1972 census OF TRansportation



**VOLUME II** 

Truck Inventory and Use Survey



U.S. Department of commerce Scientarianiae Symboles Administration bureau of the identica

# 1972 Census OF TRansportation

# **VOLUME II**

# Truck Inventory and Use Survey



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This report was prepared in the Transportation Division under the general direction of Dayton P. Jorgenson, Chief (and Donald E. Church, former chief, retired June 1972), and Walter F. Buhl, Assistant Chief. Within this division responsibility was shared by the following individuals who contributed significantly to the entire program: Jerome Litzky, Chief, Survey Programs Branch; Donald G. Wright, Research Programs Branch; Evelyn S. Davis, publications specialist; Helen L. Buckley and Lauris G. Childs, clerical supervisors; and E. Jeanne Foust, computer planning and programing. Dorcus Dupree coordinated the activities between Transportation Division, Data Preparation Division, and Computer Services Division.

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#### B

## PREFACE

The census of transportation, together with the censuses of retail and wholesale trade, selected service industries, manufactures, mineral industries, and construction industries comprise the economic census program of the Bureau of the Census. This program is required by law under Title 13 of the United States Code, sections 131 and 224. The present economic census collects statistics for the year 1972. Future censuses are scheduled by law for 5-year intervals.

A large segment of transportation data is available from regulatory and other government agencies, and private organizations. For that reason, the statutory provisions concerning the census of transportation directed the Bureau to collect the kinds of data that were not publicly available from other sources. The objective was to avoid duplication and fill important gaps in transportation information.

The census of transportation was undertaken for the first time on a national basis in 1963 and again in 1967. The 1972 census was taken under three separate surveys—National Travel, Truck Inventory and Use, and Commodity Transportation, each on a sample basis. The surveys are independent of each other and the results are published in three distinct series of reports.

#### **Publication and Computer Tape Program**

#### 1972 CENSUS OF TRANSPORTATION

Publications of the 1972 Census of Transportation present data on personal travel, the characteristics and use of trucks, and the nonlocal shipment of commodities by manufacturers.

#### **PUBLISHED REPORTS**

#### National Travel Survey (3 reports)

This survey includes a "Spring Report" covering travel during January through May 1972; a "Summer Report" covering travel during June through September1972; and a report covering travel during the year 1972. Data cover number of persons taking trips, number of trips taken, person-trips, person-miles, person-nights, and accommodations used by such travel characteristics as means of transport, purpose of trip, duration, distance, size of party, vacation, weekend, and origin and destination. Also presented are data by such socioeconomic characteristics as residence, occupation, education, and family-income level. These reports will present travel data for the nation and to nine Travel Regions.

#### Truck Inventory and Use Survey (52 reports)

This series includes a U.S. Summary and a separate report for each State and the District of Columbia. Data cover the characteristics and uses of the Nation's private and commercial truck resources; the number of vehicles and selected characteristics such as major use, annual vehicle miles, year model, body type and vehicle size class, single unit or combination and axle arrangement, type of fuel, range of operation, acquisition, and cab type.

#### Commodity Transportation Survey (approx. 51 reports)

Data on the shipments of commodities by manufacturers will be presented in this series of reports. One report for the United States as a whole will present the flow of commodities at various transportation commodity classification (TCC) levels showing tons and ton-miles of shipments by means of transport, length of haul, weight of shipment, origin, and

destination. The geographic reports will give the flow of commodities from manufacturing plants located in each of the 27 production areas (each production area consists of one or a cluster of standard metropolitan statistical areas) and selected States shown for tons and ton-miles of commodities shipped classified by means of transport, length of haul, and area of destination of shipments. Also included in the series will be reports covering the "Printing, Publishing, and Allied Industries (Except Newspapers and Periodicals)" and the "Traffic Patterns of Small Manufacturing Plants." These provide national and regional data on means of transport and distance shipped by industry class in value of shipments.

#### **PUBLIC USE TAPES**

For each of the three phases of the Census of Transportation, public-use computer tapes are made available.

#### **National Travel Survey**

U.S. travel trip records are presented by State of origin, type of trip, means of transport used, States visited, traveling group size, type of traveler, and season. Data are given on socioeconomic status; age, color, and sex of travelers; and lodging.

#### Truck Inventory and Use Survey

For each truck in the survey, complete detail is given except where individual operations would be revealed. Data include year of truck model, registered weight, state of registration, major use, principal products carried, annual and lifetime miles, vehicle body type and size, axle arrangement, maintenance, area of operation, size class, leasing arrangements, and allied items.

#### **Commodity Transportation Survey**

Two tapes: One contains shipment record summaries of commodity flow from 27 major industrial areas to 59 destination areas. The other contains shipment record summaries from originating State to destination State. The data in each tape include aggregate tons and ton-miles.

# CONTENTS

Table A. Trucks, Truck-Miles, and Average Miles by Geographic Division and State				Page
Figure 1. Distribution of Commercial and Private Motor Truck Registration: 1972  Figure 2. Average Annual Miles per Truck for Each State: 1972  Figure 3. Comparison of Relative Shares of Total Trucks by Major Use: 1963, 1967, and 1972  XY  Figure 4. Percent Distribution of Size of Truck for Major Use: 1972  XV  Figure 5. Percent Distribution of Major Uses for Truck Types: 1972  XVI  Figure 6. Distribution of Truck-Miles by Type of Fuel for Ranges of Operation: 1972  XVII  Figure 7. Number of Truck-Miles, and Average Miles, by Truck Size: 1972  XVII  ABLES: United States  1 Comparative Summary: 1963, 1967, and 1972  2 Trucks, Truck-Miles, and Average Miles, by Vehicle and Operational Characteristics  3 Sampling Variability of Data  Trucks: Percent Distribution for—  4 Major Use Classes, by Vehicle and Operational Characteristics  5 Size Classes, by Vehicle and Operational Characteristics  6 Annual Mileage Classes, by Vehicle and Operational Characteristics  7 Ranges of Operation, by Vehicle and Operational Characteristics  9 Trucks: Distribution of Body Types by Load Size  10 Trucks: Distribution of Principal Products Carried, by Geographic Division and Major Use of Vehicle  12 Size Classes, by Vehicle and Operational Characteristics  13 Annual Mileage Classes, by Vehicle and Operational Characteristics  14 Ranges of Operation, by Vehicle and Operational Characteristics  15 Size Classes, by Vehicle and Operational Characteristics  16 Annual Mileage Classes, by Vehicle and Operational Characteristics  17 Truck-Miles: Percent Distribution for—  18 Major Use Classes, by Vehicle and Operational Characteristics  19 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics  10 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics  11 Size Classes, by Vehicle and Operational Characteristics  12 Size Classes, by Vehicle and Operational Characteristics  13 Annual Mileage Classes, by Vehicle and Operational Characteristics  14 Ranges of Operation, by Vehicle and Operational Char		Int	roduction	VII
Figure 1. Distribution of Commercial and Private Motor Truck Registration: 1972 Figure 2. Average Annual Miles per Truck for Each State: 1972 Figure 3. Comparison of Relative Shares of Total Trucks by Major Use: 1963, 1967, and 1972 XV Figure 4. Percent Distribution of Size of Truck for Major Uses: 1972 XV Figure 5. Percent Distribution of Major Uses for Truck Types: 1972 XVI Figure 6. Distribution of Truck Miles by Type of Fuel for Ranges of Operation: 1972 XVII Figure 7. Number of Truck-Miles, and Average Miles, by Truck Size: 1972 XVII  ABLES: United States  1 Comparative Summary: 1963, 1967, and 1972 2 Trucks, Truck-Miles, and Average Miles, by Vehicle and Operational Characteristics 3 Sampling Variability of Data  Trucks: Percent Distribution for— 4 Major Use Classes, by Vehicle and Operational Characteristics 5 Size Classes, by Vehicle and Operational Characteristics 6 Annual Mileage Classes, by Vehicle and Operational Characteristics 7 Ranges of Operation, by Vehicle and Operational Characteristics 9 Trucks: Distribution of Body Types by Load Size 10 Trucks: Distribution of Principal Products Carried, by Geographic Division and Major Use of Vehicle 12 Size Classes, by Vehicle and Operational Characteristics 13 Annual Mileage Classes, by Vehicle and Operational Characteristics 14 Ranges of Operation, by Vehicle and Operational Characteristics 15 Size Classes, by Vehicle and Operational Characteristics 16 Annual Mileage Classes, by Vehicle and Operational Characteristics 17 Truck-Miles: Percent Distribution for— 18 Major Use Classes, by Vehicle and Operational Characteristics 19 Truck-Miles: Percent Distribution for— 10 Major Use Classes, by Vehicle and Operational Characteristics 10 Truck-Miles: Percent Distribution for— 11 Major Use Classes, by Vehicle and Operational Characteristics 11 Size Classes, by Vehicle and Operational Characteristics 12 Size Classes, by Vehicle and Operational Characteristics 13 Annual Mileage Classes, by Vehicle and Operational Characteristics 14 Ranges of Operation, by Vehicle		Tal	ole A. Trucks, Truck-Miles, and Average Miles by Geographic Division and State	VIII
Figure 2. Average Annual Miles per Truck for Each State: 1972  Figure 3. Comparison of Relative Shares of Total Trucks by Major Use: 1963, 1967, and 1972  XY  Figure 4. Percent Distribution of Size of Truck for Major Uses: 1972  XV  Figure 5. Percent Distribution of Major Uses for Truck Types: 1972  XVI  Figure 6. Distribution of Truck-Miles by Type of Fuel for Ranges of Operation: 1972  XVII  Figure 7. Number of Trucks, Truck-Miles, and Average Miles, by Truck Size: 1972  XVII  ABLES: United States  1 Comparative Summary: 1963, 1967; and 1972  2 Trucks, Truck-Miles, and Average Miles, by Vehicle and Operational Characteristics  3 Sampling Variability of Data  Trucks: Percent Distribution for—  4 Major Use Classes, by Vehicle and Operational Characteristics  5 Size Classes, by Vehicle and Operational Characteristics  6 Annual Mileage Classes, by Vehicle and Operational Characteristics  7 Ranges of Operation, by Vehicle and Operational Characteristics  8 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics  9 Trucks: Distribution of Body Types by Load Size  10 Trucks: Distribution of Principal Products Carried, by Geographic Division and Major Use of Vehicle  Truck-Miles: Percent Distribution for—  11 Major Use Classes, by Vehicle and Operational Characteristics  12 Size Classes, by Vehicle and Operational Characteristics  13 Annual Mileage Classes, by Vehicle and Operational Characteristics  14 Ranges of Operation, by Vehicle and Operational Characteristics  15 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics  Specialized Trucks: Trucks, Truck-Miles, and Average Miles by Vehicle and Operational Characteristics  Specialized Trucks: Trucks, Truck-Miles, and Average Miles by Vehicle and Operational Characteristics  15 Pickup Trucks  22  17 Panel Trucks  22  21  22				XII
Figure 4. Percent Distribution of Size of Truck for Major Uses: 1972 XV Figure 5. Percent Distribution of Major Uses for Truck Types: 1972 XVI Figure 6. Distribution of Truck-Miles by Type of Fuel for Ranges of Operation: 1972 XVII Figure 7. Number of Trucks, Truck-Miles, and Average Miles, by Truck Size: 1972 XVII  ABLES: United States  1 Comparative Summary: 1963, 1967, and 1972 2 Trucks, Truck-Miles, and Average Miles, by Vehicle and Operational Characteristics 3 Sampling Variability of Data  Trucks: Percent Distribution for— 4 Major Use Classes, by Vehicle and Operational Characteristics 5 Size Classes, by Vehicle and Operational Characteristics 6 Annual Mileage Classes, by Vehicle and Operational Characteristics 7 Ranges of Operation, by Vehicle and Operational Characteristics 8 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics 9 Trucks: Distribution of Body Types by Load Size 10 Trucks: Distribution of Principal Products Carried, by Geographic Division and Major Use of Vehicle 11 Truck-Miles: Percent Distribution for— 11 Major Use Classes, by Vehicle and Operational Characteristics 12 Size Classes, by Vehicle and Operational Characteristics 13 Annual Mileage Classes, by Vehicle and Operational Characteristics 14 Ranges of Operation, by Vehicle and Operational Characteristics 15 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics 16 Princk Types and Axle Arrangements, by Vehicle and Operational Characteristics 17 Specialized Trucks: Trucks, Truck-Miles, and Average Miles by Vehicle and Operational Characteristics 18 Specialized Trucks 19 Pickup Trucks 20 Papel Trucks 21 Papel Trucks 21 Papel Trucks 22 Papel Trucks 22 Papel Trucks 22 Papel Trucks 23 Papel Trucks 24 Papel Trucks 25 Papel Trucks 26 Papel Trucks 27 Papel Trucks 27 Papel Trucks 28 Papel Trucks 29 Papel Trucks 20 Papel Trucks 20 Papel Trucks 21 Papel Trucks 2				XII
Figure 5. Percent Distribution of Major Uses for Truck Types: 1972 XVI Figure 6. Distribution of Truck-Miles by Type of Fuel for Ranges of Operation: 1972 XVII Figure 7. Number of Trucks, Truck-Miles, and Average Miles, by Truck Size: 1972 XVII  ABLES: United States  1 Comparative Summary: 1963, 1967, and 1972 2 Trucks, Truck-Miles, and Average Miles, by Vehicle and Operational Characteristics		Fig	ure 3. Comparison of Relative Shares of Total Trucks by Major Use: 1963, 1967, and 1972	ΧV
Figure 6. Distribution of Truck-Miles by Type of Fuel for Ranges of Operation: 1972 XVII Figure 7. Number of Trucks, Truck-Miles, and Average Miles, by Truck Size: 1972 XVII  ABLES: United States  1		Fig	ure 4. Percent Distribution of Size of Truck for Major Uses: 1972	XVI
Figure 7. Number of Trucks, Truck-Miles, and Average Miles, by Truck Size: 1972 XVII  ABLES: United States  1		Fig	ure 5. Percent Distribution of Major Uses for Truck Types: 1972	XVII
ABLES: United States  1 Comparative Summary: 1963, 1967; and 1972 2 Trucks, Truck-Miles, and Average Miles, by Vehicle and Operational Characteristics 3 Sampling Variability of Data  Trucks: Percent Distribution for— 4 Major Use Classes, by Vehicle and Operational Characteristics 5 Size Classes, by Vehicle and Operational Characteristics 6 Annual Mileage Classes, by Vehicle and Operational Characteristics 7 Ranges of Operation, by Vehicle and Operational Characteristics 8 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics 9 Trucks: Distribution of Body Types by Load Size 10 Trucks: Distribution of Principal Products Carried, by Geographic Division and Major Use of Vehicle  Truck-Miles: Percent Distribution for— 11 Major Use Classes, by Vehicle and Operational Characteristics 12 Size Classes, by Vehicle and Operational Characteristics 13 Annual Mileage Classes, by Vehicle and Operational Characteristics 14 Ranges of Operation, by Vehicle and Operational Characteristics 15 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics 16 Specialized Trucks: Trucks, Truck-Miles, and Average Miles by Vehicle and Operational Characteristics 17 Panel Trucks 18 Panel Trucks 19 Panel Trucks 20 Panel Trucks 20 Panel Trucks 21 Panel Trucks 21 Panel Trucks 22		Fig	ure 6. Distribution of Truck-Miles by Type of Fuel for Ranges of Operation: 1972	XVIII
1 Comparative Summary: 1963, 1967, and 1972 2 Trucks, Truck-Miles, and Average Miles, by Vehicle and Operational Characteristics		Fig	ure 7. Number of Trucks, Truck-Miles, and Average Miles, by Truck Size: 1972	XVIII
2 Trucks, Truck-Miles, and Average Miles, by Vehicle and Operational Characteristics 3 Sampling Variability of Data	ABLES:	United St	ates	
Trucks: Percent Distribution for—  Major Use Classes, by Vehicle and Operational Characteristics  Size Classes, by Vehicle and Operational Characteristics  Annual Mileage Classes, by Vehicle and Operational Characteristics  Ranges of Operation, by Vehicle and Operational Characteristics  Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics  Trucks: Distribution of Body Types by Load Size  Trucks: Distribution of Principal Products Carried, by Geographic Division and Major Use of Vehicle  Truck-Miles: Percent Distribution for—  Major Use Classes, by Vehicle and Operational Characteristics  Size Classes, by Vehicle and Operational Characteristics  Ranges of Operation, by Vehicle and Operational Characteristics  Ranges of Operation, by Vehicle and Operational Characteristics  Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics  Specialized Trucks: Trucks, Truck-Miles, and Average Miles by Vehicle and Operational Characteristics  Pickup Trucks  Panel Trucks		1	Comparative Summary: 1963, 1967, and 1972	1
Trucks: Percent Distribution for—  4 Major Use Classes, by Vehicle and Operational Characteristics 5 Size Classes, by Vehicle and Operational Characteristics 6 Annual Mileage Classes, by Vehicle and Operational Characteristics 7 Ranges of Operation, by Vehicle and Operational Characteristics 8 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics 9 Trucks: Distribution of Body Types by Load Size 10 Trucks: Distribution of Principal Products Carried, by Geographic Division and Major Use of Vehicle 11 Major Use Classes, by Vehicle and Operational Characteristics 12 Size Classes, by Vehicle and Operational Characteristics 13 Annual Mileage Classes, by Vehicle and Operational Characteristics 14 Ranges of Operation, by Vehicle and Operational Characteristics 15 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics 16 Specialized Trucks: Trucks, Truck-Miles, and Average Miles by Vehicle and Operational Characteristics 17 Panel Trucks 18 Panel Trucks		2	Trucks, Truck-Miles, and Average Miles, by Vehicle and Operational Characteristics	2
4 Major Use Classes, by Vehicle and Operational Characteristics 5 Size Classes, by Vehicle and Operational Characteristics 6 Annual Mileage Classes, by Vehicle and Operational Characteristics 7 Ranges of Operation, by Vehicle and Operational Characteristics 8 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics 9 Trucks: Distribution of Body Types by Load Size 10 Trucks: Distribution of Principal Products Carried, by Geographic Division and Major Use of Vehicle 11 Major Use Classes, by Vehicle and Operational Characteristics 12 Size Classes, by Vehicle and Operational Characteristics 13 Annual Mileage Classes, by Vehicle and Operational Characteristics 14 Ranges of Operation, by Vehicle and Operational Characteristics 15 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics 16 Specialized Trucks: Trucks, Truck-Miles, and Average Miles by Vehicle and Operational Characteristics for— 17 Panel Trucks 18 Panel Trucks 19 Panel Trucks 20 Panel Trucks 20 Panel Trucks 21 Panel Trucks 21 Panel Trucks		3	Sampling Variability of Data	5
5 Size Classes, by Vehicle and Operational Characteristics 6 Annual Mileage Classes, by Vehicle and Operational Characteristics 7 Ranges of Operation, by Vehicle and Operational Characteristics 8 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics 9 Trucks: Distribution of Body Types by Load Size 10 Trucks: Distribution of Principal Products Carried, by Geographic Division and Major Use of Vehicle 11 Major Use Classes, by Vehicle and Operational Characteristics 12 Size Classes, by Vehicle and Operational Characteristics 13 Annual Mileage Classes, by Vehicle and Operational Characteristics 14 Ranges of Operation, by Vehicle and Operational Characteristics 15 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics 16 Specialized Trucks: Trucks, Truck-Miles, and Average Miles by Vehicle and Operational Characteristics for— 17 Panel Trucks 18 Panel Trucks 19 Panel Trucks 20 Panel Trucks 21 Panel Trucks 22 Panel Trucks 23 Panel Trucks 24 Panel Trucks 25 Period Panel Trucks 26 Panel Trucks 26 Period Panel Trucks 27 Panel Trucks 27 Panel Trucks			Trucks: Percent Distribution for—	1
Annual Mileage Classes, by Vehicle and Operational Characteristics Ranges of Operation, by Vehicle and Operational Characteristics Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics Trucks: Distribution of Body Types by Load Size Trucks: Distribution of Principal Products Carried, by Geographic Division and Major Use of Vehicle Truck-Miles: Percent Distribution for— Major Use Classes, by Vehicle and Operational Characteristics Size Classes, by Vehicle and Operational Characteristics Annual Mileage Classes, by Vehicle and Operational Characteristics Ranges of Operation, by Vehicle and Operational Characteristics Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics Specialized Trucks: Trucks, Trucks, Miles, and Average Miles by Vehicle and Operational Characteristics for— Pickup Trucks  22 Panel Trucks		4	Major Use Classes, by Vehicle and Operational Characteristics	(6
7 Ranges of Operation, by Vehicle and Operational Characteristics		5	Size Classes, by Vehicle and Operational Characteristics	(7
8 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics 9 9 Trucks: Distribution of Body Types by Load Size 11 10 Trucks: Distribution of Principal Products Carried, by Geographic Division and Major Use of Vehicle 11 11 Truck-Miles: Percent Distribution for— 12 Major Use Classes, by Vehicle and Operational Characteristics 11 12 Size Classes, by Vehicle and Operational Characteristics 11 13 Annual Mileage Classes, by Vehicle and Operational Characteristics 12 14 Ranges of Operation, by Vehicle and Operational Characteristics 15 15 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics 15 15 Specialized Trucks: Trucks, Truck-Miles, and Average Miles by Vehicle and Operational Characteristics 15 16 Pickup Trucks 22 17 Panel Trucks 22		6	Annual Mileage Classes, by Vehicle and Operational Characteristics	8
9 Trucks: Distribution of Body Types by Load Size		7		9
Trucks: Distribution of Principal Products Carried, by Geographic Division and Major Use of Vehicle		8	Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics	9
Truck-Miles: Percent Distribution for—  11 Major Use Classes, by Vehicle and Operational Characteristics		9	• •• •	11
Truck-Miles: Percent Distribution for—  11 Major Use Classes, by Vehicle and Operational Characteristics		10		4.5
11 Major Use Classes, by Vehicle and Operational Characteristics			of Vehicle	12
Size Classes, by Vehicle and Operational Characteristics  Annual Mileage Classes, by Vehicle and Operational Characteristics  Ranges of Operation, by Vehicle and Operational Characteristics  Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics  Specialized Trucks: Trucks, Truck-Miles, and Average Miles by Vehicle and Operational Characteristics for—  Pickup Trucks  Panel Trucks  22			Truck-Miles: Percent Distribution for—	
13 Annual Mileage Classes, by Vehicle and Operational Characteristics		11	Major Use Classes, by Vehicle and Operational Characteristics	16
13 Annual Mileage Classes, by Vehicle and Operational Characteristics		12		(17
14 Ranges of Operation, by Vehicle and Operational Characteristics		13		18
15 Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics		14		19
Characteristics for—         2°           16 Pickup Trucks         2°           17 Panel Trucks         2°		15		19
17 Panel Trucks				
17 Panel Trucks		16	Pickup Trucks	21
		17	•	22
		18		23

