled, and other. The third level is a list of the data base, divided into three categories: scheduled, unscheduled, and other.

APPENDIX C

Data Base Cross Index

Air Carrier
Automotive
etc.

Air Carrier
Automotive
Average Income
Number of Employees
etc.

Page 100

The first part of the report is a general introduction to the project. It describes the purpose of the study and the methods used to collect and analyze the data. The second part of the report is a detailed description of the results of the study. It includes a table of the data and a discussion of the findings.

ATTACHMENT 1
The first part of the report is a general introduction to the project. It describes the purpose of the study and the methods used to collect and analyze the data. The second part of the report is a detailed description of the results of the study. It includes a table of the data and a discussion of the findings.

Data Base Index

1-1

DATA BASE CROSS INDEX

This section is a three-level cross index of the modal categories data includes in the data base. Please note that it does not contain any reference to socio-economic data. The three levels included in this cross index are:

By mode and
modal group

air carrier:

domestic, certificated, all services
domestic, certificated, non-scheduled
etc.

By data item
according to
mode

accidents:

air carrier
automobile
etc.

By mode
according
to data
item

air carrier:

accidents
average speed
number of companies
etc.

ACCIDENTS

Air

domestic certificated all services AC-87
domestic certificated non-scheduled AC-91
domestic certificated scheduled AC-90
domestic supplemental AC-92
international certificated all services AC-93
international certificated non-scheduled AC-95
international certificated scheduled AC-94
international supplemental AC-96

Bus

intercity BU-27, BU-29

General Aviation

total GA-18

Rail

total RA-41, RA-42, RA-43, RA-44

ACCIDENTS, NUMBER OF VEHICLES IN

Automobile

motorcycle AU-27, AU-28
passenger cars AU-23, AU-24
taxi AU-25, AU-26

Bus

school BU-25, BU-26

Truck

total TR-38, TR-39

ACCIDENTS, TOTAL NUMBER OF

Air

domestic certificated scheduled AC-98, AC-103
domestic and international certificated all
services AC-99, AC-102
domestic and international supplemental AC-100, AC-104
total AC-97, AC-101

Bus

intercity BU-28

General Aviation

total GA-16, GA-17

Local Transit

buses LT-40

Truck

government TR-37
intercity for-hire TR-35
intercity private TR-36
local for-hire TR-33
local private TR-34

AIR CARRIER

Airlines, Domestic AC-21, AC-22

Airports AC-17, AC-18, AC-19, AC-20

Airways AC-15, AC-16

Domestic, Certificated, All Services AC-2, AC-9, AC-12, AC-25, AC-29, AC-33, AC-37, AC-46, AC-55, AC-64, AC-79, AC-89, AC-99

Domestic, Certificated, Non-scheduled AC-4, AC-39, AC-48, AC-57, AC-66, AC-73, AC-91

Domestic, Certificated, Scheduled AC-3, AC-38, AC-47, AC-56, AC-65, AC-72, AC-76, AC-80, AC-87, AC-90, AC-98, AC-103

Domestic and International, Certificated, All Services AC-102

Domestic and International, Supplemental AC-5, AC-14, AC-27, AC-31, AC-35, AC-100, AC-104

Domestic, Supplemental AC-40, AC-49, AC-58, AC-67, AC-82, AC-92

International, Certificated, All Services AC-6, AC-10, AC-13, AC-26, AC-30, AC-34, AC-41, AC-50, AC-59, AC-68, AC-83, AC-93

International, Certificated, Non-scheduled AC-8, AC-43, AC-52, AC-61, AC-70, AC-75, AC-81, AC-85, AC-95

International, Certificated, Scheduled AC-7, AC-42, AC-51, AC-60, AC-69, AC-74, AC-77, AC-84, AC-88, AC-94

International, Supplemental AC-44, AC-53, AC-62, AC-71, AC-86, AC-96

Total AC-1, AC-11, AC-23, AC-24, AC-28, AC-32, AC-36, AC-45, AC-54, AC-63, AC-78, AC-97, AC-101

AIRLINES, DOMESTIC AC-21, AC-22

AIRPORTS

Federal Expenditures AC-17, AC-18

State and Local Expenditures AC-19

Total Government Expenditures AC-20, AC-23

AIRWAYS

Federal Expenditures AC-15

State and Local Expenditures AC-16

AUTOMOBILE

Motorcycle AU-13, AU-20, AU-27, AU-28

Passenger Cars AU-22, AU-23, AU-24

Passenger Cars and Taxi AU-14, AU-19, AU-21

Taxi AU-1, AU-12, AU-25, AU-26

Total AU-2, AU-3, AU-4, AU-5, AU-6, AU-7, AU-8, AU-9, AU-10, AU-11, AU-15, AU-16, AU-17, AU-18

AVERAGE LENGTH OF TRIP (HAUL)