### CONTENTS—Continued

Trucks by Weight Class: Trucks, Truck-Miles, and Average Miles by Geographic Division and State for—  19 Light Trucks 20 Medium Trucks 21 Light-Heavy Trucks 22 Heavy-Heavy Trucks  Trucks by Major Use: Trucks, Truck-Miles, and Average Miles by Geographic Division and State for—  23 Personal Transportation 24 Agriculture 25 Construction 26 Manufacturing 27 Wholesale and Retail Trade 28 Services 29 For Hire	29 30
20 Medium Trucks 21 Light-Heavy Trucks 22 Heavy-Heavy Trucks  Trucks by Major Use: Trucks, Truck-Miles, and Average Miles by Geographic Division and State for— 23 Personal Transportation 24 Agriculture 25 Construction 26 Manufacturing 27 Wholesale and Retail Trade 28 Services	25 26 27 28 29 30
Light-Heavy Trucks Heavy-Heavy Trucks Trucks by Major Use: Trucks, Truck-Miles, and Average Miles by Geographic Division and State for— Personal Transportation Agriculture Construction Manufacturing Wholesale and Retail Trade Services	26 27 28 29 30
Trucks by Major Use: Trucks, Truck-Miles, and Average Miles by Geographic Division and State for—  Personal Transportation  Agriculture  Construction  Manufacturing  Wholesale and Retail Trade  Services	28 29 30
Trucks by Major Use: Trucks, Truck-Miles, and Average Miles by Geographic Division and State for—  23 Personal Transportation	28 29 30
and State for—  23 Personal Transportation	29 30
24 Agriculture	29 30
24 Agriculture	29 30
25 Construction	30
26 Manufacturing	100
27 Wholesale and Retail Trade	31
28 Services	32
	33
	34
	_
30 Utilities	35
Trucks by Range of Operation: Trucks, Truck-Miles, and Average Miles by Geographic Division and State for—	
31 Local	36
32 Short Range	37
33 Long Range	38
[Page numbers listed here omit the State prefix number that appears as part of the number for each page]	1
1 Comparative Summary: 1963, 1967, and 1972	
2 Trucks, Truck-Miles, and Average Miles, by Vehicle and Operational Characteristics: 1972	2
3 Sampling Variability of Data	5
4 Trucks - Percent Distribution of Major Use Classes, by Vehicle and Operational Characteristics: 1972	6
5 Trucks - Percent Distribution of Size Classes, by Vehicle and Operational	
Characteristics: 1972	7
6 Trucks - Percent Distribution of Annual Mileage Classes, by Vehicle and	
Operational Characteristics: 1972	8
7 Trucks - Percent Distribution of Ranges of Operation, by Vehicle and Operational Characteristics: 1972	9
8 Trucks - Percent Distribution of Truck Types and Axle Arrangements, by	9
Vehicle and Operational Characteristics: 1972	
APPENDIXES	
A Facsimile of Questionnaire	A1
B Expected Sample Size and Distributions	B1
	C1
C Size Classification of Vehicles	
C Size Classification of Vehicles	D1

# INTRODUCTION

#### **GENERAL**

This volume presents data based on the 1972 Truck Inventory and Use Survey and contains the data previously issued in the paperback reports for each of the 50 States, the District of Columbia, and the United States as a whole (U.S. Summary).

The Truck Inventory and Use Survey is one of the surveys included in the 1972 Census of Transportation. This census was also undertaken in 1963 and 1967. The next census is scheduled, by law, for the data year 1977.

#### SCOPE AND PURPOSE

The primary purpose of this survey is to collect and publish data on the characteristics and use of the Nation's truck resources, other than vehicles owned by Federal, State, and local government agencies. The data presented in this report are based on a probability sample of private and commercial trucks registered (or licensed) in each State<sup>2</sup> during 1972.

#### "TRUCK" AS A UNIT OF MEASURE

The term "truck" in this report is used in its commonly accepted sense as being a property-carrying motor vehicle used on public highways and streets. In a technical sense, a truck may be a "single-unit truck" or it may be a "combination." The latter consists of a power unit (a "truck-tractor") and one or two trailing units (most commonly a "semitrailer"). The most frequently used combination is popularly referred to as a "tractor-semitrailer" or a "tractor-trailer."

#### "TRUCK-MILES" AS A UNIT OF MEASURE

The owner of each truck in the sample was asked to report the total miles that the specified vehicle had been driven during the preceding 12 months. Column 2 of table A is based on those replies and shows aggregate truck-miles operated by the trucks shown in the first column. These estimated mileages are attributed to the *State of registration*, irrespective of the area in which the vehicle was actually operated. This assign-

<sup>1</sup>The 1972 Census of Transportation consists of 3 major phases: (1) Truck Inventory and Use Survey, (2) National Travel Survey, and (3) Commodity Transportation Survey, in a broader context, the Census of Transportation is a part of the 1972 Economic Censuses, which also includes the censuses of manufactures, mineral industries, wholesale and retail trade, service industries, and construction.

ment of aggregate miles to State of registration, doubtless, is one of the major causes of State-to-State differences in average miles per truck shown in column 3 of table A.

#### **TOTAL TRUCK INVENTORY**

The Federal Highway Administration collects and publishes data on the total number of trucks registered annually in each State. Those data are used in this report to be the total inventory. Following are the total inventory figures for the United States (rounded to thousands) of private and commercial trucks in scope to this survey.

1963-12,726	registrations
1967-15,360	registrations
1970-17,790	registrations
1971-18,850	registrations
1972-19 7453	registrations

#### **COMPARISONS WITH PREVIOUS SURVEYS**

Although the basic purpose and scope of the 1963, 1967, and 1972 surveys were essentially identical, some changes were introduced both in 1967 and 1972.

Differences between 1967 and 1972 data can be classified as (1) changes that may affect all data or (2) changes that may affect a specific item, for example:

- 1. Changes that affect all data in this report
  - (a) A more effective method of sampling by size of truck within each State (second stratification) was employed making the sample design more efficient and reducing the sampling variability for many items. Although the U.S. sample size remained unchanged, the allocation among the States (first stratification) was slightly modified to improve the reliability of data for smaller States.
  - (b) A more extensive item-by-item computer edit program was used in conjunction with manual review of selected "must" items for questionnaires received.
  - (c) Data for body type, item 11, and subsequent items<sup>4</sup> were not gathered for pickup and panel trucks in 1967. Pickups and panels are included in all data tables in 1972.

<sup>&</sup>lt;sup>2</sup> Some privately or commercially owned vehicles are not required to be licensed, such as "off-highway" vehicles and trucks used exclusively on private property. Since they had no chance of being drawn in the sample, they are not represented.

 $<sup>^{3}\,\</sup>textsc{Estimated}$  number used to produce more timely reports. See appendix D for revised FHWA total truck inventory data.

<sup>&</sup>lt;sup>4</sup> See copy of Census Form TC-200, "Truck Inventory and Use Survey," in appendix A for specific information requested for each truck in the sample.