Air

domestic certificated non-scheduled AC-73

domestic certificated scheduled AC-72

international certificated non-scheduled AC-75

international certificated scheduled AC-74

Oil Pipeline

total OP-7, OP-8

Rail

class I commutation RA-34

class I freight RA-35

class I other passenger RA-33

Truck

intercity TR-31

Water Transport

domestic, total WA-54

AVERAGE SPEED

Air

domestic certificated scheduled AC-87

international certificated scheduled AC-88

Automobile

passenger cars AU-22

Bus

commercial BU-24

Rail

freight RA-40

passenger RA-39

Truck

total TR-32

BUS

Commercial BU-13, BU-14, BU-15, BU-16, BU-24

Intercity Passenger BU-22, BU-23, BU-29

Intercity Total BU-1, BU-3, BU-4, BU-5, BU-6, BU-7,
BU-8, BU-21, BU-27, BU-28

School BU-2, BU-17, BU-18, BU-19, BU-20, BU-25, BU-26

Total BU-9, BU-10, BU-11, BU-12

CAR MILEAGE

Rail

class I freight RA-23

class I passenger RA-22

class I total RA-24

CARGO CAPACITY

Water Transport

barges and scows WA-61, WA-62, WA-63

nonself-propelled, total WA-55, WA-60

tank barges WA-56, WA-57, WA-58, WA-59

CHANNELS

Water

total inland WA-32

CLASS 1, COMMUTATION RAIL RA-26, RA-29, RA-34

COAST GUARD WA-11, WA-12

COMBINATION TRUCKS TR-12, TR-19, TR-20, TR-21, TR-22

COMMERCIAL BUS BU-13, BU-14, BU-15, BU-16, BU-24

DOMESTIC AND INTERNATIONAL, CERTIFICATED, ALL SERVICES AIR-
LINES AC-102

DOMESTIC AND INTERNATIONAL, SUPPLEMENTAL AIRLINES AC-5,
AC-14, AC-27, AC-31, AC-35, AC-100, AC-104

DOMESTIC, CERTIFICATED, NON-SCHEDULED AIRLINES AC-4, AC-39,
AC-48, AC-57, AC-66, AC-73, AC-91

DOMESTIC, CERTIFICATED, ALL SERVICES AIRLINES AC-2, AC-9,
AC-12, AC-25, AC-29, AC-33, AC-37, AC-46, AC-55, AC-64,
AC-79, AC-89, AC-99

DOMESTIC, CERTIFICATED, SCHEDULED AIRLINES AC-3, AC-38,
AC-47, AC-56, AC-65, AC-72, AC-76, AC-80, AC-87, AC-90,
AC-98, AC-103

DOMESTIC, SUPPLEMENTAL AIRLINES AC-40, AC-49, AC-58, AC-67,
AC-82, AC-92

DOMESTIC WATER FREIGHT WA-4, WA-5, WA-6, WA-7, WA-8, WA-35,
WA-36, WA-37, WA-38, WA-39, WA-40, WA-41, WA-42, WA-43, WA-44,
WA-54

DOMESTIC WATER PASSENGER WA-3, WA-33

ELECTRIC RAILWAY LT-13

EXPENDITURES

Automobile

total AU-2, AU-3, AU-4, AU-5, AU-6, AU-7, AU-8,
AU-9, AU-10, AU-11

General Aviation

total GA-1

School Bus BU-2

Truck

intercity private TR-7, TR-8
local private TR-5, TR-6
non-freight private TR-9

EXPORTS, NUMBER OF TONS

Water Transport

coastal ports WA-45
Great Lakes WA-46
total WA-47

EXPORTS AND IMPORTS, NUMBER OF TONS

Water Transport

coastal ports WA-48

lakewise WA-49

total WA-50

FEDERAL EXPENDITURES

Highways

total HW-1

Public Transit LT-12

Water Transit

Coast Guard WA-11

inland and intra coastal waterways WA-13

merchant marine WA-9

total WA-14, WA-17

FEDERAL SUBSIDIES

Air

domestic airlines AC-21

domestic certificated all services AC-9

international certificated all services AC-10

FREIGHT, RAIL RA-40

FREIGHT, CLASS 1, RAIL RA-3, RA-9, RA-17, RA-20, RA-23,
RA-31, RA-32, RA-35, RA-37

FREIGHT INTERNATIONAL WA-1

FREIGHT REVENUE

Rail

class 1 RA-3 (see also revenue)