Table A.—Trucks, Truck-Miles, and Average Miles by Geographic Division and State: 1972

Division and State	Trucks	Truck- miles	Average miles per truck		Truck- miles	Division and State	Trucks	Truck- miles	Average miles per truck		Truck- miles
	(1,000)	(millions)	(1,000)	(percent)	(percent)	230 0000	(1,000)	(millions)	(1,000)	(percent)	(percent)
United States	19,745	244,492	12.4	100.0	100.0	S. Atlantic—Con.					
						Virginia	395	4,955	12.5	2.1	2.1
New England	655	8,423	12.9	3.4	3.5	West Virginia	201	2,105	10.5	1.1	.9
Maine	104	1,269	12.2	.6	.6	North Carolina .	600	8,361	13.9	3.1	3.5
New Hampshire	57	714	12.5	.3	.3	South Carolina .	257	3,289	12.8	1.4	1.4
Vermont	43	539	12.5	.3	.3	Georgia	560		12.8	2.9	3.0
Massachusetts .	249	3,332	13.4	1.3	1.4	Florida	622	9,288	14.9	3.2	3.8
Rhode Island	56	743	13.3	.3	.4						
Connecticut	146	1,827	12.5	.8	.8	East South					
				1000000		Central	1,587	20,177	12.7	8.1	8.3
Middle Atlantic	1,759	21,865	12.4	9.0	9.0	Kentucky	422	4,798	11.4	2.2	2.0
New York	659	7,489	11.4	3.4	3.1	Tennessee	424	5,410	12.8	2.2	2.3
New Jersev	335	4,337	12.9	1.7	1.8	Alabama	441	5,875	13.3	2.3	2.5
Pennsylvania	765	10,040	13.1	3.9	4.2	Mississippi	300	4,094	13.6	1.6	1.7
East North						West South					
Central	2,928	35,604	12.2	14.9	14.6	Central	2,881	40,166	13.9	14.6	16.5
Ohio	668	8,887	13.3	3.4	3.7	Arkansas	320	3,975	12.4	1.7	1.7
Indiana	553	6,253	11.3	2.9	2.6	Louisiana	390	5,267	13.5	2.0	2.2
Illinois	695	7,722	11.1	3.6	3.2	Oklahoma	527	7,386	14.0	2.7	3.1
Michigan	677	8,975	13.3	3.5	3.7	Texas	1,644	23,538	14.3	8.4	9.7
Wisconsin	335	3,768	11.2	1.7	1.6	100					
***************************************						Mountain	1,585	17,511	11.0	8.1	7.2
West North			1			Montana	183		8.4	1.0	.7
Central	2.462	25,038	10.2	12.5	10.3	Idaho	151		10.0	.8	.7
Minnesota	466	4,648	10.0	2.4	2.0	Wyoming	92	The second second	10.9	.5	.5
lowa	405	4,476	11.1	2.1	1.9	Colorado	374		11.6	1.9	1.8
Missouri	560	6,092	10.9	2.9	2.5	New Mexico	196		11.2	1.0	.9
North Dakota .	165	1,209	7.3	9.9	.5	Arizona	297		12.7	1.6	1.6
South Dakota .	139	1,392	10.0	.8	6.	Utah	203		1/	1.1	1.0
Nebraska	285	2,987	10.5	1.5	1.3	Nevada	89			.5	.4
Kansas	442	4,234	9.6	2.3		IACAGNG	"	310	10.2		
Val1909	442	4,234	3.0	2.3		Pacific	2,922		. 12.3	14.9	14.8
South Atlantic	2,970	39,818	13.4	15.1	16.3	Washington	508	5,028	9.9	2.6	2.1
Delaware	51	1,061	20.8	.3	.5	Oregon	253	2,996	11.8	1.3	1.3
Maryland	269	3,425	12.7	1.4	1.5	California		27,014	13.1	10.5	11.1
District of	/	1 - 0.00	Value of the	(0)		Alaska			9.3	.3	.2
Columbia	15	178	11.9	.1	.1	Hawaii	48		1 10 1	.3	

NOTE: Detail may not add to totals due to rounding.

#### 2. Changes in 1972 for specific items<sup>4</sup>

- (a) Item 2, Ownership of vehicle—The 1967 survey form requested that the owner complete the questionnaire only if he was the owner of record as of a certain date. In 1972, the respondent was asked to complete the form even if he was no longer the owner, since he should still have knowledge of the truck's characteristics and use.
- (b) Item 3, Acquisition of vehicle—The 1967 form did not obtain "year purchased" if purchased used. This information was obtained in the 1972 survey.
- (c) Item 8, Principal products carried—This item has been expanded from 13 to 20 categories to permit more detail product information which is more readily related to the major industry groups (2 digit basis) of the Standard Industrial Classification (SIC).
- (d) Item 9, Pickup, panel, multistop, and walk-in—Multistop and walk-in were not included in this question in 1967.
- (e) Item 15, Cab type-This is a new item in 1972.
- (f) Item 11, Type and size of body; item 13, Axle arrangement; and item 19, Number of trucks in fleet—These items have been slightly expanded to provide additional information.

Preliminary analyses indicate that many of the differences between 1963, 1967, and 1972 may be attributable to technical factors of the type mentioned above, although most reflect significant actual changes. (See table 1) Some of the differences also may be explained by sampling variability, discussed below. Table 1 contains a summary of essentially comparable data for 1963, 1967, and 1972.

#### **DEFINITIONS OF MAJOR TERMS**

Most of the characteristics shown in the tables are self explanatory; however, some terms require definition:

Size Class. Classification by gross vehicle weight; i.e., the empty weight of the vehicle plus the maximum anticipated load weight. In States where the registration was other than in gross vehicle weight, the size class was assigned based on the truck characteristics of body size and type and axle arrangement.<sup>5</sup>

The four size classes are defined as follows:

Light.-Gross vehicle weight of 10,000 pounds or less

Medium.-Gross vehicle weight of 10,001 to 20,000 pounds

Light-heavy.—Gross vehicle weight of 20,001 to 26,000 pounds

Heavy-heavy.—Gross vehicle weight of 26,001 pounds or more

Major Use is based on the answer to the question, "How was the vehicle mostly used during the past 12 months?" Each of the 11 use categories (see item 7 of the survey form, appendix A) conforms with the generally accepted meaning of the terms. "Personal transportation" and "for-hire transportation" were defined in detail, however.

Truck Fleet Size is based on the number of trucks (single-unit trucks plus truck-tractors) operated by a truck owner from a single "base of operation" as reported in item 4 of the survey form in appendix A. The fleet is an operational unit and is necessarily smaller than the total fleet that an owner has, if he operates from more than one base. The data shown in the fleet section of the tables are based on the number of trucks found in fleets of specified size and not the number of fleets.

Area of Operation, classified into three categories:

Local.—Mostly in the local area (in or around the city and suburbs, or within a short distance of the farm, factory, mine, or place vehicle is stationed)

Short range.—Mostly over-the-road (beyond the local area) but usually not more than 200 miles one way to the most distant stop from the place vehicle is stationed

Long range.—Mostly over-the-road trips that usually are more than 200 miles one way to the most distant stop from the place vehicle is stationed

#### **SAMPLE DESIGN**

The Truck Inventory and Use Survey at the national level was based on a stratified probability sample of about 114,000 trucks<sup>6</sup> drawn from an estimated 19.7 million registrations on file with motor vehicle departments in the 50 States and the District of Columbia, at the time the sample was drawn.

<sup>&</sup>lt;sup>4</sup>See footnote on page VII.

<sup>&</sup>lt;sup>5</sup> See appendix C.

<sup>&</sup>lt;sup>6</sup> Technically, the licenses or registrations sampled were those for single-unit trucks and for truck-tractors. Registrations for trailers or other nonpowered property-carrying highway vehicles were either not sampled, or (if not recognized in advance) were treated as "out of scope" in the subsequent processing.

State Stratification.—The first stratification of the national sample was at the State level, and consisted of three strata based on the total number of trucks registered annually. A sample of about 2,000 truck licenses or registrations was drawn in the small States, 3,000 in the intermediate, and 4,000 in the largest States. Specific target sample sizes by State are in appendix B.

Size of Truck Stratification Within Each State.—The second stratification was based on vehicle size as shown by the motor vehicle registration record. Two vehicle size strata were used—"small" and "large." The dividing line between small and large trucks was 16,000 pounds gross vehicle weight or its equivalent if trucks were registered on another basis. About one-fifth of the registration records were from the small-truck stratum and four-fifths of the registration records were from the large-truck stratum. These were selected systematically from a random start.

#### **SURVEY METHOD**

A copy of form TC-200 was mailed to the owner of each truck drawn in the sample. The vehicle was identified on the form, prior to mailing, by inserting in item 1 (vehicle identification) the vehicle make, year model, registered weight, and license number shown on the sampled motor vehicle registration record. The owner was requested to reply only for the identified truck or combination irrespective of other vehicles he may own or have owned. The sample was expanded back to State levels by weighting each truck by the reciprocal of the sampling rate (adjusted for nonresponse) used to select it from the State vehicle registration records, and adjusting to the Federal Highway Administration's estimated universe State total. The State data are then summed for U.S. totals.

#### **NON-SAMPLING ERRORS**

Systematic quality control techniques were used to minimize processing errors. Replies were received from 92 percent of the respondents contacted and the response rate was high for most of the major questions. The general quality of response also was good, as judged by the consistency among answers to various items on the form and the apparent reasonableness of replies. Imputation was accomplished for annual vehicle miles and vehicle size class (see appendix C). An extensive clerical and computer edit program helped to identify incomplete and erroneous responses.

#### Response Table

Trucks in gross sample	113,126
Less out-of-scope trucksdo	2,118
Trucks in net sampledo	111,008
Less PMR's <sup>1</sup> do	2,548
Potential respondentsdo	108,460
Less nonresponse	8,770
Responsedo	99,690
Response:	
Percent of net samplepercent	90
Percent of potential respondentsdo	92

<sup>&</sup>lt;sup>1</sup> Postmaster returns or respondents not contacted.

#### SAMPLING VARIABILITY

The figures shown in this report are based on a sample and are, therefore, subject to sampling variability, as shown for selected items in table 3. Sampling variability is presented here as one standard error of the estimate which is a percent (proportion). One standard error of the proportion is computed by the conventional method with necessary modifications to reflect the sample design. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and the results that would have been obtained from a complete enumeration of all vehicles.

The chances are about 2 out of 3 that the reported figure (column 1) will not differ from the figure that would have been obtained from a complete count by more than one standard error shown in column 2 of table 3.

For example, say 77.6 percent of the total trucks are shown to be a particular type or have particular characteristics. This figure would be found in column 1 of table 3 and would be based on the sample. Also, say column 2 of table 3 shows that the estimated sampling variability for that item is about .8 percentage points. Therefore, if a complete count (rather than a sample) had been made, the chances are about 2 out of 3 that the figure would not have been larger than 78.4 or smaller than 76.8 (i.e., 77.6 plus or minus .8).

The chances are about 19 out of 20 that the results of a complete enumeration would not differ from the sample by more than two standard errors shown in column 2 of table 3. Again using the above example, the chances are 19 out of 20 that the figure (77.6) would not be more than 79.2 or less than 76.0 (77.6 plus or minus 1.6) in a complete enumeration.

Difference Between Two Items.—The question sometimes arises about the sampling variability of the difference between

 $<sup>^{7}\</sup>mbox{The terms "small" and "large" were used only in connection with stratification, and should not be confused with the vehicle size classes shown in the tabulations. See appendix B,$ 

two specified percentages. The variability of the difference, for most pairs of percentages, will be close to the square root of the sum of squares of the sampling variability of the two items. (When the two percentages are negatively correlated, the variability of the difference will be larger; and when positively correlated, will be smaller).

To illustrate by a simple example: Assume that item "A" is 10.2 percent and item "B" is 7.1 percent of the total, and the question is raised as to what the difference would have been if a complete count had been taken; assume that the sampling variability for item "A" was 0.4 and for item "B" was 0.8. The square root of the sum of the squared standard error of the two items would be  $\sqrt{(0.4)^2+(0.8)^2}$  which is plus or minus 0.9.

As indicated in the example, the difference shown by the sample was 3.1 percent and the one standard error was 0.9. This would be interpreted to mean that the chances are about 2 out of 3 that the difference between "A" and "B" as shown by a complete enumeration would be between 2.2 percent and 4.0 percent (3.1 plus or minus 0.9); and the chances are 19 out of 20 that the difference would be between 1.3 percent and 4.9 percent (3.1 plus or minus 1.8).

This procedure applies equally to differences between items within a single State as well as to differences between similar items in different States.

As derived, the estimated standard errors include part of the effect of the errors. The total error, which depends upon the joint effect of the sampling and nonsampling errors, is usually of the order of size indicated by the standard error, or only moderately higher. For particular estimates, however, the total error may considerably exceed the standard errors shown.

Variability for Items Not Shown in the Table.—Table 3 is confined to selected major items covered in the survey. The sampling variability of subitems tends to be substantially larger than for the major items with which they are associated.

Minimum Reliability.—Data are shown in proportions only when total of the line or column distributed contains 100 or more actual observations.

#### **SUMMARY OF FINDINGS**

It should be emphasized that all comparisons of data are in terms of the point estimates generated from the respective sample-survey data. Since each estimate is subject to sampling and non-sampling errors, difference between estimates may not be statistically significant at a specified sigma level (level of confidence). See preceding section on Sampling Variability,

especially the section entitled "Difference Between Two Items" for a discussion of the effect of potential error in the data, and table 3 for specific estimates of sampling variability.

About 19.7 million private and commercial trucks were registered in the United States during 1972. They were driven about 244 billion truck-miles during the year, and averaged 12.4 thousand miles per truck, as shown by table A. California and Texas were the leading States, having 10.5 and 8.4 percent of the national total number of vehicles and 11.1 and 9.7 percent of the total truck-miles, respectively.

About 41 percent of all trucks were used mainly for "personal transportation," defined as being used in place of an automobile to go from home to work, for outdoor recreation, camping, etc. This represents an increase of 8 percent over 1967 and 16 percent over 1963. Slightly more than 8 million trucks were used mainly for this purpose, and were driven about 79 billion miles, as shown by table 2. Agricultural use and wholesale and retail trade ranked second and third with 4.3 and 1.9 million trucks, respectively. However, their relative positions were reversed in terms of truck-miles, because the annual average mileage per wholesale-retail truck was about twice the average for agricultural trucks. The relative use of trucks in agriculture has declined from 28 percent in 1963 and 24 percent in 1967 to 22 percent in 1972.

Seventy-three percent of all private and commercial trucks in the Nation are pickup and panel. These are small general-purpose vehicles. They are used almost exclusively for personal transportation and represent a substantial amount of the total trucks used in agriculture, construction, utilities, and services. They also are found in large numbers in all other major use classes, even in for-hire trucking, as shown by table 4.

Intensity of use, as implied by annual miles per vehicle, was greatest for "for-hire" trucks (table 2). For-hire trucks averaged 38.4 thousand miles per year, as compared with 12.4 thousand for all trucks combined, and 8.7 thousand for agricultural trucks. Newer trucks tend to be operated longer mileages, than older vehicles, ranging from 18.8 thousand miles per vehicle for the 1971-72 models down to 6.7 thousand miles for the pre-1963 models. The light, medium, and light-heavy size trucks each average about 10 thousand miles per year as compared with 34.7 thousand for the heavy-heavy size class.

Since the operational and use characteristics of pickup and panel trucks differ substantially from other vehicle types, two sets of data are shown in table 2. The first set is based on total trucks as discussed in the preceding paragraphs. The second set is based on total trucks excluding pickup and panel, and presents summary profiles of the total truck inventory exclusive of those two specific vehicle types. The effect of

<sup>&</sup>lt;sup>8</sup> See copy of Census Form TC-200, "Truck Inventory and Use Survey," in appendix A for specific information requested for each truck in the sample.

Figure 1. Distribution of Commercial and Private Motor Truck Registration: 1972

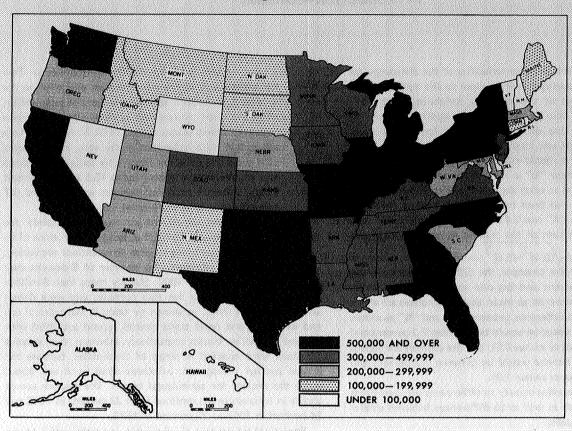
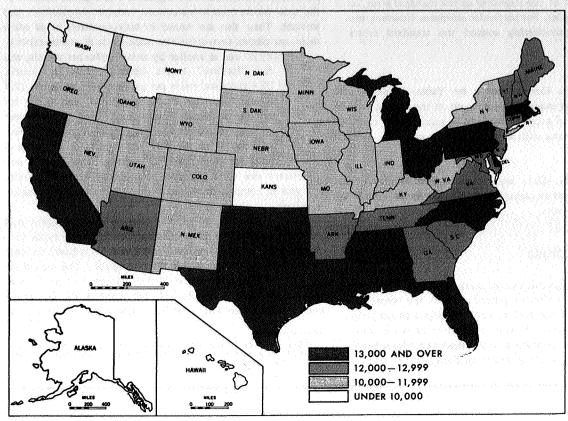


Figure 2. Average Annual Miles per Truck for Each State: 1972



excluding pickup and panel trucks was to reduce the total truck inventory from 19.7 million to an estimated 5.3 million and reduce the total truck-miles from 244 billion to 89 billion. In that universe of larger trucks, for-hire trucking generated the most truck-miles (28.3 billion) followed by wholesale-retail trade with 18.6 billion truck-miles. Together, these two use classes account for more than half of the truck-miles.

Increase in Numbers of Trucks.—Truck use since 1963 (the year of the first Truck Inventory and Use Survey), has increased significantly. The number of States with over 500,000 trucks registered has increased from 4 in 1963, to 6 in 1967, and to 14 in 1972. Conversely, the number of States with less than 100,000 trucks registered has decreased from 11 in 1963, to 10 in 1967, and to 9 in 1972.

196	67	1972	
_			
4	6	1	14
0	15		13
2	8		8
4	12		7
1	10		9
1	12 14 11	14 12	14 12

Intensity of Use.—Total truck-miles has also undergone a considerable increase. This increase in total miles driven since 1963 is greater than the increase in total trucks registered, indicating more intensive usage as measured by average annual miles per truck. Only 15 States had a truck population which averaged 12,000 miles or more per truck in 1967, while in 1972, it is estimated that 26 of the States had truck populations that exceeded a 12,000 annual mile average. Conversely, the number of States with average truck annual miles of 10,000 or less decreased from 16 in 1967, to only 6 in 1972.

Number of States				
1967	1972			
15	26			
20 16	19 6			
	1967 15 20			

Type of Fuel Used.—Overall, 88 percent of the trucks in the United States use gasoline as a power medium, and 4 percent use diesel or LPG. No answers were obtained for 8 percent of

the sampled trucks. A different distribution is obtained when appraising combinations (mostly truck-tractors and trailers), as opposed to single-unit trucks. Only 9 percent of the 5-axle combinations use gasoline while 87 percent use diesel as fuel. Conversely, it is estimated that only 2 percent of the single-unit trucks use diesel fuel or LPG.

Percent Distribution of Trucks and Truck-Miles by Fuel Used (1972)

Truck type	Total	Gas	Diesel or LPG	No answer
TRUCKS			4 1 1	
Total trucks	100	88	4	8
Single-unit (2 and 3 axle) Combination:	100	91	2	8
3 axle	100	68	28	4
4 axle	100	46	49	5
5 axle	100	9	87	4
TRUCK-MILES				e !
Total truck-miles	100	77	17	7
Single-unit (2 and 3 axle) Combination:	100	90	3	8
3 axle	100	50	47	3
4 axle	100	28	68	4
5 axle	100	4	93	.4

An even greater percentage of the *truck-miles* was contributed by trucks using diesel fuel particularly when comparing combinations. Forty-seven percent of the 3 axle, 68 percent of the 4 axle, and 93 percent of the 5 axle combinations used diesel fuel while the respective totals for the percent of *trucks* was 28, 49, and 87 percent. The larger the unit, the greater the tendency toward diesel fuel use, and also the greater the miles driven. Although only 4 percent of the total U.S. truck inventory uses diesel or LPG fuel, these trucks account for 17 percent of the miles.

The percentages of trucks and truck-miles of vehicles used primarily for local, short, and long hauls (range of operation)<sup>9</sup> also reflect the tendency for longer-haul vehicles to use diesel fuel. It is apparent that an even greater percentage of vehicle miles accrues to trucks using diesel fuel the longer the range of operation. Whereas 95 percent of the trucks used locally consumed gasoline and only 2 percent used diesel/LPG, an almost equal number of the long-haul vehicles was found in each fuel use classification.

<sup>&</sup>lt;sup>9</sup>See definition on page IX.

#### Percent Distribution of Range of Operation for Trucks and Truck-Miles by Fuel Used (1972)

Range of operation	Total	Gas	Diesel or LPG	No answer
TRUCKS				
Total trucks	100	88	4	8
Area of operation:				
Local	100	95	2	3
Short range	100	82	15	3
Long range	100	50	46	4
TRUCK-MILES				
Total truck-miles	100	77	17	7
Area of operation:			1	
Local	100	93	5	3
Short range	100	65	32	3
Long range	100	17	80	3

Trucks which were operated mostly in the local area using gasoline accounted for 93 percent of that group's truck-miles.

However, 80 percent of the truck-miles of long haul trucks (those driven mostly over the road to destinations over 200 miles) were operated on diesel fuel.

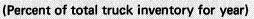
#### ARRANGEMENT OF TABLES

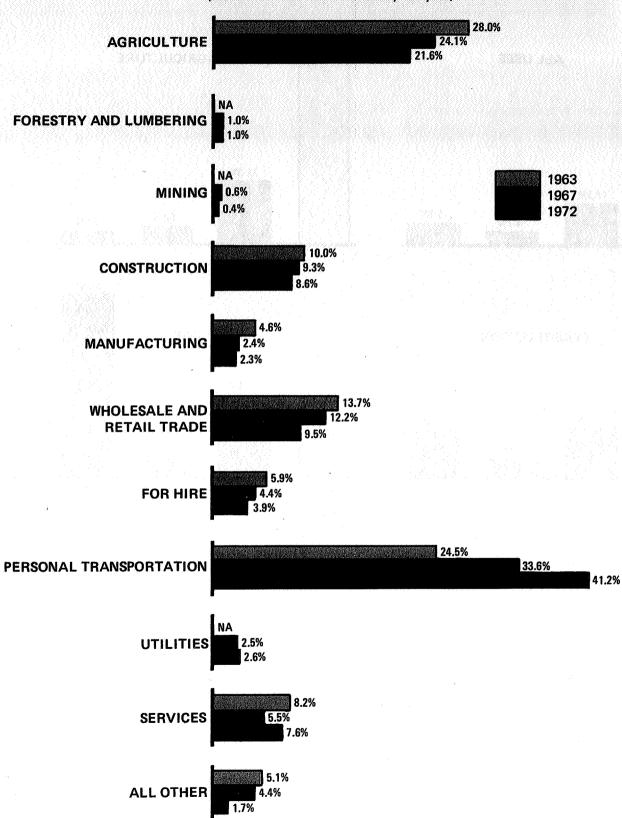
The tabular presentation has been arranged into three broad sections. The first section deals with various cross-classifications mostly at the National level. It also is divided into three subsections, based on number of trucks (tables 4 to 10), truck-miles (tables 11 to 15), and a special group of tables on pickup and panel trucks (tables 16 to 18).

The second section presents comparative data on the number of trucks, truck-miles, and average miles per truck in each of the 50 States and the Nation as a whole. That section is further divided into three subsections based on size of truck (tables 19 to 22), major occupational use (tables 23 to 30), and range of operation (tables 31 to 33).

The third section presents tabulations for each of the 50 States and the District of Columbia. Data include trucks, truck-miles, and average miles per truck for each State and cross classifications by vehicle and operational characteristics based on the total truck registrations for each State.

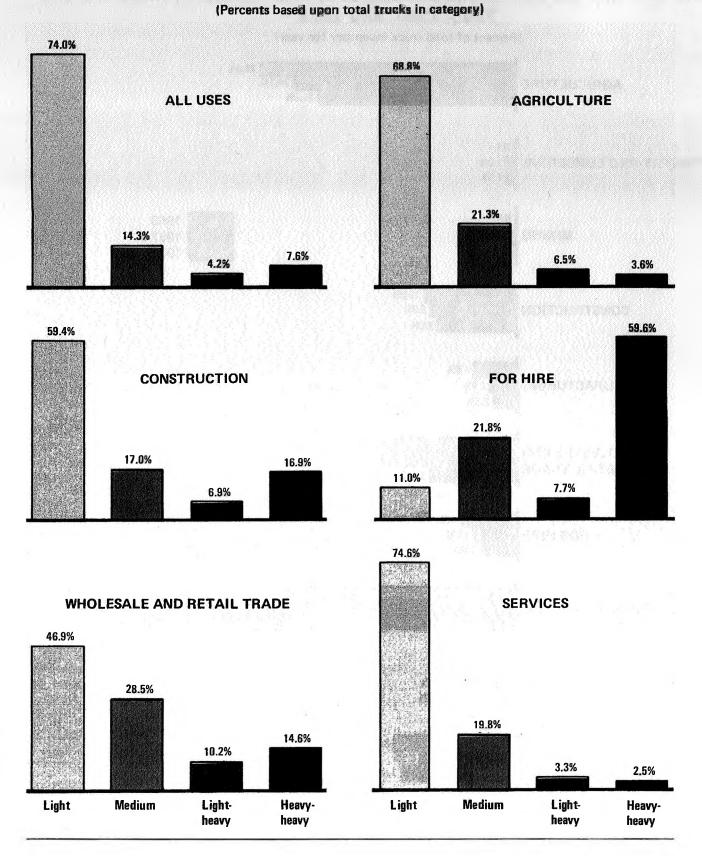
Figure 3. — Comparison of Relative Shares of Total Trucks by Major Use: 1963, 1967, and 1972





Source: Table 1.

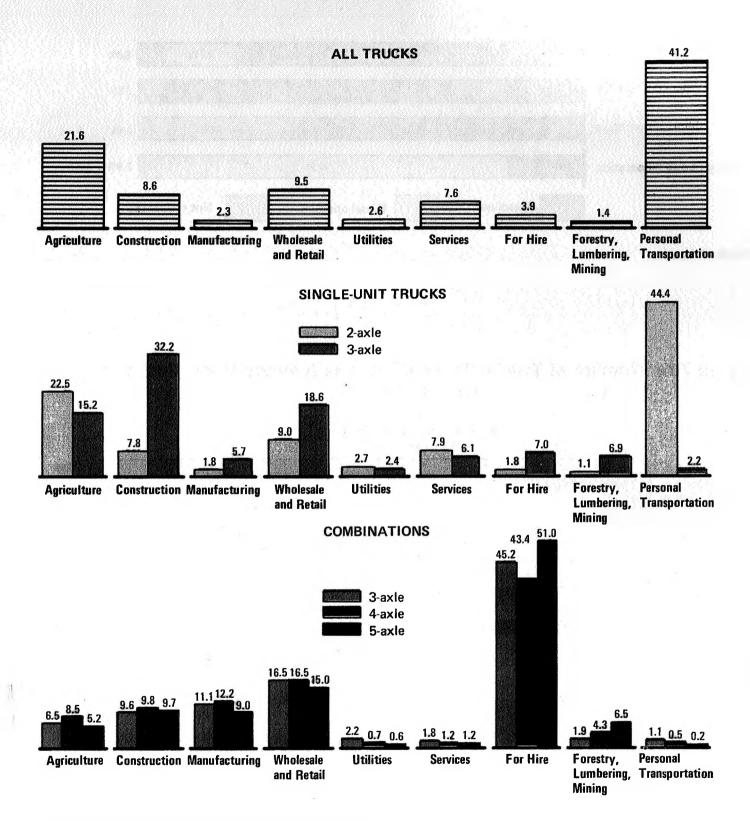
Figure 4. — Percent Distribution of Size of Truck for Major Uses: 1972



Source: Table 4.

Figure 5.— Percent Distribution of Major Uses for Truck Types: 1972

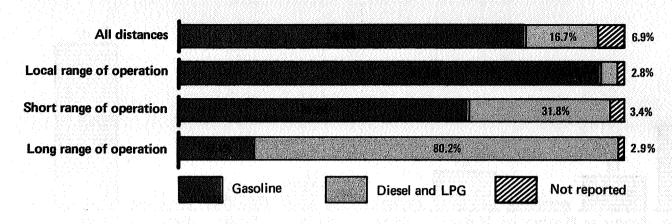
(Percents based upon total trucks in category)



Source: Table 8. ("All other" major use category not displayed)

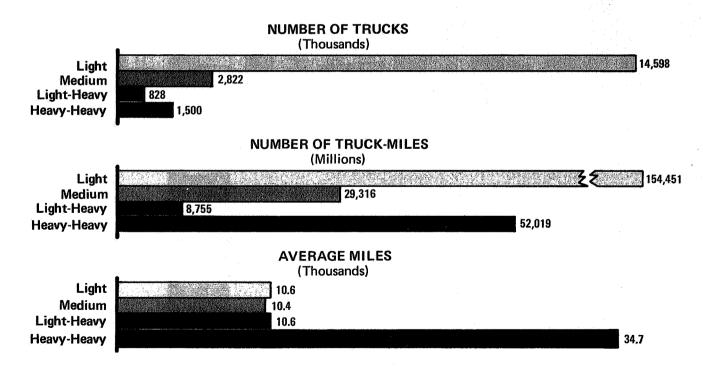
Figure 6. — Distribution of Truck-Miles by Type of Fuel for Ranges of Operation: 1972

(Percents based upon total truck-miles in category)



Source: Table 14

Figure 7. — Number of Trucks, Truck-Miles, and Average Miles, by Truck Size: 1972



Source: Table 2.