GENERAL AVIATION

Business GA-4, GA-10

Commercial GA-5, GA-11

Instructional GA-6, GA-12

Other GA-8, GA-14

Personal GA-7, GA-13

Total GA-1, GA-2, GA-3, GA-9, GA-15, GA-16, GA-17, GA-18

HIGHWAY

Municipal Mileage HW-3, HW-6

Rural and Municipal Mileage HW-4

Rural Mileage HW-5, HW-7

Total HW-1, HW-2

HORSEPOWER

Water Transport

towboats and tugs WA-64, WA-65, WA-66

HOURS FLOWN, NUMBER OF

General Aviation

business GA-10
commercial GA-11
instructional GA-6
other GA-14
personal GA-13
total GA-9

IMPORTS, NUMBER OF TONS

Water Transport

coastal ports WA-52
Great Lakes WA-53
total WA-51

INLAND AND INTRA COASTAL WATER TRANSPORT WA-13

INTERCITY BUS

Passenger BU-22, BU-23, BU-29
Total BU-1, BU-3, BU-4, BU-5, BU-6, BU-7, BU-8, BU-21,
BU-27, BU-28

INTERCITY TRUCK

For-Hire TR-3, TR-4, TR-28, TR-30, TR-35
Private TR-7, TR-8, TR-29, TR-36
Total TR-31

INTERNATIONAL, CERTIFICATED, ALL SERVICES AIRCRAFT AC-6,
AC-10, AC-13, AC-26, AC-30, AC-34, AC-41, AC-50, AC-59, AC-68,
AC-83, AC-93

INTERNATIONAL, CERTIFICATED, NON-SCHEDULED AIRCRAFT AC-8,
AC-43, AC-52, AC-61, AC-70, AC-75, AC-81, AC-85, AC-95

INTERNATIONAL, CERTIFICATED, SCHEDULED AIRCRAFT AC-7, AC-42,
AC-51, AC-60, AC-69, AC-74, AC-77, AC-84, AC-88, AC-94

INTERNATIONAL EXPORTS WA-45, WA-46, WA-47

INTERNATIONAL EXPORTS AND IMPORTS WA-48, WA-49, WA-50

INTERNATIONAL IMPORTS WA-51, WA-52, WA-53

INTERNATIONAL, SUPPLEMENTAL AIRCRAFT AC-44, AC-53, AC-62,
AC-71, AC-86, AC-96

LINE MILEAGE

Local Transit

motorbus LT-26
subway and elevated LT-27

surface rail LT-28
total LT-25
trolley coach LT-29
Rail
total RA-12

LOCAL FOR-HIRE TRUCK TR-1, TR-2, TR-33

LOCAL PRIVATE TRUCK TR-5, TR-6, TR-27, TR-34

LOCAL TRANSIT

Buses LT-40
Electric Railway LT-13
Motorbus LT-5, LT-10, LT-14, LT-18, LT-26, LT-31, LT-39
Subway and Elevated LT-4, LT-9, LT-19, LT-23, LT-27,
LT-32, LT-38
Surface LT-8, LT-20, LT-28, LT-33, LT-37
Surface Rail LT-3
Total LT-1, LT-6, LT-11, LT-12, LT-16, LT-17, LT-22,
LT-24, LT-25, LT-30, LT-35
Trolley Coach LT-2, LT-7, LT-15, LT-21, LT-29, LT-34, LT-36

LOCOMOTIVE MILEAGE

Rail
class I freight RA-20
class I passenger RA-19
class I total RA-21

MERCHANT MARINE WA-9, WA-10

MILES FLOWN

General Aviation
business GA-4
commercial GA-5
instructional GA-12
other GA-8
personal GA-7
total GA-3