XVIII

U. S. DEPARTMENT OF COMMERCE—Social and Economic Statistics Administration—BUREAU OF THE CENSUS

**TABLE 1. Comparative Summary: 1963, 1967, and 1972** 

(tem	1963	1967	1972	Item	1963	1967	1972
Total trucks	100.0	100.0	100.0	ACQUISITION			
MAJOR USE				Purchased new	(*)	42.7	42.
MIGON GDD				Purchased used	(*)	54.6	55.
griculture	59.1	51.7	52.1	Leased and not reported	(*)	2.7	2.
orestry and lumbering	-		_	Louison and Love coper contribution	` `		
ining	_		_				
onstruction	4.9	5.7	5.1	TRUCK FLEET SIZE			
anufacturing	1.8	_	.7				
holesale and retail trade	7.6	6.8	6.5	1 truck	81.2	52.1	54.
or hire	4.0	2.2	1.7	2 to 5 trucks	13.1	24.4	37
ersonal transportation	16.7	25.3	26.4	6 to 19 trucks	4.7	4.6	6
tilities and services	4.4	3.8	5.9	20 trucks or more	1.0	2.1	2
ll other	1.5	4.5	1.5	Not reported		16.8	
	4.0	1.0				20.0	
BODY TYPE				murar p muns			
				VEHICLE TYPE3			
ickup, panel, multistop, or walk-in	65.7	72.2	67.9	Ote -1 - weit towards			
latform and cattlerack	26.1	18.3	23.6	Single-unit trucks	(*)	90.6	97
ans	3,3	1.8	1.5	2 axle	(*)	77.5	95
tility truck	-	-	-	3 axle	(*)	13.1	.2
ole or logging			. <del>-</del> 1	Combinations	(*)	9.4	2
ump truck	1.2	1.7	1.4	3 axle	(*)	1.0	_
ank truck (liquid and dry)ll other	3.1	2.0 4.0	2.1 3.3	4 axles or more	(*)	8.4	1
SIZE CLASS	••	,,,,		RANGE OF OPERATION <sup>3</sup>			
ight			<b>5</b> 0.5	Ioca1	20.0	20.0	79.
edium	70.2 9.5	77.1 14.0	70.5 23.1	Short range	68.6	80.2	7
ight-heavy	17.1	5.0	23.1	Long range	9.4	3.5	2
eavy-heavy	3.2	3.9	3.6	Not reported	22.0	3.1	10
way wary many			3.0	Not repersed.	22.0	3.1	10.
ANNUAL MILES <sup>1</sup>				TYPE OF FUEL <sup>3</sup>			
ess than 5,000 miles	31.7	} <sub>270.3</sub>	33.5	Gasoline	98.2	92.2	90.
,000 to 9,999 miles	23.3	<b>ν</b> Ι	33.0	Diesel and LPG	.5	5.4	2.
0,000 to 19,999 miles	17.0	20.9	23.3	Not reported	1.3	2.4	7
0,000 to 29,999 miles	3.8	4.9	5.5	10.0 .20p02 0001111111111111111111111111111111			•
0,000 miles and over	4.5	3.9	4.6				
ot reported	19.7	-	-	MAINTENANCE <sup>3</sup>			
YEAR MODEL							
				Self or own repair shop	(*)	38.7	39
to 2 years old	12.5	12.1	12.9	Dealer or factory branch	(*)	21.6	18
to 4 years old	10.1	11.8	14.2	Independent garage	(*)	37.5	32
ver 4 years old	77.4	76.1	72.9	All other and not reported	(*)	2.2	9

A dash (-) indicates that

Note: Percents may not add to total due to rounding. \* Indicates no data was obtained. A dash (-) indicates there were not a significant number of trucks with this characteristic to display.

1For the 1967 and 1972 surveys, annual miles were imputed if not reported.

2For the 1967 survey, data were presented for "Less than 6,000 miles" (50.5 percent) and "6,000 to 9,999 miles" (19.8 percent)

percent).

3Data for 1967 do not include pickups and panels.

TABLE 2. Trucks, Truck-Miles, and Average Miles, by Vehicle and Operational Characteristics: 1972

	Numb	er of trucks and truc	k-miles	Number of trucks and truck-miles excluding pickups and panels			
Vehicle and operational characteristics	Trucks (thousands)	Truck-miles (millions)	Average miles per truck (thousands)	Trucks (thousands)	Truck-miles (millions)	Average miles per truck (thousands)	
Total	139	1,392	10.0	45	525	11.8	
MAJOR USE		. *					
Agriculture Forestry and lumbering	72	559 5	7.7 6.1	28	187	6.8	
Mining	I	_	_	-		( -	
Construction	7	83	11.6	5	52	11.4	
Manufacturing	1 9	27 148	26.9 16.4	1 5	25 91	35.3 18.0	
Wholesale and retail trade	2	131	54.6	2	124	59.9	
For hire Personal transportation	37	276	7.5	1	6	6.2	
Utilities	2	24	10.4	2	16	10.5	
Services	6	111	19.1	1	17	12.5	
All other	1	27	23.0	1	6	9.8	
BODY TYPE		 					
Pickup, panel, multistop, or walk-in	94	867	9.2				
Platform	14	106	7.6	14	106	7.6	
Platform with added device	2 17	25 150	10.4 9.1	17	25 150	10.4 9.1	
Cattlerack	1 -	-	J.1	-	-		
Insulated nonrefrigerated van Insulated refrigerated van	1	58	93.2	1	58	93.2	
Furniture van	-	_	<b>-</b> .	-	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Open top van			10.7		10	10 7	
All other vans	1	13	16.7	1	13	16.7	
Beverage truck					· ·		
Utility truck	3	44	13.7	3.	44	13.7	
Garbage and refuse collector	-	-	-	-	-	-	
Winch or crane	= :	-		-	-	_	
Wrecker		-	]		_		
Auto transport			-	_	_	_	
Dump truck	2	22	11.6	2	22	11.6	
Tank truck for liquids	.3	44	15.8	3	44	15.8	
Tank truck for dry bulk	1 [				_	_	
Concrete mixer	-	-	:	_	· -	-	
ANNUAL MILES							
Less than 5,000 miles	47	108	2.3	21	50	2.4	
5,000 to 9,999 miles	46	300	6.5	10	65	6.4	
10,000 to 19,999 miles	32	399	12.3	7	94	12.6	
20,000 to 29,999 miles	8	170	22.2	2	50	23.2	
30,000 to 49,999 miles	3 2	109 114	36.1 56.7	2	59 70	36.9 58.9	
50,000 to 74,999 miles	1	192	135.1	1	136	118.4	
		:					
RANGE OF OPERATION	111	917	8.3	36	265	7.4	
LocalShort range	111	200	19.0	5	265 118	25.1	
Long range	3	161	54.7	2	123	81.2	
Not reported	15	113	7.7	2	19	8.0	
ACQUISITION							
Purchased new	59	804	13.7	18	289	16.2	
Purchased new	77 3	519 70	6.7 22.0	26 1	197 39	7.6 46.4	
TYPE OF FUEL							
Gasoline Diesel and LPG Not reported	125 3 11	1,127 168 98	9.0 58.6 9.2	40 2 3	324 160 41	8.2 71.0 14.8	

See footnotes at end of table.

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**SOUTH DAKOTA 42-3** 

TABLE 2. Trucks, Truck-Miles, and Average Miles, by Vehicle and Operational Characteristics: 1972—Continued

	Numb	er of trucks and truc	k-miles	Number of trucks and truck-miles excluding pickups and panels			
Vehicle and operational characteristics	Trucks	Truck-miles	Average miles per truck	Trucks	Truck-miles	Average miles per truck	
	(thousands)	(millions)	(thousands)	(thousands)	(millions)	(thousands)	
MAINTENANCE							
Self or own repair shop	55	477	8.7	17	195	11.3	
ealer or factory branch	26 45	363 447	13.9 10.0	11 14	185 121	17.6	
ndependent garage	13	105	7.8	3	25		
SIZE CLASS						N. C.	
.ight	98	903	9.2	8	93	11.8	
ledium	32	229	7.1 12.0	28 4	174 47	6.2	
dght-heavyleavy-heavy	4 5	47 213	42.8	5	213	42.8	
TRUCK FLEET SIZE		-					
truck	76	699	9.2	9	71	8.3	
to 5 trucks	52 8	467 130	9.0 15.5	28 6	262 110	9.4	
to 19 trucks	3	96	31.7	2	83	38.8	
ot reported		-	-	-	_	-	
YEAR MODEL <sup>1</sup>	:						
971 and 1972	18 20	364 264	20.3 13.4	4	139 96	33.2	
969 and 1970 967 and 1968	19	251	13.4	4	75	16.9	
965 and 1966	17	155	9.3	4	60	14.6	
963 and 1964	15 51	113 245	7.7	5 23	39 117	8.4	
re-1963	<i>3</i> 1	243	***	20			
VEHICLE TYPE AND AXLE ARRANGEMENT					0.10		
Single-unit trucks	136 133	1,210 1,163	8.9	42 38	343 297	8.2	
2-axle	3	47	13.9	3	46	13.8	
ombinations	3	182	61.9	3	182	61.9	
3-axle4-axle	1	23	30.6	1	23	30.6	
5-axle	2	149	82.9	2	149	82,9	
All other	-	-	-		_	-	
PICKUP, PANEL, MULTISTOP, OR WALK-IN <sup>2</sup>							
Cotal (all trucks)	139	1,392	10.0	-	-		
Total pickup, panel, multistop,	93	856	9.2	_	1 -	<u> </u>	
or walk-in	89	772	1	]	_		
Panel trucks	3	80	23.8		-		
Multistop or walk-in trucks All other truck types	1 46	536	6.4	-	-		
WHEEL DRIVE AND CAMPERS							
otal	139	1,392	10.0	-	-	-	
Number of driving wheels:	79	758	9.6	-	-		
Four	11	89	1	-	-	1	
Not reported	49	545	11.1	-	-	1	
Camper body or special camping equipment:						1	
With camper body	7	92	1	_	-	1	
Not with camper body	78 53	720 580			1 :	1	

See footnotes at end of table.

TABLE 2. Trucks, Truck-Miles, and Average Miles, by Vehicle and Operational Characteristics: 1972—Continued

	Numb	er of trucks and truc	k-miles	Number of trucks and truck-miles excluding pickups and panels				
Vehicle and operational characteristics	Trucks	Truck-miles	Average miles per truck	Trucks	Truck-miles	Average miles per truck		
	(thousands)	(millions)	(thousands)	(thousands)	(millions)	(thousands)		
CAB TYPE								
Tilt cab	3	164	56.5	3	164	56.5		
Not tilt cab	123	1,116	9.1	40	344	8.7		
Not reported	13	113	8.7	2	18	8.4		
LEASED						e gje v siko		
Leased, long term	1	31	48.7	1	30	48.6		
Leased, short term		-	-	-		_		
Not leased and not reported	138	1,358	9.8	44	493	11.2		
PRINCIPAL PRODUCTS CARRIED								
Farm products	65	519	8.0	28	226	8.0		
Mining products	-	-	_	-	_	·		
Forest products	- 1	-,	-	-	-1			
Processed foods	1	55	48.3	1	50	73.1		
Textile products	-	-	_	-		_		
Building materials	5	53	10.9	3	40	12.6		
Household goods	-	-	~	ش ا	-1	· · -		
Furniture	-	-	-	-	-	<u>-</u>		
Paper products	- 1	-	. []	-	- 1	_		
Chemicals Petroleum	1 4	3	4.5	-				
Primary metal products	4	46	13.1	2	39	16.5		
Fabricated metal products	- 1	19	28.2	-	-	-		
Machinery (except electrical)	1	14	14.1	1	11	15.8		
Electrical machinery	2	72	35.5	_	_			
ransportation equipment	1	21	15.4	_ ]	_	_		
Scrap, refuse or garbage	6	30	5.0	_	- 1	<del>-</del>		
Mixed cargo	.5	87	16.7	1	37	35.7		
Personal transport	35	315	8.9	3	35	13.1		
Other	4	66	15.8	2	32	17.0		
Not reported	6	73	12.0	2	27	17.1		

Note: Total number of trucks registered in 1972 represents the total registrations during 1971 compiled by the Federal Highway Administration projected for 1972 by the Census Bureau. For reports issued prior to June 1973, this is a projected total. All other data are proportion estimates derived from the Truck Inventory and Use Survey.

Data relate to the State of registration which is, in most cases, the base of operations. However, some trucks that are reg-

istered in a given State are actually based in another State and/or operate interstate.

A dash (-) indicates that there were not a significant number of trucks with this characteristic to display; i.e., less than 100 total observations in sample or less than .05 percent of the total in any one cell.

Data are subject to sampling variability, estimates of which may be found in table 3.

<sup>&#</sup>x27;Vehicles for which "year model" was not obtained are not included in the distribution.

The total of the body type class "pickup, panel, multistop, or walk-in" is 94,000. However, 1,000 trucks in this group were not subclassified by the respondent and were accumulated in the "all other truck types" within the pickup, panel, multistop, or walk-in classification. This difference is also reflected in the percentage distributions.

TABLE 3. Sampling Variability of Data

Item	Percent of total trucks <sup>1</sup>	Sampling variability <sup>2</sup>		Percent of total trucks <sup>1</sup>	Sampling variability <sup>2</sup>
MAJOR USE			MAINTENANCE		
Agriculture	52.1	1.9	Self or own repair shop	39.6	1.9
Forestry and lumbering	.5	.2	Dealer or factory branch	18.8	1.5
Mining	-	-	Independent garage	32.0	1.8
Construction	5.1	.8	All other and not reported	9.7	1.2
Manufacturing	.7	.2	GYPD GY AGG		
Wholesale and retail trade	6.5 1.7	.8	SIZE CLASS		1.51
For hire	26,4	1.8	Light	70.5	1.0
Personal transportation	1.7	.5	Medium	23.1	1.1
Services	4.2	.8	Light-heavy	2.8	.2
All other	1.0	-	Heavy-heavy	3.6	.2
BODY TYPE			TRUCK FLEET SIZE		
Pickup, panel, multistop, or walk-in	67.9	1.2	1 truck	54.5	1.8
Platform	10.0	.6	2 to 5 trucks	37.3	1.8
Platform with added device	1.7	.3	6 to 19 trucks	6.0	.7
Cattlerack	11.9	.8	20 trucks or more	2.2	.4
Insulated nonrefrigerated van	.3	.1	Not reported	-	<del>-</del>
Insulated refrigerated van	.4	.1	YEAR MODEL <sup>3</sup>		
Furniture van	.2	_	1971 and 1972		
All other vans	.6	.2	1969 and 1970	12.9 14.2	1.4 1.4
Beverage truck			1967 and 1968	13.5	1.4
beverage trucking in the second			1965 and 1966	12.0	1.3
Utility truck	2.3	.6	1963 and 1964	10.6	1.2
Garbage and refuse collector	-	-	Pre-1963	36.8	1.8
Winch or crane	.3	.1			
Wrecker	-	-	VEHICLE TYPE AND AXLE		
Pole and logging	-	-	ARRANGEMENT		
Auto transport	-	-	Single-unit trucks	97.9 95.5	.2
Dump truck	1.4	.1	2-axle	2.4	.3
Tank truck for liquids	2.0	.3	Combinations	2.1	.2
Tank truck for dry bulk	.2	_	3-axle	.2	
All other	.6	_	4-axle	.5	.1
50454,11,11,11,11,11,11,11,11,11,11,11,11,11			5-ax1e	1.3	.1
ANNUAL MILES			All other	.1	-
Less than 5,000 miles	33.5	1.7	PICKUP, PANEL, MULTISTOP,		
5,000 to 9,999 miles	33.0	1.8	OR WALK-IN		
10,000 to 19,999 miles	23.3	1.7		100.0	
20,000 to 29,999 miles	5.5 2.2	.9	Total (all trucks)	100.0	-
50,000 to 74,999 miles	1.4	.4	Total pickup, panel, multistop, or walk-in	66.8	1.2
75,000 miles or more	1.0	.3	Pickup trucks	63.9	1,4
•		•-	Panel trucks	2.4	.7
			Multistop or walk-in trucks	.5	.2
RANGE OF OPERATION			All other truck types	33.2	1.2
Local	79.7	1.5	WHEEL DRIVE AND CAMPERS		
Short range	7.6	.9			
Long range	2.1	.4	Total	100.0	
Not reported	10,6	1.3	Number of driving wheels:		
			Two	57.0	1.6
ACQUISITION			Four Not reported	7.8 35.2	1.1 1.4
			Camper body or special camping	30.2	.4.4
Purchased new	42.2	1.9	equipment:		
Purchased used	55.5	1.9	With camper body	5.3	1.0
Leased and not reported	2.3	.5	Not with camper body Not reported	56.4 38.3	1.7 1.5
TYPE OF FUEL		:	CAB TYPE		•
Gasoline	90.3	1.1	Tilt cab	2.1	. 2
Diesel and LPG	2.1	.3		88.6	1.2
Not reported	7.7	1.0		9.3	1.2
		0	non robornemassessessessessessesses	0.0	~.4

Note: Data relate to the State of registration which is, in most cases, the base of operations. However, some trucks that are registered in a given State are actually based in another State and/or operate interstate. The <u>absolute</u> number of trucks, truckmiles, and average miles per truck for each characteristic may be found in table 2. A dash (-) indicates that there were not a significant number of trucks with this characteristic to display; i.e., less than 100 total observations in sample or less than .05 percent of the total in any one cell.

.05 percent of the total in any one cell.

1As estimated from the sample.

2One standard error which is a percent. See discussion in text for proper use and interpretation.

3Vehicles for which "year model" was not obtained are not included in the distribution.

9

TABLE 4. TRUCKS-Percent Distribution of Major Use Classes, by Vehicle and Operational Characteristics: 1972

	Total					Major us	e class				
Vehicle and operational characteristics		Personal trans- portation	Agri- culture	Construc- tion	Manufac- turing	Wholesale and retail trade	Utilities	Services	For hire	Forestry and lumbering	Mining
Total trucks	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
BODY TYPE											
ickup, panel, multistop, or walk-in	67.9	97.3	62.1	35,8		44.4	_	-	14.1	-	
latform	10.0	1	14.0	21.7	-	14.2	-	-	13.4	- 10 to ±	
latform with added device	1.7 11.9	.8	1.0 21.5	8.3	_	4.1	_	]	4.8 21.9	_	
asulated nonrefrigerated van	.3	-	.1	_	_	1.5	-	1	7.6	_	
sulated refrigerated van	.4	-	-		-	3.0	-	-	12.4	-	
rniture van	.2	-	-	-	-	.8	-	-	7.6	-	
en top van	- .6	.9	.1	.3	_	2.0	-		4.8	_	
1 other vansverage truck		.5			]	2.0	_		4.6	_	1
ility truck	2.3	.8	.4	7.9	_	3.3		_	-	_	
rbage and refuse collector	-	-	-	-		-	-	-	-	-	
nch or crane	.3	- ,	-	1.3	-	.3	_	-	1.0	-	
eckerle and logging	_		_		-		_		_		
to transport	_	-	_	_	_		1 1	] -	_	_	× .
mp truck	1.4	.1	.5	18.6	_	.8	_	_	-	_	
nk truck for liquids	2.0	-	.2	2.6		21,5	-	-	7.6	-	
nk truck for dry bulk	-	-	-		-	-	-	-	-	-	
ncrete mixer	.6	-	.2	3.2	-	3.9		_	4.8	-	
						"."			1		
ANNUAL MILES	22 5	90.0	41.0	20.5		17.0					
ss than 5,000 miles	33.5 33.0	29.8 40.6	41.9 31.7	20.5 27.7	-	17.9 21.9			10.5		l
000 to 19,999 miles	23.3	25.1	20.5	32.1	<b>-</b> :	31.0	_	_	12.4	_	
,000 to 29,999 miles	5.5	2.3	3.2	15.9	-	15.9		_	18.0	-	
000 to 49,999 miles	2.2	2,2	1.0	2.9	-	9.3	-	-	10.5	-	ĺ
000 to 74,999 miles	1.4		1.4	1.0	-	2.3 1.8	_	_	13.4 28.6	_	
ACQUISITION		·									
rchased new	42.2	35.3	42.5	46.8	_	60.5	_	_	52.3	-	
rchased used	55.5	62.4	55.7	52.0		32.3	-	-	38.2		
ased and not reported	2.3	2.3	1.8	1.3	-	7.3	· -	-	9.5	-	
SIZE CLASS											
ght	70.5	94.9	66.1	48.8	-	40.8	-	-	13.2	-	i
iium ght-heavy	23.1 2.8	4.9	31.1 1.4	22.0 9.3		37.1 14.7		-	25.8 8.6	_	
avy-heavy	3.6	.2	1.4	19.9	_	7.4	_	· -	52.5		1
TRUCK FLEET SIZE			_,_								
truck	54.5	84,0	48,5	22,9	_	27,9	_	_	22.7	_	
to 5 trucks	37.3	13.7	48.6	44.8		44.9	_	]	34.3		
to 19 trucks	6.0	1.5	2.8	19.8	-	21.7		-	18.1	-	1
trucks or more	2.2	.7	1	12.5	_	5.5	-	-	24.8		
-	_	_	-	-	-	-	-	-	-	-	
YEAR MODEL 1								] .			
71 and 1972	12.9 14.2	15.7	9.4	16.2	-	17.6	-		28.5		ł .
37 and 1968	13.5	14.1 7.7	13.2 16.4	15.6 12.7	-	19.9 15.6	_	1 -	20.0	_	1
5 and 1966	12.0	15.3	9.6	17.8	_	15.6	_	_	8.6	_	l
63 and 1964	10.6	10.6	10.5	10.5	-	9.8	-	-	11.4	-	}
9-1963	36.8	36.5	40.8	27.1	-	21.4	-	-	19.1	-	1
CAB TYPE											
1t cab	2.1	-	1,3	1.6	-	6.1	-	-	41.0	-	[ .
ot tilt cabt reported	88.6 9.3	91.5	86.4	96.8	-	90.1	_		56.1	-	1

Note: Data relate to the State of registration which is, in most cases, the base of operations. However, some trucks that are registered in a given State are actually based in another State and/or operate interstate. The <u>absolute</u> number of trucks, truckmiles, and average miles per truck for each characteristic may be found in table 2. A dash (-) indicates that there were not a significant number of trucks with this characteristic to display; i.e., less than 100 total observations in sample or less than .05 percent of the total in any one cell. Data are subject to sampling variability, estimates of which may be found in table 3. Percents may not add to total due to rounding.

1 Vehicles for which "year model" was not obtained are not included in the distribution.

**SOUTH DAKOTA 42-7** 

TABLE 5. TRUCKS-Percent Distribution of Size Classes, by Vehicle and **Operational Characteristics: 1972** 

	Total		Vehicle	size class	•
Vehicle and operational characteristics		Light	Medium	Light-heavy	Heavy-heavy
Total trucks	100.0	100.0	100.0	100.0	100.0
MAJOR USE				in the second second	
Agriculture					
Agricul ture Forestry and lumbering	52.1	48.9	70.1	26.5	19.
Mining	.5	.6	.2	2.4	
Construction	5.1	3.6	4.9	17.1	28.
Manufacturing	.7	.3	.8	1.8	7.
Wholesale and retail trade	6.5	3.8	10.4	34.1	13.
For hire	1.7	.3	1.9	5.3	25.
Personal transportation	26.4	35.6	5.6	1.8	
Utilities	1.7	1.3	2.6	4.1	1.
ServicesAll other	4.2 1.0	5.4 .4	1.4 1.9	.6 6.5	2.
BODY TYPE					
Pickup, panel, multistop, or walk-in					
Platform	67.9 10.0	92.0 1.5	13.1 33.8	1.8	′
Platform with added device	1.7	.2	6.0	15.3	19.
Cattlerack	11.9	3.2	38.2	3.5 10.6	2.:
Insulated nonrefrigerated van	.3	0.2	.8	.6	13.
Insulated refrigerated van	.4	_	.6		8.
Furniture van	.2	_	.4	.6	1.
Open top van	-	- 1	-	-	
All other vans	. 6	.3	.8	1.2	3.
Beverage truck	-	- 1	-	_	
Itility truck	2.3	2.8	1.5	.6	
Sarbage and refuse collector	-	-	-	-	
Winch or crane	.3	-	-	8.8	1.4
Pole and logging	- 1	-	-	-	•
Auto transport		_	-	-	•
Dump truck	1.4		-	90.6	0.1
Fank truck for liquids	2.0	_ :	2.5	20.6 32.4	21. 13.
fank truck for dry bulk	2.0		2.5	32.4	15.
Concrete mixer	.2	_	_	_ 1	6.0
All other	.6	- 1	2.2	4.2	5.
ANNUAL MILES					
less than 5,000 miles	33.5	27.2	55.3	35.9	13,9
5,000 to 9,999 miles	33.0	38.0	22.2	19.4	14.8
0,000 to 19,999 miles	23.3	26.5	14.6	22.4	17.6
20,000 to 29,999 miles	5.5	5.6	3.8	13.5	8.3
30,000 to 49,999 miles	2.2	1.4	2.8	4.1	11.1
50,000 to 74,999 miles	1.4	.9	1.1	4.7	12.5
75,000 miles or more	1.0	.3	.1		21.8
ACQUISITION				^	
Purchased new	42.2	43.2	38.1	44.1	46.8
Purchased used	55.5	54.3	60.7	54.7	45.8
eased and not reported	2.3	2.4	1.2	1.2	7.4
YEAR MODEL <sup>1</sup>					
971 and 1972	12.9	14.6	6.6	11.8	20.8
969 and 1970	14.2	15.8	9.7	10.0	14.8
967 and 1968.	13.5	15.5	7.3	10.0	15.
965 and 1966	12.0	12.4	10.2	12.9	13.9
.963 and 1964	10.6 36.8	11.2 30.5	9.5 56.7	9.4 45.9	8.3 26.4
CAB TYPE	55.5	55.5	55.7	40.9	20.9
CAB TYPE	9.1				a
lot tilt cab	2.1 88.6	88.7	2.4 92.9	7.1 87.6	37.0 59.7
ot reported	9.3	11.3	4.8	5.3	3.2

Note: Data relate to the State of registration which is, in most cases, the base of operations. However, some trucks that are registered in a given State are actually based in another State and/or operate interstate. The <u>absolute</u> number of trucks, truck-niles, and average miles per truck for each characteristic may be found in table 2. A dash (-) indicates that there were not a significant number of trucks with this characteristic to display; i.e., less than 100 total observations in sample or less than .05 percent of the total in any one cell. Data are subject to sampling variability, estimates of which may be found in table 3. Percents may not add to total due to rounding.

1 Vehicles for which "year model" was not obtained are not included in the distribution.

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TABLE 6. TRUCKS-Percent Distribution of Annual Mileage Classes, by Vehicle and Operational Characteristics: 1972

	Total			Ann	ual mileage cla	ISS		
Vehicle and operational characteristics		Less than 5,000 miles	5,000 to 9,999 miles	10,000 to 19,999 miles	20,000 to 29,999 miles	30,000 to 49,999 miles	50,000 to 74,999 miles	75,000 miles or more
and the second s								
Total trucks	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MAJOR USE								
Agriculture Forestry and lumbering	52.1 .5	65.2 .8	50,1	46.0 1.0	30.2	23.2	52.1	12.9
MiningConstruction	5.1	3.2	4.3	7.1	14,8	6.8	3.4	
Manufacturing Wholesale and retail trade	.7 6.5	.2 3.5	.8 4.3	8.7	18.7	5.3 27.9	4.6 10.3	6.5 11.3
For hire	1.7	.3	.6	.9	5,6	8.3	16,0	48.5
Personal transportation	26.4	23.5	32.5 2.2	28.5 1.9	10,9 4,4	26.9	1 -	
Utilities	1.7 4.2	2.1	4.2	5.3	11.5	_		19.1
All other	1.0	.5	.9	.4	3.5	1.5	13.5	1.6
BODY TYPE		,						2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Pickup, panel, multistop, or walk-in	67.9	55.0	78.0	76.9	71.7	47.1	40.6	19.1
Platform	10.0	17.9	6.7	4.4	5,1	7.6 3.8	9.2 2.3	16.2 1.6
Platform with added device	1.7 11.9	2.1 19.4	.9 8.7	2.1 6.1	1.2 3.9	16.5	25.0	14.6
Cattlerack	.3	-	.1	.4	-	3.8	1.1	11.3
Insulated refrigerated van	.4	.1	.1	.1	,6	2.3	2,3	24.3
Furniture van	.2	.1	.2	.1	,3	-	1.1	1.6
Open top van	-		_	.4	_ .9	3.0	2.3	1.6
All other vans	.6	.2	.8	-		-	-	
Utility truck	2.3	.7	1,6	4.6	7.4	.8	1.1	1.6
Garbage and refuse collector	-	. 7	-	.1	.3	_	3.4	-
Winch or crane	-3	.4	.3	-	-	_	-	-
Pole and logging	_		_	-	-	-	-	ļ. <b>-</b>
Auto transport	-	-	=	_ =		-		-
Dump truck	1,4	1.6 1.4	.7 1.1	1.3 3.0	2.7 4.2	6.1 3.0	1.1 8.0	4.9
Tank truck for liquids	2.0	1,4	1.1	3.0	4.2	-	-	
Concrete mixer	.2	.2	.4	.1	.3	-	-	-
All other	.6	,6	,6	.5	1.5	6.2	2,2	3,2
ACQUISITION								·
Purchased new	42.2	24.7	37.8	61.9	69.5	68.4 21.8	69.3 28.4	66.0 17.8
Purchased used	55.5 2.3	74,3 1.0	60.2 2.0	35.5 2.6	25.8 4.7	9.7	2.3	16.2
SIZE CLASS								
Light	70.5	57,3	81.2	80.1	71.7	46.3	42.9	20.8
Medium	23.1	38.2	15,6	14.5	16.1	30.2	17.0	3,2
Light-heavy	2.8 3.6	3.0 1.5	1.7 1.6	2.7 2.7	6.9 5.4	5.3 18.2	9,2 30,9	76.0
YEAR MODEL <sup>1</sup>	-							
1971 and 1972	12.9	1.4	6.3	26.0	42.8	45.7	39.7	32.3
1971 and 1972	14.2	9,4	10.0	21.8	30.2	30.1	9.2	22.6
1967 and 1968	13.5	6.9	15.5	18.9	17.2	12.1	8.0	30.5
1965 and 1966	12.0	6.4	17.8	14.4	5,6	4,5	5,7	11.3
1963 and 1964	10.6 36.8	8.8 67.1	17.8 32.6	5.9 13.0	.9 3.3	2,3 5,3	20.4 17.0	1.6

Note: Data relate to the State of registration which is, in most cases, the base of operations. However, some trucks that are registered in a given State are actually based in another State and/or operate interstate. The <u>absolute</u> number of trucks, truckmiles, and average miles per truck for each characteristic may be found in table 2. A dash (-) indicates that there were not a significant number of trucks with this characteristic to display; i.e., less than 100 total observations in sample or less than .05 percent of the total in any one cell. Data are subject to sampling variability, estimates of which may be found in table 3. Percents may not add to total due to rounding.