MILES OF HIGHWAY SERVED

Bus
intercity BU-8

MILES OF ROAD OPERATED

Rail
class I total RA-14
class II RA-15

MILES OF TRACK

Rail
switching and terminal RA-13

MOTORBUS LT-5, LT-10, LT-14, LT-18, LT-26, LT-31, LT-39

MOTORCYCLE AU-13, AU-20, AU-27, AU-28

MUNICIPAL MILEAGE

Highway

under local control HW-6

under state control HW-3

NON-FREIGHT PRIVATE TRUCK TR-9

NONSELF-PROPELLED WATER TRANSPORT WA-18, WA-22, WA-23, WA-55,
WA-58, WA-60

NONSELF-PROPELLED DRY CARGO BARGES AND SCOWS WA-19, WA-20,
WA-21, WA-61, WA-62, WA-63

NONSELF-PROPELLED TANK BARGES WA-24, WA-25, WA-26, WA-56,
WA-57, WA-59

NUMBER OF COMPANIES

Air

domestic certificated all services AC-25

domestic and international supplemental AC-27

international certificated all services AC-26

total AC-24

Bus

intercity BU-5

Local Transit

electric railway LT-13

motorbus LT-14

total LT-16

trolley coach LT-15

Oil Pipeline

total OP-3

Rail

class I total RA-6

NUMBER OF EMPLOYEES

Air

domestic certificated all services AC-33

domestic and international supplemental AC-35

international certificated all services AC-34

total AC-32

Automobile

taxi AU-12

Bus

intercity BU-7

Local Transit

motorbus, surface and trolley LT-22

subway and elevated LT-23

total LT-24

Oil Pipeline
total OP-4
Rail
class I total RA-11
Truck
total TR-13, TR-14
Water Transport
ship and boat building and repair WA-31
total WA-30

NUMBER OF PASSENGERS CARRIED

Water Transport
international service WA-34 (see also passenger load factor)

NUMBER OF REVENUE PASSENGERS CARRIED

Local Transit
motorbus LT-39
subway and elevated LT-38
surface rail LT-37
total LT-35
trolley coach LT-36
Rail
class I commutation RA-29
class I other passengers RA-28
class I total RA-30

NUMBER OF VEHICLES

Air
domestic certificated all services AC-29
domestic and international supplemental AC-31
international certificated all services AC-30
total AC-28
Automobile
motorcycle AU-13
passenger cars and taxi AU-14
Bus
intercity BU-6
General Aviation
total GA-2
Local Transit
motorbus LT-18
subway and elevated LT-19
surface rail LT-20
total LT-17
trolley coach LT-21
Rail
class I freight RA-9
class I locomotives RA-7
class I passenger RA-8
class I total RA-10

Truck

combinations TR-12
single unit TR-11
total TR-10

Water Transport

dry cargo barges and scows WA-19, WA-20, WA-21
nonself-propelled WA-18, WA-22, WA-23
self-propelled towboats and tugs WA-29
tank barges WA-24, WA-25, WA-26
towboats and tugs WA-27, WA-28

OIL PIPELINE OP-1, OP-2, OP-3, OP-4, OP-5, OP-6, OP-7, OP-8

OPERATING EXPENSES

Air

domestic certificated all services AC-12
domestic and international supplemental AC-14
international certificated all services AC-13
total AC-11

Bus

intercity BU-3

OPERATING REVENUES

Air

domestic certificated all services AC-2
domestic certificated non-scheduled AC-4
domestic certificated scheduled AC-3
domestic and international supplemental AC-5
international certificated all services AC-6
international certificated non-scheduled AC-8
international certificated scheduled AC-7
total AC-1

Bus

intercity BU-1

Local Transit

motorbus LT-5
subway and elevated LT-4
surface rail LT-3
total LT-1
trolley coach LT-2

PASSENGER, RAIL RA-25, RA-28, RA-33, RA-39

PASSENGER CARS AU-22, AU-23, AU-24

PASSENGER CARS AND TAXI AU-14, AU-19, AU-21

PASSENGER, CLASS 1, RAIL RA-1, RA-2, RA-8, RA-16, RA-19,
RA-22, RA-36

PASSENGER INTERNATIONAL WATER TRANSPORT WA-2, WA-34

PASSENGER LOAD FACTOR

Air

domestic certificated scheduled AC-76 (see also pas-
international certificated scheduled AC-77 sengers, no. carried

PASSENGER MILES

Auto

passenger cars and taxi AU-21

General Aviation

intercity GA-15

Water Transport

domestic intercity WA-33 (see also revenue passenger miles)

PASSENGER REVENUE

Local Transit

motorbur LT-10

subway and elevated LT-9

surface rail LT-8

total LT-6

trolley coach LT-7

Rail

class I RA-1

class I commutation RA-2

PIPELINE

(see oil pipeline)