1 Vehicles for which "year model" was not obtained are not included in the distribution.

TABLE 7. TRUCKS-Percent Distribution of Ranges of Operation, by Vehicle and Operational Characteristics: 1972

en de la companya de La companya de la co	Total	Ran	ge of ope	ration		Total	Ran	ge of ope	ration
Vehicle and operational characteristics		Local	Short range	Long range	Vehicle and operational characteristics		Local	Short range	Long range
Total trucks	100.0	100.0	100.0	100.0	ACQUISITION				
MAJOR USE		d da S			Purchased new	42.2	40.4	57.1	72,
Agriculture	52.1	54.8	22.1	18.6	Purchased used	55.5	58.7	39.4	18.
Forestry and lumbering	.5	.7	.2		Leased and not reported	2.3	.9	3.5	8.
Mining	_	_	_ ~	-					
Construction	5.1	4.6	17.1	3.9	[설문 기사 기업 등급 전 등관 등급 등급 기 기업 등급			Marie de la constante de la co	
Manufacturing	.7	.3	4.8	3.9	TYPE OF FUEL	478.681	Profession		1000
Mholesale and retail trade	6.5	5.9	14.8	15.5			1 1	P19 200	1
for hire	1.7	.6	9.1	22.6	Gasoline	90.3	97.6	92.6	54
Personal transportation	26.4	25.5	25.0	30.0	Diesel and LPG	2.1	.8	6.1	35
Utilities	1.7	1.6	5.0	_	Not reported	7.7	1.6	1.3	9
Services	4.2	5.1	.7	l _ :		7.1	· .		12.00
11 other	1.0	.9	1.4	5.5	MAINTENANCE				
BODY TYPE					0.70	20.6	43.4	21.0	25
					Self or own repair shop	39.6		31.6	35
ickup, panel, multistop, or walk-in	67.9	67.4	55.6	48.5	Dealer or factory branch	18.8	19.0	30.4	34
latform	10.0	10.2	12.2	19,5	Independent garage	32.0	34.5	33.9	20
latform with added device	1.7	1.8	2.4		All other and not reported	9.7	3.1	4.1	10
attlerack	11.9	12.4	13.7	4.7				l	
nsulated nonrefrigerated van	.3	.1	2.0	4.7	YEAR MODEL 1	ľ			
nsulated refrigerated van	.4	.1	1.3	10.9		1		1	10.00
urniture van	.2	.1	1.3	.8	1971 and 1972	12,9	11.6	19.0	44
pen top van	-	-	-	-	1969 and 1970	14.2	12.4	24.2	18
ll other vans	.6	.5	1.3	5.5	1967 and 1968	13,5	14.1	15.0	10
everage truck	- 1	- [	-	-	1965 and 1966	12.0	12.0	13.0	16
tility truck	2.3	2.7	1.1	.8	1963 and 1964	10.6	10.6	13,2	3
arbage and refuse collector	-	<u>-</u> j	-	-	Pre-1963	36.8	39.3	15.6	6
inch or crane	.3	.2	1.3	-					
recker		-1	-	-	VEHICLE TYPE AND AXLE				
ole and logging	- 1	-	-	-	ARRANGEMENT				
uto transport	-	-	-	-				1	
ump truck	1.4	1.4	1.5	1.6	Single-unit trucks	97.9	99.4	90.6	57
ank truck for liquids	2.0	2.2	2.4	.8	2-axle	95,5	97.2	84.1	56
ank truck for dry bulk	-	- 1		_	3-ax1e	2.4	2.2	6.5	
oncrete mixer	.2	.2	. 2	-	Combinations	2.1	.6	9.4	42
11 other	.6	.6	3.7	2.4	3-axle	. 2	.1	. 2	2
A37377 A Y 1777 770					4-ax1e	. 5	.3	2.2	. 6
ANNUAL MILES		1			5-axle	1.3	.1	6.8	32
ess than 5,000 miles	33,5	37.0	8.7	13.1	All other	.1	-	.2	2
,000 to 9,999 miles	33.0	33.5	28.3	5.5			1		l
0,000 to 19,999 miles	23.3	22.3	27.6	12.4	CAB TYPE		<b>i</b> .		
0,000 to 29,999 miles	5.5	4.4	20.5	10.8					
0,000 to 49,999 miles	2.2	1.6	7.0	14.7	Tilt cab	2.1	.9	7.0	37
0,000 to 74,999 miles	1.4	. 9	5.0	14.7	Not tilt cab	88.6	96.2	92.1	62
5,000 miles or more	1.0	.2	2.8	28.9	Not reported	9.3	2.9	.9	

Note: Data relate to the State of registration which is, in most cases, the base of operations. However, some trucks that are registered in a given State are actually based in another State and/or operate interstate. The <u>absolute</u> number of trucks, truckmiles, and average miles per truck for each characteristic may be found in table 2. A dash (-) indicates that there were not a significant number of trucks with this characteristic to display; i.e., less than 100 total observations in sample or less than .05 percent of the total in any one cell. Data are subject to sampling variability, estimates of which may be found in table 3. Percents may not add to total due to rounding.

Percents may not add to total due to rounding.

1 Vehicles for which "year model" was not obtained are not included in the distribution.

TABLE 8. TRUCKS-Percent Distribution of Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics: 1972

	Total			Truck t	ype and axle ar	rangement		
Vehicle and operational characteristics		Single-unit truck	s	Combinations				
		Total	2-axle	3-axle	Total	3-axle	4-axle	5-axle
Total trucks	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MAJOR USE							Ì	
griculture	52.1	52.7	53.1	39.7	25.0	23.1	30.3	23.3
orestry and lumbering	.5	.6	.5	1.4	- '	-	-	
lining	-	-		-		-		-
Construction	5.1	5.0	4.3	35.6	10.5	23.1	3.0	11.5
fanufacturing.	1 7	6		69	1 12		1 01	1 2

TABLE 8. TRUCKS-Percent Distribution of Truck Types and Axle Arrangements, by Vehicle and Operational Characteristics: 1972—Continued

	Total			Truck ty	ype and axle ar	rangement		
Vehicle and operational characteristics	9 1 43		Single-unit trucl			Comb	ination	4
		Total	2-axie	3-axle	Total	3-axle	4-axle	5-axle
MAJOR USEContinued					1 (186)			
Wholesale and retail trade	6,5	6.3	6.3	5,5	15.3	15.4	18.2	14.1
For hire	1.7	.9	.8	6.2	41.1	30.8	30.3	47.4
Personal transportation	26.4	27.0	27.7 1.7		_	_		1 -
Utilities	1.7	1.7	4.3	1.4 .7	] [	1 _	]	-
Services	1.0	.9	.9	3,5	3.2	7.7	9.1	-
BODY TYPE						la de la composição		1.19
Pickup, panel, multistop, or walk-in	67,9	69.4	71.1	.7	_	_	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Platform	10.0	9.5	9.0	29.5	30.6	30.8	30.3	30.8
Platform with added device	1.7	1.7	1.5	8.2	1.6	15.4	30.3	19.2
Cattlerack	11.9	11.7	11.5	19.9	21.8 5.6	15.4	6.1	6.4
Insulated nonrefrigerated van	.4	.2	.2	_	14.5	7.7	1 2 2 2	21.8
Insulated refrigerated van	.2	.2	.2	l	1.6	7.7	3.0	
Open top van	-	-	<b> </b> -	-	-	-	-	-
All other vans	.6	.4	.4	: -	6.5	30.8	9.1	1.3
Beverage truck	]	1 -	]		-	-	-	
Utility truck	2.3	2.4	2.4	.7	_	_	1	1
Garbage and refuse collector	.3	.3	.3	2.1	I I	_	] [	l .
Winch or crane						_	-	
Pole and logging	_	_	_	-	_	-	-	
Auto transport	-	-	-	-	-	· -	-	•
Dump truck	1.4	1.3	.7	24.0	3.2	7.7	1	3.8
rank truck for liquids	2.0	1.9	1.8	4.1	8.9	-	9,1	10.3
Tank truck for dry bulk	[ -		-	8.9	_	_	_	
Concrete mixer	.2 .6	.2	.7	2.1	5.6	_	12.1	3.9
All other ANNUAL MILES				,-•-				
Less than 5,000 miles	33.5	34.0	34.2	24.0	10.5	15.4	12.1	9.0
5,000 to 9,999 miles	33.0	33,5	33.7	26.7	10.5	7.7	30.3	2.0
10,000 to 19,999 miles	23.3	23.7	23,6	26.0	6.5	38.5	6.1	1.
20,000 to 29,999 miles	5.5	5.5	5.4	9.6	5.6	23.1	12.1	3.4 7.
30,000 to 49,999 miles	2.2	2.0	1.8 1.0	8.2 4.8	12.1 17.7	15.4	6.1	23.
50,000 to 74,999 miles	1.4 1.0	1.1	.2	.7	37.1	10,4	15.2	52.
75,000 miles or more	1.0		•	•				
ACQUISITION	40.0	40.0	42.1	47.9	40.3	38.5	24.2	47.4
Purchased new	42.2 55.5	42.3 55.7	55.8	51.4	46.8	53.8	72.7	34.6
Purchased used	2.3	2.1	2.1	.7	12.9	7.7	3.0	17.9
TYPE OF FUEL	•-						1	
	90.3	91.4	91,4	91,1	37.9	84.6	81.8	11.
Gasoline	2.1	.8	.8	3.4	59.7	7.7		85.
Not reported	7,7	7.8	7.9	5.5	2,4	7.7	-	2.0
MAINTENANCE								
Self or own repair shop	39.6	39.5	39.5	41.8	41.9	15.4	33.3	50.
Dealer or factory branch	18,8	18.5	18.2	28.1	30.6	23.1		29.
Independent garage	32.0	32.2	32.3	25.3	25.0	53.8	24.2	20,
All other and not reported	9.7	9.8	9.9	4,8	2.4	7.7	6.1	
YEAR MODEL 1								
1971 and 1972	12.9	12.7	12.7	13.7	21.8	15.4		25.
1969 and 1970	14.2	14.2	14.2	12.3	14,5	7.7		19.
1967 and 1968	13.5	13.5	13.4	16.4	13.7 15.3	23.1	12.1 9.1	16, 16,
1965 and 1966	12.0 10.6	11.9 10.7	11.8 10.8	16.4 6.8	8.9	7.7		6,
1963 and 1964	36.8	37.1	37.1	34.2	25.8	46.2		15.
CAB TYPE	55,0	]				,		
	0.1			5.5	57.3	_	30,3	78.
Tilt cab	2,1 88.6	.9 89.6	.8 89.5	91.8	41.1	92.3		20.
Not reported	9.3	9.5	9.7	2.7	1.6	7,7		1.

Note: Data relate to the State of registration which is, in most cases, the base of operations. However, some trucks that are registered in a given State are actually based in another State and/or operate interstate. The <u>absolute</u> number of trucks, truck-miles, and average miles per truck for each characteristic may be found in table 2. A dash (-) indicates that there were not a significant number of trucks with this characteristic to display; i.e., less than 100 total observations in sample or less than .05 percent of the total in any one cell. Data are subject to sampling variability, estimates of which may be found in table 3. Percents may not add to total due to rounding.

1 Vehicles for which "year model" was not obtained are not included in the distribution.

# APPENDIX A. Facsimile of Questionnaire

			D.M.B. No. 41-S71078; Approve	al Expires December 31, 1973
FORM TC-200 U.S. DEF (9-29-71)  1972 CENSUS OF T TRUCK INVENTORY		U.S. Code). By dential. It may used only for s	sponse to this inquiry is re the same law, your report to t be seen only by sworn Cen- tatistical purposes. The law files are immune from legal pr	he Census Bureau is confi- sus employees and may be also provides that copies
INSTRUCTIO	NS -	1 (Please correct	any error in name and address	including ZIP code) 2
In correspondence perte report, please includ license number.	ining to this e State and			
Return the form in the addressed postage-paid later than 15 days after re	envelope not			
Bureau of the Censu ATT: Transportation Washington, D.C. 20	Division			
Item 1 - VEHICLE IDI		errors or omissions	in the identification of the	vehicle.
Make	Year model	Registered weight or capacity	State	License No.
3	4	5		
or lessee of this vehicle  1  Yes 2  No When did you or otherwise of them 3 — ACQUISITION How did you acquire the	sell, trade, dispose of it?	Month and year	a. What are the total mi this vehicle was driv during the past 12 mo If vehicle was idle for "None." If less than probable miles for a ye	the year enter 12 months, estimate par.
1   Purchased ne			LIFE TIME	Miles
2 ☐ Purchased us	purchased -	<b></b>	b. What are the total mi this vehicle has bee driven since new? .	n
Item 4 — BASE OF OP	ERATION	:h	Give speedometer (odd or if not indicated by a give your best estimat	speedometer,
the vehicle was open City or town			Item 6 - LEASED TO (	
County	8 State	9	During the past 12 month this vehicle MOSTLY for renting (without driver)  1 \[ \sum No - Go to ite.	ths, did you use or leasing or to others? om 7 on page 2
b. Was this vehicle ope in the State named in 1 Yes		ely 10		or rented for:  130 days? - Go to item 9
2 🗀 No				r longer? - Go to item 7

		age 2
Item 7 - MAJOR USE OF THE TRUCK OR COMBINATION	ON	15
How was the vehicle mostly used during the past 12 mon	nths? (Mark (X) one box)	
If the vehicle was leased to someone else (without driver) for that describes the business of the person or company to whom	periods of 30 days or more, mark (X) ONE box you leased the vehicle the longest time.	
Own farm or ranch or other agricultural activity  1 In forestry or lumbering  1 In mining or quarrying  1 In construction, buildings or roads  1 In manufacturing or processing  1 In wholesale and/or retail  1 For-hire transportation — Includes trucking services known as drayage, local cartage, household goods movers, common or contract motor carriers, commercial motor carriers, leased with driver, "owner-operators" under lease or contract.	Used in place of an automobile to go from home to work; for outdoor recreation; camping; fishing; etc.  In utilities — telephone, electric, gas, etc.  In services — hotel, automobile repair, laundry, funeral services, advertising, plumbing repair, etc.  Other — If none of the above applies to the use you make of the vehicle, describe the main use of the vehicle here.	
Item 8 - PRINCIPAL PRODUCTS CARRIED		16
Mark (X) ONE box which indicates product usually carried by t	his vehicle.	
oi Farm products (fruit, grain, livestock, poultry, dairy products, florist and nursery products, etc.)  oz Mining products  os Logs and other forest products  output Processed foods (dressed meat, beverages, tobacco, etc.)  os Textile mill products, including apparel and leather goods, etc.  output Building materials (lumber, millwork, sand, gravel, glass, concrete, etc.)  output Household goods (moving)  output Household goods moving)  output Paper products, including printing and publishing products  to Chemicals or related products (including drugs, paints, fertilizers, etc.)	11 Petroleum or petroleum products  12 Primary metal products (ingot, hillets, pipes, sheets, etc.)  13 Fabricated metal products except machinery and transportation equipment  14 Machinery except electrical  15 Electrical machinery, equipment, and supplies, including household appliances  16 Transportation equipment (motor vehicles, trailers, boats, motorcycles, etc.)  17 Scrap, refuse, and garbage  18 Mixed cargos  19 Used mainly for personal transportation or as a service vehicle such as a "traveling workshop" or is equipped with a crane, compressor, etc.)  20 Other — Describe	
Item 9 - PICKUP, PANEL, MULTI-STOP OR WALK-IN  a. Does this truck have a pickup, panel, multi-stop or walk-in body?  1  No 2 Yes - Mark (X) the box in front of illustration of type and answer "b" and "c"  1 Pickup truck	b. Does this pickup, panel, multi-stop or walk-in truck have 4-wheel drive?  1  Yes 2  No	19
2 Panel truck  3 Multi-stop or walk-in	c. Is this pickup, panel, multi-stop or walk-in truck equipped with a camper body or other special camping equipment?  1  Yes 2  No	20