RAIL

Class I, Commutation RA-26, RA-29, RA-34

Class I, Total RA-4, RA-5, RA-6, RA-7, RA-10, RA-11,
RA-14, RA-18, RA-21, RA-24, RA-27, RA-30, RA-38

Class II RA-15

Freight RA-40

Freight, Class I RA-3, RA-9, RA-17, RA-20, RA-23, RA-31,
RA-32, RA-35, RA-37

Passenger RA-25, RA-28, RA-33, RA-39

Passenger, Class I RA-1, RA-2, RA-8, RA-16, RA-19, RA-22,
RA-36

Total RA-12, RA-13, RA-41, RA-42, RA-43, RA-44

REVENUES

Automobile

taxi AU-1

Oil Pipeline

total OP-1

Rail

total RA-4

Truck

intercity for-hire TR-3, TR-4

local for-hire TR-1, TR-2

Water Transport

Great Lakes freight WA-6
inland waterways freight WA-5
intercity passenger WA-3
intercoastal and coastal freight WA-4
international freight WA-1
international passenger WA-2
locks and channels freight WA-7
total domestic freight WA-8

REVENUE AIRCRAFT HOURS

Air Carrier

domestic certificated all services AC-79
domestic certificated non-scheduled AC-81
domestic certificated scheduled AC-80
domestic supplemental AC-82
international certificated all services AC-83
international certificated non-scheduled AC-85
international certificated scheduled AC-84
international supplemental AC-86

REVENUE MILES

Air Carrier

domestic certificated all services AC-37
domestic certificated non-scheduled AC-39
domestic certificated scheduled AC-38
domestic supplemental AC-40
international certificated all services AC-41
international certificated non-scheduled AC-43
international certificated scheduled AC-42
international supplemental AC-44
total AC-36

Local Transit

motorbus LT-31
subway and elevated LT-32
surface rail LT-33
total LT-30
trolley coach LT-34

REVENUE PASSENGER MILES

Air Carrier

domestic certificated all services AC-46
domestic certificated non-scheduled AC-48
domestic certificated scheduled AC-47
domestic supplemental AC-49
international certificated all services AC-50
international certificated non-scheduled AC-52
international certificated scheduled AC-51
international supplemental AC-53
total AC-45

Bus

intercity BU-22

Rail

class I commutation RA-26
class I other passenger RA-25
class I total RA-27

REVENUE PASSENGER ORIGINATIONS

Air Carrier

domestic certificated all services AC-55
domestic certificated non-scheduled AC-57
domestic certificated scheduled AC-52
domestic supplemental AC-58
international certificated all services AC-59
international certificated non-scheduled AC-61
international certificated scheduled AC-60
international supplemental AC-62
total AC-54

REVENUE TON MILES

Air Carrier

domestic certificated all services AC-64
domestic certificated non-scheduled AC-66
domestic certificated scheduled AC-65
domestic supplemental AC-67
international certificated all services AC-68
international certificated non-scheduled AC-70
international certificated scheduled AC-69
international supplemental AC-71
total AC-63

Rail

class I freight RA-31
(see also ton-miles)

REVENUE TONS CARRIED

Rail

class I freight RA-32

Water Transport

coastwise domestic WA-40
exports and imports WA-48, WA-49, WA-50
internal WA-42
imports WA-51, WA-52, WA-53
international exports WA-45, WA-46, WA-47
lakewise WA-43
local WA-41
total WA-44

RURAL MILEAGE

Highway

total HW-4, HW-5
under state and federal control HW-7

SCHOOL BUS BU-2, BU-17, BU-18, BU-19, BU-20, BU-25, BU-26

SINGLE UNIT, TRUCK TR-11, TR-23, TR-24, TR-25, TR-26

STATE AND LOCAL EXPENDITURES

Highway

total HW-2

Water Transport

Coast Guard WA-12

state and local expenditures WA-10

total WA-15

STATE AND LOCAL SUBSIDY

Air Carrier

domestic airlines AC-22

STATUTE MILEAGE

Oil Pipeline

total OP-5

SUBWAY AND ELEVATED TRANSIT LT-4, LT-9, LT-19, LT-23, LT-27,
LT-32, LT-38

SURFACE TRANSIT LT-8, LT-20, LT-28, LT-33, LT-37

TAXES

Intercity Bus

total BU-4

Local Transit

total LT-11

Oil Pipeline

total OP-2

Rail

class I total RA-5

TAXI AU-1, AU-12, AU-25, AU-26

TOLLS AU-6

TON MILES

Oil Pipeline

total OP-6

Truck

intercity for-hire TR-30

intercity private TR-29

local for-hire TR-28

local private TR-27

Water Transport

domestic coastwise WA-35

internal domestic WA-36

lakewise WA-38

local domestic WA-37

total WA-39 (see also revenue ton miles)