#### **APPENDIX A-Continued**

	Item 10 - GROSS VEHICLE WEIGHT				21
	Mark (X) ONE box that is nearest the max	imum dross weidht	Cempty weight of y	ehicle plus carried load)	
	at which this truck or combination was op			onicio pias beriros rosay	
	01  6,000 or less	06 7 19,501	to 26,000	11 60,001 to 70,000	0
	02 6,001 to 10,000	07 26,001		12 70,001 to 80,000	0
	03 10,001 to 14,000	08 32,001	to 40,000	13 80,001 to 100,000	0
	04 14,001 to 16,000	09 🔲 40,001	to 50,000	14 100,001 to 130,000	0
	os 16,001 to 19,500	10 🔲 50,001	to 60,000	15 130,001 and over	
5	Item 11 - TYPE AND SIZE OF BODY				
	Mark (X) ONE box to describe the type of the truck or combination. If the power un- truck-tractor, report body type of the comb most frequently used with the power unit.	it is a	or capacity. I	box to indicate length of load space if two or more trailing units, (X) box length or capacity.	
	BODY TYPE		6		_
	01 🔲 Pickup, panel, multi-stop, wall				23
	02 Platform with added devices — such as feed, fertilizer, lime			Length of load space (feet)	
	or water spreader; dumping device, etc.		O1 🔲 Une	der 10	
	03 Other platform - including stal		-	and less than 13	
	grain, flathed, low bed, depre	ssed	_	and less than 16	
	04 Cattle rack (hogs, calves, and	100	·		
	other livestock)    OS   Insulated non-refrigerated van	<b>&gt;</b>		and less than 20	
	05 Insulated non-refrigerated van			and less than 28	
	07 Furniture van		06 🔲 28	and less than 36	
	08 Open top van		07 🔲 36	and less than 41	
	09  All other enclosed vans	10.5	08 🔲 41	or more	
	11 Utility (body equipped for mobi repair and service, e.g., telep line truck, electrical utility, e	hone			
	12 Garbage or refuse collector 13 Winch or crane, other than wre- 14 Wrecker 15 Pole or logging 16 Auto transport	cker	Do not speci	fy body size for these types.	
	26 Dump truck or combination—	-	Capacity of dump	(water level without side boards) (c	ubic yards)
			21   Under 22   5 to 6 23   7 to 9	.9 25 12 to 14.9 28 1	18 to 19.9 20 to 29.9 30 or more
		1		. 1 / n \	
	30 Tank truck or combination (for	ndarde)———	32  1,000 33  2,000	than 1,000 35 4,000 to to 1,999 36 6,000 to 2,999 37 8,000 to 5 to 3,999 38 12,000 or 1	7,999 11,999
	40 Tank truck or combination (for	dry bulk)	Dry bulk capacity  41 Less  42 300 to  43 600 to	than 300 44  900 to 1 5 599 45 1,200 to 1	499
	50 Concrete mixer	<del>-</del>	Capacity of mixe	(cubic yards)	
			51 Less 52 6 to 6 53 7 to 7	than 6 54 8 to 8.9 57 5.9 55 9 to 9.9 58	11 to 11.9 12 or over
	60 Other body types —  (If the above descriptions do satisfactorily describe your v please enter identifying body and size or capacity.)	ehicle,			

FORM TC-200 (9-29-71)

Item 12 - VEHICLE TYPE	Item 15 - CAB TYPE
Is this vehicle a single unit truck or is it	Does this vehicle have a tilt cab?
a truck-tractor?  1	1 Yes 2 No
120	Item 16 - TYPE OF FUEL 28
Item 13 - AXLE ARRANGEMENT	What type of fuel is used with this vehicle?
Mark (X) ONE box that illustrates the AXLE ARRANGEMENT of this truck or truck-tractor	1 Gasoline 2 Diesel 3 LPG or other
with the trailing unit most frequently used with the power unit.	Item 17 - MAINTENANCE 29
¹ <sup>-</sup>	When MAJOR repairs were needed on this vehicle, were they usually done by:
<del></del> 0	1 Yourself?
2	2 Truck dealer or factory branch?
0 00	3 Own repair shop (set up specifically for maintenance)?
3 □ _/□	4 Independent garage?
000	5 Other? - Describe
4	
•	Item 18 - AREA OF OPERATION
<del>0 0 0</del>	Where was this vehicle MOSTLY operated?
5 🗆 👝	Mark (X) ONE box only.
<del>6 5 00</del>	Mostly in the local area (in or around the city and suburbs, or within a short distance of the farm, factory, mine, or place vehicle is stationed).
*	2 Mostly over-the-road (beyond the local area) but usually not more than 200 miles one way to the most distant stop from the place vehicle is stationed.
° □ <b>⊘ ÖÖ' ÖÖ</b>	Mostly over-the-road trips that usually are more than 200 miles one way to the most distant stop from place the vehicle is stationed.
<del>0</del> 00, 00 0	Item 19 - NUMBER OF TRUCKS, TRUCK-TRACTORS AND TRAILERS OPERATED FROM "BASE OF OPERATIONS"
o If none of the above applies, please indicate total number of axles on:  Total axles	How many trucks, truck-tractors and trailers are
	you operating from the base named in item 4 on page 1? Report total number including the vehicle
Truck or truck-tractor	you operating from the base named in item 4 on page 1? Report total number including the vehicle which you described on this questionnaire.
Truck or truck-tractor  Trailing unit(s)	page 1? Report total number including the vehicle which you described on this questionnaire.  Total
Truck or truck-tractor  Trailing unit(s)	page 1? Report total number including the vehicle which you described on this questionnaire.  Total
Truck or truck-tractor  Trailing unit(s)	page 1? Report total number including the vehicle which you described on this questionnaire.  Pickups, panels, multi-
Truck or truck-tractor  Trailing unit(s)  Item 14 - POWERED AXLES  How many driving (powered) axles does this	page 1? Report total number including the vehicle which you described on this questionnaire.  Pickups, panels, multistops or walk-ins
Truck or truck-tractor  Trailing unit(s)	page 1? Report total number including the vehicle which you described on this questionnaire.  Pickups, panels, multistops or walk-ins
Truck or truck-tractor  Trailing unit(s)  Item 14 - POWERED AXLES  How many driving (powered) axles does this vehicle have? Report tandem axles as two axles.  1 One 3 Three 2 Two 4 Four or more	page 1? Report total number including the vehicle which you described on this questionnaire.  Pickups, panels, multistops or walk-ins
Truck or truck-tractor  Trailing unit(s)  Item 14 - POWERED AXLES  How many driving (powered) axles does this vehicle have? Report tandem axles as two axles.  1 One a Three 2 Two 4 Four or more  Item 20 - Name of person to contact Address (N	page 1? Report total number including the vehicle which you described on this questionnaire.  Pickups, panels, multistops or walk-ins

# APPENDIX B. Expected Sample Size and Distributions

#### **Expected State Sample by Number of Truck Registrations**

Sample size	State truck registrations
4,000	1,000,000 or more
3,000	500,000 to 999,999
2,000	Less than 500,000
800	District of Columbia

#### **Expected Distribution of State Sample by Truck Size**

Sample size	Small trucks	Large trucks	
4,000	800	3,200	
3,000	600	2,400	
2,000	400	1,600	
800	200	600	

#### **Expected Sample by State**

Sample per State	No. of States	Total	States
4,000	2	8,000	Calif., Tex.
3,000	9	27,000	Fla., Ga., III., Ind., Mich., N.Y., N.C., Ohio, Pa.
2,000	39	78,000	Ala., Alaska, Ariz., Ark., Colo., Conn., Del., Hawaii, Idaho, Iowa, Kans., Ky., La., Maine, Md., Mass., Minn., Miss., Mo., Mont., Nebr., Nev., N.H., N.J., N. Mex., N. Dak., Okla., Oreg., R.I., S.C., S. Dak., Tenn., Utah, Vt., Va., Wash., W. Va., Wis., Wyo.
800	1	800	D.C.
-	51	113,800	U.S. total

# APPENDIX C. Size Classification of Vehicles

The standard size classes in gross vehicle weight are as follows:	Garbage, wrecker, other Light-heavy		
Vehicle size class Gross vehicle weight	Winch or crane, pole or logging Heavy-heavy		
Light       10,000 or less         Medium       10,001 to 20,000         Light-heavy       20,001 to 26,000         Heavy-heavy       26,001 and over	Dump truck  a. Capacity 6.9 cubic yards or less Light-heavy b. Capacity 7.0 cubic yards or more Heavy-heavy  Tank truck (for liquids)		
Gross vehicle weight is shown on the registration records for all trucks in 31 States and used directly for classifying vehicles into the four vehicle size classes. In the remaining States, trucks are registered in terms of tons-rated capacity, empty vehicle weight, and other bases. For those States, the method used to classify trucks in terms of the four standard size classes	a. Liquid capacity less than 1,000 gallons . Light-heavy b. Liquid capacity 1,000 gallons or more . Heavy-heavy  Tank truck (for dry bulk) a. Capacity less than 300 cubic feet Light-heavy b. Capacity 300 cubic feet or more Heavy-heavy		
is based upon the characteristics of the trucks as reported by the truck owners in this survey. The following table shows the basis for classifying the major classes of trucks in those States.	Two-axle single-unit trucks  Pickup, panel, multi-stop, walk-in, platform, cattle rack, van, beverage, utility		
VEHICLE CHARACTERISTICS AND SIZE CLASS  All combinations (i.e., truck-tractor-semitrailer, and all other combinations)	Under 10 feet of load space Light 10 to 19 feet of load space Medium 20 to 40 feet of load space Light-heavy 41 feet of load space or more Heavy-heavy		
Three-axle single-unit trucks	Garbage, wrecker, other Medium Winch or crane, pole or logging Light-heavy		
Pickup, panel, multistop, walk-in, platform, cattle rack, van, beverage, utility Under 10 feet of load space Light	panel, multistop, walk-in, platform, Dump truck rack, van, beverage, utility Capacity 6.9 cubic yards or less Light-heavy		
10 to 19 feet of load space	Tank truck for liquids  Liquid capacity less than 1,000 gallons Medium  Liquid capacity 1,000 to 1,999 gallons Light-heavy  Liquid capacity 2,000 gallons or more Heavy-heavy		
Alabama Florida Ohio Alaska Hawaii Oklahoma Arizona Louisiana Oregon California Michigan South Carolina Colorado Nebraska South Dakota District of Nevada Wyoming Columbia New Mexico Washington	Tank truck for dry bulk  Capacity less than 300 cubic feet Medium  Capacity 300 to 599 cubic feet Light-heavy  Capacity 600 cubic feet or more Heavy-heavy		

## APPENDIX D. Revised Federal Highway Administration (FHWA) Total **Truck Inventory by State**

State	FHWA total truck inventory of private and commercial trucks			FHWA total truck inventory of private and commercial trucks	
	Estimated 1972 (Table V, Oct. 1972) <sup>1</sup>	Revised 1972 (Table MV-1, June 1973) <sup>2</sup>	State	Estimated 1972 (Table V, Oct. 1972) <sup>1</sup>	Revised 1972 (Table MV-1, June 1973) <sup>2</sup>
	(thousands)	(thousands)		(thousands)	(thousands)
UNITED STATES	19,745	20,250	Missouri	560	568
			Montana	183	200
Alabama	441	455	Nebraska	285	290
Alaska	48	43	Nevada	89	93
Arizona	297	314			
Arkansas	320	326	New Hampshire	57	62
California	2,065	2,158	New Jersey	335	339
			New Mexico	196	198
Colorado	374	387	New York <sup>4</sup>	659	672
Connecticut	146	143			
Delaware	51	49	North Carolina	600	618
Dist. of Columbia	15	14	North Dakota	165	166
Florida	622	653	Ohio	668	687
			Oklahoma	527	536
Georgia	560	554			
Hawaii	48	50	Oregon	253	247
daho	151	155	Pennsylvania	765	804
Illinois	695	688	Rhode Island	56	57
Indiana <sup>3</sup>	553	577	South Carolina	257	273
lowa	405	438	South Dakota	139	141
Kansas	442	450	Tennessee	424	446
Kentucky	422	430	Texas	1,644	1,660
Louisiana	390	401	Utah	203	192
Maine	104	108	Vermont	43	43
Maryland	269	276	Virginia	395	
Massachusetts <sup>4</sup>	249	248	Washington	508	504
Michigan	677	693	West Virginia	201	194
Minnesota	466	467	Wisconsin	335	375
Mississippi	300	309	Wyoming	92	94

<sup>&</sup>lt;sup>1</sup>Department of Transportation news (FHWA) release dated October 28, 1972. Estimated trucks and buses 1972 less public trucks and all buses reported in 1971. These totals were used to ratio adjust the sample data from the 1972 Truck Inventory and Use Surrey published in this report. Since the revised total truck inventory for most States is higher than originally estimated, the reader may wish to further adjust total truck data in this report upward proportionally to reflect the revised totals given in column 2,

<sup>2</sup>Department of Transportation news (FHWA) release dated July 6, 1973. The following farm trucks, registered at a nominal fee and

restricted to use in the vicinity of the owner's farm are not included in this table but in some cases were in the Truck Inventory and Use Survey universe prior to sampling: Connecticut, 4,557; New Hampshire, 3,504; New Jersey, 4,088; New York, 16,000; and Rhode Island, 1,473. Final motor-vehicle registration data for 1972 were unavailable at the time of publication. The figures shown are estimates by the State 4The State was unable to provide motor-vehicle registration data for 1972. The figures shown are estimates by the Federal Highway Administration.