TOWBOATS AND TUGS WA-27, WA-28, WA-29, WA-64, WA-65, WA-66

TRAIN HOURS

Rail

class I freight RA-37
class I passenger RA-36
class I total RA-38

TRAIN MILEAGE

Rail

class I freight RA-17
class I passenger RA-16
class I total RA-18

TRANSIT

(see also local transit)

TROLLEY COACH LT-2, LT-7, LT-15, LT-21, LT-29, LT-34, LT-36

TRUCK

Combinations TR-12, TR-19, TR-20, TR-21, TR-22
Government TR-37
Intercity TR-31
Intercity For-Hire TR-3, TR-4, TR-28, TR-30, TR-35
Intercity Private TR-7, TR-8, TR-29, TR-36
Local For-Hire TR-1, TR-2, TR-33
Local Private TR-5, TR-6, TR-27, TR-34
Non-Freight Private TR-9
Single Unit TR-11, TR-23, TR-24, TR-25, TR-26
Total TR-10, TR-13, TR-14, TR-15, TR-16, TR-17, TR-18,
TR-32, TR-38, TR-39

VEHICLE MILES TRAVELLED

Automobile

motorcycle AU-20
passenger cars and taxi AU-19
total AU-16, AU-18

Bus, Total BU-9, BU-11

commercial BU-13, BU-15
intercity BU-21

school and non-revenue BU-17, BU-19

Truck

combinations TR-19, TR-21
single unit TR-23, TR-25
total TR-15, TR-17

VEHICLE MILES TRAVELLED (cont.) Local Rural Roads

Automobile

total AU-17

Bus, Total BU-12

commercial BU-16

school and non-revenue BU-20

Truck

combinations TR-22
single unit TR-25
total TR-18

VEHICLE MILES TRAVELLED (cont.) Urban Streets

Automobile

total AU-15

Bus, Total BU-10

commercial BU-14

school and non-revenue BU-18

Truck

combinations TR-20
single unit TR-24
total TR-16

WATER TRANSPORT

Coast Guard WA-11, WA-12

Domestic Water Freight WA-4, WA-5, WA-6, WA-7, WA-8,
WA-35, WA-36, WA-37, WA-38, WA-39, WA-40, WA-41, WA-42,
WA-43, WA-44, WA-54

Domestic Water Passenger Service WA-3, WA-33

Freight International WA-1

Inland and Intra Coastal WA-13

International Exports WA-45, WA-46, WA-47

International Exports and Imports WA-48, WA-49, WA-50

International Imports WA-51, WA-52, WA-53

Merchant Marine WA-9, WA-10

Nonsell-Propelled WA-18, WA-22, WA-23, WA-55, WA-58, WA-60

Nonsell-Propelled Dry Cargo Barges and Scows WA-19, WA-20,
WA-21, WA-61, WA-62, WA-63

Nonsell-Propelled Tank Barges WA-24, WA-25, WA-26, WA-56,
WA-57, WA-59

Passenger International WA-2, WA-34

Total WA-14, WA-15, WA-16, WA-17, WA-30, WA-31, WA-32

Towboats and Tugs WA-27, WA-28, WA-29, WA-64, WA-65, WA-66

LIST OF ABBREVIATIONS USED
IN CATEGORIZING THE DATA

AC	AIR CARRIER
GA	GENERAL AVIATION
BU	BUS
HW	HIGHWAY
LT	LOCAL TRANSIT
OP	OIL PIPELINE
RA	RAIL
TR	TRUCK
WA	WATER TRANSPORT
SE	SOCIO-ECONOMIC DATA

LIST OF ABBREVIATIONS
USED IN DOCUMENTING
THE DATA BASE

A.A.R.	Association of American Railroads
A.T.A.	American Transit Association
B.P.R.	Bureau of Public Roads
C.A.B.	Civil Aeronautics Board
F.A.A.	Federal Aviation Administration
F.H.W.A.	Federal Highway Administration
I.C.C.	Interstate Commerce Commission
NAMBO	National Association of Motor Bus Owners
T.A.A.	Transportation Association of America
T.F.B.	Transit Fact Book

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